LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

ANNUAL REPORT
ON
HYDROLOGIC DATA

SEASON OF 1941-42

FEBRUARY 1, 1944

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Regional Water Resources

Los Angeles County Flood Control District

HYDRAULIC DIVISION

REPORT TO M. E. SALSBURY, ACTING CHIEF ENGINEER

ANNUAL REPORT

ON

HYDROLOGIC DATA

SEASON 1941-42

Los Angeles County Flood Control District
Box 2418 Terminal Annex
Los Angeles, California 90054

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

February 1, 1944

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Ground Water Section

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

~~LOS ANGELES 5, CALIFORNIA~~

LOS ANGELES 14, CALIFORNIA

H. E. HEDGER
CHIEF ENGINEER

751 S. FIGUEROA ST.
ROOM 410

February 1, 1944

FILE NO. 2-20
SUBJECT Annual Report on Hydrologic Data Season of 1941-42

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 1941-42. This report is the twelfth of a series of annual or biennial reports which have been published covering fifteen years of records.

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

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

Yours truly,

M. E. Salsbury

M. E. Salsbury, Acting Chief Engineer

Los Angeles County Flood Control District
Hydraulic Division

February 1, 1944

Mr. M. E. Salsbury
Acting Chief Engineer
Los Angeles County
Flood Control District
Los Angeles 12, California

Dear Sir:

Transmitted herewith is the "Annual Report on Hydrologic Data" for the season 1941-42. 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 412 stations of which 95% furnished complete seasonal records. Of these stations, 170 have a continuous record for ten years or longer, and 12 stations have a continuous record for over fifty years.

Intensity records were obtained from 65 recording rain gages. Comparative intensities of rainfall for periods varying from 5 minutes to 24 hours and including storm totals and maximum intensities of record are included in this report for 9 representative stations.

The rainfall for the season 1941-42 was only 77% of normal for the County. No major storms occurred during the season. Intensities of rainfall in general were low. One storm of interest occurred on August 9th and 10 in the North Baldy-Big Pines area and produced high intensities for this time of year, 3.56 inches being recorded at Big Pines in a period of six hours and ten minutes. This storm produced only 0.23 of an inch in Los Angeles which, however, was the greatest August rainfall since 1889. Rainfall distribution throughout the County is shown by the following relation to 70 year normal indices for four areas of the County.

		% Normal
1.	San Gabriel Mt. Area	68
2.	Valley and Coastal Plain	75
3.	Santa Monica Mts.	81
4.	Desert Area	82

Seasonal amounts of snowfall for 5 mountain locations are also included in the report.

Evaporation records for 23 stations covering data from 31 evaporation pans are included in the report. The total seasonal evaporation recorded at the various stations varied from a maximum of 7.8 feet at Big Tujunga Dam to a minimum of 3.2 feet at West Saddle Peak in the Malibu area.

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

The District operated 65 recording streamflow stations located on the main streams and tributary channels. Records obtained from these stations are similar to and supplement 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 the operation of these stations, while the District in turn received cooperation at 5 stations from the Los Angeles Office of the U. S. Engineer Department.

Dam operations included in this report show daily reservoir water surface elevation, storage, inflow and outflow values for 14 dams operated by the District. These dams and two small debris dams control 410 square miles of mountain drainage with a total controlled storage of 90,788 acre feet.

A tabulation giving pertinent data for the season for 17 debris basins owned and operated by the District is included in the report. It will be noted that quantities of debris caught by the basins were very small during this season.

Conservation and Ground Water data are becoming of more value and have a greater interest to many organizations than in former years. The District has received cooperation in obtaining basic data on ground water from a large number of interested individuals and agencies. 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 at more than 1,000 wells.

Valuable reference data are included in the descriptions of the more important ground water basins and the barriers which separate one from another. These are presented in order that the physical conditions controlling water table fluctuations may be more generally understood.

Graphs of ground water fluctuations, shown herein, indicate that high ground water levels resulting from percolation of late seasonal flows of the wet season 1940-41, in general were maintained

without appreciable recession during 1941-42, a season deficient in runoff.

Total conservation of water effected during the season amounted to 144,670 acre feet. Of this amount about 32,210 acre feet was percolated in off channel spreading grounds, while the balance was percolated in natural and scarified channels. The most important spreading was as follows:

Spreading Grounds	Acre Feet
Rio Hondo Coastal Basin	2180.
San Gabriel River Water Committee	
Canyon Basin	21390.
Main Basin	8240.

This accounts for 31,810 acre feet of the total of 32,210 acre feet spread in the District during the season which produced a sub-normal quantity of water available for spreading purposes.

A summarized table showing runoff wasted to the ocean gives a total waste for 1941-42 of 123,000 acre feet.

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. The expressions indicating the value of the data are also appreciated.

Respectfully submitted,

Finley B. Laverty

Finley B. Laverty, Chief
Hydraulic Division

Recommended

Paul Baumann

Paul Baumann
Assistant Chief Engineer

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GAGING STATION RECORDS

Recorder Station Data (Arranged Alphabetically)

F.C. No.	Station	Location	Page
F81D-R	ALHAMBRA WASH	near Short Street	32
F152R	ALISO WASH	at Nordhoff Street	33
F38B-R	BALLONA CREEK	at Sawtelle Boulevard . . .	34
F120R	BIG DALTON CREEK	below Big Dalton Dam . . .	37
F274R	DALTON WASH	at Merced Avenue	38
F111B-R	BIG TUJUNGA CREEK	above Edison Road	39
F168R	BIG TUJUNGA CREEK	below Big Tujunga Dam No. 1	40
F213R	BIG TUJUNGA CREEK	above Gold Canyon	42
F20B-R	TUJUNGA WASH	at Glenoaks Boulevard . . .	44
F105R	TUJUNGA WASH	at Magnolia Boulevard . . .	45
F106R	TUJUNGA WASH CENTRAL BRANCH	at Magnolia Boulevard . . .	46
F270R	CALABASAS CREEK	at Ventura Boulevard . . .	47
F37B-R	COMPTON CREEK	near Greenleaf Drive . . .	48
F41C-R	COYOTE CREEK	at Del Amo Street	50
F265R	DOMINGUEZ CHANNEL	at Carson Boulevard	52
F53R	DUME CREEK	at Roosevelt Highway . . .	53
F271R	EATON WASH	below Eaton Wash Dam . . .	54
F104R	EATON WASH	at Ellis Lane	54
F149R	LIMEKILN WASH	at Devonshire Avenue . . .	55
F65B-R	LITTLE DALTON CREEK	above Mouth of Canyon . . .	56
L1R	LITTLE ROCK CREEK	above Little Rock Dam . . .	58
F67B-R	LITTLE SANTA ANITA CREEK	below Sierra Madre Dam . .	59
F267R	LITTLE SANTA ANITA CREEK	at Woodland Avenue	61
F19R	LITTLE TUJUNGA CREEK	at Foothill Boulevard . . .	62
F31R	LIVE OAK CREEK	near Mouth of Canyon . . .	63
F5B-R	LOS ANGELES RIVER	below Sepulveda Boulevard .	64
F266R	LOS ANGELES RIVER	at Mariposa Street	67
F57C-R	LOS ANGELES RIVER	above Arroyo Seco	69
F34B-R	LOS ANGELES RIVER	at Firestone Boulevard . .	72
F180R	LOS ANGELES RIVER	at Pacific Coast Highway .	75
F130R	MALIBU CREEK	at Crater Camp	77
F22R	MONROVIA CREEK	above Sawpit Creek	78
F195R	MONROVIA STORM DRAIN	at Peck Road	80
F181R	MONTEBELLO STORM DRAIN	at Outlet into Rio Hondo .	81
F118B-R	PACOIMA CREEK FLUME	below Pacoima Dam	82
F16R	PACOIMA WASH	at Parthenia Street	83
F40R	PUDDINGSTONE CREEK	below Puddingstone Dam . .	84
F192R	RIO HONDO	at Lower Azusa Road	85
F64R	RIO HONDO	above Mission Bridge . . .	87
F45R	RIO HONDO	at Stewart and Gray Road .	90
F83R	RIO HONDO SLOUGH	at San Gabriel Boulevard .	92
F82C-R	RUBIO WASH	at Glendon Way	93
F151R	SAN ANTONIO CREEK	at Mouth of Canyon	95

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GAGING STATION RECORDS (Contd.)

Recorder Station Data (Arranged Alphabetically)

F.C. No.	Station	Location	Page
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P3R	SAN GABRIEL RIVER WEST FORK	above Forks	99
P4B-R	SAN GABRIEL RIVER EAST FORK	above Forks	101
F250R	SAN GABRIEL - AZUSA CONDUIT	at Weir below S.G. Dam No.1	104
F220R	SAN GABRIEL - AZUSA CONDUIT	at Garcia Canyon	105
S100A-R	SAN GABRIEL - AZUSA DUARTE TUNNEL DIVERSION	at Mouth of Canyon	107
F190R	SAN GABRIEL RIVER	at Foothill Boulevard . .	108
F261B-R	SAN GABRIEL RIVER	at Valley Boulevard . . .	109
F263R	SAN GABRIEL RIVER	at Beverly Boulevard . . .	111
F262R	SAN GABRIEL RIVER	at Florence Avenue	113
F42R	SAN GABRIEL RIVER	at Spring Street, LongBeach	115
F48R	SAN JOSE CREEK	at Workman Mill Road . . .	117
F260B-R	SANTA ANITA WASH	at Foothill Boulevard . .	119
F92B-R	SANTA CLARA RIVER	at Highway 99	120
F278R	SAWPIT CREEK	below Sawpit Dam	122
F185R	SEPULVEDA CREEK	at Charnock Road	123
F43R	SYCAMORE UPPER STORM DRAIN	above Solway Street . . .	125
F44R	SYCAMORE LOWER STORM DRAIN	at Adams Square	126
F276R	THOMPSON CREEK SPREADING GROUNDS INTAKE	at Thompson Creek Dam . .	127
F54B-R, F54R	TOPANGA CREEK	above Mouth of Canyon . .	128
F252R	VERDUGO CHANNEL	at Estelle Avenue	130
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F.C. No.	Station	Location	
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U9R	DALTON CREEK	near Glendora	134
U2R	EATON CREEK	near Pasadena	136
U7R	FISH CREEK	near Duarte	136
U12R	HAINES CREEK	near Tujunga	138
U3R	LITTLE SANTA ANITA CREEK	near Sierra Madre	139
U14R	ROCK CREEK	near Valyermo	140
U6R	ROGERS CREEK	near Azusa	141
U15R	SAN ANTONIO	near Claremont	142
U10R	SAN DIMAS CREEK	near San Dimas	143
U8R	SAN GABRIEL RIVER	near Azusa	145

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GAGING STATION RECORDS

U.S.G.S. Station Data (Contd.)

F.C. No.	Station	Location	Page
U4R	SANTA ANITA CREEK	near Sierra Madre	147
U5R	SAWPIT CREEK	near Monrovia	148

Staff Gage Station Data (Arranged Alphabetically)

F.C. No.	Station	Location	
F116S	ARROYO DITCH	below headgate	150
F277S	ARROYO SECO	below Devils Gate Dam	150
F58S	ARROYO SECO	at Avenue 26	150
F87S	BANTA DITCH	at head of pipeline	151
F202S	BIG DALTON CREEK	above Sierra Madre Avenue . . .	151
F143S	BIG ROCK CREEK	above Pallette Creek	151
F183S	BIG ROCK CREEK	at Palmdale-Victorville Road .	152
F141S	ELIZABETH CREEK	above Dry Gulch	152
F100S	MAIN SPREADING CANAL	at Mouth of S.G. Canyon	152
F112S	MILL CREEK above BIG TUJUNGA CREEK	at Highway Bridge	152
F197S	PACOIMA WASH	near Arleta Street above Spreading Grounds	152
F121S	PALLETTE CREEK	above Big Rock Creek	152
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F93S	SANTA CLARA RIVER	above Lang Railroad Station . .	153
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F272S	SANTA MONICA CREEK	above Rustic Canyon	153
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Set No. 1	June 18	164
LOS ANGELES RIVER		
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SANTA ANITA		
Set No. 1	January 22	166
RIO HONDO		
Set No. 1	April 29	166
WALNUT CREEK		
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Set No. 1	February 3	171

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PRECIPITATION RECORDS

PRECIPITATION

Foreword:

This report contains precipitation data for the season in summarized form. It is the fourteenth of a series of similar seasonal reports.

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.

Summary

No major storms occurred during the 1941-42 season. Intensities in general were light, occasionally becoming moderate for short durations. (See Table V for a complete list of maximum intensities at representative stations.) The exception to this was a storm of very heavy intensities which occurred August 9th and 10th, centering near the North Baldy - Big Pines Area; 3.56 inches of rain fell at Big Pines Recreation Park between 9:50 P.M. on the 9th and 4:00 A.M. on the 10th; Valyermo reported 2.01 inches for a 40 minute period on the 10th, from 1:00 A.M. to 1:40 A.M. The storm produced .23 of an inch in Los Angeles. This is the greatest rainfall reported for the month of August in Los Angeles since 1889, when .61 of an inch fell.

There were 24 storms during the 1941-42 season which produced .01 of an inch or more.

The heaviest monthly rainfall occurred in the following order: December, April, October, March, February, January, August, and November.

Rainfall varied from 9.50 inches at Point Vicente Light House to 27.53 inches at Crystal Lake (East Pine Flats) and 36.11 inches at Kelly's Kamp in the Mountain Area, and decreased to 4.07 inches at Yato Kya Indian Museum - Piute Butte on the desert side.

The San Gabriel Mountain area shows the greatest departure from normal and the Desert (area North of the San Gabriel Mountains) the least.

An isohyetal map for the season is shown on Map I, page 20

Value of Precipitation Data

I. Length of Record

Precipitation data is the basis of hydrologic study and design and increases in worth with length of record. The District

is continually working to obtain and continue long time records, and to improve their accuracy.

The following table shows the number of stations for which the District has records for periods of 10 years or more.

	10 to 14 yrs	15 to 24 yrs	25 to 49 yrs	50 yrs & ove
Continuous records	147	113	41°	12°
Broken records	23	18	3	
Total	170	131	44	12

° 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.

II. Distribution of Gages

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

Following a policy started in 1927 the District has made considerable progress in securing a representative coverage of the County as the following figures will bear out.

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

October 1, 1927 79
October 1, 1942 412

The District has a good distribution of gages in the valley and foothill areas where more cooperative observers are available and has now practically a maximum possible coverage of mountain areas until additional observers are available. Station locations are shown on Map I, page 20.

An annual inspection trip was made in the fall of 1941 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 a 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 are located in areas which will furnish the most representative intensity data for flood flow analysis and computations. In the 1941-42 season, 28 of these were in the mountain area and the remaining 24

were in the valley area. In general, each automatic gage is placed close to a standard 8" United States Weather Bureau type gage as a check.

III. 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

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
- Recreation Department

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

Source and Number of Records

Table I, which follows, shows the number, type, and ownership of rain gages from which data are received every month:

TABLE I

Rain Gage Ownership and Type			Number of Gages 1941-42	Total
(a) Los Angeles County Flood Control District				
Standard	8"		232	
Automatic-Fergusson Type	9"	Cap.	31	
Automatic-Fergusson Type	12"	Cap.	13	
Automatic-Friez	30"	Cap.	1	
Automatic-Stevens Type Q-12	12"	Cap.	6	
Automatic-Remote Recording	Tipping Bucket		1	
Can and Glass Graduates			10	
Glass Graduates Special Henson Head			6	300

		Number of Gages 1941-42	Total
(b) Outside Agencies and Individuals			
Standard	8"	131	
Standard-Various Types		25	
Automatic-Various Size and Types		12	169
	Total		469
	Std. 8"°		- 57
Total gages from which the District receives records regularly.			412

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

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

TABLE II

Complete Seasonal Reports

	Season - 1941-42
F.C. Automatic Rain Gage Stations	52
F.C. Standard Rain Gage Stations	201
Private Automatic Rain Gage Stations	13
Private Standard Rain Gage Stations	125
Total	391

The above table shows the number of stations which furnished complete records or records which could be completed by estimates from adjacent stations for not more than 10 per cent of total seasonal amount. Thus out of the 412 stations reporting during the season, 95 per cent furnished complete records.

The following table presents a complete list of the automatic rain gages which were active during the season 1941-42, with the length of active record included.

TABLE III

ACTIVE AUTOMATIC RAIN GAGES

SEASON 1941-42

F.C. No.	Name of Station	Elev. USGS	Type and Capacity		Watershed	Period of Record
6	Topanga Canyon Guard Sta.	747	Fergusson	9"	Topanga Canyon	8-18-30 to date
10	Bel Air	540	"	9"	Stone Canyon	1-4-29 to date
11C	Upper Franklin Reservoir	867	"	9"	Franklin Canyon	9-20-40 to date
15	Van Nuys Warehouse	695	"	9"	L. A. River	8-18-30 to date
22	Johnson Rch.-Bell Canyon	930	"	9"	L. A. River	10-6-38 to date
33A-E	Pacoima Dam	1500	"	9"	Pacoima	9-22-30 to date
46C	Big Tujunga Dam	2290	Stevens - Q-12	12"	Big Tujunga	12-9-40 to date
47A	Clear Creek	3100	Fergusson	12"	Big Tujunga	11-2-28 to date
52B	Switzer Camp	3000	"	12"	Arroyo Seco	10-6-38 to date
53A	Sleepy Hollow Rch. (Colbys)	3500	"	12"	Big Tujunga	4-19-26 to 12-26-40
53A	Sleepy Hollow Rch. (Colbys)	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
57B-E	Opid's Camp	4350	"	12"	San Gabriel W.Fk	12-14-25 to date
60A	Hoegee's Camp	2750	"	12"	Big Santa Anita	10-11-26 to 10-13-39 9-27-40 to date
70E	Dalton # 1	800	"	9"	San Gabriel	12-4-26 to date
83E	Big Pines County Park	6860	"	9"	Desert	12-17-25 to date
85D	Camp Baldy Guard Station	4300	"	12"	San Antonio	11-11-27 to date
92	Pomona College	1190	"	9"	San Antonio	12-2-27 to date
108B	El Monte	285	"	9"	Rio Hondo	10-11-38 to date
150	Monrovia Falls	1800	"	9"	Sawpit	2-4-28 to 10-5-38
150	Monrovia Falls	1800	"	12"	Sawpit	10-5-38 to date
158	Tanbark Flats	2700	"	12"	San Dimas	1-16-29 to 7-7-39
158	Tanbark Flats	2700	Friez Tip. Bucket	(Private)	San Dimas	7-7-39 to date
178	Azusa - Griffith	545	Fergusson	9"	San Gabriel	1-1-31 to date
179B	Sierra Madre - Carter	1125±	"	9"	Rio Hondo	6-24-41 to date
201	Puente Hills	860	"	9"	San Jose Creek	12-19-40 to date
210B	Brand Park	1250	Stevens - Q-12	12"	L. A. River	12-27-28 to date
213	Hancock Park	177	Fergusson	9"	Ballona	1-13-29 to date
228B	Beverly Hills	255	"	9" (Private)	Ballona	10-14-31 to date
235B	Henninger Flats	2550	"	9"	Eaton Canyon	12-30-29 to date
257	Griffith Park Nursery	750	"	9"	Ballona	9-19-30 to date
259B	Chatsworth Patrol Sta.	1249	"	9"	L. A. River	8-17-37 to date
261E	Acton	3075	"	9"	Santa Clara	11-27-30 to date
268E	Torrance	57	Stevens - Q-12	12"	Laguna-Dominguez	3-19-40 to date
280	Flintridge Fire Station	1325	Fergusson	9"	Arroyo Seco	7-26-30 to date
283a	Crystal Lake - E. Flats	5740	"	12"	San Gabriel N.Fk	11-26-35 to date
291	96th & Central Sts. L.A.	121	"	12" (Private)	L. A. River	10-6-30 to date
303B	Cal. Tech.	763	"	9"	Alhambra Wash	12-13-30 to date
311b	Pasadena-Meterolog. Sta.	918	Friez Tip. Bucket	(Private)	Arroyo Seco	10-1-38 to date
334E	San Gabriel Dam # 2	2335	Fergusson	9"	San Gabriel W.Fk	1-14-32 to date
338B	Mt. Wilson - Airways Sta.	5709	"	12"	Various	3-24-41 to date
348C	Honor Camp # 4	2000	"	12"	San Gabriel E.Fk	5-11-38 to 6-4-40
348C	Honor Camp # 4	2000	"	9"	San Gabriel E.Fk	6-4-40 to date
352	Lechuza Patrol Station	1530	"	9"	Arroyo Sequis and Trancas Canyon	11-28-34 to date
356	Diamond Bar Ranch # 2	675	"	9"	San Jose Creek	3-30-38 to date
367	Upper Haines Canyon	3450	"	9"	Big Tujunga	1-13-33 to 6-11-40
367	Upper Haines Canyon	3450	J.P. Friez Cam	30"	Big Tujunga	6-11-40 to date
373	Briggs Terrace	2310	Fergusson	9"	Verdugo	11-21-33 to date
380	El Sereno	553	"	9"	L. A. River	11-5-34 to date
402C	State Prison Camp # 37	6665	"	12"	San Gabriel W.Fk & Little Rock Cr	8-28-40 to date
415	Signal Hill City Hall	115	"	9"	Coastal	3-15-37 to date
418	Pickens Canyon	4075	"	9"	Verdugo	10-29-36 to 3-28-40
418	Pickens Canyon	4075	Stevens - Q-12	12"	Verdugo	3-28-40 to date
419	Mt. Gleason	5450	J.P. Friez Cam	30"	Pacoima - Santa Clara	9-21-37 to 6-4-40
419	Mt. Gleason	5450	Fergusson	12"	Pacoima-Santa Cl.	6-4-40 to date
425A	San Gabriel Dam # 1	1470	"	12"	San Gabriel	10-12-37 to 11-27-41
425A	San Gabriel Dam # 1	1470	"	9"	San Gabriel	11-27-41 to date
433	Altadena-Co. Forestry Pk.	1710	"	9"	Rubio Wash	9-14-38 to date
439B	Charlton Flats	5500	"	12"	Big Tujunga and San Gabriel W.Fk	8-2-39 to date
445	Live Oak Canyon	1630	Stevens - Q-12	12"	Live Oak Wash	3-20-40 to date
446	Aliso Cn. Santa Susana Mts	2367	Fergusson	9"	L. A. River	7-2-40 to date
470	Tujunga-Mill Creek	4700	Friez	30" (Private)	Big Tujunga	10-18-41 to date
471	Little Tujunga-Gold Creek	2700	"	12" (Private)	Little Tujunga	10-30-41 to date
477	Santa Anita-Spring Camp	4880	Fergusson	12"	Santa Anita	11-25-41 to date
577	Los Angeles - U.S.W.B.	330	Friez Tip. Bucket	(Private)	L. A. River	2-19- 97 to 3-1-40
577	Los Angeles - U.S.W.B.	313	" " "	"	L. A. River	3-1-40 to date
690	San Antonio - Guard Sta.	2380	Stevens Float	(Private)	San Antonio	12-17-37 to date
699	Los Angeles-30th & Trinity	208	Fergusson	12"	Compton Creek	10-9-40 to date
700	Los Angeles - Slauson and Long Beach Boulevard	176	"	12"	Compton Creek	10-28-40 to date
X-4	Towsley Canyon - Fire Area	1700	"	9"	Santa Clara	10-1-40 to 11-24-41

The District also has records of 38 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 70 year seasonal indices for Los Angeles County. 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 is shown on Map II, Page 21.

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		
96	54	20	81		

° October 1 to September 30.

Comparative Rainfall

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

TABLE IV

Comparison of Rainfall by Stations

	Elev.	Yrs. of Record	70 yr. Normal Inches	1941 1942 Inches	% of Normal
Long Beach	80	48	13.36	10.41	78
Los Angeles (USWB)	548	70	15.71	11.37	75
Pasadena	865	70	20.29	15.09	74
Camp LeRoy (Hoegee's)	2400	17	43.57	21.99	58
Mouth of San Antonio Cn.	2500	38	27.66	18.40	67
Colby's Ranch	2950	45	31.40	20.08	64
Camp Singer (Opid's)	4350	25	41.37	24.54	59
Mount Wilson	5650	38	37.08	21.84	59

The following table compares precipitation by areas using averages of a number of stations. Stations used are identical with those used in similar tables in previous reports, except that where those stations are now inactive, nearby stations have been substituted.

TABLE V

Comparison of Rainfall by Areas

Area	No. of Sta. Used	Ave. 70yr Normal Inches	1941-42 Season Ave. Amt. Inches	% of 70 yr Normal
Coastal Plain	8	14.88	12.62	83
San Fernando Valley	7	16.71	12.98	78
San Gabriel Valley-East	12	19.82	13.25	67
San Gabriel Valley-West	6	21.74	15.57	73
Santa Monica Mountains	5	18.05	14.53	81
San Gabriel Mountains	16	29.01	19.29	68
Desert	6	10.87	9.01	83
Sierra Pelona	6	15.04	11.96	81

Number of Days Rainfall - .01 inch or more

Los Angeles (USWB) (Valley)	38 days 5 p.m. to 5 p.m.
Opid's Camp (Mountains)	53 days 5 p.m. to 5 p.m.

Maximum and Minimum Seasonal Rainfall

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

TABLE VI

Maximum and Minimum Rainfall

No.	Station	Minimum Seasonal	Maximum Seasonal	Maximum Day	Date
456	Yato Kyo Indian Museum-Piute Butte	4.07			
283A	Crystal Lake-E. Pine Flat		27.53		
83	Big Pines Rec. Park			3.56	8-10-42
308	Kelly's Kamp°		36.11	5.01°°	12-10-41

° Adjacent to County--San Antonio Canyon.
°° 5 p.m. reading is interpolated from Trails Inn.

Table VII shows a comparison of maximum intensities for nine representative stations in the District during the season and the maximum intensities of record.

Table VIII presents monthly and seasonal rainfall amounts for stations from which the District received records during the season 1941-42.

Table IX entitled "Rain Gage Station Locations", gives pertinent data regarding each of the stations.

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 quandrangle 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 zero to nine reading from left to right and top to bottom respectively.

Summary of Snowfall

Snowfall at five high mountain points is shown as follows:

Sta. No.	Location	Elev.	Season-1941-42 Amount in Inches
82	Table Mountain	7500 ft.	80
83	Big Pines Rec. Camp	5860 ft.	120
283a	Crystal Lake,E.Pine Flats	5740 ft.	53
308	Kelly's Kamp	8300 ft.	150
402C	Cedar Springs	6665 ft.	70

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

Snow Survey Course	Date	Density Percent	Water Content Inches Depth
Mt. San Antonio	3-3-42	39	15.3
Mt. San Antonio	3-30-42	39	14.2
Upper Ice House Cn.	3-2-42	39	14.2
Upper Ice House Cn.	3-21-42	41	13.3

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 collection of these data and by so doing have made such a complete report possible.

Responsibility

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

Note: Starting February 9, 1942, Pacific War Time was used.

TABLE VII

COMPARATIVE MAXIMUM RAINFALL INTENSITIES IN INCHES

		5min.	10min.	15min.	30min.	60min.	120min.	300min.	24hrs.	Storm Total Auto.	Storm Total Std.
Sta.No. 577F Los Angeles (USWB) 1941-42	Amt.	.13	.25	.31	.50	.60	.75	1.14	1.67	1.78	1.69
	Date	12/10/41	12/10/41 12/10/41	12/10/41	12/10/41	12/10/41	12/10/41	12/10/41	12/9-10/41	12/9-10/41	
Max.of Record	Amt.	.42	.65	.70	1.14	1.51	1.99	3.06	7.36	8.27	9.67
	Date	1/14/08		2/18/14		2/18/14		3/2/38		12/31/33 1/1/34	3/2-10/84
Sta.No. 15 Van Nuys Whse 1941-42	Amt.	.24	.36	.46	.88	1.26	1.43	1.90	3.31	3.41	3.41
	Date	12/28/21	12/28/41 12/28/41	12/28/41	12/28/41	12/28/41	12/28/41	12/28/41	12/28-29/41	12/28-29/41	
Max.of Record	Amt.	.33	.42		.88	1.26	1.43		6.94	7.85	7.81
	Date	12/15/38				12/28/41				12/30/33-1/1/34	
Sta.No. 178 Azusa-Griffith 1941-42	Amt.	.12	.22	.31	.38	.50	.75	1.40	2.48	2.51	
	Date	2/21/42	2/21/42 2/21/42	2/21/42	2/21/42	3/14/42	3/14/42	12/11/41	12/10-11/41	12/10-11/41	
Max.of Record	Amt.	.31	.44		.77	1.10	1.73		8.27	12.14	12.02
	Date	2/28/38	2/28/38		10/17/34	10/17/34	12/31/33 1/1/34		12/31/33 1/1/34	12/31/33 1/1/34	1/14-19/16
Sta.No 425A San Gab.Dam#1 1941-42	Amt.	.22	.31	.34	.44	.79	1.02	1.16	2.52	3.25	3.25
	Date	12/10/41	12/10/41 12/10/41	12/10/41	12/23/41	12/23/41	12/23/41	12/28-29/41	12/28-29/41	12/28-29/41	
Max.of Record	Amt.	.60	.62		1.04	1.18	1.76		10.37	12.07	25.08
	Date	4/5/26	4/5/26		4/5/26	4/5/26	3/2/38		3/1-2/38	4/4-8/26	12/17-22/21
Sta.No. 201 Acton-Mellen 1941-42	Amt.	.18	.26	.28	.30	.33	.48	.52	.98	1.40	1.66
	Date	10/12/42	10/12/41 10/12/41	10/12/41	10/12/41	10/12/41	10/12/41	12/28/41	12/28-29/41	12/28-29/41	
Max.of Record	Amt.	.29	.41		.66	.72*	.69		3.00	3.82	6.69
	Date	8/26/35	8/26/35		10/1/32	10/1/32	2/16/32		3/1-2/38	12/17-21/38	12/18-27/21
						*Standard Gage					
Sta.No. 6 Topanga Gn. 1941-42	Amt.	.43	.47	.62	1.16	1.27	1.41	1.95	3.78	4.35	4.35
	Date	12/28/41	12/28/41 12/28/41	12/28/41	12/28/41	12/28/41	12/28/41	12/28/41	12/28-29/41	12/27-30/41	
Max.of Record	Amt.	.45	.60	.86	1.16	1.60	2.72		13.44	15.88	16.03
	Date	3/3/41	2/20/41 2/20/41	2/20/41	2/20/41	2/20/41	12/31/33		12/31/33	12/29/33	1/1/34
Sta.No. 92 Pomona College 1941-42	Amt.	.12	.16	.20	.32	.53	.77	.85	1.64	1.72	1.76
	Date	12/10/41	12/10/41 12/10/41	12/10/41	12/10/41	3/14/42	3/14/42	3/14/42	12/9-10-41	12/9-11/41	
Max.of Record	Amt.	.23	.33		.58	.92	1.47		7.86	8.87	11.03
	Date	10/17/34	1/7/40		10/17/34	1/1/34	1/1/34		12/31/33 1/1/34	12/31/33 1/1/34	2/10-18/27
Sta.No. 57B Camp Singer (Opids) 1941-42	Amt.	.15	.24	.27	.40	.64	.91	1.62	3.16	3.37	3.35
	Date	10/10/41	8/9/41 8/9/41	8/9/41	8/9/41	8/9/41	8/9/41	12/28/41	12/9-10/41	12/27-30/41	
Max.of Record	Amt.	1.17	1.18	1.18	1.52	2.21	3.80	7.60	15.96	21.34	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	3/1-2/38	4/4-8/26	12/18-23/21
						1.03 inches in one minute 4:48 AM to 4:49 AM April 5, 1926					
Sta.No. 60A Camp Le Roy (Hoegee's) 1941-42	Amt.	.17	.23	.33	.53	.64	.85	1.30	2.79	3.49	3.60
	Date	2/21/42	12/10/41 12/10/41	12/10/41	12/28/41	12/28/41	12/10/41	12/28/41	12/28-29/41	12/28-30/41	
Max.of Record	Amt.	.43	.57		.91	1.58	2.88		14.76	17.51	30.39
	Date	12/27/36	12/27/36		10/18/36	3/2/38	3/2/38		3/1-2/38	12/30/33 1/1/34	4/5-9/26

TABLE VIII

SEASON 1941-42 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 Patorl Station	1.43	.13	5.42	1.15	1.49	2.21	4.51	.03	.04	0	.12	0	16.53
3	Seminole Hot Springs	1.80	.15	7.32	.72	1.10	1.82	3.74	0	0	0	.50	0	17.15
4	Crags County Club	1.22	.02	6.53	.69	1.54	2.13	No Record.						Inc.
5B	Calabasas	1.61	.05	4.72	.55	1.06	1.67	2.42	.05	0	0	.51	0	12.64
6	Topanga Ranger Station	2.11	.10	6.91	.83	1.72	1.87	4.25	.02	0	0	.38	0	18.19
7C	Bel Air Bay Club	1.63	.01	4.96	.69	1.42	1.28	2.82	0	0	0	.12	0	12.93
8	Mandeville Canyon	2.19	0	5.40	0	1.36	1.90	3.70	0	0	0	.30	0	14.85
9	Sepulveda - Chase	1.98	.05	5.35	.16	.85	1.12	1.92	T	0	0	.68	0	12.11
10	Bel Air	1.84	.07	5.41	.39	1.91	1.39	3.26	0	0	0	.24	0	14.51
11C	Upper Franklin Reservoir	1.73	.04	6.15	.53	1.74	1.58	3.15	0	0	0	.26	0	15.18
12	Franklin-Mulholland Patr.1	1.80	.29	6.66	.49	1.94	1.23	2.85	0	0	0	.55	0	15.81
13	No. Hollywood Blix	1.67	.09	6.41	.33	1.41	1.25	2.22	0	0	0	.70	0	14.08
14	Roscoe - Merrill	1.78	.06	6.39	.19	.75	1.26	1.97	T	0	0	.80	0	13.20
15	Van Nuys - Warehouse	1.90	.05	5.80	.26	.96	1.17	2.25	.05	0	0	.74	0	13.18
17	Sepulveda-Mulnolland Pat.2	1.77	.09	6.09	.30	1.58	1.59	2.79	0	0	0	.55	0	14.76
18	Adohr Dairy	1.45	.04	4.96	.24	.96	1.53	2.33	0	0	0	.87	0	12.38
19	Topanga - Summit	2.51	.04	5.28	.59+	1.18	1.47	3.82	0	0	0	.82	0	15.71
20B	Girard - Reservoir	1.73	.06	5.10	.50	1.03	1.50	2.43	.03	0	0	.57	0	12.95
21	Brant Ranch - Girard	1.94	.08	4.65	.41	.90	1.49	2.29	0	0	0	.57	0	12.33
22	Bell Canyon - Johnson Rch	1.41	.08	3.96	.38	.96	1.12	2.77	0	0	0	.36	0	11.04
23E	Chatsworth Reservoir	1.61	.10	3.77	.41	.82	1.33	2.59	0	0	0	.60	0	11.23
24C	Chatsworth	1.86	.10	3.77	.41	.97	1.22	2.68	0	0	0	.73	0	11.74
25B	Zelzah Northridge-Andrews	1.73	.13	4.15	.32	.84	1.05	2.60	T	0	0	.78	0	11.60
27	W. D. Miller Ranch	1.52	.09	4.97	.17	.66	1.15	2.23	0	0	0	.53	0	11.32
28	San Fernando Lemon Assoc.		No Record.					3.63	.02	0	0	.57	0	Inc.
29B	Granada - Pump Plant	2.00	0	5.58	.33	.88	1.06	2.74	.14	0	0	.54	0	13.27
30	Sylmar	1.90	.04	5.33	.48	.90	.98	2.90	0	0	0	.63	0	13.16
32E	Newhall-Soledad Hdqts.	2.09	.30	5.31	.12	.75	1.40	2.33	0	0	T	.58	0	12.88
33AE	Pacoima Dam	2.00	.15	5.89	.36	.98	1.25	3.04	.03	0	0	.79	0	14.49
38	Chappel Ranch	1.71	T	5.93	.15	.69	1.35	2.32	0	0	0	.94	0	13.09
39B	Sunset Dam	2.20	.15	6.99	.38	1.49	1.70	2.50	0	0	0	.82	0	16.23
42	Redondo City Hall	1.57	.12	2.96	.33	.97	1.72	1.89	0	0	0	0	0	9.56
43A	Palos Verdes - Admin.Bldg	1.87	.02	2.80	.37	1.21	1.67	2.02	0	0	0	0	0	9.96
43B	Palos Verdes - Golf Course	1.75	.05	3.30	.45	1.61	1.71	1.77	.03	0	0	.04	0	10.71
44	Point Vicente Light House	1.47	0	2.82	.28	.90	1.60	2.33	.10	0+	0+	0+	0+	9.50
46B	Big Tujunga Dam (below)	2.15	.30	6.75	.18	1.94	1.83	2.60	.03	0	0	1.28	0	17.06
46CE	Big Tujunga Dam (nr Crest)	2.09	.27	6.81	.17	1.84	1.72	2.62	.02	0	0	1.25	0	16.79
47A	Clear Creek	2.75	.53	6.85	.44	2.39	1.05	3.73	0	0	0	1.36	0	19.10
48	Oak Wilde	2.39	.08	7.06	.34	1.85	1.39	2.68	0	0	0	1.33+	0	17.12
49	Altadena - Chiesa	2.13	.16	5.88	.18	1.68	1.39	2.98	0	T	0	.57	0	14.89
50B	Altadena Arroyo Patrol Sta.	1.68	.11	5.58	.18	1.39	1.44	3.15	0	0	0	1.10	0	14.63
51E	La Cienaga - Hill	2.73	.97	8.40	1.71	2.06	1.83	3.67	0	0	0	1.30	0	22.67
52B	Switzer's Camp		No Record			1.81	1.46	3.41	0	0	0	1.55	0	Inc.
52C	Waterman Guard Station	NI	NI	NI	Inc.	Inc.	Inc.	Inc.	0	0	0	1.37	0	Inc.
53A	Sleepy Hollow Rnch (Colbys)	2.75	.38	8.07	.38	2.32	1.19	3.12	0	0	.11	1.76	0	20.08
54	Loomis Ranch	2.43	.43	5.41	.67	1.34	1.01	2.23	.01	0	T	1.60	0	15.13
56	Valley Forge Lodge-Cmp Kole	3.26	1.10	7.89	.32	2.65	1.30	No Record					0	Inc.
57BE	Camp Singer (Opid's)	3.21	.87	8.86	.42	3.06	1.98	4.82	.04	0	0	1.28	0	24.54
58	Sturtevant	3.00	.51	7.15	.50	2.60	1.75	3.17	0	0	0	.78+	0	19.46
60A	Camp LeRoy (Hoegee's)	2.76	.46	8.30	.47	2.11	2.32	4.79	0	0	0	.78	0	21.99
63BE	Big Santa Anita Dam	2.45	.15	7.16	.28	1.86	2.04	3.64	.03	T	0	.63	0	18.24
64	Clark's Half Way House	2.30	0	6.95	.28	2.08	1.91	2.94	0	0	0	.50	0	16.96
66	Sierra Madre-Pegler Ranch	1.99	.13	7.01	.37	1.28	1.59	2.89	0	0	0	.50+	0	15.76
67B	Monrovia - City Hall	1.62	.07	6.44	.48	1.35	1.75	2.81	T	0	0	.59	0	15.11
68B	Sawpit Dam	2.34	.19	7.66	.32	1.42	2.11	3.70	.03	0	0	.53	.02	18.32
69	Sawpit Canyon	2.75	.27	8.59	.53	1.85	2.80	4.10	.03	0	0	.70	.02	21.64
70E	Dalton No. 1	1.55	.44	6.82	.64	1.27	1.96	2.86	0	0	0	.55	0	16.09
73	Glendora-Englewilds Ranch	1.41	.56	5.73	.34	1.76	2.10	2.58	0	0	0	.48	0	14.96
76B	Sab Gabriel Dam No.1 Camp	1.79	.62	7.52	.42	1.66	1.95	3.18	0	T	0	.60+	0	17.74
82	Table Mountain	3.71	.69	3.08	.76	.49	.14	1.48	0	0	0	3.03	0	13.38
83E	Big Pines Recreation Park	4.44	1.04	6.87	1.17	2.26	1.40	3.75	T	0	0	3.59	0	24.52
85D	Camp Baldy Guard Station	2.68	1.01	8.83	.55	2.43	2.14	4.25	0	0	0	1.16	0	23.05
87	San Dimas Guard Station	1.89	.80	5.57	.31	1.43	2.04	2.65	0	0	0	.46	T	15.15
89E	San Dimas Dam	1.71	.51	5.49	.19	1.49	1.78	2.76	0	0	0	.69	0	14.62
90	Brydon Ranch	1.85	.77	5.28	.22	1.35	1.92	2.73	0	0	0	.77	T	14.89
91	Indian Hill	1.71	.34	4.62	.17	1.18	1.70	2.44	0	0	0	.80+	0	12.96
92	Pomona College-Claremont	1.59	.40	4.64	.36	1.07	1.55	2.39	0	0	0	.64+	0	12.64
93	Claremont - Fire Station	1.57	.40	4.60	.28	1.10	1.50	2.41	T	0	0	.64	0	12.50
94	Charter Oaks-Fields Ranch	1.71	.29	4.00	.14	1.29	1.58	2.71	0	0	0	.25+	0	11.97
95	San Dimas - Fire Warden	1.61	.28	4.67	.43	1.24	1.58	2.44	T	.01	0	.35	0	12.61
96E	Puddingstone Dam	1.64	.28	4.82	.28	1.35	1.43	2.34	0	0	0	.17	0	12.31
97	San Dimas-Ferguson Ranch	1.72	.37	5.09	.44	1.37	1.71	2.53	0	0	0	.42	0	13.65
98	Azusa - Hibsch	1.40	.61	5.66	.40	1.27	1.53	2.33	0	0	0	.62	0	13.82
99	Azusa - Foothill Ranch	1.41	.62	5.59	.34	1.27	1.81	2.59	0	0	0	.41	0	14.04
100B	Fish Canyon	No Record						Inc.	0	0	0	.67	0	Inc.
101	West Covina-Hurst Ranch	2.15	.16	5.63	.57	1.96	1.48	3.22	0	0	0	.17	0	15.34
102	Walnut(Formerly Howell Rch)	2.38	.21	5.78	.47	1.18	1.19	2.54	0	0	0	.14	0	13.89
102B	Walnut-So. Hills Patrol St.	NI	NI	NI	NI	1.16	1.30	2.31	0	0	0	.11	0	Inc.
104	N.Whittier Hghts-Cole Rch	2.51	.17	5.67	.33	1.64	1.43	3.24	0	0	0	.63	0	15.62
105	E.Whittier - Sharples Rch	2.05	.19	5.08	.47	1.90	1.44	2.59	0	0	0	.56	0	14.26
106	Whittier - City Hall	2.19	.17	4.80	.26	1.43	1.34	2.64	0	0	0	.25	0	13.08
107B	Downey - Fire Station	2.14	.15	5.95	.46	1.28	1.61	2.89	0	0	0	.18	0	14.66
108B	El Monte - Fire Station	1.92	.10	5.14	.36	1.13	1.62	2.69	0	0	0	.27	0	13.23
109	West Arcadia	1.84	.13	6.11	.55	1.07	1.76	2.87	0	0	0	.58	0	14.91
110	Alhambra - City Hall	1.99	.20	7.71	.46	1.20	1.63	2.96	0	0	0	.77	0	16.92
111	So. Pasadena - City Hall	1.71	.23	7.56	.42	1.10	1.33	2.49	0	0	0	1.09	0	15.93
114	Rosecrans Rch. - Gardena	1.36	.05	4.26	.37	1.30	1.53	2.84	0	0	0	T	0	11.71
116B	Inglewood - Fire Station	1.47	.06	3.37	.72	.94	1.82	2.53	0	T	0	.08	0	10.99
117B	Compton - Fire Station	1.74	.13	4.35	.52	1.31	1.80	2.98	0	0	0	.02	0	12.85
117D	Compton - Junior College	1.59	.07	4.69	.49	1.26	1.77	2.22	0	0	0	0	0	12.09
118B	Wilmington	1.24	.14	3.19	.74	2.16	1.38	2.09	.02	0	0	T	0	10.96
119B	Soldiers' Home	1.97	.01	4.70	.50	1.46	1.37	2.92	0	0	0	.24	0	13.17
120	Vincent Patrol Station	2.63	.19	2.77	.01	.36	.25	1.08	T	0	0	.96	0	8.65
121	Lancaster-Union High Schl	1.19	.22	2.37	0	.45	.46	.83	0	0	0	.21	0	5.73
122	Leonis Valley-Arrache Rch	.90+	.31	3.60	0	.80	1.07	1.91	0	0	0	0	0	8.69
123	Elizabeth Lk-Eli Munz Rch	2.73	No Record			1.40	1.22	2.28	0	0	0	0	0	Inc.
124B	Bouquet Canyon Reservoir	1.72	.60	5.01	.22	.90	1.13	2.48	.03	0	0	.23	0	12.32
125	Power Hse#1-San Fransis-quito Canyon	1.44	.69	5.48	.25	.92	1.32	3.02	.11	0	0	.22	0	13.45
126	Venice - City Yards	1.54	.08	4.14	.40	1.19	1.36	2.79	0	0	0	.07	0	11.57
127	Dry Canyon Reservoir	2.09	.27	4.26	.11	.74	.85	2.28	0	0	0	.31	0	10.91
128	Radium Hot Springs	1.40	.78	6.53	.24	1.22	1.58	3.90	0	0	0	.11	0	15.76
130B	Sandberg-Quail Lake Co. Guard Station	1.55	.44	7.98	.55	.86	.97	2.51	.04	0	0	.15	0	15.05
134	San Dimas - Stevene	1.49	.21	4.89	.15	1.33	1.68	2.42	0	0	0	.35+	0	12.52
135	Norwalk	1.60	.22	3.86	.39	1.45	1.35	2.37	0	0	0	0	0	11.24
136B	Hollywood - City Engr.	1.92	.06	5.96	.62	1.62	1.16	2.24	0	0	0	.20	0	13.78
137B	Curson Canyon	1.62	.13	5.54	.52	1.65	1.39	2.94	0	0	0	.39	0	14.18
139	L.A.W.D. 2nd & Broadway	1.61	.04	4.30	.63	1.05	1.35	2.70	T	0	0	.20	0	11.88
FC Roof	751 S. Figueroa St., L.A.	1.68	.06	4.49	.64	1.13	1.47	2.93	.03	0	0	.17	0	12.60
140	Sawtelle - City Hall	1.75	T	5.09	.43	1.53	1.34	3.03	0	0	0	.25	0	13.42
143	Azusa - City Park	1.55	.60	5.68	.44	1.33	1.73	2.82	T	T	0	.65	T	14.80
144	Sierra Madre Dam	2.14	.18	6.81	.31	1.62	1.78	3.54	0	0	0	.50	0	16.88
150	Monrovia Falls	3.07	.23	7.62	.31	1.74	2.28	3.43	.03	0	0	.58	.01	19.80

TABLE VIII 1941-42 (Continued)

Sta. No.	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Season Total
155B	Little Rock Creek	2.13	.22	2.32	.04	.31	.31	.90	0	0	.20	2.02	0	8.45
156	La Mirada - Std. Oil Co.	1.73	T	5.34	.65	1.08	1.31	2.77	0	0	0	.15	0	13.03
157	El Segundo-Std. Oil Refinry	1.39	.04	3.20	.42	.81	1.60	2.62	T	T	0	.08	0	10.16
158	Tanbark Flats	1.74	.63	6.74	.25	1.62	1.87	3.23	T	0	0	.55	0	16.65
164	Monrovia - O'Conner	1.58	.13	6.85	.38	1.23	1.75	2.74	0	0	0	.49	0	15.15
167	Arcadia Pump Plant	1.81	.13	6.34	.40	1.14	1.55	2.81	0	0	0	.57	0	14.75
168	San Gabriel - Watts	1.70	.19	6.39	.46	.97	1.56	2.61	T	0	0	.51	T	14.39
169	Sierra Madre Pump Plant	2.02	.15	6.21	.32	1.33	1.49	2.91	0	0	0	.55	0	14.98
170B	Potrero Heights	1.74	.14	5.49	.38	1.14	1.32	3.20	0	T	0	.30	0	13.71
171	Chapman Wells	1.74	.08	7.02	.44	1.22	1.65	2.74	0	0	0	.41	0	15.30
174	Glendora - Warren	1.60	.25	5.37	.18	1.36	1.81	2.10	0	0	0	.35	0	13.02
175B	Alta Canyada-Reservoir #9	2.53	.12	7.63	.29	1.58	1.38	3.26	0	0	0	1.38	0	18.17
176	Rubio Cn. Water Co.	1.82	.15	5.83	.23	1.42	1.39	3.01	0	0	0	.33	0	14.18
177C	La Canada - Bradford	1.78	.11	7.26	.21	1.46	1.30	2.92	T	0	0	1.22	0	16.26
178	Azusa - Griffith	1.27	.48	5.51	.31	1.18	1.50	2.35	0	0	0	.28	0	12.88
179B	Sierra Madre - Carter	2.12	.20	7.10	.33	1.70	1.75	3.62	0	0	0	.55	0	17.37
181B	Bassett - Clifford	1.95	.15	4.87	.46	1.33	1.54	2.71	0	0	0	.15	0	13.16
182	Baldwin Park - Leech	1.82	.28	5.43	.47	1.52	1.60	2.56	0	0	0	.17	0	13.85
185	Glendora - West	1.45	.56	5.37	.20	1.69	1.63	2.26	0	0	0	.35	0	13.51
188	San Dimas #5 - Howard	1.53	.32	4.55	.06	1.23	1.67	2.31	0	0	0	.32	0	11.99
189	San Dimas - Harris	1.66	.33	5.32	0	1.21	1.74	2.69	0	0	0	.40	0	13.35
192B	Bell - Fire Station	2.00	.15	4.84	.44	1.01	1.52	2.89	0	0	0	.28	0	13.13
193	Covina # 2 - Temple	1.46	.29	4.92	.37	1.29	1.43	2.50	.01	0	0	.30	0	12.57
196	La Verne - Leader	1.54	.39	4.37	.22	1.18	1.46	2.57	0+	0+	0+	.25+	0+	12.23
198	Brand Estate	1.42	.11	5.05	.34	1.25	1.22	2.37	0+	0+	0+	.55+	0+	12.31
199B	Huntington Park	2.10	.09	3.77	.69	1.39	1.29	2.70	.01	0	0	.25+	0	12.29
200	Saugus-S.C.E. Co. Sub Sta.	1.62	.28	4.95	.06	.73	.78	2.10	0	0	0	.30	0	10.82
201	Puente Hills	2.00	.19	5.09	.50	1.64	1.25	2.87	0	0	0	.19	0	13.73
205	Puente-S.C.E. Co. Sub Sta.	1.79	.21	4.62	.42	1.43	1.38	2.74	0	0	0	.23	0	12.82
206	Valencia Heights	1.33	.32	5.20	.21	1.38	1.43	2.45	0	0	0	.25	0	12.57
208	Artesia - Barr Lumber Co.	.79	.13	3.94	.33	1.09	1.29	2.58	0	0	0	0	0	10.15
209B	Big Tujunga Edison Rd.	2.26	.31	5.89	.25	1.71	1.28	2.34	0	0	0	1.55	0	15.59
210B	Brand Park	1.82	.13	6.22	.48	1.64	1.42	2.45	0	0	0	.64	.03	14.83
213	Hanoock Park	1.98	.02	4.79	.63	1.27	1.21	2.35	0	0	0	.12	0	12.36
215B	Bellflower - Fire Station	1.58	.19	4.50	.55	1.96	1.62	2.72	0	0	0	.02	0	13.14
216	Glendale - Jones	1.37	.13	5.55	.44	1.42	1.30	2.23	T	0	0	.45	T	12.89
217	Watts - Jordon High School	2.13	.10	5.57	.72	1.16	1.71	2.99	0	0	0	.08	0	14.46
218	Torrance-Gen'l Petrol. Corp	1.40	.01	3.00	.95	1.07	1.81	2.34	0	0	0	T	0	10.58
219	Pacoima Warehouse	1.84	.07	6.68	.18	.80	1.49	2.93	0	0	0	.82	0	14.81
220	Whittier Narrows	1.88	.18	4.70	.28	1.27	1.41	2.84	0	0	0	.22	0	12.78
221B	Kiener Ranch (Davis Ranch)	1.88	.10	5.34	.25	.85	1.10	2.87	0	0	0	.70	0	13.09
222	Lankershim Generating Plant	1.54	.05	5.31	.24	.85	.97	1.76	0	0	0	.57	0	11.29
223BE	Big Dalton Dam	1.52	.73	6.18	.42	1.55	2.27	2.95	0	0	0	.50	0	16.16
224	Long Beach-Alamitos Lnd Co.	1.26	.10	3.22	1.03	1.08	1.36	2.36	0	0	0	0	0	10.41
225	Montana Ranch	1.41	.17	5.14	.46	1.88	1.57	2.52	T	0	0	T	0	13.15
226	Burbank - City Hall	1.62	.09	6.82	.34	1.36	1.15	2.28	0	0	0	.49	0	14.15
227B	San Gabriel - Gleason	1.68	.18	6.48	.97	1.08	1.53	2.73	0	0	0	.71	0	15.36
228B	Beverly Hills - City Hall	1.62	.10	5.00	.64	1.84	1.42	3.12	.06	0	0	.14	0	13.94
230C	Live Oak Canyon - Elder	1.72	.43	4.82	.31	1.35	1.52	2.59	0	0	0	.72	0	13.46
233	Covina - Matthews	1.58	.40	5.02	.28	1.36	1.34	1.86	0	0	0	.35	T	12.19
234	Covina - Thorpe	1.70	.13	4.98	.30	1.18	1.28	2.49	0	0	0	.23	0	12.29
235B	Henninger Flats	2.66	.24	6.89	.23	1.70	1.76	4.51	T	.02	0	.55	0	18.56
236	Craig Ranch	2.02	.18	5.89	.22	1.01	1.31	3.11	0	0	0	.64	0	14.38
237	Stone Canyon Dam	1.49	T	6.27	.38	1.59	1.40	3.53	0	0	0	.32	0	14.98
238	Hollywood Dam	1.68	.07	5.82	.56	1.71	1.20	2.57	0	0	0	.39	0	14.00
240	Little Tujunga Canyon	2.26	.16	6.55	.22	.82	1.29	2.62	.06	0	0	.90+	0	14.88
241	Long Beach - City Hall	1.20	.08	3.37	.94	1.02	1.09	2.12	.04	T	0	.02	.01	9.89
246B	Culver City - Bus Yard	2.18	.04	4.54	.75	1.09	1.27	2.76	0	0	0	.27	0	12.90
247	Rivera	2.20	.19	4.78	.46	1.23	1.39	2.78	0	0	0	.50	0	13.53
248E	West Saddle Peak-Malibu Cr.	1.39	.04	6.99	.60	1.10	2.87	4.67	.04	0	0	.20	0	17.90
249	Mint Canyon-The Oaks Garage	1.66	.37	4.60	.23	.62	.84	1.86	0	0	0	1.08	0	11.26
250C	Acton-Olive View Camp	1.92	.10	2.62	.01	.35	.50	1.21	0	0	.03	.85	0	7.59
251	La Crescenta	2.78	.12	6.77	.26	1.75	1.67	3.06	T	0	0	1.20	0	17.61
253	Western Ave. Tank L.A.W.D.	1.66	0	3.72	.65	1.14	1.56	2.87	0	0	0	T	0	11.60
254	Rowlands Ranch	1.95	.24	5.33	.30	1.42	1.61	2.52	0	0	0	.27	0	13.64
255	State Narcotic Hospital	1.64°	.09	4.95	.21	1.42	1.35	2.23	0	0	0	.22	0	12.11+
256B	Pomona - Fire Department	1.84	.28	4.86	.20	1.19	1.36	2.60	T	T	T	.50	T	12.83
257	Griffith Park Nursery	1.64	.06	5.79	.67	1.64	1.33	2.45	0	0	0	.50	0	14.08
258a	Griffith Pk-Tunnel Mt.Holl.	1.48	.07	5.78	.65	1.82	1.15	2.59	0	0	0	.40	0	13.94
258b	Griffith Pk-S. Slope Mt. H.	1.55	.07	5.56	.50	1.69	1.28	2.60	0	0	0	.43	0	13.68
258c	Griffith Pk-N. Slope Mt. H.	1.51	.10	6.14	.60	1.74	1.33	2.79	0	0	0	.45	0	14.66
259B	Chatsworth Patrol Station	1.82	.15	4.51	.56	.95	1.41	2.82	.08	0	0	.44	0	12.74
261E	Acton- Mellen	2.04	.22	4.21	.11	.66	.61	1.65	0	0	T	.64	0	10.14
263A	Pomona - Frater	2.23	.32	4.40	.34	.156	1.38	2.44	0	0	0	.20	0	12.87
264	Sand Cn. - Brooks Ranch	2.77	.23	6.06	.27	1.45	1.51	2.28	0	0	0	1.47	0	16.04
265CE	Puente Hills-Weisel Ranch	2.02	.18	5.49	.44	1.57	1.30	2.43	0	0	0	.27	0	13.70
266	Leffingwell Roh-E. Whittier	1.89	.24	4.88	.33	1.15	1.08	2.52	0	0	0	.60	0	12.69
268E	Torrance - 190th & Western Ave.-S.C.E. Co. Sub Sta.	1.23	.10	3.23	.48	1.23	2.02	2.26	0	0	0	.02	0	10.57
269A	Diamond Bar Roh-#1 Residnce	2.43	.22	5.45	.31	1.42	1.27	2.74	0	0	0	.22	0	14.06
269B	Diamond Bar Roh-Horse Camp	2.40	.19	5.54	.26	1.43	1.27	2.32	0	0	0	.52	0	13.93
270	County Farm - L.A.	1.70	.15	5.29	.36	1.10	1.48	2.82	0	0	0	.12	0	13.02
271	Dominguez Hills	1.52	.18	2.24	.90	1.51	.67	2.87	0	0	0	.04	0	9.93
272	Headworks Pump Plant-L.A.	1.83	.09	6.29	.41	2.06	1.01	2.53	0	0	0	.34	0	14.56
273	San Pedro Hills-McCarrell R.	1.74	.02	2.60	.48	1.56	1.73	2.62	0	0	0	0	0	10.75
274	Acton - (near) Hubbard	2.43	.25	3.77	.08	.64	.67	1.82	T	0	0	.58	0	10.24
275	San Marino-Huntington Lib.	2.06	.23	6.99	.60	1.37	1.50	2.86	0	0	0	.85	0	16.46
277	Sawmill Mt.Ranch-Swarthout	1.88	.40	6.69	.46	1.11	1.26	3.15	.17	0	0	.14	0	15.26
278B	Clark Memorial Library	1.59	.04	4.61	.87	1.22	1.51	2.64	0	0	0	.21	0	12.69
279B	Kinneloa Ranch	1.90	.15	5.97	.22	2.38	1.77	3.29	0	0	0	.41	0	16.09
280B	Flintridge Fire Station	1.70	.16	6.97	.27	1.51	1.22	2.76	0	0	0	.54	0	15.13
283a	Crystal Lake-E. Pine Flat	3.80	1.09	9.36	.94	2.72	2.35	4.82	.01	0	0	2.44	0	27.53
283b	Crystal Lake-W. Pine Flat	3.26	.98	9.02	.79	2.98	2.05	3.59	.01	0	0	2.40	0	25.08
284	Placerita Canyon	2.34	.27	5.17	.29	1.09	1.77	2.87	0	0	0	.71	0	14.51
285C	Mt. Saint Mary's College	1.80	.01	Inc.	1.74	NR	Inc.	3.76	0	0	0	.38	0	Inc.
286B	Cowane Roh. - Osborne Ave.	1.22	T	6.12	.14	.65	1.26	2.05	0	0	0	1.06	0	12.50
287	Glendora-Irrigation Co.Off.	1.33	.47	5.41	.26	1.59	1.75	2.48	0	0	0	.39	0	13.68
289	Laguna Bell SubSta.S.C.E.Co.	1.98	.12	5.04	.46	1.17	1.40	2.89	0	0	0	.34	0	13.40
290	Newmark Sub Sta. S.C.E. Co.	.95	.14	5.81	.55	1.05	1.48	2.49	0	0	0	.29	0	12.76
291	96th and Central Ave.	1.93	.04	3.72	.75	1.17	1.43	2.53	0	0	0	.08	0	11.65
292E	Encino Reservoir	1.39	.07	5.23	.24	1.21	1.28	2.22	0	0	0	.82	0	12.46
293	Lower Fernando Res.	1.78	.10	5.09	.36	.75	1.45	2.81	.03	0	0	.51	0	12.88
294	Mira Monte Pump Plant	1.99	.17	7.20	.32	1.68	1.62	3.17	0	0	0	.50	0	16.65
295F	Glendale - Kennedy	1.36	.19	5.16	.35	1.48	1.37	2.29	0	0	0	.50	0	12.70
298	Gorman	1.70	.59	5.20	.45+	1.20	.77+	2.78	0	0	0	.12+	0	12.81
299C	Calivalli Farms-Little Rk	1.97	.12	1.78	0	.23	.39	.43	0	0	T	.96	0	5.88
300B	Garrapata Canyon	1.55	.16	6.24	.59	1.09	1.93	3.24	0	0	0	.52	0	15.32
303B	Cal-Tech	1.70	.17	7.05	.38	1.25	2.06	2.81	0	0	0	.52	0	15.94
304	Deer Park - Monrovia	3.16	.32	7.18	.57	2.06	2.92	4.51	.04	0	0	.72	.03	21.51
305	Arroyo Sequis-Mason Estate	1.12	.09	5.86	.82	.95	2.51	4.10	.04	.05	0	.20	0	15.74
306A	Tranoas Cn. at Ocean	.78	.05	4.41	.39	1.20	2.24	3.59°	.03+	.01+	0	.09+	0	12.79
308	Kelly's Kamp	5.30	1.71	13.12	1.76	4.74	3.10	5.26	0	0	0	1.12	0	36.11
309	Padua Hills	2.09	.52	5.14	.35	1.95	1.89	2.83	0	0	0	1.03	0	15.80
311b	Pasadena Meteorological St.	1.68	.11	6.17	.28	1.15	1.53	2.67	T	T	0	.41	T	13.99

TABLE VIII 1941-42 (Continued)

Sta. No.	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Season Total
312	Glendora - Azusa-Irrigation Co. Plant	1.37	.40	5.90	.36	1.43	1.68	2.57	0	0	0	.50	0	14.21
315	Glendora-H.C. Warren Res.	1.43	.47	5.67	.38	1.71	1.83	2.91	0	0	0	.39	0	14.79
317	Big Pines Sawmill Flats #2	3.42	.91	5.06	.82	1.64	1.59	2.94	0	0	0	3.06	0	19.44
318	Big Pines - Jackson Lake	3.43	.37	4.24	.80	1.11	.63	2.57	0	0	0	3.56	0	16.97
320A	Sycamore Cn-Chevy Chase	1.71	.15	6.46	.37	1.65	1.36	2.63	0	0	0	.52	0	14.85
321E	Pine Canyon - Co. F. S. (Elizabeth Lake)	1.90	.99	6.19	.24	1.13	.95	2.25	.06	0	.01	.13	0	13.85
322	E. S. Munz Valley Ranch	1.18	.16	3.86	.06	1.20	.67	.95	0	0	0	.08	0	8.16
326B	Santa Ynez Canyon	2.12	0	5.43	.88	1.66	1.67	3.67	0+	0+	0+	.30+	0+	15.73
334E	San Gabriel Dam No. 2	2.91	.60	8.94	.40	2.18	1.65	3.06	0	T	0	.83	0	20.57
336	Silver Lake Reservoir	1.57	.07	5.25	.83	1.04	1.15	2.10	0	0	0	.44	0	12.45
338A	Mt. Wilson	3.45	.82	7.56	.43	2.52	2.07	3.99	0	0	0	1.00	0	21.84
338B	Mt. Wilson Air Ways Sta.	3.74	.89	7.38	.40	1.87	1.65	4.28	.08	0	0	1.15	0	21.53
339	Walnut-Fruit Growers Assn.	2.50	.21	5.41	.31	1.17	1.15	2.70	0	0	0	.34	0	13.79
341	Blum Ranch	2.09	.16	2.81	.25	.35	.47	.94	0	0	.09	.65	0	7.61
342	Uplands	1.81	.42	4.92	.37	1.21	1.51	2.55	0	0	0	.73	0	13.52
343	Telegraph Road	2.00	.34	5.25	.56	1.35	1.60	2.75	0	0	0	.52	0	14.37
347E	Baldwin Pk. Exp. Station	1.88	.30	5.36	.47	1.20	1.61	2.50	0	0	0	.25	0	13.57
348C	Honor Camp #4 E.Fk-San Gab.	1.72	.60	5.98	.29	1.94	1.40	2.65	.01	0	0	.78	0	15.37
349B	Camp Rincon	2.08	.74	7.00	.48	2.09	2.02	2.95	0	0	0	.74	0	18.10
351D	Palmdale	1.31	.34	3.07	.09	.43	.56	1.10	0	0	0	1.05	0	7.95
352	Lechuza Patrol-Co. F.S.	1.34	.10	6.29	.94	.98	2.63	4.49	.02	0	0	.24	0	17.03
353	Duarte-Monrovia Citrus Assn.	1.51	.37	6.16	.50	1.12	1.75	2.74	0	0	0	.55+	0	14.70
354B	Honor Camp # 6	2.41	.98	8.58	.55	1.10	1.90	4.36	0	0	T	.55	0	20.43
355	L. A. City College	1.93	.08	5.13	1.17	1.29	1.20	2.33	0	0	0	.25	0	13.38
356	Diamond Bar Ranch # 2 Office - Spadra	1.64	.19	4.88	.26	1.16	1.57	2.64	0	0	0	.11	0	12.45
357	Power House #3	1.84	.14	5.31	.36	1.06	1.06	3.00	.06	0	0	.51	0	13.34
358B	Aldrich Ranch	3.07	.24	3.20	.34	.61	.37	.92	0	0	.29	3.01	0	12.05
360A	Haines Rock Crusher Plt.	2.02	.12	6.70	.17	1.15	1.02	2.19	0	0	0	1.26	0	14.63
362	El Mirador Ranch	1.68	.15	6.28	.32	1.39	1.46	2.60	0	0	0	.44	0	14.32
364	Haines Cn-Lower (USGS)	2.37	.20	7.25	.32	1.30	1.41	2.87	0	0	0	1.52	0	17.24
366	Valyermo	3.55	.17	2.67	.17	.51	.24	.57	0	0	.06	2.35	0	10.29
367	Haines Canyon - Upper	3.62	.32	8.81	.51	1.58	1.49	3.19	T	0	0	1.70	0	21.22
372	San Francisquito Canyon Power House #2	1.53	.38	4.58	.10	1.08	1.02	3.03	0	0	0	.22	0	11.94
373	Briggs Terrace	3.10	.22	7.48	.32	1.88	1.67	3.27	0	T	0	1.32	0	19.26
375B	Griffith Park Zoo	1.18	.60	4.96	.40	1.54	1.10	2.40	0	0	0	.45	0	12.63
377C	Lake Sherwood Estates	1.42	.08	4.66	No Record									Inc.
379B	San Gabriel - E. Fork P4B	1.97	.66	7.77	.42	1.64	2.15	2.91	0	T	0	.79	0	18.31
380	El Sereno	1.94	.09	6.53	.57	1.10	1.32	1.98	0	0	0	.36	0	13.89
381B	Santa Monica -"outlook"	2.04	.01	4.61	.58	1.38	1.16	2.83	T	0	0	.12	0	12.73
384B	Highland Pk-San Rafael Hills	1.69	.16	7.00	.40	1.18	1.38	2.53	0	0	0	1.05	.02	15.41
385	No. Whittier Heights-Smith	2.23	.23	3.75	.44	1.65	1.48	3.17	0	0	0	.24	0	13.19
386B	Zuma Canyon - Oakley	2.23	.33	7.18	1.10	1.23	2.44	5.22	.02	0	0	.29	0	20.04
387B	Covina - Water Co.	1.46	.33	4.79	.24	1.42	1.32	1.73	0	0	0	.20	.01	11.50
388B	Clear Water-Co. Fire Sta.	1.55	.12	4.02	.59	1.51	1.58	2.73	T	0	0	T	0	12.10
389	Glendora - Brown	1.37	.49	5.53	.38	1.73	1.99	2.50	.01	.02	0	.40	T	14.42
390B	Morris Camp	1.67	.76	6.84	.60	1.52	2.35	3.06	.03	.01	0	.66	0	15.83
391	Montebello - Cotton	2.11	.20	5.22	.42	1.06	1.29	No Record						Inc.
392B	Altadena - Barton	2.16	.14	5.88	.16	1.45	1.38	3.25	0	.01	0	.43	0	14.86
394	Highland Park - Lindsay	1.68	.09	7.31	.46	1.06	1.17	2.61	0	0	0	.97	T	15.35
395	Olive View Sanatorium	2.26	.16	5.80	.34	1.10	1.06	3.20	.01	0	0	.64	0	14.57
397	Beque Ranch Tujunga	2.11	No Record											Inc.
398B	Trails Inn	4.39	1.89	8.75	1.21	2.05	1.66	4.83	0	0	0	1.70	0	26.48
400	Pasadena-Washington and Palm Terrace	1.84	.17	5.71	.30	1.35	1.59	3.01	T	T	0	.32	T	14.29
402C	State Prison Camp	3.22	1.12	9.97	1.12	2.76	2.23	4.44	0	0	0	2.61	0	27.47
403	Altadena - Lindvall	2.20	.09	6.11	.16	1.64	1.52	3.33	0	0	0	.50	0	15.55
404	Glendale - Opid	1.40	.11	5.52	.40	1.49	1.29	2.25	0	0	0	.52	0	12.98
405	Soledad Cn.-Eckles(Nelson)	1.85	.15	4.67	.10	.72	.87	1.25	0	0	T	.56	0	10.17
406C	West Azusa - Azusa Irrigating Co. Plant #6	NR	NR	2.42(Inc.)	.39	1.19	1.64	2.44	0	0	0	.34	.02	Inc.
407	Newhall-U.S.F.S. Hdquts	1.29	T	No Record			1.43	1.89	0	0	0	.55	0	Inc.
408	Soledad Cn. - Mitchell	2.13	0	No Record									0	Inc.
409	Ridge Rt. (New)-State Highway Maintenance Dept.	1.39	.38	6.35	.28	.95	1.14	2.39	.03	0	0	.09	0	13.00
410C	Ridge Rt. (New)-Old Edison House	1.40	.70	7.68	.40	1.28	1.47	2.94°	0°	0°	0°	.10°	0°	15.97°
411	Rivera - Pico-Robinson	2.15	.19	4.95	.43	1.21	1.47	2.99	0	0	0	.29	0	13.68
412B	Pasadena-Ohio & S-Euclid	1.90	.16	7.59	.42	1.20	1.85	2.83	T	T	0	.81	.01	16.77
415	Signal Hill - City Hall	1.81	.11	4.03	.44	1.21	1.29	2.43	.02	0	0	.02	0	11.36
216	Altadena - Ventura St.	2.10	.20	5.72	.22	1.69	1.45	2.95	T	0	0	.46	0	14.79
417	Sierra Madre - Lamanda Park Citrus Assn.	2.07	.13	6.60	.58	1.49	1.60	3.05	0	0	0	.43	0	15.95
418	Pickens Cn USFS Exp. Plots	3.62	.39	7.40	.31	1.33	1.44	3.71	.08	0	0	1.94	0	20.42
419	Santa Clara Rdge-Mt.Gleason	2.57	.75	7.17	.75	1.58	1.65	4.11	T	0	0	1.30	0	19.88
420A	Acton-Columbo Rch (Modic)	2.27	.17	4.38	.16	.86	.77	1.73	0	0	.01	.90	0	11.25
421	Lopez Cn below Mouth	1.77	.15	5.37	.17	.62	.93	2.46	.04	0	0	.92	0	12.43
422	Pacoima Canyon	2.24	.30	6.95	.16	1.30	1.34	4.48	.09	0	0	.87	0	17.73
429	Red Box-State Hwy Maint.Dpt	3.12	.40	8.33	.45	1.86	1.87	3.63	0	0	0	1.30	0	20.96
430	Saugus - " " " "	2.10	.30	5.04	.10	.60	.68	1.79	T	0	0	.06	0	10.67
431	Baldwin Hills - No. side	2.28	.07	4.52	.84	1.18	1.51	2.97	0	0	0	.26	0	13.62
432	Santa Anita-Fern Lodge	2.82	.39	7.84	.40	1.61	1.98	3.70	0	0	0	.78	0	19.52
433	Altadena-Co. F.S. Rec. Park	2.67	.14	5.67	.16	1.64	1.46	3.06	0	0	0	.66	0	15.46
434	Malibu Hdqts - Co. F.S.	1.39	.11	5.38	.47	.97	1.62	2.96	0	0	0	.27	0	13.17
435	Monte Nido Cn. - Co. F.S.	1.37	.06	5.99	.68	1.10	2.76	4.39	0	0	0	.15	0	16.50
437	Hamilton Bowl - Long Beach	1.53	.14	3.97	.49	1.06	1.23	2.33	.02	.01	0	.02	0	10.80
438	Encino - Quirello	1.67	.03	5.83	.25	1.18	1.32	2.31	0	0	0	.75	0	13.34
439B	Charlton Flats - U.S.F.S.	3.39	.70	7.62	.35	1.87	1.69	2.85	0	0	0	1.56	0	20.03
440	Chilao Guard Sta.-U.S.F.S.	2.53	.38	6.49	.63	1.43	.99	2.21	T	0	T	1.48	0	16.14
441E	Palmdale-Co. Rd Maint. Dept	1.38	.30	3.01	.08	.43	.48	.78	0	0	0	1.20	0	7.66
442	Mescal Creek (near)	3.39	.09	2.05	.09	.47	.15	.51	0	0	.03	1.50	0	8.28
443	Latigo Canyon Rds. Junct. with Mulholland	1.61	.17	5.77	.80	1.02	2.29	4.75	.02	0	0	.30	0	16.73
444	Rolling Hills-Palos Verdes	2.30	.07	3.22	.45	1.71	1.76	2.68	0	0	0	0	0	12.19
445	Live Oak Cn at Dam	1.97	.60	5.15	.15	1.69	1.75	2.64	0	0	0	.99+	0	14.94
446	Aliso Cn-Santa Susana Mts.	2.73	.17	6.30	.56	1.05	1.41	3.70	.07	0	0	.39	0	16.38
447	Las Flores Cn - Co. F.S.	1.68	.02	4.86	.77	1.11	2.08	3.88	0	0	0	.16	0	14.56
449	Eaton Dam	1.62	.11	5.49	.22	1.24	1.57	2.76	0	0	0	.27	0	13.28
450	Eagle Rock	1.37	.09	6.32	.33	.98	1.23	2.45	0	0	0	1.00	0	13.77
451	Castaic Guard Sta.,Co. F.S.	2.21	.24	4.31	.17	1.10	.85	2.50	0	0	0	.22	0	11.60
452	Studio City - Thayer	1.77	.09	6.99	.62	1.61	1.36	3.29	0	0	0	.25	0	15.98
453	Devils Gate Dam	1.50	.12	6.11	.30	1.48	1.29	2.42	0	0	0	.32	0	13.54
454	Los Angeles-W.J. Wood	1.66	.04	4.75	.90	1.21	1.55	2.89	0	0	0	.16	0	13.16
455	Lancaster - State Hwy Maintenance Department	1.45	.22	2.27	0	.61	.55	.77	0	0	0	.18	0	6.05
423	Aliso Cn-Wagon Wheel Rch	3.02	.50	5.45	.35	1.25	1.53	3.57	T	0	.22	1.00	0	16.89
425A	San Gabriel Dam No. 1	1.61	.58	7.81	.50	1.58	2.11	3.15	.01	.02	T	.61	0	17.98
425B	S.G. Dam #1-near Spillway	NI	NI	7.57	.51	1.47	2.08	3.15	.01	.02	T	.59	0	Inc.
427	Downey - Jordan	2.04	.14	5.40	.40	1.17	1.47	2.80	0	0	0	.27	0	13.69
428	Altadena - Laity	2.06	.12	6.18	.19	1.53	1.55	3.17	0	.01	0	.48	.03	15.32

TABLE VIII 1941-42 (Continued)

Sta. No.	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Season Total
456	Yato Kya Indian Museum - Piute Butte	1.30	.20	.64	.50	.25	.38	.37	0	0	.02	.41	0	4.07
457B	Los Angeles - Carlson	1.72	.06	5.02	.68	1.25	1.41	2.46	0	0	0	.15	0	12.75
458	Zuma Cn Co.Forestry Patr.St.	.98	.07	4.61	.59	1.07	1.91	3.21	.03	.01	0	.09	0	12.57
459	Mill Creek - Honor Camp #3	2.43	.50	6.08	.29	1.27	.79	3.69	0+	0+	0+	.85	0+	15.90
460	Pleasant View Mesa- Matay	3.73	.13	3.36	.22	1.12	.42	1.28	0	0	0	2.90	0	13.16
461	Baldwin Hills - Std. Oil Field Office	2.20	.03	4.45	.77	1.10	1.39	2.66	0	0	0	.27+	0	12.87
462	Hillcrest Country Club	1.58	.04	5.15	.52	1.59	1.17	3.02	0	0	0	.58	0	13.65
463	Mar Vista-S.Cal.Water Co.	1.56	.03	4.61	.74	1.34	1.31	2.13	.01	0	0	.18	0	11.91
464	Tujunga Cn Honor Camp #5	2.47	.32	6.45	.28	1.81	1.05	2.85	.02	0	0	1.73	0	16.98
465	Sepulveda Dam	1.63	0	5.31	.14	.90	.90	1.86	0	0	0	.72	0	11.46
466	Pacoima Cn near Mendenhall Peak Lookout	3.15	.33	6.71	.12	1.04	1.53	4.21	.11	0	0	.98	0	18.18
467	Glendale - Davis	1.37	.14	5.44	.50	1.47	1.50	2.38	0	0+	0+	.52+	0+	13.32
468E	Pickens Debris Basin	2.65	.11	7.16	.27	1.39	1.35	2.36	0	0	0	1.23	0	16.32
469	Los Angeles	1.82	.06	5.42	.66	1.31	1.47	2.76	.01	0	0	.12	0	13.63
470	Tujunga - Mill Cr.	2.62	.49	5.18	.59	1.00	.71	3.05	0	0	.20	.97	0	14.81
471	Little Tujunga-Gold Cr.	NI	.32	6.35	.14	.88	1.29	2.96	.01	0	0	.90+	0	Inc.
474	South Gate - Police Dept.	1.75	.12	4.32	.44	.93	3.13	3.20	.02	0	0	.24	0	14.15
475	Saugus-Newhall Lnd&Farming Co.	1.68	.30	4.69	.08	.58	1.50	2.06	0	0	0	.06	0	10.95
476	Lobo Canyon	1.24	.14	4.74	.50	.89	1.88	3.23	0	0	0	.35	0	12.97
477	Santa Anita - Spring Camp	3.11°	.65°	9.13	.62	2.17	1.46	4.17	.04	0	0	.65	0	22.00
478	Valyermo - U.S.F.S.	NI	NI	2.69	.20	.58	.41	.72	0	0	.02	3.01	0	Inc.
479	Arcadia - Gonter	NI	NI	NI	.65	1.08	1.60	2.29	0	0	0	.22	0	Inc.
480	Temple City Times	NI	NI	NI	NI	1.26	1.61	2.57	0	0	0	.55	0	Inc.
481	Glendora - Green	1.42	.59	5.56	.25	1.54	1.86	2.47	0	0	0	.30	0	13.99
482	Los Angeles- University of So. California	NI	NI	NI	NI	NI	1.37	2.94	0	0	0	.26	0	Inc.
X-3A	Rustic Cn Fire Area-Josepha	2.19	0	5.74	.59	1.80	1.47	3.80	0	0	0	.20+	0	15.79
X-3C	Pacific Palisades Fire Area	2.20	.02	5.56	.90	1.49	1.44	3.31	0	0	0	.20	0	15.12
X-4	Towsley Cn. - Fire Area	2.64	No Record											Inc.
508B	Arroyo Seco Ranger Sta.	2.03	.19	6.01	.25	1.29	1.50	2.99	0	0	0	1.28	0	15.54
516	Buena Park	1.55	.20	4.99	.46	.97	1.28	2.90	0	0	0	0	0	12.35
529	Chino-Amer. Beet Sugar Co.	2.04	.33	4.55	.55	.86	1.24	2.58	0	0	0	.15	0	12.30
530	Conejo Ranch	1.42	0	4.39	.20	.81	1.37	3.04	0	0	0	.18	0	11.41
557	La Habra - Citrus Assn	1.88	.17	4.89	.41	1.26	1.25	2.27	0	0	0	T	0	12.13
564	Llano	3.01	.07	1.47	0+	.32	.28	.39	0	0	0	1.23	0	6.77
577E	Los Angeles - Central Bldg.	1.53	.03	4.45	.62	1.06	1.46	2.52	0	0	0	.13	0	11.80
577F	Los Angeles - U.S.W.B.	1.53	.05	4.22	.59	1.05	1.26	2.44	T	T	0	.23	T	11.37
588B	Mt. Lowe - Wurmser	2.75	.74	7.11	.69	2.00	1.65+	4.28+	.10+	0	0	1.24+	0	20.56°
589	Mountain Springs Ranch	1.60	.39	4.73	.22	1.58	No Record							Inc.
593B	Newhall Ranch	1.69	.45	4.59	.25	.94	1.17	3.21	0	0	0	.50	0	12.80
594	Newhall - S.P.R.R. Depot	2.31	.27	5.42	.15	.74	1.53	1.81	0	0	0	.56	0	12.79
597	Newbury Park	1.30	.10	5.08	.47	.80	1.36	2.56	0	0	0	.12	0	11.79
610A	Pasadena-Morris Jones	1.96	.22	6.53	.28	1.22	1.50	3.08	0	0	0	.30	0	15.09
610B	Pasadena - City Hall	1.73	.16	6.42	.45	1.12	1.69	3.03	.02	T	0	.51	T	15.13
611	Pasadena - Allen	1.70	.14	6.02	.24	1.24	1.54	3.07	0	0	0	.28	0	14.23
612	Pasadena - Chlorine Plant	2.03	.18	5.91	.27	1.33	1.45	3.04	T	0	0	1.17	0	15.38
613B	Pasadena - Hurlbut Fire Sta.	1.85	.29	7.25	.43	1.12	1.43	2.66	T	0	0	.74	0	15.77
618	Santa Susana - Wolff Koh	2.25	0	4.13	.15	.67	1.45	2.40	0	0	0	.24	0	11.29
634B	Santa Monica - City Hall	1.74	T	4.94	.45	1.08	1.14	2.62	T	0	0	.10	0	12.07
649C	Glendora - Bradley	1.26	.48	5.19	.31	1.70	1.94	2.39	0	0	0	.42	0	13.69
656B	Sunland - Bonner	1.69	T	6.34	.05	.75	1.72	1.61	0	0	0	1.58	0	13.74
671B	Los Angeles S.C.E. Co. #3 Sub Station	1.88	.06	5.38	.84	1.04	1.29	2.72	.02	0	0	.30	0	13.53
672	Eagle Rock S.C.E. Co. #3 Sub Station	1.62	.16	6.49	.41	1.01	1.40	2.56	0	0	0	.66	0	14.31
673	Seal Beach-L.A. P & L Corp.	1.52	.18	3.56	.46	.90	1.11	2.33	T	0	0	T	0	10.06
674	Compton-Amer. Beet Sugar Co.	1.14	.16	3.77	.94	1.85	.70	2.17	0	0	0	.05	0	10.78
676	Los Angeles - W. 80th St.	1.85	.05	3.84	.57	1.31	1.73	2.95	.01	T	0	.09	0	12.40
677	Pasadena - Hayes	1.83	.18	6.83	.34	1.49	1.58	2.84	0	0	0	.52	0	15.61
678	Pasadena - Sheldon Res.	1.63	.14	6.04	.24	1.52	1.52	2.71	T	T	0	.31	T	14.11
679	No. Whittier Citrus Assn.	1.79	.17	4.11	.34	1.71	1.46	3.18	0	0	0	.20	0	12.96
680	U.C.L.A.	2.00	.07	4.52	.48	1.49	1.50	3.36	0	0	0	.32	0	13.74
681	Santa Anita Ranger Sta.	1.82	.20	6.70	.17	1.62	1.59	3.61	.01	0	0	.53	.01	16.26
682	Gould Sta.S.C.E.Co.SubSta.	2.62	.01	6.36	No Record			.67	0	0	0	.50	0	Inc.
683	Sunset Guard Sta. USFS	2.35	.29	5.53	.13	1.69	1.52	3.48	0	0	0	1.49	0	16.48
684	Arcadia Warehouse "	1.67	.12	6.77	.54	1.21	1.50	2.39	T	0	0	.50	0	14.70
685B	So. Pasadena - Marsh	2.20	.34	7.40	.39	1.99	1.56	3.06	0	0	0	1.04	0	17.98
686	Big Dalton-Spreading Grds	1.79	.53	5.76	.68	1.60	2.44	2.92	0	.06	T	.48	0	16.26
689B	San Marino - Cooper	2.04	.07	7.43	.28	1.30	1.62	2.77	0	0	0	1.02	0	16.55
690	San Antonio Guard Sta.USFS	2.71	.81	6.55	.51	1.95	2.20	2.76	0	0	.02	.40	0	17.91
691	" " Spreading Grds	1.92	.53	5.19	.36	1.36	1.90	2.63	0	0		.37	.02	14.28
693	Bellflower - Anthony	1.54	.17	5.03	.47	1.96	1.50	No Record						Inc.
694	Tujunga Cn-Guard Sta. USFS	1.96	.19	5.82	.10	.89	1.28	1.91	.02	0	0	1.43	0	13.60
695	Tujunga Cn-Valhalla Ranch	3.05	.23	8.38	.22	1.93	1.65	2.35	0	0	0	1.85	0	19.66
697	Venice - Sunset Pier	1.44	.10	4.10	.39	1.15	1.24	2.58	0	0	0	.12	0	11.12
699	L.A. - 30th & Trinity Sts.	1.69	.03	4.40	.59	.88	1.42	2.50	0	0	0	.25+	0	11.76
700	L.A.-Slauson &Long Beach Av.	2.27	.04	4.11	.87	1.12	1.42	2.60	0	0	0	.25+	0	12.68
703	Glendale - McIntyre	1.37	.12	5.52	.46	1.61	1.35	2.26	0	0	0	.53	0	13.22
704	Pasadena - Concha	2.84	.24	6.02	.21	1.76	1.53	2.86	0	0	0°	.50°	0°	15.96+
705	Alder Cr.-Paradise Ranch	NI	NI	6.65	.25	.96	1.33	2.55	.03	0	0	.94	0	Inc.
706	Rivera - Hadley Ranch	2.20	.19+	5.49	.20	1.20	1.45	2.73	0	0	0	.50+	0	13.96
707	Pasadena - Millard	.98	.18	6.03	.31	1.56	1.48	3.13	0	0	0	1.60	0	15.27
708	Glendora - Gordan Ranch	1.34	.39	5.09	.14	1.60	1.81	2.47	0	0	0	.46	0	12.63
715	Post Office Terminal - USWB L.A. #2	1.53	.03	4.48	.60	1.11	1.20	2.65	0	0	0	.20	0	11.80
716	Ducommun Sta. - L.A.W.D.	NI	NI	NI	NI	NI	NI	NI	NI	NI	0	.23	0	Inc.

Legend

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

TABLE IX

RAIN GAGE STATION LOCATION

SEASON 1941-42

Sta. No.	Type Gage	Quad. Index	Elev. U.S.G.S.	Observer	Location
2	S	22-25	1025	R. Currier	Upper Escondido Canyon
3	S	34-09	875	V. A. Ward	La Sierra Canyon at Cornell
4	Sp	22-70	600	J. Ward	Malibu Creek, S.W. of Calabasas
5B	S	35-64	924	Tom Farmer	4801 El Canon Ave., Calabasas
6	SA	24-01	747	T. J. Wise	.4 mi. S. of Topanga Canyon Bridge
7C	S	24-55	90°	Henry Jenks	Bel Air Bay Club, Roosevelt Highway
8	Sp	25-03	470	M. D. Gardner	Rear of Admin. Bldg., Mandeville Canyon
9	Scw	48-37	815	Robert Larson	8535 Sepulveda Boulevard
10	SA	25-51	540°	O. F. Bell	10601 Chalon Road, West Los Angeles
11C	ScwA	37-87	867	F. S. Payne	Upper Franklin Reservoir
12	S	37-86	1175	City Firemen	Mulholland Highway at Franklin Canyon
13	S	38-34	593	Katie Blix	10834 E. Blix, North Hollywood
14	Scw	49-46	1000	E. S. Merrill	Near mouth of La Tuna Canyon
15	ScwA	37-41	695	Frank Carr	Aetna and Vesper Streets, Van Nuys
17	S	37-07	1400	City Firemen	Sepulveda Canyon at Mulholland Highway
18	S	36-73	815°	E. M. Sherman	Adohr Dairy, Ventura Boulevard
19	S	35-96	1520	Jack Ross	Summit-Topanga Canyon Road
20B	S	35-84	986	L. A. W. D.	Girard Reservoir
21	S	36-02	876°	Carl Wyninger	Canonga Road, N. of Ventura Boulevard
22	SA	46-58	930	Paul Johnson	23800 Cohassett Street, Bell Canyon San Fernando Valley
23E	Scw	46-87	865	R. R. Melrose	East end Chatsworth Reservoir
24C	S	46-94	965	E. L. Johnson	10239 Jordan Avenue, Chatsworth
25B	Sp	47-57	795	Jack Andrews	19055 W. Parthenia Streets, Northridge
27	S	48-64	944	W. D. Miller	14163 Van Nuys Blvd., Pacoima
28	S	48-32	950°	B. Hanneman	11030 Sepulveda Blvd., San Fernando
29B	S	47-81	1130	L.A.W.D. Operator	Mayerling St., at L.A.W.D. Pump Plant, Granada
30	Scw	59-28	1250°	W.C. Simonds	Sylmar Olive Packing Plant
32E	S	58-61	1243	Milan A. Priest	Inland Highway, ¼ mi. N. of Newhall
33A'-E	SA	60-07	1500	E. K. Devore	Caretaker's House, below Pacoima Dam
38	S	49-34	1060	Sam Chappel	10100 Helen St., Roscoe
39B	8-81"GG	50-19	1610°	F. C. Employees	Sunset Dam, Burbank
42	S	7-15	50°	City Clerk	Roof of City Hall, Redondo
43A	Sp	2-10	300°	M. L. Johnson	75 Malago Cove Plaza, Palos Verdes Estates
43B	Sp	2-20	450	Gomer Sims	Golf Club - Palos Verdes Estates
44	Sp 3"	1-85	125	A. Trittinger	Near Point Vicente Light House
46B-E	S	51-01	2050	D. J. Robertson	Big Tujunga Canyon, below Dam
46C	SA	51-10	2290	D. J. Robertson	West of Spillway, Big Tujunga Dam
47A	SA	51-22	3100	Mrs. H. H. Rogers	1.6 mi. up Clear Creek, from Big Tujunga
48	S	51-15	1800	J. R. Phillips	Oak Wild Resort - Arroyo Seco
49	SpAp	40-50	1345	Geo. S. Chiesa	165 E. Foothill, Altadena
50B	S	40-10	1155	Henry Mack	352 Foothill, Flintridge
51	S	65-69	4650	Mrs. R. F. Hill	1 mi. N. of Coldbrook Camp (Little Cienaga
52B	SA	51-44	3000	Norman Wilson	Switzers Camp; Long Cn. tributary to Arroyo Seco
52C	S	51-53	3290'	Mrs. Stokes	Waterman Guard Station-Arroyo Seco
53A	SA	62-89	3500	F. C. Employee	Sleepy Hollow Ranch, Coldwater Cn., 1 mi. S. of Big Tujunga Creek
54	SwbA	63-55	4050	Mrs. L. G. Loomis	Near Juno. N & Middle Forks, Alder Creek
56	S	52-24	3450	Geo. Comstock	Kamp Kole (formerly Valley Forge Lodge) West Fork of San Gabriel
57B-E	SwbA	52-04	4350	Mrs. E. T. Opid	West Fork San Gabriel River
58	S	52-67	3225	Fred Meyer	Upper Big Santa Anita Cn. (Sturtevant Camp)
60A	SA	52-69	2750	Le Roy Haynes	W. Fork Santa Anita Cn. (Hoeges's Camp)
63B-E	S	41-81	1400	Joseph Propst	Caretaker's House - Santa Anita Dam
64	S	41-71	1600	J. E. Clark	Clark's Half Way House on old Sturtevant Trail
66	S	41-54	665	C. J. Pegler	415 E. Live Oak Ave., Sierra Madre
67B	S	41-95	560°	G. H. Duell	Roof - City Hall, Monrovia
68B	S	42-12	1378	R. E. Waddicor	Sawpit Dam
69	S	42-31	2000	R. E. Waddicor	Upper Sawpit Canyon
70E	SA	42-93	800	Roger Dalton	Mouth of San Gabriel Canyon
73	S	43-54	1200	Mrs. J. P. Englehart	Mouth of Englewilde Canyon
76B	S	54-57	1500	Ted Cooper	San Gabriel Dam #1 Camp
82	S	67-11	7500	Butler	Top of Table Mountain
83E	SA	67-02	6860	Harry Grace	Big Pines County Park
85D	SwbA	56-46	4300	C. E. Huse	U. S. Guard Station, Camp Baldy
87	S	44-33	1500	L. L. Winters	San Dimas Canyon, at West Fork
89E	S	44-24	1350	G. W. Rodgers	San Dimas Canyon below Dam at Caretaker's House
90	S	44-44	1680	R. S. Brydon	North end of Brydon Road
91	S	44-87	1405	W. White	2945 Indian Hill Road, Claremont
92	SA	32-90	1190	Prof. St. John Barrett	Pomona College Observatory
93	S	32-80	1165	Harvey Case	221 W. 2nd St., Claremont
94	S	31-60	805	Will G. Fields	1331 Covina Blvd., San Dimas
95	S	43-99	960	Employees	114 E. 1st St., San Dimas
96E	S	31-90	1030	F. A. Pollard	Knoll above Caretakers house-Puddingstone Dam
97	S	44-08	1000	Mrs. C. Ferguson	Juanita near Walnut, San Dimas
98	Swb	42-96	602	John Hibsch	325 Foothill, Azusa
99	S	43-06	615	Charles Stewart	962 Foothill, Azusa
100	Swb	42-73	1050	E. E. Sloan	Above U.S.G.S. Gaging Sta., Fish Canyon
101	S	30-53	358	Hurst Bros.	S.E. Cor. Merced & Orange St. W. Covina
102	S	31-29	475	C. Cullum	1 mi. W. of Walnut P.O., S. of R.R. track
102B	S	31-29	488	Sam Trout	4009 Pomona Blvd, Walnut, So. Hills Patrol Station
104	Sp	30-09	600	Bert Priest	S. end of 7 Ave., No. Whittier Heights
105	S	16-64	215	Peter E. Sharpless	1226 Laurel Ave., Whittier
106	S	16-61	365°	K. R. Warren	City Hall Roof, Whittier
107B	S	15-65	118	T. C. Loggins	224 W. 2nd St., Downey Fire Station
108B	SA	29-62	285°	Martin Sorenson	126 S. Tyler St., El Monte Fire Station
109	S	41-37	490	Mamie L. Picard	2307 Naomi Drive, Arcadia

TABLE IX (Continued)

Sta. No.	Type Gage	Quad. Index	Elev. U.S.G.S.	Observer	Location
110	S	28-70	485°	J. W. Clay	N. W. corner 2nd & Main Sts., Rear of City Hall, Alhambra
111	Sp	40-48	660°	Norval B. Krug	N. W. corner Mound and Mission Sts., City Hall, South Pasadena
114	S	14-09	64	C. E. ROsecrans	S. E. corner Vermont & Rosecrans, Gardena
116B	Sp	13-43	125°	Eugene D. Wells	111 E. Queen St., Inglewood Fire Station
117B'	S	8-70	68	Cap't Edward Dowd	Fire Station, Compton
117D	C.G.G.	8-70	68	G. D. Aumack	Compton Junior College
118B	S	3-41	40°	E. A. Bishop	1251 Banning Blvd., Wilmington
119B	S	25-44	325°	L. P. Emerick	National Military Home, Sawtelle near Wilshire Blvd.
120	S	74-70	3250	John B. Sigrist	1533 Sierra Highway, Vincent
121	S	112-79	2350	R. E. Lofinck	Union High School, Lancaster
122	S	98-29	3200	Juan Arroche	Bouquet Cn. Rd., ½ mi. S. of Elizabeth Canyon Road
123	Sp	96-73	3250	Eli Munz	Between Elizabeth and Hughes Lakes
124B	Aow	84-31	3000	R. W. Mathews	Bouquet Cn. W. of orchard & Res. yard
125	Scw	83-40	2100	Station Operator	Power Plt. #1, Upper San Francisquito Cn.
126	S	12-41	7°	A. S. Ede & A. J. Bernal	Venice City Yards
127	Scw	70-71	1507	Jim Ray	Dry Canyon Reservoir
128	S	95-49	2041	Louis G. Klein	Elizabeth Lake Cn. at Radium Hot Springs
130B	S	106-85	4025	J. L. Ozanne	Quail Lake County Patrol Station
134	S	44-07	1110	A. L. Stevens	½ mi. N. of Foothill, West of Artesia Ave., San Dimas
135	S	10-30	83	C. S. Hargitt	¼ mi. N. of Center St., 1/5 mi. W. of Bloomfield-Norwalk
136B	S	26-70	305°	H. P. Larson	6225 Santa Monica Blvd.
137B	S	38-48	1125	F. C. Employees	East side Curson Cn. near Mulholland Hwy.
139	Scw	27-54	300°	McIntyre	S. E. cor. 2nd & Hill Sts., L.A.W.D. Roof
F.C.Roof	S	27-33	262°	F. C. Employees	751 S. Figueroa St., F.C. Office Roof
140	S	25-55	232°	W. B. Scott	Rear-1620 S. Purdue St., West Los Angeles
143	S	42-96	607	Paul E. Smith	City Hall Park, Azusa
144	S	41-52	1100	Al Freeland	Footh of Sierra Madre Dam
150	SA	42-11	1800	R. E. Waddicor	Monrovia Canyon Falls
155B	S	87-79	2900	Gene Breslin	Little Rock Creek, 1.5 mi. below Dam
156	S	10-81	86	Standard Oil Employees	Center St. & Lemont Ave., La Mirada
157	Sp	12-88	135	Lab. Employees	Standard Oil Refinery, El Segundo
158	SpAp	55-49	2700	U.S.F.S. Employees	W. Fork San Dimas Canyon, Tanbark Flats
164	Sp 3"	41-93	690	Charles J. O'Conner	432 N. Primrose, Monrovia
167	Sp	41-64	611	Scott M. Lee	89 Orange Grove Ave., Arcadia Pump Plant
168	S	41-09	433°	Richard Watts	309 E. Live Oak Ave., San Gabriel
209B	S	62-49	2600	F. C. Employee	Big Tujunga at Edison Rd.
210B	SA	39-21	1250	F. C. Employee	S. W. Slope, 200 ft. above tank, Brand Park
213	SA	26-43	177	F. C. Employee	La Brea Fossil Pits, 5801 Wilshire Blvd.
215B	S	9-71	73	Cap't K. L. Grogan	917 E. Flower St. Bellflower Fire Station
216	Swb	39-43	620	J. E. Jones	318 E. Randolph St., Glendale
217	GG 8.81"	14-75	110	J. S. Carver	2265 E. 103 St., Watts
218	S	7-54	75	Marion E. Dice	2 mi. N.W. of Torrance, Gen'l Pet. Corp.
219	S	48-94	955	Warehouse Foreman	12605 Osborne Ave., Pacoima
220	S	29-28	195	D. M. Cate	547 Friendship Ave., Near Montebello
221B	S	59-99	1375	Louis Coronada	Keiner Ranch, Pacoima Wash
222	Scw	38-10	732	Station Operator	11845 Vose St., N. Hollywood Generating Plant
223B-E	S	43-83	1575	Paul Keiser	Caretaker's house below Big Dalton Dam
224	S	4-03	30°	R. E. Bixby	Bldg. W. of 22 Pacific Ave., Long Beach
225	S	9-85	47	J. F. Anthony	Montana Ranch, 3 mi. S.W. of Artesia
226	S	38-91	650°	F. Olchvary	125 E. 3rd St., Burbank Fire Station
227B	S	49-99	487	G. B. Gleason	424 N. Milton Ave., San Gabriel
228B	Ap	26-02	255°	C. Valle Riestra	City Hall Roof, Beverly Hills
230C	Swb	44-68	1255	C. S. Elder	4055 N. San Antonio Ave. 0.6 mi. N. of Foothill Blvd.
233	S	31-11	527	J. L. Matthews	161 Nevilla Place, Covina
234	S	31-23	630	Ben F. Thorpe	N. side Cameron Ave., .2 mi. E. of Barranca St.
235B	SpA	41-10	2550	Co. F. S. Employees	Henninger Flats, Forestry Nursery, Mt. Wilson
236	S	59-88	1455	V. H. Craig	Craig Ranch, San Fernando. N. end Hubbard Ave.
237	Sow	37-49	725	L.A.W.D. Employees	Stone Canyon Dam
238	Sow	38-68	750	L.A.W.D. Employees	Hollywood Dam
240	S	60-67	1700	N. Neisll	4.3 mi. up Little Tujunga Canyon, from old Foothill Blvd.
241	Sp	4-03	30°	C. Bower	Utilities Bldg., Long Beach
169	Sp	41-63	700	Al Freeland	621 Sierra Madre Ave. S. M. Pump Plant
170B	S	29-15	297	J. M. Malneritch	3651 Walnut Grove, San Gabriel
171	S	41-35	635	W. E. Comerford	South Michillinda near E. Colorado, Chapman Wells
174	Sp	43-86	965	C. C. Warren	Old Foothill - 2.75 mi. E. of Glendora
175B	S	50-87	2020	W. N. Carpenter	N. W. cor. Alta Canada & Del Oro Drive
176	Ap	40-61	1125	J. H. Parsons	575 Sacramento St., Altadena
177C	S	51-09	1255	P. L. Bradford	4607 Commonwealth Ave., La Canada
178	A	43-09	545°	E. B. Griffith	Bonita St., near Citrus Ave., Azusa
179B	SwbA	41-42	1125	Paul N. Carter	666 No. Mt. Wilson Trail Rd, Sierra Madre
181B	S	29-94	293	R. S. Clifford	S. side Valley Blvd. at Covina Blvd. intersection
182	Sp	30-41	378	S. Howard Leach	334 N. Maine St., Baldwin Park
185	S	43-46	822	L. M. West	460 E. Bennett St., Glendora
188	S	44-07	1075	Mrs. Emma A. Howard	828 E. Baseline Ave., San Dimas
189	Sp	43-98	1000	J. R. Harris	112 W. 6th St., San Dimas
192B	S	15-12	145	J. F. Salvail	6320 Pine St., Bell
193	S	31-21	575	W. B. Temple	748 Puente St., Covina
196	Sp 3"	44-39	1054°	"Leader" Employees	2152 Third St., La Verne
198	Sp Dial	39-21	815°	G. L. Clark	Brand Residence, Ext. of Grand View Ave. Glendale
199B	S	14-81	175°	W. E. Ford	City Yard, Slauson & Miles, Huntington Pk
200	S	70-27	1093	W. H. Roberts	2.5 miles W. of Saugus Ridge Route
201	SA	17-00	860	Mrs. Blanche Lowry	Alta Mira Orchard, 1 mi. N.E. of Summit Turnbull Canyon Road
205	Sp	30-79	374	V. V. B. Wert	S.C.E. Co. Sub Sta. Valley Blvd. 1.5 mi. East of Puente
206	S	30-94	467	P. R. Jackson	2024 Azusa Ave., Valencia Heights
208	Sp 5"	10-14	49°	W. S. Russell	Barr Lumber Co. 1804 Pioneer St., Artesia

TABLE IX (Continued)

Sta. No.	Type Gage	Quad. Index	Elev. U.S.G.S.	Observer	Location
246B	S	26-18	65°	Bus Depot Employee	Cor. Jefferson & Duquesne Sts., Culver City
247	S	15-93	151	J. B. Robinson	233 Burke St., Rivera
248E	S	23-12	890	Ralph Ziehlke	W. Slope Saddle Peak, above Crater Camp
249	S	84-48	2400	W. A. Dodrill	Mint Canyon Rd. - The Oaks Garage
250C	S	74-04	2550	L. M. Luglan	Soledad and Arrastra Cn. Road S. Acton
251	S	50-57	1565	H. A. Scheuner	2908 Foothill Blvd., La Crescenta
253	S	13-95	235	Mrs. R. R. Bohmer	9625 S. Western Ave. - L.A.W.D.
254	S	17-50	466	J. Iriate	Ext. Grazido Rd & S. edge of Rowland Ranch
255	S	31-55	770	E. H. Gammon	State Narcotic Hospital, near Spadra
256B	S	32-44	852°	Chief A. E. Cooke	5th and Thomas St., Pomona
257	SA	39-17	750	J. Kladler	2650 N. Commonwealth Ave., Griffith Park Nursery
258a	C.G.G.	38-97	1100	Louis Strauss	W. of Tunnel, Pt. of Ridge, Griffith Park
258b	C.G.G.	39-07	1400	Louis Strauss	South Slope of Mt. Hollywood " "
258c	C.G.G.	39-06	1600	Louis Strauss	North Slope of Mt. Hollywood " "
259B	SA	46-92	1249	Geo. M. Cuthbert	21880 Mayon Dr., Co. F.S. Twin Lakes Park
261E	SA	73-30	3075	H. F. Mellen	Escondido Canyon, N. Branch, near Acton
263A	S	32-56	778	Milton Frater	2211 S. Towne St., Pomona
264	S	59-92	1900	J. C. Brooks	Sand Canyon-Coyote Canyon Branch, formerly Riley Ranch
265C-E	S	17-74	675	P. J. Weissl, Jr.	Anaheim Rd., 1 mi. N. of Whittier Blvd., Puente Hills
266	Sp	17-06	253	C. A. Hewitt	1234 Santa Gertrudes Ave., Whittier
268E	SpA	7-94	57	Station Operator	190th & Western Ave., S.C.E. CO. Sub Sta.
269A	S	18-53	710°	F. E. Lewis	Diamond Bar Ranch #1, Brea Canyon Road
269B	Sp	18-62	760	Angel Reyes	Diamond Bar Ranch, Horse Camp
270	S	15-46	104	Clyde Morrow	County Farm #1,741 Old River School Road
271	S	8-63	195	James L. Nash	Dominguez Hills, S. side of Reservoir-summit
272	S	38-94	473	C. J. Smith	W. of N. Entrance, Griffith Park, near L. A. River
273	S	2-12	1235	W. W. McCarrell	Top of San Pedro Hills, West end. 2353 Elenor Ave., Redondo
274	Sp	85-68	3250	Mrs. A. S. Hubbard	Mint Canyon Rds. just E. of Summit
275	Sp 3"	40-87	670	C. L. Brown	Huntington Estates, San Marino
277	S	108-17	3700	Clarence Soates	Sawmill Mt. Ranch., 8.9 mi. N. W. of Lake Hughes
278B	S	26-86	203°	W. Parrick	2205 W. Adams, Los Angeles
279B	Sp	41-21	1500	Ross M. Lockhart	Kinneloa Ranch, E. Side Eaton Wash
280B	SA	40-01	1325	Station Employees	1028 Inverness Dr., Flintridge Fire Station
283a	SoeA	65-67	5740	L. E. McDonald	Crystal Lake Co. Park,-East Pine Flat
283b	Soo	65-58	5370	L. E. McDonald	Crystal Lake Co. Park,-West Pine Flat
284	S	59-22	1480	D. F. Pollock	Placerita Canyon-formerly Dulin Ranch
285C	S	25-11	1025	Martin Bullinger	Mt. St. Mary's College-Santa Monica Mts.
286B	C.G.G.	49-22	1120	John Hermann	11332 Osborne Ave., San Fernando
287	Sp	43-36	782°	H. C. Warren	234 N. Michigan Ave., Glendora
289	Swb	15-52	140	S. C. Ed. Co. Employee	Compton & Aboneria Rd just N. of Baker Ave.
290	S	28-75	375	S. C. Ed. Co. Employee	La Merced Hills - Garfield Ave. at S.C.E. Co. Sub Station
291	Aco	14-45	121	L. A. Co. Surveyors	96th and Central Sts., Los Angeles
292E	Sow	36-85	1000	John H. Cowen	Crest of Encino Dam-1 mi. S.W. of Encino
293	Sow	48-11	1150	Dam Tender-L.A.W.D.	800 ft. N & W end Lower San Fernando Dam
294	Sp	41-53	985	Al Freeland	Mira Monte Ave., Pump Plant near Mt. Wilson Trail
295F	S	39-34	530	Morris Kennedy	415 W. Lexington Ave., Glendale
298	S	105-40	3830	J.L. Ralphs & Hamilton	Gorman, Ridge Route NW cor. L.A. County
299C	S	88-26	2835	Mrs. Lena Schwab	1 mi. W. of Pear Blossom, 1 mi. N. of Victorville Highway
300B	Sp 3"	36-18	990°	R. L. Peeler	Garrapata Cn. ½ mi. NE of Topanga Cn. Rd.
303B	SA	40-76	763	Prof. Michael & Students	Cal. Tech. Campus E. of Admin. Bldg.
304	S	42-30	2700	F. C. Employee	Deer Park 1½ mi. up from Sawpit Dam
305	S	21-01	1155	R. L. Mason	E. Fork Arroyo Sequis, S. of Road
306A	S	21-56	10	R. C. Carlton	Roosevelt Highway, Trancas Canyon
307	Sp	56-73	6500	Mrs. Nelson	Snow Crest Camp, Rear of Tavern
308	Sp	56-96	8300	H. S. Delker	Kelly's Kamp, 1½ mi. NE of Ontario Peak
309	Sp	45-05	1768	Kenneth B. Forbes	4064 Monte Vista Ave., Padua Hills
311b	SpAp	40-43	918	Pasadena Water Dep't	1083 Mentone St., Pasadena
312	Sp	42-85	675	F. F. Kammerdiener	1 mi. N. W. Azusa, 0.4 mi. W. of West end Sierra Madre Ave.
315	Sp	43-15	865	J. M. Boggman	300 ft W. of Ben Lomand Ave. on Sierra Madre Ave.
317	Soo	67-12	6750	Harry Grace	.6 mi. S. E. of Main Rd. near Swart-out - Valley Park Entrance
318	Soo	66-70	6075	Harry Grace	So. edge Jackson Lake
320A	S	39-93	900	G. W. Burroughs	2816 E. Chevy Chase Blvd.
321E	S	96-72	3400	Co. Forestry Employees	Guard Sta. Betw. Elizabeth & Hughes Lake
322	CGG	110-48	2600	Erie Munz	Lancaster-Bailey Rd.14 mi.W of Lancaster
326B	S	24-43	500	W. W. Culp	2 mi. in Satna Ynez Cn from Beverly Hills
334E	SA	53-35	2335	F. C. Employee	San Gabriel Dam #2 W Fk San Gabriel River
336	Sow	39-39	455	Res. Caretaker	Sliver Lake Reservoir, Los Angeles
338A	Swb	52-47	5650°	J. O. Hickox	50 ft S. of 60" Telescope, Mt. Wilson
338B	SwbA	52-37	5709	V. W. Kellog	½ mi. W. of 60" Telescope, Mt. Wilson
339	Sp	31-49	533	Packing Hse Employee	½ mi. SE of Walnut, S. side UPRR tracks
341	S	74-43	2900	Geo. J. Blum	Aliso Canyon - E. of Acton
342	S	45-17	1550	Kadnum	1544 N. Benson St., Upland
343	Sp	16-04	141	F. C. Collins	439 E. Telegraph Rd., Rivera
347E	S	30-30	387	Various	Scott Pl.1 blk W of Maine St, Baldwin Park
348C	SA	55-36	2000	G. H. Mc Kelvey	.6 mi. NNE of Camp Bonita, E Fk San.Gab. R.
349B	S	54-46	1530	Mrs. C. M. Schmidt	Camp Rincon 1.3 mi. W of Fk, San Gabriel R.
351D	Swb	86-82	2648	H. P. Schoiller	Ave.Q 7St.bet.E 8 & E 9 Sts. Side-Palmdale
352	SA	21-21	1530	L. Cesena	4 miles from Coast on Decker Rd.
353	Sp	42-26	458	R. T. Chew	Duarte Rd. at Buena Vista St., Duarte
354B	S	56-27	4527	M. M. Smith	Divide between Cow & San Antonio Canyons 1½ mi. S. W. of Camp Baldy
355	S	27-01	315°	Frank S. Trueblood	855 N. Vermont Ave., Los Angeles
356	SpA	31-86	675°	W. P. Collins	Spadra Ofc. Diamond Bar Ranch, 0.5 miles S. E. Pomona Blvd.
357	Sow	59-08	1248	Sta. Operator	Power Hse #3 N. of Upper San Fernando Res.
358B	S	77-16	4050	A. P. Aldrich	Pallett Cr. 2½ mi. NW Devil's Punch Bowl
360A	S	50-23	2150	G. W. Hutton	Haines Canyon Rock Crusher
362	Sp	40-23	1025	J. D. Hoffman	1475 El Mirador Drive, Pasadena
364	Swb	50-23	2450	F. C. Employee	50' E. of USGS Gaging Sta. Haines Creek
366	S	77-45	3740	L. F. Noble	½ mi NW Valyermo ½ mi S of Big Rock Cr. Rd.
367	SwbA	50-42	3450	F. C. Employee	At upper Fk nr Head of Haines Canyon
372	Sow	82-76	1580	Sta. Operator	San Francisquito Cn 11 mi NE of Saugus
373	SA	50-76	2310	L. R. Bleitz	5613 Canyon Side Dr., Briggs Terrace

TABLE IX (Continued)

Sta. No.	Type Gage	Quad. Index	Elev. U.S.G.S.	Observer	Location
381B	S	25-08	100°	Paul F. Knief	1245- 4th St., Santa Monica
384B	S	40-26	825	F. B. Laverty	502 Lake View Rd., Pasadena
385	Sp 3"	30-19	500	J. A. Smith	1058 Los Robles Ave. No. Whittier Heights
386B	Sp 3"	21-71	1500	R. H. Oakley	Dume Canyon, just NW of Vera Canyon
387B	Sp	31-01	508	W. W. Turley	227 S. Hollenbeck Ave., Covina
388B	S	9-40	71	Fire Station Employee	210 N. Paramont Blvd., Clearwater
389	Sp	43-35	825	Frank H. Brown	Rear of Ranch, corner Penn and Sierra Madre Ave., Glendora
390B	Sp	43-21	1210	Fred Chapman	Morris Dam, San Gabriel Canyon
391	Sp	29-08	205	Mrs. Zola Cotton	117 W. Washington Ave., Montebello
392B	Sp	40-71	1335	C. W. Barton	1330 Hull Lane, Altadena
394	S	40-28	620	Robert H. Lind say	6425 Elgin St., Highland Park
395	S	59-57	1425	R. N. Loomis	Olive View Sanitarium, San Fernando
397	Sp	50-25	1835	Philip Bague	9743 Tujunga Canyon Rd at Summit
398B	Sp	56-85	6250	C. H. Plank	300 ft E. of "A" location Trails Inn, Ice House Canyon
400	Sp	40-63	1000	H. J. Sievert	Washington & Palm Terrace, Pasadena
402C	SA	65-23	6665	W. S. Yokum	10.5 mi. NE of Chilao
403	Sp	40-90	1360	F. C. Lindvall	1860 Allen Dr., Altadena
404	S	39-54	653	John Opid	811 N. Glendale Ave., Glendale
405	S	73-06	2250	Eckles	11.7 mi. E of Solemint on Soledad Cn Rd.
406C	S	42-88	505	L. James	710 W. Broadway, W. Azusa
407	S	58-82	1325	Ray McCormick	17700 San Fernando Rd., 1 mi. SE of Newhall - U.S.F.S.
408	S	71-58	1472	J. Mitchell	0.4 mi. S. of Soledad Cn Rd, 1.2 mi. W. of Jct. Sand and Soledad Canyons
409	S	93-12	2425	Rex C. Farmer	18 mi. N. of Castaic Jct. New Ridge Route
410C	S	81-13	2380	E. E. Blohm	7 mi. N. of Castaic Jct. at Old Edison House, New Ridge Route
411	Sp	16-10	173	V. M. Robinson	345 S. Passons Blvd., ½ mi. S. of Whittier Blvd.
412B	Sp	40-57	755	H. V. Sievert	E. of Euclid Ave,100' S. of Ohio, Pasadena
415	SA	4-30	115°	Geo. I. Osborne	Signal Hill City Hall
416	Sp	40-40	1170	C. C. Curtis	2424 Lincoln Ave., Altadena
417	Sp 3"	41-05	742°	F. G. Webber	150 N. Vineda St., Lamanda Park
418	SA	50-94	4075	F. C. Employee	Upper end Pickens Cn., USFS Exp. Plots
419	SA	61-92	5450	Schrader	Head of Pacoima Canyon on Santa Clara Ridge, Mt. Gleason
420A	S	74-07	3100	Schrader	3.3 mi. S. of Acton on Mt Gleason Truck Trail
421	Scw	48-91	1173	Joseph Hand	12559 Filmore St., San Fernando Valley
422	S	60-35	2200	B. K. Walsh	2 mi. above Pacoima Dam, 1 mi. W. of Dillon's Ranch
423	S	75-08	3920	Earl W. Scribner	Aliso Cn, 1.1 mi. off Angeles Forest Hwy
425A	SA	54-49	1470	F. C. Employee	East Abutment, San Gabriel Dam # 1
425B-E	S	54-49	1481	F. C. Employee	Dam Crest, San Gabriel Dam # 1
427	S	15-64	127	L. W. Jordan	751 W. Florence Ave., Downey
428	Sp	40-90	1340	H. J. Laity	2323 Rubio Dr., Altadena
429	S	51-83	4460	I. Bird	Angeles Crest Hwy, 0.9 mi. S. of Red Box
430	S	70-57	1176	C. T. Warren	Saugus, at State Hwy Maint. Dep't
431	S	26-48	150	J. M. Donovan	3870 S. La Brea Ave., Baldwin Hills
432	Swb	52-89	2035	R. B. Hosford	Santa Anita Canyon, Fern Lodge
433	SA	51-69	1710	A. L. Goldenberg	Farnsworth Park, Altadena
434	S	34-46	800	B. O. Butler	Malibu Hdqts., Co. F. S. 1 mi. S. of Ventura Blvd on Cornell Rd.
435	S	23-12	600	C. A. Bollman	Monte Nido Co. F. S. Brents Ht Crags Rd.
436A	S	49-13	1087°	E. B. Davey	Hansen Dam, Osborne Ave., Tujunga Wash
436B	S	49-13	1005°	U.S.E.D. Employees	Hansen Dam, U.S.E.D. Office
437	S	4-30	23°	J. C. Vidmar	Hamilton Bowl, Long Beach
438	S	36-94	950	C. E. Quirello	17151 Oak View Dr., Encino
439B	SA	63-99	5500	K. M. Kaylor	Charlton Flats, USFS Checking Station
440	S	63-87	5150	K. M. Kaylor	Chilao, USFS Guard Station
441E	S	86-82	2662	James R. Nolan	Palmdale, County Rd., Maint. yard
442	S	78-53	3810	E. A. Eberle	Near Mescal Ck on Fort Tejon Rd., Desert
443	S	21-80	1725	W. A. Brandenberger	Jct. Latigo Cc. Rd. and Mulholland Hwy
444	S	2-52	475	E. Neal	"Rolling Hills", Palos Verdes Hills
445	SA	44-56	1630	Al. A. Quiroz	Live Oak Canyon Rim, 1/3 mi. above Live Oak Dam
446	SA	58-48	2367	C. A. Tidrick	5.5 mi. above Devonshire St. in AlisonCn.
447	S	23-65	138	T. E. Cheney	0.7 mi. from Coast in Los Flores Cn at Co. F. S. Guard Station
449	Spl H	41-03	902°	F. C. Employee	Eaton Dam, Altadena
450	S	40-16	770	Carl A. Wohl	5052 Monte Bonita St., Eagle Rock
451	S	69-83	1066	Joe Trout	24819 Route #99, Castaic
452	S	38-05	637	W. N. Thayer	3817 Mound View Ave., Studio City
453	Spl H	40-21	1070°	F. C. Employee	Devil's Gate Dam, Pasadena
454	S	26-86	200	W. J. Wood	2210 - 3rd Ave., Los Angeles
455	S	99-61	2395	J. Folsetter	Lancaster, State Hwy. Maint. Dept.
456	S	102-54	2680	C. D. Williamson	Yoto Kyo Indian Museum, 22 mi. E., 3 mi. S. of Lancaster
457B	S	27-32	400	Geo. Carlson	425 Zalvidea St., Los Angeles
458	S	22-08	115	Capt. Barnes	Roosevelt Hwy, E. of Walnut Creek, Forestry Guard Station
459	S	62-95	3600	R. L. Reser	County Det. Camp, #3 Mill Creek
460	S	76-65	4265	L. Matay	.2 mi. W. of Griffin Rd., 250 ft N. of Pallett Rd.
461	SA	26-29	392	C. Seibert	1 mi. N. of Slauson Ave., 1 1.8 mi. S.E. Ballona Creek
462	S	25-94	196	William Stewart	.2 mi. S. of W. Pico Blvd., .5 mi. N.E. of Motor Ave.
463	S	25-78	92	Leo Minnick	11637 Charnock Rd., So. Cal. Water Co., Mar Vista
464	S	51-40	3300	W. J. Phillips	Co. Det. Camp, #5 Angeles Forest Hwy.
465	Sp	37-33	688	U.S.E.D. Employee	Sepulveda Dam
466	SA	60-74	3550	B. K. Walsh	Pacoima Cy. near Mendenhall Peak Lookout
467	Sp	39-72	900	H. R. Davis	1851 Crestmont St., Glendale
468E	S GG	50-77	1600	F. C. Employee	Pickens Debris Basin
469	Sp	27-14	235	R. F. Grisler	1015 Magnolia Ave., Los Angeles
470	SAed	63-10	4700	F. C. Employee	Angeles Forest Hwy., near Tie Cn Divide, Mill Creek, Tujunga
471	SAed	60-98	2700	U.S.E.D. Employee	Gold Cr. Truck Trail, 1.2 mi. above Watts Ranch, Gold Cr.-Little Tujunga
474	Sp	14-94	127	Chief J. C. Gutting	8437 Victoria Blvd. Police Dept,South Gate
475	Sp	70-48	1134	H. Metcher	Newhall Land & Farming Co., Office-Saugus
476	CGG	34-07	800	H. D. Warner	At Jct. of Lobo & Triunfo Cn,Santa Monica Mts.
477	SA	53-18	4880	F. C. Employee	Spring Camp At Hd of E. FK-Santa Anita Cr.
478	Sp	77-45	3715	U. S. Forest Ranger	USFS Hdqts., Pear Blossom Hwy, Valyermo
479	CGG	41-78	367	R. H. Gonter	138 E. Longden Ave., Arcadia
480	S	41-39	403	W. H. Anderson	110 N. Sunset Blvd. Temple City Time, Temple
481	SGG	43-36	805	C. Green	114 N. Pasadena Ave., Glendora
482	S	27-17	208°	R. M. Fox	920 W. 36th Pl., Los Angeles, Civ. Eng. Bldg., U.S.C.

TABLE IX (Continued)

Sta. No.	Type Gage	Quad. Index	Elev. U.S.G.S.	Observer	Location
375B	S	39-16	650	Charles Allen	Griffith Pk Zoo, Los Angeles at new house
377C	Sp	V-Co	1050	H. J. Kircher	NW edge of Lake Sherwood-Ventura County
379B	S	54-86	1600	F. C. Employee	East Fk 2.7 Mi. above confluence E. & W. Fks S. Gabriel River
380	SA	28-11	553	Geo. P. Morgan	4566 Bedilllion St., El Sereno
X-3A	S	24-82	580	W. Miller	Rustic Canyon Fire Area,2100 Rustic Cn Rd.
X-3C	S	24-74	420°	W. C. Robertson	15015 McKendree Ave., Pacific Palisades
X-4	SA	58-15	1700	O. W. Howes	Tonsley Cy. 2.4 mi. from Hwy. # 99
508B	S	51-39	1220	U. S. Forest Ranger	Arroyo Seco Cn at El Prieto Cn USFS
516	Sp 5"	O-Co.	75	Nelson Hardware Employee	932 Grand Ave., Buena Park
529	S 3"	S.B.Co.	720	J. Crane	Central and Chino Ave., Chino
530	Sp	V-Co.	650	Guy M. Turner	Conejo Ranch, Ventura County
557	Sp 3"	O-Co.	300	A. Chewning	La Habra, Citrus Assn. 305 S. Hiatt St.
564	Swb	77-80	3400	F. J. Lecher	0.7 mi. S. of Llano
577E	Awb	27-55	417°	U.S.W.B. Employee	Central Bldg., 6th and Main St., L.A.
577F	Awb	27-54	313°	U.S.W.B.	New Federal Bldg, N. Spring St., L.A.
588B	S	51-87	4450	J. W. Wurmser	Mt. Lowe in Grand Canyon
589	Sp	44-25	1400	Mrs. E. P. White	Mouth of San Dimas Cn., Top of Hill, E. edge of Canyon
593B	Sp	68-69	675	E. J. Higgins	Newhall Rch. 3.1 mi. W. of L.A.Ventura Co. Line
594	Sp 3"	58-72	1270	A. B. Thatcher	Southern Pacific R.R. Depot, Newhall
597	Sp 3"	V-Co.	710	R. Heckman	Newbury Park, Ventura County
610A	Sp	40-73	980	Morris Jones	1250 N. Holliston St., Pasadena
610B	Sp	40-55	864	H. J. Sievert	City Hall, Pasadena
611	S	40-92	1052	W. Allen	2057 Pepper Dr., Altadena
612	Sp	51-39	1181°	H. J. Sievert	Chlorine Plant, nr. Mouth Arroyo Seco Cn.
613B	Sp	40-46	780	H. J. Sievert	900 S. Pasadena Ave., Pasadena
618	Sp	V-Co	980	J. M. Fuller	1 mi. W of Santa Susana, Wolff Rch Ventura County
634	Sp	25-08	80	Kolesoft	City Hall, Santa Monica
649C	Swb	43-55	955	Ernest Bradley	Sierra Madre Ave., 270' W Loraine Ave., Glendora
656B	CGG	49-83	1265	John Bonner	10921 O'Dell Ave., Sunland
671B	Sp	27-94	325	Station Operator	1006 N. Breed St., Los Angeles,SCE Co.Sub. Sta.
672	Sp	40-14	1000°	" "	N. Figueroa St., N. of Colorado Blvd., SCE Co. Sub. Station
673	Scw	4-85	15	" "	Seal Beach, L.A. Power plant, San Gabriel River at Ocean
674	Sp 3"	8-85	32	Operator Am.Beet Sugar	Co. 600 N. Dominguez;900 E. Alameda
676	Sp 4"	13-93	173	H. F. Parkinson	1727 W. 80th St., Los Angeles
677	Sp	40-22	983	Jack Hayes	1408 Ontario Ave., Pasadena
678	Sp	40-32	1047	H. J. Sievert	Sheldon Reservoir, Pasadena
679	Spl Dial	30-27	310	H. I. Morris	533 9th Ave. No. Whittier Hgts. Citrus Assn.
680	Sp	25-52	425	U.C.L.A. Students	U.C.L.A. Campus
681	Sp	41-63	890	U. S. Forest Ranger	N. end Double Drive Santa Anita Ave., Arcadia
682	S	51-17	1900	Station Operator	Gould Sub. Sta. Angeles Crest Hwy
683	Sp	51-58	2110	U.S.F.S. Employees	Sunset Guard Sta. bet. Millard & West Ravine Canyon
684	Sp	41-65	518	U.S.F.S. Employees	Arcadia Warehouse, U.S.F.S.
685B	Sp 3"	40-59	557	N. F. Marsh	1934 Milan Ave., South Pasadena
686	Sp	43-64	1175	N. D. Meacham	Big Dalton Spreading Grounds
689	Sp 6"	40-68	608	Carl V. Cooper	2814 Carlaris Rd., San Marino
690	Ap	45-22	2380	U.S.F.S. Employee	San Antonio Cn.-U.S.F.S. Guard Station
691	GG	45-14	2075°	J. T. Corrington	San Antonio Spreading Grounds
693	Sp 3"	9-70	77°	J. R. Anthony	237 N. Cornuta Ave., Bellflower
694	Sp	50-10	1500	O. W. Rutherford	Tujunga Canyon, U.S.F.S. Guard Station
695	Sp	50-60	1850	E. G. Ulrich	Tujunga Canyon, Valhalla Rch 2.8 miles above F. C. Gaging Sta. #213
696	Sp	41-21	1400	Robert Casamajor	Pasadena Glen - L.A. County
697	Ap Sp	12-21	0°	A. J. Bernal	Sunset Pier, Venice
699	Aco	27-38	208	St. Drain Div. Employee	30th and Trinity St., Los Angeles
700	Aco	14-51	176	" " "	Slauson & Long Beach Ave., Los Angeles
703	Sp	39-54	603	P. T. McIntyre	3515 N. Adams, Glendale
704	Sp	40-70	1655	H. F. Jerauld	939 Concha St., Pasadena
705	Sp 6"	60-87	2330	D. M. Shiffer	Cecil B. DeMille Ranch, Alder Creek, Little Tujunga Canyon
706	Sp	15-92	155	W. H. Williams	Hadley Ranch, Rivera
707	Sp	51-39	1325	Alfred Millard	269 Canyon Crest Rd., Pasadena
708	Sp 5"	43-66	878	G. Clark	¼ mi. E. of Valley Center Ave. and Foothill Blvd., Glendora
715	Swb	27-64	280	U.S.W.B. Employee	Post Office Terminal Bldg., Los Angeles
716	Scw	27-64	295	P. McIntyre	410 Ducommun St., Los Angeles

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.
CGG - - - Special "can" (8.81" diameter) gage using glass graduate for measuring.
GG - - - Uses glass graduate for measuring in place of stick.
GG Spl H- Uses glass graduate with special Henson type collector ring. (8.81" diameter.)
cw - - - Gage owned by the L.A. City Water Department.
co - - - Gage owned by L.A. County but not Flood Control.
Spl - - - Special type gage.
wb - - - Gage owned by U. S. Weather Bureau
AP - - - Automatic tipping bucket at U.S.W.B. - L.A.
Ap - - - Private automatic gage.

° Elevation shown is ground elevation at station.

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.
710-B Capital Letters (A, B, etc.) Following a Station Number Denote Successive Locations of a Gage in a Locality.
258-b Lower Case Letters (a, b, etc.) Following a Station Number Denote Several Gages Operated Simultaneously by a Single Observer.
"E" At a Station Denotes a Flood Control Evaporation Tank.
Lines of equal rainfall in inches depth
Lines of equal rainfall in inches depth - Estimated
SCALE
Season includes the period from October 1st to September 30th inclusive
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
LOCATION OF
ACTIVE RAINGAGES
AND
ISOHYETAL MAP
SEASON 1941-1942
LOS ANGELES COUNTY.
APPROVED BY
ACTING CHIEF ENGINEER
SUBMITTED BY
CHIEF-HYDRAULIC DIVISION
RECOMMENDED BY
ASS'T. CHIEF ENGINEER
DATE
Sept. 8, 1943
2-H62
COMPILED BY
CHECKED BY
DRAWN BY
MAP I
ANTELOPE VALLEY
MOHAVE DESERT
ROSAMOND LAKE
SANTA SUSANA MOUNTAINS
SANTA MONICA MOUNTAINS
SAN GABRIEL MOUNTAINS
SAN JOSE HILLS
PUENTE HILLS
BALDWIN HILLS
SAN PEDRO HILLS
PACIFIC OCEAN
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT BOUNDARY
LOS ANGELES
HOLLYWOOD
PASADENA
GLENDALE
LONG BEACH
Gorman
Neenach
Sandberg
Fairmont
Antelope Buffes
Del Sur
Lancaster
Roosevelt School House
Palmdale
Little Rock
Llano
Moody Spr
Lovejoy Springs
Lovejoy Buttes
Grey Butte
Vincent
Acton
Soledad Canyon
Saugus
Newhall
Castaic
Sylmar
San Fernando
Sunland
Tujunga
Chatsworth
Zelzah
Owensmouth
Reseda
Van Nuys
Lankershim
Burbank
Malibu
Santa Monica
Venice
Culver
Inglewood
El Segundo
Redondo Beach
Torrance
Gardena
Compton
Bellflower
Norwalk
Artesia
Lakewood
Downey
Whittier
Montebello
Puente
Monrovia
Arcadia
Sierra Madre
Monrowia
Azusa
Glendora
Covina
Pomona
La Verne
Claremont
San Gabriel
Alhambra
El Monte
San Pedro
Hermosa Beach
Hawthorne
Lawndale
Gardena
Torrance
Wilmington
Long Beach
Pacoima Dam
Tujunga Dam
Sunset Dam
Devils Gate Dam
Eaton Wash Dam
Big Santa Anita Dam
Sawpit Dam
Morris Dam
Big Dalton Dam
San Dimas Dam
Puddingstone Dam
Puddingstone Diversion Dam
Cogswell Dam
Crags Dam
Malibu Dam
Rindge Dam
Little Rock Dam
San Gabriel Dam No. 1
San Gabriel Dam No. 2
Hughes Lake
Elizabeth Lake
Castaic Lake
Quail Lake
Portal Ridge
Sierra Mountain
Sawmill Mountain
Sierra Pelona
Anaverde Valley
Thistle Rock
Vincent
Soledad Canyon
Sierra Madre
Arcadia
Monrovia
Azusa
Glendora
Covina
Pomona
La Verne
Claremont
Puddingstone
Whittier
Montebello
Puente
Norwalk
Bellflower
Artesia
Lakewood
Downey
Compton
Gardena
Torrance
Redondo Beach
El Segundo
Inglewood
Culver
Venice
Santa Monica
Malibu
Van Nuys
Lankershim
Burbank
Sunland
Tujunga
San Fernando
Sylmar
Saugus
Newhall
Castaic
Chatsworth
Zelzah
Owensmouth
Reseda
Gorman
Neenach
Sandberg
Fairmont
Del Sur
Lancaster
Palmdale
Little Rock
Llano
Vincent
Acton
Soledad Canyon
Grey Butte
Moody Spr
Lovejoy Springs
Lovejoy Buttes
Roosevelt School House
Rosamond Lake
Antelope Buffes
Hughes Lake
Elizabeth Lake
Castaic Lake
Quail Lake
Portal Ridge
Sierra Mountain
Sawmill Mountain
Sierra Pelona
Anaverde Valley
Thistle Rock
Pacoima Dam
Tujunga Dam
Sunset Dam
Devils Gate Dam
Eaton Wash Dam
Big Santa Anita Dam
Sawpit Dam
Morris Dam
Big Dalton Dam
San Dimas Dam
Puddingstone Dam
Puddingstone Diversion Dam
Cogswell Dam
Crags Dam
Malibu Dam
Rindge Dam
Little Rock Dam
San Gabriel Dam No. 1
San Gabriel Dam No. 2
Little Buck Dam
Hermosa Beach
Hawthorne
Lawndale
Wilmington
Long Beach
San Pedro

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
ISOHYETAL MAP
SHOWING
70 YEAR NORMAL (1872-1942)
SEASONAL PRECIPITATION
FOR
LOS ANGELES COUNTY
APPROVED BY
ACTING CHIEF ENGINEER
SUBMITTED BY
CHIEF HYDRAULIC ENGR.
RECOMMENDED BY
SR. ASST. CHIEF ENGINEER
DATE
8-27-43
2-H 61
COMPILED BY R.E.L.
CHECKED BY
DRAWN BY
Season includes the period from Oct. 1st to Sept 30th inclusive
SCALE
5 Miles
LEGEND
Flood Control Standard Gages.
Flood Control Standard & Automatic Gages.
Flood Control Standard Gage Active-Automatic Gage Inactive.
Flood Control Automatic & Private or U.S. Weather Bureau Standard.
United States Weather Bureau Standard Gage.
United States Weather Bureau Automatic Gage.
Private Gage, Standard Type
Private Gage, Automatic Type.
210-B Capital Letters (A, B, etc.) Following a Station Number Denote Successive Locations of a Gage in a Locality
258-b Lower Case Letters (a, b, etc.) Following a Station Number Denote Several Gages Operated Simultaneously by a Single Observer.
"E" At a Station Denotes a Flood Control Evaporation Tank.
x Inactive Gage Locations
Lines of Equal Rainfall in Inches Depth
Lines of Equal Rainfall in Inches Depth – Estimated
MOHAVE DESERT
ANTELOPE VALLEY
ROSAMOND LAKE
SAN GABRIEL MOUNTAINS
SANTA SUSANA MOUNTAINS
SANTA MONICA MOUNTAINS
SIERRA PELONA
PACIFIC OCEAN
LOS ANGELES
PASADENA
HOLLYWOOD
LONG BEACH
Santa Monica
Venice
Redondo Beach
San Pedro
Palmdale
Lancaster
Pomona
Whittier
MAP II

EVAPORATION RECORDS

EVAPORATION

Foreword:

Evaporation records have been continued at various representative locations where the District has maintained rain gages, particularly at or near reservoirs and spreading grounds. These tanks are read at 5 p.m. at all District stations to be consistent with the rainfall readings. Most stations include maximum and minimum thermometers as standard equipment, and one station is further equipped with an anemometer and a hygro-thermograph.

Evaporation data obtained from tanks placed at reservoirs and spreading grounds, are used in computations of water distribution and losses.

These data are also used in the District's hydrologic investigations and by other agencies and individuals.

Number of Stations:

The District maintained 22 land evaporation stations and 2 lake pans during the season.

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 pan as well as the temperature 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 additional data. The Metropolitan Water District at Morris Dam maintained 6' foot and 4 foot 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 thermometer, 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 District, are equipped with hook gages for reading the evaporation.

Summary of Seasonal Evaporation:

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

Maximum Seasonal Amt. Inches -	Big Tujunga Dam	94.280
Maximum Monthly Amt. Inches --	Big Tujunga Dam	15.075 in July
Maximum Daily Amt. Inches -	Big Tujunga Dam	0.650 Aug. 4th
Minimum Seasonal Amt. Inches -	West Saddle Peak	38.465
Minimum Monthly Amt. Inches --	Opid's Camp	0.125 in Dec.

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

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

Table I presents monthly evaporation data for the stations operated.

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

TABLE I

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

HYDRAULIC DIVISION

EVAPORATION RECORDS

IN INCHES Season 1941-42

Sta. No.	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
23	Chatsworth	5.340	4.376	2.480	3.285	3.195	5.155	3.480	6.345	7.750	10.545	9.080	6.965	67.996
32	Newhall	4.845	4.050	3.075	3.725	3.550	5.200	5.010	6.325	5.850	8.300	7.925	7.145	65.000
33	Pacoima Dam	5.745	6.410	3.390	4.735	4.160	5.865	2.960	5.965	6.720+	8.190+	6.815	6.395	67.350
46	Big Tujunga	6.855	6.920	2.765	4.195	4.300	6.690	4.085	8.020	9.425	15.075	13.825	12.125	94.280
57	Opid's	3.210	0.290#	0.125#	0.340#	0.240#	1.385	0.780#	4.790	6.595	8.560	6.780	5.860	38.955
63	Santa Anita	4.620	5.205	2.400	3.095	2.850	4.215	2.285	3.935	3.425+	6.330	5.220	5.460	49.040
70	Dalton	5.620	5.185	2.485	2.900	3.145	4.865	3.060	6.665	6.620	9.560	8.150	5.455	67.710
83	Big Pines Park	3.705#	2.275#	0.175#	#	#	#	0.400#	5.885	7.960	9.915	8.630	7.555	Inc. #
89	San Dimas Dam	5.735	4.965	2.270	2.725	1.665	2.455	2.015	3.850	5.375	9.200	9.450	7.425	57.130
96	Puddingstone	5.320	5.280	3.360	3.975	3.085	4.100	2.875	4.300	5.025	7.750	8.400	6.525	59.990
223	Big Dalton	4.000	3.350	1.550	1.725	2.300	3.250	2.225	4.800	4.800	9.475	8.175	6.550	52.200
248	West Saddle Peak	3.310	3.020	1.155	1.655	2.283	3.457	1.405	3.890	3.745	5.260	4.865	4.420	38.465
261	Acton (near)	5.770	4.795	2.510	3.330	3.235	5.290	4.405	7.840	10.125	13.405	11.725	9.200	81.630
265	Puente Hills	3.416	2.305	0.973	1.630	1.761	3.607	2.368	4.686	4.148	6.840	5.729	3.800	41.263
268	Torrance	4.646	1.848	1.220	0.880	1.525	4.310	3.998	6.585	5.905	8.150	7.295	5.660	52.022
292	Encino - F.C.	6.850	5.660	2.190	3.205	3.765	6.665	4.795	8.845	9.360	11.785	10.015	7.610	80.745
	" Lake	5.37	4.64	2.20	2.19	3.69	5.24	3.79	6.23	7.33	10.15	7.99	6.93	65.75
	" USWB	5.80	4.12	2.45	2.55	3.82	6.45	5.02	7.15	7.77	11.75	9.41	7.15	73.44
321	Pine Canyon Patrol	4.090	2.465	1.175	2.665#	2.650#	4.995	5.055	8.305	11.770	14.075	11.955	9.050	78.250
334	San Gabriel Dam #2	5.110	2.775	1.555	2.150	2.875	3.975	3.555	7.075	8.975	12.420	10.880	9.225	70.570
	San Gab. Dam #2 Lake	3.910	Inc.	1.110	1.495	2.070	3.395	3.325	6.145	7.625	10.410	9.415	Inc.	Inc.
347	Baldwin Park - USWB	4.53	3.13	2.06	Inc.	Inc.	4.41	3.71	6.99	6.49	9.31	8.06	5.99	Inc.
	" " 6 ft.	3.91	2.58	1.35	1.52	1.77	3.47	3.06	5.89	5.54	7.87	7.23	5.28	49.47
	" " F.C.	4.520	2.849	1.346	1.396	2.010	3.785	3.365	5.740	6.143	9.140	8.270	6.125	54.689
	" " 2 ft.	4.71	3.07	1.78	1.73	2.03	3.80	3.29	5.77	6.17	9.11	8.19	6.25	55.90
390B	Morris Dam - 6 ft.	3.912	2.892	1.440	1.668	2.064	3.576	3.096	5.904	6.348	8.724	7.692	6.072	53.388
	" " 4 ft.	3.984	3.132	1.536	1.884	2.340	4.140	3.372	6.456	6.720	9.624	8.148	6.396	57.732
425	San Gab. Dam #1	6.555	5.340	2.495	2.805	3.425	5.030	3.810	7.235	7.310	10.810	9.795	8.685	73.295
	" " " " Lake	Inc.	4.255	1.885	2.300	2.975	4.570	3.319	6.455	6.560	9.220	8.045	6.090	Inc.
441	Palmdale	4.030	2.680	2.385	1.800	2.170	4.585	4.950	7.685	9.812	13.153	11.270	8.500	73.020
468	Pickens	4.830	3.955	1.610	2.195	3.130	3.945	3.530	6.445	6.615	10.740	8.421	7.034	62.450

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 RECORDS

Foreword:

This report is the twelfth of a series of annual or biennial reports summarizing the collection of runoff data by the District. These reports cover 15 years° of records on various streams and channels throughout the County. Stations have been added, moved, or abandoned as the need for particular records increased or diminished. The majority of the stations now operated are permanent stations, the records of which are essential to established or planned flood control and conservation projects.

Purpose:

The continued and widespread expansion of population and industry in Southern California results in a continual encroachment on natural waterways, flood plains, and pervious areas. As the recurrence of damaging floods, debris flows, and droughts is inevitable, the need for flood control protective work and the development of adequate water supply presents an increasingly serious problem. Continuous unbroken streamflow records of long duration form the basic information necessary to intelligently cope with these problems.

The immediate value of flow measurements and records is in their use for the proper operation of existing flood control dams and related flood control works. These records provide the information necessary to properly correlate flood releases with valley runoff and channel capacities. Current flow records also provide knowledge of channel percolation rates thereby facilitating operation of reservoirs for a maximum conservation benefit.

Continuous long time streamflow records are important for proper planning and design of future flood control structures and channels. The periodicity and magnitude of flood stages can only be determined from long time flow records. Existing records are actually of insufficient continuity and length to accurately determine these factors. Future flood protection construction must of necessity be extended into a long range program dependent on future expansion and the resulting encroachment on areas subject to flood damage. The economic feasibility and proper operative design of such works should be based on the records of normal as well as flood flows.

° 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.

The high degree of agricultural development in the District makes the conservation of ground water and surface water supply mandatory. The proper planning of present and future conservation works depends on determining the available water supply and is therefore entirely dependent on continuous unbroken streamflow records showing maximum, minimum, and average yearly flow. It is now generally recognized that the change in weather cycles from wet to dry or dry to wet may cover a great number of years. Obviously, dependable planning, design, and operation require continuation of such records indefinitely. Therefore, a program of maintenance of permanent streamflow stations to make the collection of these records economical and accurate is essential.

Extent and Method of Collecting Data

The Flood Control District operated 65 recording streamflow stations during the current season. These stations are distributed on the main streams and tributaries of the various drainage systems as follows:

Drainage Area	No. of Stations
Los Angeles River	22
San Gabriel River	19
Rio Hondo	15
Ballona Creek	3
Santa Monica Mountains - Coastal	3
Santa Clara River	1
San Antonio Creek	1
Antelope Valley	1

The locations of all stations shown on Map III, Page 31.

The types of gaging sections are listed below in order of predominance:

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

The water stage is recorded by various types of automatic recorders usually mounted over a concrete or corrugated iron pipe stilling well. The type of recorder used at a station is determined by the importance of the particular record, gage height range required and the practicability of frequent access by a district hydrographer. Due to shifting bottoms at many locations, the accuracy of the records depends largely on the number of measurements made during each storm.

TYPES OF RECORDERS IN USE

Type	No. in Use	Time-Duration
Au	17	continuous
°HCF	32	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

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

Records Presented

Records of recording streamflow stations are in general published under each station in four sections, giving the following information:

(1) Station Description giving the pertinent data regarding location, drainage areas, channels and controls, available measurements, recorders, regulation, diversions, available records, extremes of discharge, accuracy of records and operation.

(2) Lists of Measurements giving all the actual meter measurements together with observed water stage, areas of cross-section, and mean velocities. These lists include 2,659 measurements taken by the District during 1941-42 at 65 recorder stations.

(3) Mean Daily Runoff Tabulation giving mean daily runoff in second-feet; total monthly and yearly runoff in second-foot days and acre-feet.

(4) Hydrographs showing a curve of instantaneous rate of flow versus time for the larger storms of the period. Due to the deficiency of runoff, hydrographs for only the major stream channels and their more important tributaries are published. 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. More than one storm hydrograph was plotted for some of the major channels in order to compare hydrographs on the same channel.

Included in this report as additional information are the records of the thirteen permanent streamflow recording stations owned and operated in this District by the United States Geological

Survey, Water Resources Branch. The Flood Control District cooperates with the U.S.G.S. by taking streamflow measurements at these stations. During the current season 260 such measurements were taken. The U.S.G.S., in turn, publishes the records of sixteen District stations in their Water Supply Papers for Pacific Slope Basins in California.

Records of 670 measurements taken at various staff gage stations are also included herein. These measurements are correlated with the water stage at an established metering section. Included in this type of record are the measurements of "Rising Water at Whittier Narrows" which are taken weekly, at established staff gage stations. A graph of "Rising Water" showing mean month flow fluctuation for a period of 20 years is included on page 154.

In addition to the above, the report includes 201 miscellaneous measurements taken in various drainage areas throughout the County. These data were collected for specific purposes and are insufficient to determine mean daily flow.

Twelve sets of percolation measurements were taken on various reaches of Santa Clara River, Pacoima Wash, Big Tujunga Creek, Los Angeles River, Rio Hondo, Santa Anita Wash, San Gabriel River, and Walnut Wash. The percolation data are shown beginning on page 163.

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.

Runoff Summary

No appreciable or important storm flows occurred during 1941-42 season. Seasonal rainfall was 77% of normal with a resultant low total yearly runoff. Two storms occurred during December which, in most instances, produced the peak flow for the season. The December 10th storm produced the greatest runoff and was probably the largest for the season. The December 29th storm produced seasonal peaks in some of the mountain areas; however, the storm of the 10th was indirectly a contributing factor in that it had increased the watershed moisture content. An unusual summer storm occurred on August 9th and 10th which produced the seasonal peak on the East Fork of the San Gabriel River.

A summary showing the extremes, average, and total flows for the season is published on page 172.

Limitations

Certain recorder station records are insufficient to determine the flow for all periods. These periods are frequently estimated and are denoted by the letter "E" preceding the flow value for such days. These periods 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.

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

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

Station locations 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 connotation:

Prefix F - indicates stations owned and operated by the Los Angeles County Flood Control District.
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.

On the tabulations of mean daily runoff, estimates were designated as below. 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 record incomplete. Familiarity with a current season' 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.

E - indicates estimated or interpolated flow.

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.

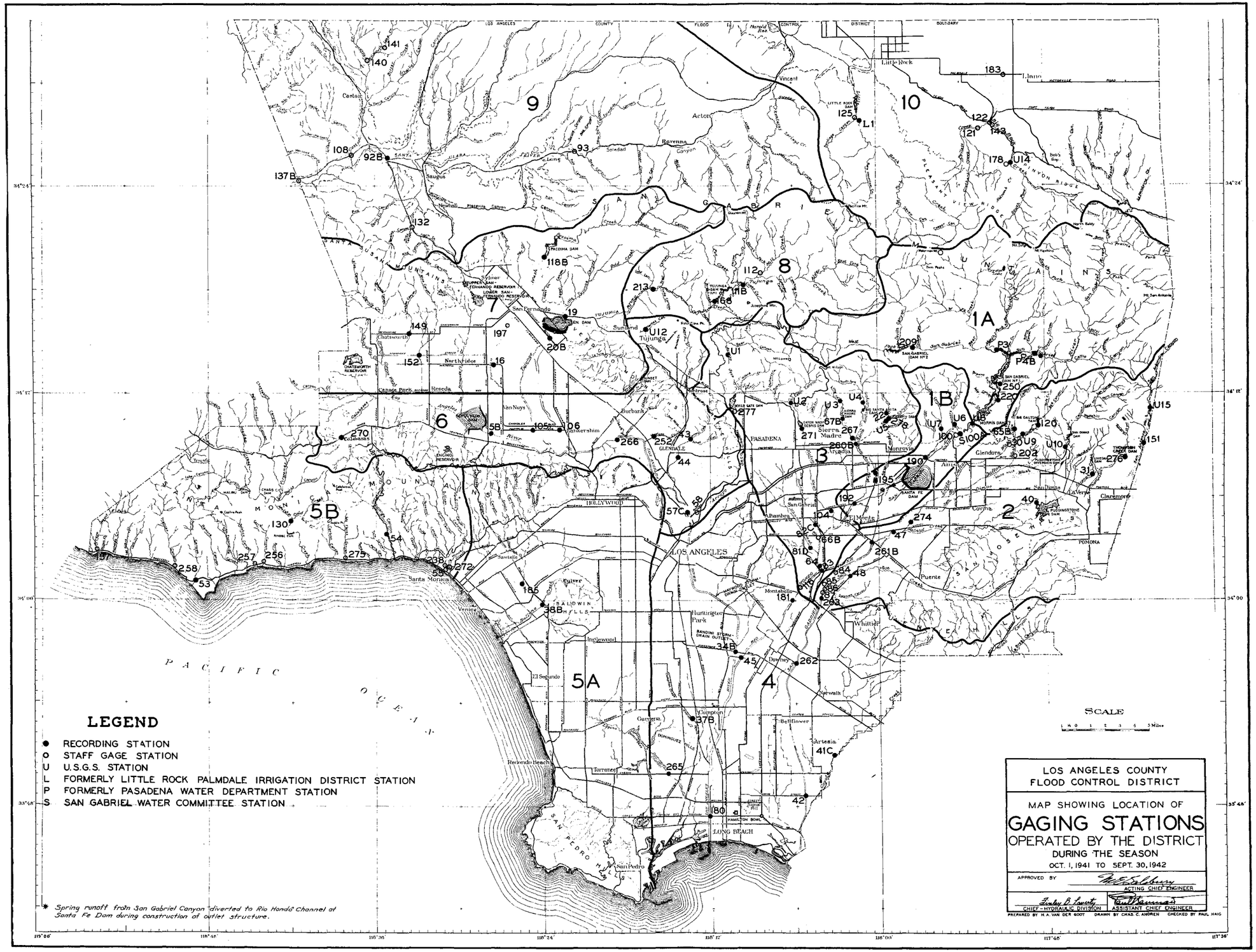
Responsibility

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

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

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

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


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
* Spring runoff from San Gabriel Canyon diverted to Rio Hondo Channel at Santa Fe Dam during construction of outlet structure.
SCALE
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
MAP SHOWING LOCATION OF
GAGING STATIONS
OPERATED BY THE DISTRICT
DURING THE SEASON
OCT. 1, 1941 TO SEPT. 30, 1942
APPROVED BY
ACTING CHIEF ENGINEER
CHIEF-HYDRAULIC DIVISION
ASSISTANT CHIEF ENGINEER
PREPARED BY H.A. VAN DER SOOT DRAWN BY CHAS. C. ANDREN CHECKED BY PAUL HAIG
PACIFIC OCEAN
SAN GABRIEL MOUNTAINS
LOS ANGELES
PASADENA
HOLLYWOOD
LONG BEACH
Santa Monica
Venice
Pomona
Whittier
Puente
Glendora
Monrovia
Sierra Madre
Arcadia
Alhambra
El Monte
San Gabriel
Covina
Claremont
Pacoima
Sunland
Tujunga
Burbank
Glendale
Northridge
Reseda
Chatsworth
Canoga Park
Van Nuys
Encino
Culver
Inglewood
Hawthorne
Torrance
Gardena
Compton
Bellflower
Artesia
Norwalk
Downey
Montebello
Huntington Park
Redondo Beach
San Pedro
Palmdale
Lancaster
Little Rock
Llano
Acton
Vincent
Saugus
Newhall
Santa Clarita
Castaic
Calabasas
Malibu
Pacoima Dam
Hansen Dam
Sepulveda Dam
Santa Fe Dam
Puddingstone Dam
Morris Dam
San Gabriel Dam No. 1
San Gabriel Dam No. 2
Big Dalton Dam
Thompson Creek Dam
Chatsworth Reservoir
Encino Reservoir
Upper San Fernando Reservoir
Lower San Fernando Reservoir
Hamilton Bowl
Bandini Storm Drain Outlet
Pacific Ocean
1A
1B
2
3
4
5A
5B
6
7
8
9
10

MAP III

RECORDER STATION RECORDS

Note: In the following records, time prior to February 9, 1942, is Pacific Standard Time, subsequent time is Pacific War Time. February 9th is computed on the basis of a 23 hour day.

STATION F81D-R

ALHAMBRA WASH near Short Street

LOCATION:

On the left (east) side of channel about 250 feet above Short Street and 2650 feet below Garvey Avenue.

Abandoned stations F81R, F81B-R, and F81C-R were 2650 feet, 4050 feet, and 1750 feet, respectively, upstream from station F81D-R.

DRAINAGE AREA:

14.5 square miles.

CHANNEL AND CONTROL:

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

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed September 2, 1936, over a 3.25 ft. x 4.0 ft. concrete stilling well.
An Au continuous recorder was in service from October 1, 1941 to November 26, 1941; an H.C.F. recorder was in service from November 26, 1941 to September 30, 1942.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

At station F81R:
January 14, 1930 to September 30, 1934.
At station F81B-R:
October 1, 1934 to February 25, 1935.
At station F81C-R:
February 25, 1935 to April 27, 1936,
At station F81B-R:
April 27, 1936 to May 22, 1936.
At station F81D-R:
September 2, 1936 to September 30, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 1650, second-feet, December 10.
Minimum + flow at various times.
1929-1942 (Stations F81R, F81B-R, F81C-R, F81D-R)
Maximum 4890, second-feet January 1, 1934.
Minimum no flow at various times.

ACCURACY:

Good.
Flows occasionally estimated during low flows.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F81D-R

DISCHARGE MEASUREMENTS OF ALHAMBRA WASH

NEAR Short Street DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
64	11-5	832A / 834A	Haig	4.0	0.12	0.42	0.14	0.05	Floats				
65	1-29	810A / 812A	"	3.0	0.12	0.40	0.08	0.05	Floats				
66	8-19	800A	"	6.0	0.24	0.46	0.08	0.11	Floats				
67	8-27	310P / 312P	"	6.0	0.16	0.31	0.08	0.05	Floats				

F.C. Dist. Form 53 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

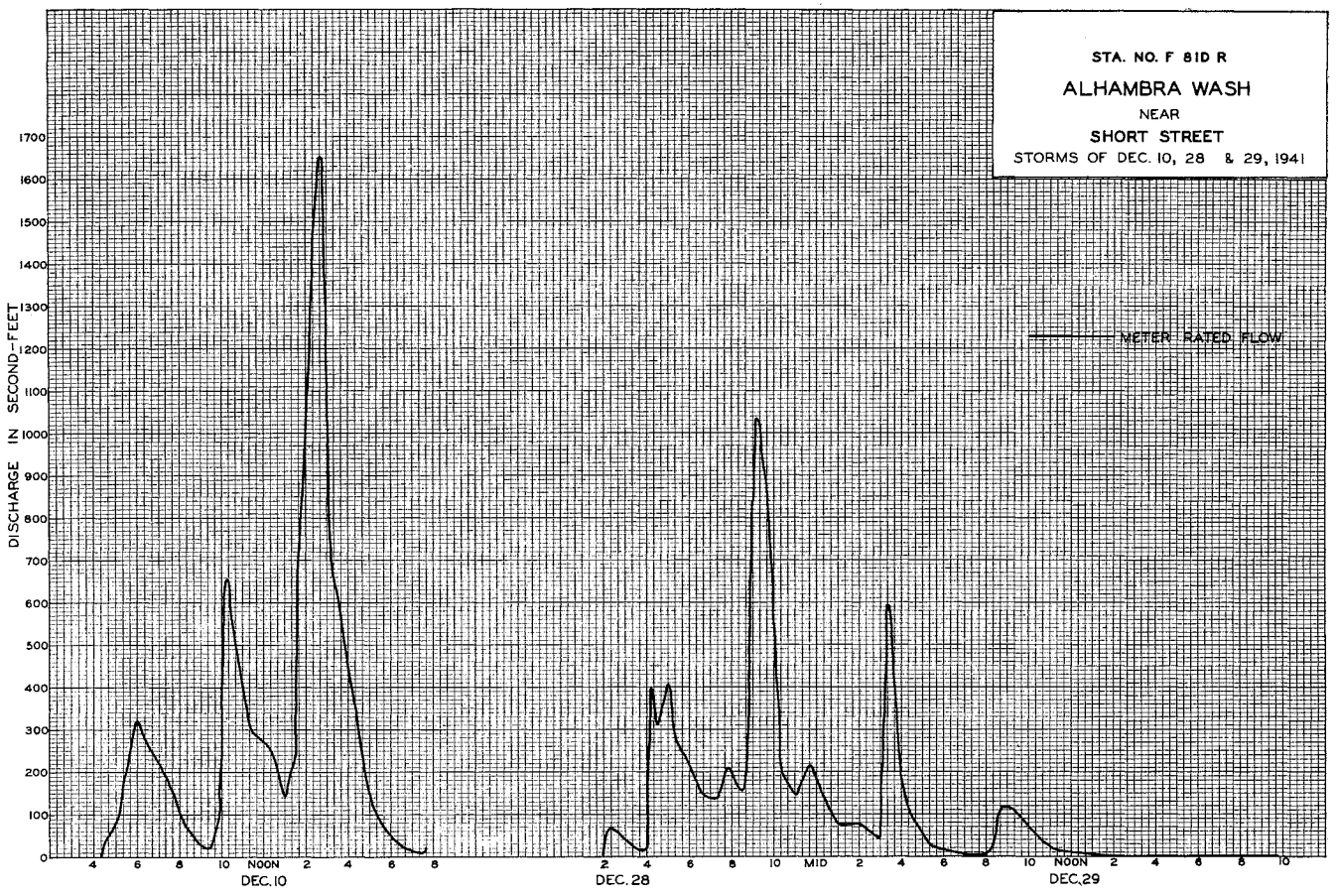
Sta. No F81D-R

Daily discharge, in second-feet of ALHAMBRA WASH at Short Street, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	E 0.1	0.1	8.5	0.1	0.1	0.1	0.1			0.1	0.3
2	+	E 0.1	0.1	0.1	0.2	0.1	0.1	0.1			0.1	0.3
3	+	E 0.1	3.2	0.1	0.2	0.1	11	0.1			0.1	0.3
4	+	E 0.1	+	0.1	0.1	0.1	21	0.2			0.1	0.3
5	+	E 0.1	+	0.2	0.1	0.1	2.6	0.1			0.1	0.3
6	+	+	+	0.1	0.1	0.1	8	0.1			0.1	0.2
7	+	+	+	0.1	0.4	0.1	0.2	0.3			0.1	0.1
8	+	+	+	0.1	0.1	0.1	0.1	0.2			0.1	0.2
9	+	+	1.8	0.1	0.1	0.1	0.1	0.2			39	0.4
10	+	0.1	193	0.1	0.1	0.2	24	0.2			7	0.4
11	0.1	0.8	0.3	0.1	0.1	15	12	0.1			0.1	0.2
12	14	1.2	0.1	0.2	0.1	0.3	0.1	0.1			0.1	0.2
13	0.3	0.1	0.1	0.1	0.3	0.3	0.1	0.2			0.1	0.1
14	0.1	0.1	0.1	0.1	0.1	70	25	0.2			0.1	0.1
15	0.1	0.1	0.1	0.1	0.1	0.6	0.2	0.2			0.1	0.3
16	0.1	0.1	0.1	0.1	0.1	0.4	0.1	0.2	Stopped clock	Stopped clock	0.1	0.4
17	0.1	0.1	0.1	0.1	0.1	0.1	19	0.2			0.1	0.2
18	0.1	+	0.1	0.2	0.1	0.1	0.1	0.2			0.1	0.2
19	0.6	0	0.1	0.4	0.1	0.1	0.1	0.2			0.1	0.1
20	5.5	0	0.1	0.1	0.2	0.1	0.1	0.2			0.1	0.1
21	23	0	0.1	0.1	55	0.1	12	0.1			0.1	+
22	12	0	0.1	11	9	0.1	0.3	0.1			0.1	0.1
23	13	0	15	0.3	0.1	0.1	0.1	0.1			0.1	0.2
24	0.5	0	0.1	0.1	0.4	1.2	0.1	0.1			0.1	0.4
25	0.1	0	25	0.1	0.2	0.1	0.1	0.1			0.1	0.5
26	0.1	+	2.5	0.3	0.1	0.1	0.1	0.1			0.2	0.4
27	8	+	0.1	0.1	0.4	0.1	0.1	0.1			0.1	0.1
28	0.2	0.1	107	0.1	0.1	0.1	0.8	0.1			0.1	0.2
29	E 0.2	0.2	42	0.1		0.1	0.1	0.1			0.1	0.2
30	E 0.2	0.1	24	0.1		0.1	0.1	0.1			0.1	0.2
31	E 0.2		0.2	0.1		0.1		0.1			0.2	
	785	3.5	4443	23.4	681	903	137.8	4.5	E 3.0	E 3.0	491	7.0
Mean	2.53	0.12	14.3	0.75	2.43	2.91	4.59	0.15	0.1	0.1	1.58	0.23
Acre-Feet	155.	6.9	880.	46.	135.	179.	273.	8.9	5.9	5.9	97.	14.

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

Year or Period Mean 2.50
Acre-Feet 1810



STATION F152-R

ALISO WASH at Nordhoff Street

LOCATION:

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

DRAINAGE AREA:

7.15 square miles.

CHANNEL AND CONTROL:

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

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed November 3, 1939 over an 18 inch corrugated iron pipe stilling well.
An H.C.F. recorder was in service from October 1, 1941 to September 30, 1942.

REGULATION AND/OR DIVERSIONS:

None.

RECORDS AVAILABLE:

November 3, 1939 to September 30, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 55 second feet, on December 28.
Minimum no flow most of year.
1939-1942
Maximum not determined February 20, 1941.
Minimum no flow at various times.

ACCURACY:

Poor.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F152-R

DISCHARGE MEASUREMENTS OF ALISO CREEK

AT Nordhoff Street DURING THE YEAR ENDING SEPTEMBER 30, 1942

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
57	12-28	552P 557P	Luce-Pardieck	14.5	4.18	2.49	1.96	10.4		.6	7	0	FC 39
58	12-29	924A 925A	" "	2.0	0.23	0.70	1.86	0.16		.6	3	0	" "
59	2-21	215P 220P	Luce	4.0	0.43	0.53	1.87	0.23		.6	6	0	" "
60	3-11	1010A 1015A	"	2.5	0.41	0.68	1.96	0.28		.6	4		" "
61	3-14	532P 537P	Luce-Pardieck	14.0	3.90	2.59	1.99	10.1		.6	7	0	" "
62	4-9	310P 315P	Luce	2.0	0.35	0.66	1.88	0.23		.6	3	0	" "
63	4-10	935A 940A	"	2.3	0.27	0.93	1.91	0.25		.6	4	0	" "
64	4-14	110P 120P	"	5.2	0.85	1.77	2.01	1.5		.6	5	0	" "
65	7-16	312P 315P	"	2.0	0.20	1.00	1.78	0.20		.6	4	0	" "

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No F152-R

Daily discharge, in second-feet of ALISO CREEK at Nordhoff Street, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	Occasional flows or waste irrigation water	Occasional flows of waste irrigation water	Occasional flows of waste irrigation water	Occasional flows of waste irrigation water
2	0	0	0	0	0	0	0	0				
3	0	0	0	+	0	0	+	0				
4	0	0	0	+	0	0	+	0				
5	0	0	0	0	0	0.2	0	0				
6	0	0	0	0	0	0.2	0	0				
7	0	0	0	0	0	0	0	0				
8	0	0	0	0	0	+	0	0				
9	0	0	0	0	0	0	E 0.1	0				
10	0	0	3.3	0	0	0	0.3	0			0.2	
11	0	0	0	0	0	+	+	0				
12	0	0	0	0	0	0	0	0				
13	0	0	0	0	0	0	0	0				
14	0	0	0	0	0	2.1	0.6	0				
15	0	0	0	0	0	0.2	0	0				
16	0	0	0	0	0	0	0	0				
17	0	0	0	0	0	0	+	0				
18	0	0	0	0	0	0	0	0				
19	0	0	0	0	0	0	0	+				
20	0	0	0	0	0	0	0	+				
21	0	0	0	0	0.4	0	0	+				
22	0	0	0	0	+	0	0	+				
23	0	0	0	0	0	0	0	+				
24	0	0	0	0	0	0	0	+				
25	0	0	0	0	0	0	0	0				
26	0	0	0	0	0	0	0	0				
27	0	0	0	0	0	0	0	0				
28	0	0	7	0	0	0	0	0				
29	0	0	1.5	0		0	0	0				
30	0	0	0.1	0		0	0	0				
31	0		+	0		0		0				
	0	0	11.9	+	0.4	2.7	1.2	+	E +	E +	0.2	E +
Mean	0	0	0.38	+	0.01	0.09	0.04	+	+	+	0.01	+
Acre-Feet	0	0	24.	+	0.79	5.4	2.4	+	+	+	0.40	+

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

Year or Period: Mean 0.04; Acre-Feet 33.

STATION F38B-R

BALLONA CREEK at Sawtelle Boulevard

LOCATION:

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

DRAINAGE AREA:

111 square miles.

CHANNEL AND CONTROL:

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

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed at station F38R February 27, 1928.
Recorder removed April 27, 1936.
Installed at station F38B-R May 14, 1936 over an 18 inch diameter, corrugated iron pipe stilling well.
An Au continuous recorder was in service from October 1, 1941 to September 30, 1942.

REGULATION:

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

DIVERSIONS:

Some small diversions for irrigation.

RECORDS AVAILABLE:

At station F38R
February 27, 1928 to April 27, 1936.
At station F38B-R
May 14, 1936 to September 30, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 7500 second-feet, December 10.
Minimum 1.9 second-feet, various times.
1928-1942 (Stations F38R and F38B-R)
Maximum 19000 second-feet, March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Fair.
Flows occasionally estimated due to loss of 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 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F38B-R

DISCHARGE MEASUREMENTS OF BALLONA CREEK

AT Sawtelle Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
570	10-2	940A 955A	Moon	Two Channels			1.57	6.3		.6	12	0	FC 22
571	10-8	916A 930A	"	" "			1.54	6.7		.6	11	-.01	"
572	10-12	324P 340P	"	" "			1.34	12.5		.6	14	-.02	"
573	10-16	953A 1001A	"	25.0	15.0	0.95	1.32	14.2		.6	9	-.03	"
574	10-21	735P 757P	Moon-Andren	72.0	222.	4.41	4.86	976.		.6	7	+.05 -.02	"
575	10-22	814A 826A	Moon	36.0	42.9	1.71	1.87	73.2		.6	11	-.04	"
576	10-23	1024A 1038A	"	46.0	89.0	3.01	2.86	268.		.6	12	-.14	"
577	10-23	411P 424P	"	Two Channels			1.43	19.8		.6	10	-.02	"
578	10-27	203P 215P	"	61.0	191.	4.34	4.53	830.		.6	6	+.08 -.06	"
579	10-28	1232P 1245P	"	Two Channels			1.20	7.9		.6	13	0	"
580	10-30	949A 959A	"	18.0	7.31	0.90	1.15	6.6		.6	8	-.01	"
581	11-6	835A 843A	"	16.5	6.37	0.77	1.14	4.9		.6	7	0	"
582	11-13	908A 918A	"	18.5	8.17	0.75	1.17	6.1		.6	7	+.02	"
583	11-19	950A 1004A	"	16.0	6.15	0.65	1.10	4.0		.6	7	0	"
584	11-27	927A 937A	"	17.5	6.75	0.67	1.09	4.5		.6	8	0	"
585	12-3	240P 322P	U.S.E.D. # 60	62.0	178.	3.03	4.11	540.		.6	6	-.45	US 4
586	12-3	322P 355P	" # 61	50.0	120.	3.42	3.54	411.		.6	5	-.62	"
587	12-3	400P 414P	Moon-Eckert	44.0	103.	3.15	3.05	324.		.6	11	-.29	FC 22
588	12-4	1009A 1024A	Moon	Two Channels			1.38	5.5		.6	12	0	"
589	12-10	525A 545A	Moon-Eckert	75.0	228.	4.47	5.31	1020.		.6	7	-.70	"
590	12-10	910A 958A	U.S.E.D. # 62	54.0	118.	2.86	3.04	337.		.6	11	+1.15 -.07	US 4
591	12-10	1232P 1255P	" # 63	94.0	364.	5.52	6.60	2010.		.6	11	+1.00	"
592	12-10	1258P 135P	" # 64	111.0	688.	8.12	9.74	5590.		.6	13	+3.60 -.30	"
593	12-11	1024A 1038A	Moon	Two Channels			1.31	8.5		.6	12	0	FC 22
594	12-18	214P 225P	Moon	Two Channels			1.23	4.7		.6	11	0	FC 22
595	12-26	910A 920A	"	37.0	62.7	2.97	2.38	186.		.6	10	-.07	"
596	12-26	304P 320P	"	Two Channels			1.36	23.3		.6	14	-.01	"
597	12-28	426P 450P	Moon-Eckert	110.0	658.	7.07	9.23	4650.		.6	11	+.13	"
598	12-28	1045P 1120P	U.S.E.D. # 65	65.0	211.	2.65	4.10	559.		.6	14	-1.40	US 4
599	12-29	227P 239P	Moon-Eckert	36.5	36.4	1.83	1.67	66.5		.6	11	-.06	FC 22
600	12-30	237P 245P	" "	37.0	83.2	2.74	2.58	228.		.6	10	-.22	"
601	12-31	912A 930A	Moon	Three Channels			1.10	8.4		.6	16	0	"
602	1-8	927A 942A	"	" "			0.98	4.9		.6	13	0	"
603	1-15	914A 929A	"	" "			0.98	5.6		.6	13	0	"
604	1-22	908A 920A	"	31.0	28.8	1.07	1.32	30.7		.6	9	-.09	"
605	1-29	1016A 1028A	"	Two Channels			1.00	5.1		.6	10	0	"
606	2-5	1005A 1017A	"	" "			0.95	2.6		.6	9	-.02	"
607	2-11	934A 945A	"	29.5	21.7	0.88	1.20	19.1		.6	8	0	"
608	2-19	1015A 1027A	"	Two Channels			0.94	3.3		.6	10	0	"
609	2-22	1050A 1058A	Moon-Eckert	30.0	21.3	0.78	1.33	16.5		.6	10	0	"
610	2-26	958A 1013A	Moon	Two Channels			1.18	5.0		.6	12	0	"
611	3-5	938A 949A	"	" "			1.11	2.2		.6	9	0	"
612	3-11	634A 652A	Moon-Eckert	68.0	214.	4.45	5.16	952.		.6	8	-.18	"
613	3-11	1004A 1015A	Moon - Eckert	35.5	51.9	1.30	1.71	67.7		.6	10	-.10	FC22
614	3-12	934A 948A	Moon	Two Channels			1.06	7.9		.6	12	0	"
615	3-14	355P 415P	Moon-Eckert	97.0	462.	6.12	7.54	2830.		.6	10	-1.20	"
616	3-15	1009A 1021A	" "	Two Channels			1.20	10.2		.6	13	0	"
617	3-19	930A 944A	Moon	" "			1.09	3.6		.6	12	0	"
618	3-26	926A 941A	Moon	Two Channels			1.01	2.0		.6	10	+.01	FC 22
619	4-2	1005A 1017A	"	" "			1.02	1.9		.6	9	0	"
620	4-3	1044P 1056P	Moon-Eckert	45.0	82.8	2.32	2.46	192.		.6	12	-.10	"
621	4-4	653A 703A	" "	41.0	49.5	1.20	1.69	59.5		.6	10	-.04	"
622	4-6	1207P 1221P	Moon	Two Channels			1.19	9.0		.6	13	0	"
623	4-9	923A 938A	"	" "			1.14	5.4		.6	13	0	"
624	4-10	426P 444P	Moon-Eckert	70.0	284.	5.98	6.28	1700.		.6	6	+.35	"
625	4-10	505P 520P	" "	90.0	383.	5.75	6.86	2200.		.6	8	+.02 -.15	"
626	4-11	800A 813A	" "	43.0	82.0	2.37	2.48	194.		.6	11	-.16	"
627	4-14	954A 1009A	" "	87.0	307.	5.25	6.34	1610.		.6	9	+.02	"
628	4-14	255P 304P	" "	35.0	65.0	1.30	1.81	84.5		.6	10	-.04	"
629	4-16	1020A 1034A	Moon	Two Channels			1.05	6.7		.6	10	0	"
630	4-17	1235P 1250P	"	" "			1.24	16.1		.6	15	-.02	"
631	4-21	715P 729P	Moon-Eckert	78.0	270.	4.70	5.52	1270.		.6	8	+.04 -.04	"
632	4-22	1002A 1017A	Moon	Two Channels			1.12	10.4		.6	13	0	"
633	4-30	206P 217P	"	" "			0.98	3.3		.6	9	0	"
634	5-7	935A 945A	"	" "			0.97	2.4		.6	10	0	"
635	5-14	907A 920A	"	" "			0.98	2.6		.6	10	0	"
636	5-21	904A 915A	"	" "			0.95	2.0		.6	10	0	"
637	5-28	940A 953A	"	" "			1.03	5.5		.6	11	+.03	"
638	6-4	940A 950A	"	" "			0.94	2.3		.6	8	-.02	"
639	6-11	1030A 1040A	"	" "			1.06	3.2		.6	10	-.02	"
640	6-18	949A 1000A	"	" "			1.01	3.2		.6	11	0	"
641	6-25	926A 940A	"	" "			1.14	6.4		.6	14	0	"
642	7-2	934A 950A	Moon	Two Channels			1.20	6.2		.6	12	0	FC 22
643	7-9	958A 1014A	"	Three Channels			1.28	7.1		.6	14	0	"
644	7-16	915A 927A	"	Two Channels			1.11	3.9		.6	10	+.03	"
645	7-23	933A 944A	"	Three Channels			1.09	3.7		.6	11	0	"
646	7-30	900A 912A	"	" "			1.14	6.6		.6	11	+.04	"
647	8-5	958A 1014A	Bonadiman	31.0	20.6	0.19	1.06	3.9		.6	6	0	FC 19
648	8-10	1012A 1035A	"	35.0	31.6	0.63	1.34	19.7		.6	10	-.02	"
649	8-12	1001A 1012A	"	Two Channels			1.04	5.0		.6	7	0	"
650	8-20	942A 952A	Moon	" "			1.02	4.5		.6	9	+.01	FC 22
651	8-26	937A 950A	"	Three Channels			1.10	5.5		.6	12	+.02	"
652	9-2	945A 1000A	"	" "			1.10	5.4		.6	12	0	"
653	9-10	942A 955A	"	" "			1.05	3.7		.6	13	0	"
654	9-17	935A 946A	"	" "			1.15	6.3		.6	10	0	"
655	9-24	1025A 1039A	"	" "			1.07	3.3		.6	10	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

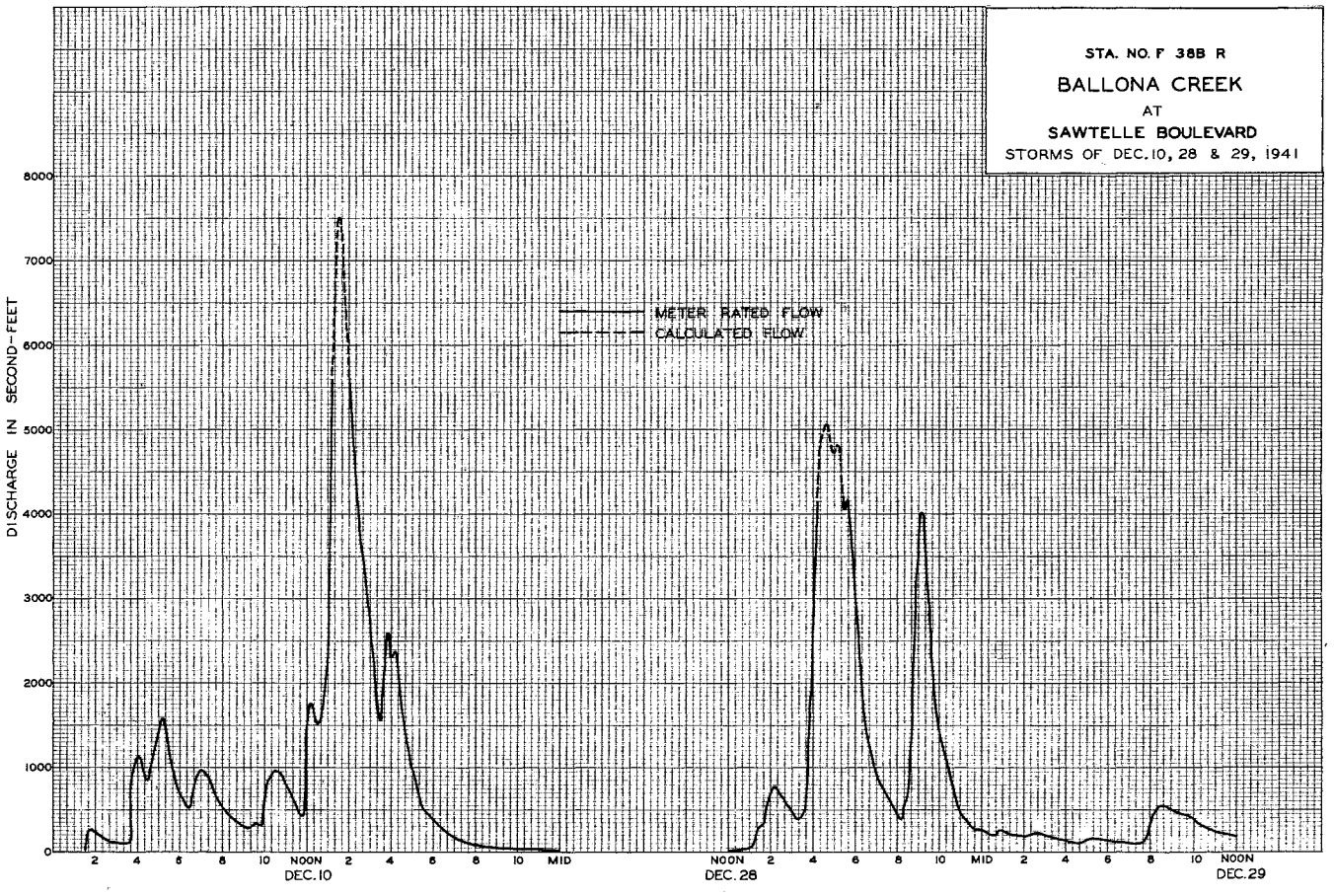
Sta. No. F38B-R

Daily discharge, in second-feet of BALLONA CREEK at Sawtelle Boulevard, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8	6.5	10	173	4.5	3.7	4.0	6.5	9.5	10	6.5	7
2	9	5.5	7.5	10	4.5	3.4	4.0	4.2	14	9.5	6	6
3	8	5.5	317	8	4.8	3.4	68	4.5	11	8	7	6.5
4	9	5.5	6	8.5	4.0	2.6	126	5.5	9	8.5	6	6
5	9	5.5	4.5	7.5	3.7	2.8	8.5	7	8.5	8	6	5.5
6	10	6	4.5	8	4.0	3.1	57	5	8.5	9.5	7.5	4.0
7	11	6	3.4	E 5	4.0	3.1	5.5	4.2	6	9	7	4.0
8	9.5	6.5	4.0	E 5	3.7	2.8	5.5	6.5	9	10	8	5
9	9.5	5.5	22	4.8	3.7	3.4	5.5	3.7	8.5	9	25	6.5
10	10	6	990	4.5	4.5	4.2	219	3.4	9	9	42	6
11	12	7.5	9.5	4.5	22	117	115	5.5	6	10	9	6.5
12	198	15	7.5	5	13	6.5	7	7	12	8.5	9	7
13	9.5	6.5	5.5	5.5	7	5.5	7	10	8	13	11	6
14	10	7.5	5.5	6	20	554	243	5	7.5	7.5	8.5	6
15	11	6.5	5.5	6	11	31	E 9	6.5	14	7	8.5	7
16	14	6	5.5	5.5	7.5	6	E 7	3.7	8.5	6	8.5	7.5
17	11	5.5	5	5.5	7	5.5	170	3.1	11	6	8	7
18	11	5.5	5.5	5.5	6.5	5	7.5	5.5	8	9.5	8	7.5
19	12	5	4.8	4.5	5.5	4.5	7.5	6	11	6	7	7
20	74	4.5	5	4.8	5	4.5	7.5	6	10	8.5	6.5	5.5
21	236	7.5	5	4.5	501	4.0	151	5.5	12	8	7.5	9
22	94	7	4.5	120	74	3.7	14	5.5	14	9	4.8	7.5
23	145	5	82	7	5.5	4.0	8	5	13	8.5	4.5	7.5
24	13	7.5	4.8	5.5	6	9	7	4.2	14	10	5	5.5
25	10	6.5	173	5.5	5.5	4.2	6	6.5	10	10	5.5	7
26	9.5	6.5	42	4.8	5.5	3.7	5	6	10	9.5	6	8
27	79	8.5	8.5	5.5	7.5	3.7	5.5	9	10	9.5	5.5	6.5
28	E 10	8	771	5	4.0	3.4	17	7	9.5	10	5.5	7.5
29	7.5	7	144	5		3.7	5.5	5.5	13	9.5	6.5	7.5
30	8	7.5	189	5		3.7	5.5	5	10	9.5	4.8	7.5
31	7.5		12	4.8		4.0		4.8		10	6.5	
	1075.0	199.0	2864.0	459.7	754.9	819.3	1308.0	172.8	304.5	276.0	267.1	197.0
Mean	34.7	6.63	92.4	14.8	27.0	26.4	43.6	5.57	10.2	8.90	8.62	6.57
Acre-Feet	2130.	395.	5680.	912.	1500.	1630.	2590.	343.	604.	547.	530.	391.

Remarks: E = estimated.

Year or Period — Mean 23.8 — Acre-Feet 17250



STATION F120-R

BIG DALTON CREEK below Big Dalton Dam

LOCATION:

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.

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, 1941 to September 30, 1942.

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, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum undetermined during sluicing in August.
Minimum no flow part of year.
1940-1942
Maximum 67 second-feet, March 5, 1941.
Minimum no flow part of year.

ACCURACY:

Good.
Flow estimated from Dam records on several days.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F120-R

DISCHARGE MEASUREMENTS OF BIG DALTON CREEK

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

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
54	10-22	1026A / 1030A	Brewster	1.0	0.24	0.83		0.20		.6	2		FC 12
55	10-29	1100A / 1105A	"	1.0	0.28	0.82		0.23		.6	2		"
56	11-5	1150A / 1155A	"	2.0	0.53	1.28		0.68		.6	4		"
57	11-12	1100A / 1105A	"	1.5	0.40	0.68		0.27		.6	3		"
58	11-18	500P / 505P	"	1.5	0.40	0.48		0.19		.6	3		"
59	11-26	1055A / 1100A	"	1.5	0.43	0.49		0.21		.6	3		"
60	12-5	1030A / 1035A	"	1.5	0.44	0.66	0.05	0.29		.6	3	0	"
61	12-10	1010A / 1016A	"	2.0	0.43	1.02	0.07	0.44		.6	4	0	"
62	12-31	1034A / 1037A	"	0.5	0.06	0.83	0.02	0.05		.6	1	0	"
63	1-7	1048A / 1050A	"	0.5	0.11	0.18	0.01	0.02		.6	1	0	"
64	5-27	1050A / 1100A	"	6.0	2.28	1.01	0.97	2.3		.6	6	0	"
65	6-3	1020A / 1030A	"	5.5	2.27	1.01	0.95	2.3		.6	6	0	"
66	6-10	1025A / 1035A	"	6.5	2.24	0.85	0.90	1.9		.6	6	0	"
67	6-17	1005A / 1015A	"	6.0	2.30	0.91	0.92	2.1		.6	6	0	"
68	6-24	1125A / 1135A	"	6.0	2.14	0.80	0.85	1.7		.6	6	0	"
69	7-21	820A / 830A	"	6.0	1.98	0.71	0.76	1.4		.6	6	+.02	"
70	7-29	1105A / 1110A	"	0.5	0.13	0.30	0.19	0.04		.6	1	0	"
71	8-5	1000A / 1005A	"	1.0	0.12	0.08	0.07	0.01		.6	2	0	"
72	8-18	1140A	Haig	0.4	0.03	0.13	-0.13	0.04		.6	1	0	FC 33
73	9-2	1120A / 1123A	Brewster	1.0	0.12	0.50		0.06		.6	2		FC 12
74	9-8	1051A / 1055A	"	1.0	0.12	0.50		0.06		.6	2		"
75	9-16	1127A / 1130A	"	1.0	0.12	0.33		0.04		.6	2		"
76	9-23	1227P / 1230P	"	1.0	0.12	0.33		0.04		.6	2		"
77	9-30	1005A / 1009A	"	1.0	0.12	0.50		0.06		.6	2		"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No F120-R

Daily discharge, in second-feet of BIG DALTON CREEK below Big Dalton Dam for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.9	E 0.3	E 0.2	+	0	0	0	0	2.3	0	E 0.05	0.05
2	2.8	0.2	E 0.2	+	0	0	0	0	2.3	0	E 0.05	0.05
3	2.3	0	E 0.4	+	0	0	0	0	2.3	0	E 0.05	0.05
4	1.7	0	0.3	+	0	0		0	2.3	0	0.3	0.05
5	1.5	0.5	0.3	+	0	0	0	0	2.2	0	+	0.05
6	1.5	0.3	0.3	+	0	0	0	0	2.1	0	+	0.05
7	0.7	0.2	0.3	+	0	0	0	0	2.1	0	+	0.05
8	0.3	0.2	0.3	+	0	0	0	0	2.0	0	0	0.05
9	0.2	0.2	0.3	+	0	0	0	0	1.9	0	0	0.05
10	0.2	0.2	0.4	0	0	0	+	0	1.9	0	0.1	0.05
11	0.2	0.2	0.4	0	0	0	+	0	1.9	0	0.1	0.05
12	0.2	0.3	0.3	0	0	0	0	0	2.2	0	+	0.05
13	0.2	0.2	0.3	0	0	0	0	0	2.4	0	E 2.2	0.05
14	0.1	0.2	0.3	0	0	0	0	0	2.4	0	E 0.5	0.05
15	E 0	0.2	E 0.1	0	0	0	0	0	2.2	0	E 1.0	0.05
16	0	0.2	E 0.1	0	0	0	0	0	2.2	0	E 0.5	0.05
17	0.7	0.2	0	0	0	0	0	0	2.1	0	E 0	0.05
18	0.3	0.2	0	0	0	0	0	0	2.1	0	E 0.1	0.05
19	0.2	0.2	0	0	0	0	0	0	1.9	0	E 0.5	0.05
20	0.2	0.2	0	0	0	0	0	0	2.0	0	E 0.5	0.05
21	0.2	0.2	0	0	0	0	0	1.2	2.0	1.2	E 0.1	0.05
22	0.2	0.2	0	0	0	0	0	1.4	1.8	1.3	E 0.05	0.05
23	0.1	0.2	0	0	0	0	0	1.4	1.8	0.5	0.05	0.05
24	0.2	0.2	0	0	0	0	0	1.4	1.9	1.4	0.05	0.05
25	0.4	0.2	0	0	0	0	0	1.8	1.7	1.5	0.05	0.05
26	0.2	0.2	+	0	0	0	0	2.4	1.0	0.9	0.05	0.05
27	0.1	0.2	+	0	0	0	0	2.4	0.6	0.3	0.05	0.05
28	0.4	0.2	+	0	0	0	0	2.4	0.5	0.1	0.05	0.05
29	0.2	0.2	+	0		0	0	2.4	0.2	E 0.1	0.05	0.05
30	0.1	E 0.2	+	0		0	0	2.3	0	E 0.05	0.05	0.05
31	E 0.3			0		0		2.3		E 0.05	0.05	
	16.6	6.2	4.5	+	0	0	+	21.4	54.3	7.4	6.6	1.5
Mean	0.54	0.21	0.15	+	0	0	+	0.69	1.81	0.24	0.21	0.05
Acre-Feet	33.	12.	8.9	+	0	0	+	42.	108.	15.	13.	3.0

Remarks: E = estimated. + = 0.03 or less. Interpolated subsequent to August 22.

Year or Period Mean 0.32 Acre-Feet 235

STATION F274-R

DALTON WASH at Merced Avenue

LOCATION:

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

DRAINAGE AREA:

28. square miles.

CHANNEL AND CONTROL:

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

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed November 11, 1940 over a 24 inch diameter iron pipe stilling well.
An H.C.F. continuous recorder was in service from October 1, 1941 to September 30, 1942.

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, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 230 second-feet, December 10.
Minimum no flow part of year.
1940-1942
Maximum 674 second feet, March 13, 1941
Minimum no flow at various times.

ACCURACY:

Fair.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F274-R

DISCHARGE MEASUREMENTS OF DALTON WASH

AT Merced Avenue DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
63	10-23	350P 400P	Brewster	9.0	1.97	0.96	1.30	1.9		.6	5	0	FC 12
64	11-6	422P 430P	"	9.0	2.25	0.89	1.28	2.0		.6	5	0	"
65	11-13	414P 420P	"	8.0	1.40	0.52	1.15	0.73		.6	4	0	"
66	11-21	405P 415P	"	13.0	2.98	1.01	1.35	3.0		.6	4	0	"
67	11-27	349P 355P	"	8.0	1.40	0.71	1.24	1.0		.6	4	0	"
68	12-11	329P 335P	"	7.0	1.29	1.00	1.33	1.3		.6	4	0	"
69	12-18	320P 327P	"	8.0	1.64	0.79	1.37	1.3		.6	4	0	"
70	12-26	320P 330P	"	10.0	2.36	1.10	1.42	2.6		.6	5	-.01	"
71	12-29	1000A 1010A	"	15.0	7.31	1.90	1.62	13.9		.6	5	-.01	"
72	12-30	1230P 1236P	"	6.0	1.32	0.98	1.36	1.3		.6	3	0	"
73	1-2	345P 350P	"	3.0	0.46	0.52	1.26	0.24		.6	3	-.01	"
74	1-15	345P 348P	"	2.0	0.22	0.55	1.24	0.12		.6	2	0	"
75	1-22	434P 440P	"	8.0	1.48	0.88	1.38	1.3		.6	4	0	"
76	1-29	436P 440P	"	2.0	0.24	0.25	1.25	0.06		.6	2	0	"
77	2-21	625P 635P	Brewster-Smith	22.0	6.22	1.46	1.62	9.1		.6	6	0	"
78	2-26	352P 400P	Brewster	8.0	1.52	0.79	1.44	1.2		.6	4	0	"
79	3-5	320P 330P	"	8.0	1.72	0.81	1.41	1.4		.6	4	0	"
80	3-12	408P 416P	"	8.0	1.54	0.91	1.41	1.4		.6	5	0	"
81	3-14	527P 542P	Brewster-Smith	30.0	32.6	4.72	2.36	154.		.6	8	+.05	"
82	3-19	405P 415P	Brewster	8.0	1.60	0.94	1.44	1.5		.6	4	0	"
83	3-26	419P 425P	"	8.0	1.64	0.85	1.41	1.4		.6	4	0	"
84	4-9	435P 441P	"	7.0	1.57	0.76	1.39	1.2		.6	4	0	"
85	4-16	415P 425P	"	8.0	1.52	0.86	1.41	1.3		.6	4	0	"

F.C. Dist. Form 52 3-41

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 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.8	3.0	0.3	0.1	0	0	0.2	0	0	0	0
2	0	0.2	0.7	0.4	+	0	0	0.7	0	0	0	0
3	0	2.0	1.4	0.3	0.2	0	0	0.7	0	0	0	0
4	0	5	0.9	0.3	1.0	1.3	3.0	0.5	0	0	0	0
5	0	3.4	4.8	0.5	0.2	2.2	0.3	1.0	0	0	0	0
6	0	2.2	1.1	0.3	1.2	3.0	1.2	0.9	0	0	0	0
7	0	1.5	3.4	0.3	2.6	2.6	0	0.3	0	0	0	0
8	0	2.2	4.5	0.2	1.5	1.9	+	0.2	0	0	0	0
9	0	1.5	5	0.3	1.1	1.8	2.5	0.6	0	0	0	0
10	0	0.6	4.2	0.1	0.9	2.8	3.0	+	0	0	0	0
11	0	0.8	1.1	+	1.0	5.5	2.2	0.4	0	0	0	0
12	0	2.6	3.0	0	0.7	3.7	1.4	+	0	0	0	0
13	0	2.6	3.7	0	0.2	3.7	1.2	0	0	0	0	0
14	0	3.0	2.6	0	0.6	17	3.7	0.1	0	0	0	0
15	0	3.4	1.2	0.1	2.2	1.0	2.6	0.2	0	0	0	0
16	0	4.1	1.2	0.1	1.9	1.2	1.5	0.4	0	0	0	0
17	0	0.8	1.4	0.1	0	0.6	1.4	0	0	0	0	0
18	0	0.5	1.2	0.1	0	1.9	1.0	+	0	0	0	0
19	0	1.4	1.1	+	0	2.2	0.8	0	0	0	0	0
20	0	0.2	+	+	0	1.9	0.8	0	0	0	0	0
21	1.3	1.2	0.2	0.8	6.5	1.9	0.7	0	0	0	0	0
22	11	1.5	0.6	1.4	4.5	1.9	0	+	0	0	0	0
23	1.9	1.2	4.1	0.4	+	1.4	0.4	0	0	0	0	0
24	1.4	1.0	2.6	0	0.2	0.6	0.2	0	0	0	0	0
25	1.4	1.2	4.5	0	1.5	0.7	0.5	0	0	0	0	0
26	1.5	1.9	5.5	0	1.0	1.0	0.1	0	0	0	0	0
27	3.4	2.6	1.9	0	+	1.4	0.3	0	0	0	0	0
28	3.7	2.4	12	0	0	0.8	+	0	0	0	0	0
29	3.0	4.3	2.3	+		0.8	0.3	0	0	0	0	0
30	1.7	4.1	1.4	0.1		0.7	0.1	0	0	0	0	0
31	0.2		1.0	0.2		0		0		0	0	
	305	602	1401	63	291	655	292	62	0	0	0	0
Mean	0.98	2.01	4.52	0.20	1.04	2.11	0.97	0.20	0	0	0	0
Acre-Feet	60.	119.	278.	12.	58.	130.	58.	12.	0	0	0	0

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

Year or Period Mean 1.01
Acre-Feet 727

STATION F111B-R

BIG TUJUNGA CREEK above Edison Road

LOCATION:

On the right (northwest) bank 400 feet above Edison Road, about 4 miles above Big Tujunga Dam No. 1. Former Station F111R was about 300 feet downstream from F111B-R.

DRAINAGE AREA:

67 square miles.

CHANNEL AND CONTROL:

Channel-gravel and boulders.
No artificial control.

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed on November 30, 1930 at Station F111R; removed August 17, 1932.
Installed on September 15, 1932 at Station F111B-R over a 24 inch diameter corrugated iron pipe stilling well.
An Au continuous recorder was in service from October 1, 1941 to September 30, 1942.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

At Station F111R
November 30, 1930 to August 17, 1932.
At Station F111B-R
September 15, 1932 to September 30, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 112. second-feet, December 10.
Minimum 0.5 second-foot, August 5.
1930-1942 (Stations F111R and F111B-R)
Maximum not determined March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Good at low flows.
Poor at high flows.
Flows occasionally estimated due to recorder clock failure.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F111B-R

DISCHARGE MEASUREMENTS OF A BIG TUJUNGA CREEK

AT above Edison Road DURING THE YEAR ENDING SEPTEMBER 30, 1942

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
301	10-2	900A 915A	Turner	22.0	8.93	0.74	5.70	6.6		.6	12	0	FC 5
302	10-22	240P 255P	"	22.0	11.0	1.04	5.88	11.5		.6	11	0	"
303	10-28	1215P 1230P	"	23.0	11.6	1.06	5.88	12.3		.6	12	0	"
304	11-13	915A 930A	"	23.0	10.8	0.90	5.75	9.7		.6	12	0	"
305	11-19	1000A 1015A	"	23.0	10.6	0.84	5.76	8.9		.6	12	0	"
306	11-27	910A 925A	"	7.7	5.72	1.52	5.75	8.7		.6	9	0	"
307	12-4	1205P 1220P	"	7.9	6.74	1.87	5.84	12.6		.6	9	0	"
308	12-10	755P 810P	"	34.0	40.2	2.51	6.80	101.		.6	9	-.03	"
309	12-18	1000A 1015A	"	8.0	6.88	1.92	5.83	13.2		.6	9	0	"
310	12-26	120P 130P	"	8.0	7.04	2.03	5.85	14.3		.6	9	0	"
311	12-29	1205P 1225P	"	32.0	22.9	2.52	6.43	57.8		.6	16	0	"
312	1-8	935A 950A	"	8.0	7.74	2.27	5.92	17.6		.6	9	0	"
313	1-15	1030A 1045A	"	Two Channels			5.88	13.9		.6	12	0	"
314	1-22	925A 940A	"	8.0	6.94	2.10	5.85	14.6		.6	9	0	"
315	1-29	950A 1000A	Turner-Blakely	23.0	9.20	1.21	5.83	11.1		.6	11	0	"
316	2-11	1215P 1227P	Turner	7.8	6.00	1.78	5.78	10.7		.6	9	0	"
317	2-19	1015A 1030A	"	Three Channels			5.77	9.8		.6	13	0	"
318	2-26	1055A 1110A	"	7.8	6.84	2.05	5.86	14.0		.6	9	0	"
319	3-11	1105A 1115A	"	7.8	7.13	1.75	5.85	12.5		.6	9	0	"
320	3-17	1135A 1155A	"	19.0	9.90	1.59	5.91	15.7		.6	12	0	"
321	3-26	920A 935A	"	Three Channels			5.80+	9.5		.6, est	11	0	"
322	3-26	225P 240P	"	18.7	7.39	1.27	5.80	9.4		.6	12	0	"
323	4-2	930A 945A	"	19.0	7.81	1.19	5.75	9.3		.6	11	0	"
324	4-9	1205P 1220P	"	19.0	7.93	1.20	5.76	9.5		.6	12	0	"
325	4-14	153P 205P	Turner	20.1	10.8	1.48	5.92	16.0		.6	13	0	FC 5
326	4-22	1020A 1035A	"	19.3	8.01	1.38	5.84	11.0		.6	13	0	"
327	4-30	1005A 1020A	"	19.0	6.66	1.34	5.79	8.9		.6	13	0	"
328	5-7	900A 915A	"	18.3	9.66	0.71	5.73	6.9		.6	13	0	"
329	5-14	815A 830A	"	18.8	9.33	0.72	5.72	6.7		.6	13	0	"
330	5-20	1015A 1030A	"	18.5	4.96	0.97	5.67	4.8		.6	12	0	"
331	5-27	1120A 1132A	"	7.3	4.51	1.22	5.66	5.5		.6	9	0	"
332	6-4	1017A 1032A	Blakely	13.6	3.73	1.29	5.66	4.8		.6	8	0	FC 44
333	6-11	940A 950A	"	13.0	3.05	1.08	5.62	3.3		.6	8	0	"
334	6-18	1140A 1150A	Luce	11.0	3.18	1.07	5.59	3.4		.6	7	0	FC 39
335	6-26	140P 150P	Luce-M. Luce	10.0	2.81	0.89	5.57	2.5		.6	7	0	"
336	7-2	955A 1005A	Turner	6.5	2.57	0.70	5.53	1.8		.6	8	0	FC 5
337	7-9	945A 955A	"	6.7	2.28	0.48	5.51	1.1		.6	8	0	"
338	7-23	910A 920A	"	6.5	2.03	0.49	5.50	1.0		.6	8	0	"
339	8-6	900A 910A	"	3.9	1.06	0.65	5.50	0.69		.6	8	0	"
340	8-13	1105A 1115A	Turner-Robertson	7.0	2.58	0.62	5.55	1.6		.6	7	0	"

F.C. Dist. Form 52 3-41

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 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6	10	9.5	28	10	13	9	8.5	5	1.6	0.7	E 1.0
2	6.5	10	9.5	24	11	12	9	8	4.6	1.6	0.7	0.9
3	6.5	10	14	21	11	12	9.5	7.5	4.4	1.6	0.7	0.9
4	6.5	10	13	21	11	12	15	7	4.2	1.4	0.7	0.9
5	6.5	10	11	20	11	12	12	7	3.8	1.4	0.6	0.9
6	6.5	9.5	10	19	11	13	12	6.5	3.8	1.3	0.6	0.9
7	6.5	9	10	18	11	13	11	6.5	3.6	1.3	0.6	0.9
8	7	9	9.5	18	11	12	10	6	3.6	1.1	0.6	0.9
9	6.5	9	9.5	18	11	12	10	6	3.3	1.0	1.4	0.9
10	6.5	9	46	17	11	12	12	6.5	3.1	1.0	5.5	0.9
11	6.5	9	31	16	11	12	15	7	3.1	1.0	2.0	0.9
12	7	10	18	16	11	12	14	7	3.1	1.0	1.6	0.9
13	7	9.5	15	15	11	11	12	7	2.9	1.0	1.6	0.9
14	6.5	9	14	14	11	14	15	7	2.9	1.0	E 1.5	0.9
15	6.5	9	14	14	10	16	13	6.5	3.1	1.0	1.5	0.9
16	6.5	9	14	14	10	16	11	6.5	3.1	1.0	1.4	0.9
17	6.5	9	13	14	10	15	13	6	3.3	1.0	1.3	0.9
18	6.5	9	13	14	10	15	12	5.5	3.1	1.0	1.3	0.9
19	7	9	13	14	10	14	9.5	5	2.7	1.0	1.2	0.9
20	9	9	13	14	10	12	9	4.4	2.7	1.0	1.2	0.9
21	10	8.5	13	14	16	12	10	4.2	2.3	1.0	1.2	0.9
22	12	8.5	13	15	28	11	11	4.4	2.2	1.0	1.1	0.9
23	12	8.5	14	14	17	11	10	5	2.2	1.0	1.1	0.9
24	13	8.5	14	13	15	11	9	5	2.0	1.0	1.1	0.9
25	12	8.5	14	13	14	10	9	5.5	2.2	0.9	1.1	E 0.9
26	11	8.5	14	12	14	9.5	9	5.5	2.3	0.9	1.0	0.9
27	13	8.5	14	12	14	9.5	8.5	5.5	2.3	0.8	1.0	0.9
28	12	8.5	23	12	14	9	9.5	5.5	2.2	0.8	1.0	0.9
29	11	9	57	11		9	9	5.5	1.9	0.8	1.0	0.9
30	11	10	42	11		9	8.5	5.5	1.7	0.8	1.0	0.9
31	11		33	10		9		5.5		0.8	E 1.0	
	262.0	274.0	551.0	486	345	370.0	326.5	188.5	90.7	33.1	38.3	27.1
Mean	8.45	9.13	17.8	15.7	12.3	11.9	10.9	6.08	3.02	1.07	1.24	0.90
Acre-Feet	520.	543.	1090.	962.	684.	734.	648.	374.	180.	66.	76.	54.

Remarks: E = estimated.

Year or Period — Mean 8.20 — Acre-Feet 5930

STATION F168R

BIG TUJUNGA CREEK below Big Tujunga Dam No. 1

LOCATION:

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

DRAINAGE AREA:

81.7 square miles.

CHANNEL AND CONTROL:

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

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed on November 8, 1932. Washed out during the March 2, 1938 storm.
Installed on May 31, 1938 in a concrete house over a 4 ft. x 4 ft. concrete well at approximately the same location as the old well.
An Au continuous recorder was in service from October 1, 1941 to September 30, 1942.

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, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 47. second-feet, December 31.
Minimum 1.0 second-foot at various times.
1932-1942
Maximum 33000 second-feet, estimated, March 2, 1938.
Minimum no flow several days in October, 1936.

ACCURACY:

Fair.
Due to excessive silt content, during periods of sluicing at the dam, communication to stilling well was unreliable. Channel filled and scoured several feet following sluicing.
Flows frequently estimated or interpolated between measurements.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F168-R

DISCHARGE MEASUREMENTS OF BIG TUJUNGA CREEK

at below Big Tujunga Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
632	10-2	300P 315P	Turner	12.0	5.46	2.84	10.03	15.5		.6	12	0	FC 5
633	10-9	1050A 1105A	"	11.5	5.51	2.79	10.44	15.4		.6	11	0	"
634	10-16	1055A 1110A	"	10.3	4.99	3.25	10.24	16.2		.6	11	0	"
635	10-22	110P 125P	"	9.3	5.34	2.78	"	14.8		.6	9		"
636	10-28	905A 920A	"	9.5	5.41	2.70	"	14.6		.6	9		"
637	11-3	930A	Robertson-Jamison	19.0	7.40	3.68	"	27.2		.6	10		FC 23
638	11-6	845A 900A	Turner	18.0	6.60	4.26	"	28.1		.6	9		FC 5
639	11-10	1000A	Robertson	15.5	7.73	4.10	"	31.7		.6	8		FC 23
640	11-10	1230P	"	17.0	7.95	4.52	"	35.9		.6	9		"
641	11-13	305P 315P	Turner	16.0	7.82	4.23	10.22	33.1		.6	8	0	FC 5
642	11-19	240P 255P	"	Three Channels			"	20.0		.6	15		"
643	11-27	225P 235P	"	5.0	1.48	0.74	10.13	1.1		.6	5	0	"
644	12-4	925A 935A	"	Two Channels			10.17	0.95		.6	5		"
645	12-17	1000A	Robertson	11.5	4.59	2.55	"	11.7		.6	6		FC 23
646	12-18	215P 230P	Turner	Two Channels			"	13.4		.6	15		FC 5
647	12-26	325P 340P	"	10.0	5.02	2.37	"	11.9		.6	10		"
648	12-30	1230P	Robertson	26.5	11.4	3.71	"	42.3		.6	14		FC 23
649	12-31	1055A 1110A	Turner	16.6	10.1	4.68	10.18	47.3		.6	10		FC 5
650	1-6	910A 930A	Robertson-Buckmeyer	15.0	7.31	3.78	"	27.6		.6	8		FC 23
651	1-6	1040A 1055A	"	13.5	5.40	3.17	"	17.1		.6	7		"
652	1-8	125P 140P	Turner	10.7	6.17	2.85	"	17.6		.6	11		FC 5
653	1-15	140P 155P	"	9.5	5.25	3.01	"	15.8		.6	10		"
654	1-22	230P 245P	"	10.5	6.65	2.62	"	17.4		.6	11		"
655	1-29	152P 206P	Blakely-Turner	10.5	6.73	2.51	"	16.9		.6	10		"
656	2-5	115P 127P	Turner-Robertson	9.5	3.65	2.44	8.48	8.9		.6	9	0	FC 5
657	2-5	225P 235P	Turner	9.5	3.99	2.96	8.52	11.8		.6	10	0	"
658	2-11	1020A 1030A	"	9.5	3.69	1.92	8.45	7.1		.6	10	0	"
659	2-19	305P 320P	"	9.5	3.83	2.04	8.45	7.8		.6	10	0	"
660	2-22	1040A 1100A	Robertson	13.4	7.24	4.34	8.94	31.4		.6	7	0	FC 23
661	2-22	1210P 1225P	"	17.5	6.90	3.72	8.89	25.7		.6	9	0	"
662	2-24	1000A	Ealy-Robertson	11.0	4.11	3.53	9.58	14.5		.6	6	0	"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F168-R

DISCHARGE MEASUREMENTS OF BIG TUJUNGA CREEK

at below Big Tujunga Dam DURING THE YEAR ENDING SEPTEMBER 30, 1942

NO.	DATE	BEGIN	END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
663	2-26	220P	235P	Turner	12.5	5.63	3.41	*	19.2		.6	9	0	FC 5
664	3-5	250P	300P	"	7.8	2.58	0.93	8.29	2.4		.6	8	0	"
665	3-11	925A	935A	"	7.5	2.38	1.01	8.28	2.4		.6	8	0	"
666	3-19	1040A	1050A	"	7.3	2.14	1.03	8.28	2.2		.6	8	0	"
667	3-26	335P	345P	"	7.5	2.15	1.02	8.26	2.2		.6	8	0	"
668	4-2	335P	350P	"	20.5	7.16	2.75	8.82	19.7		.6	11	0	"
669	4-9	310P	320P	"	6.0	1.48	1.15	8.14	1.7		.6	7	0	"
670	4-16	1020A	1030A	"	5.7	1.61	1.12	8.16	1.8		.6	7	0	"
671	4-22	100P	110P	"	5.6	1.58	1.20	8.19	1.9		.6	7	0	"
672	4-28	130P	145P	Robertson	8.0	3.68	2.94	8.33	10.8		.6	9	0	FC 23
673	4-30	320P	330P	Turner	7.0	2.35	2.13	8.22	5.0		.6	8	0	FC 5
674	5-1	930A	945A	Robertson	9.0	3.97	2.65	8.30	10.5		.6	9	0	FC 23
675	5-7	320P	335P	Turner	9.4	4.06	3.00	8.32	12.2		.6	9	0	FC 5
676	5-14	230P	245P	"	9.5	4.92	2.76	8.32	13.6		.6	10	0	"
677	5-21	1040A	1055A	"	8.5	3.65	3.01	8.24	11.0		.6	9	0	"
678	5-22	145P	205P	Ealy	8.0	3.17	2.11	8.14	6.7		.6	8	0	FC 23
679	5-27	310P	320P	Turner	7.7	2.50	2.12	8.12	5.3		.6	8	0	FC 5
680	6-4	520P	526P	Blakely	7.6	2.51	1.75	8.12	4.4		.6	6	0	FC 44
681	6-11	322P	348P	"	7.8	2.60	1.69	8.12	4.4		.6	8	0	"
682	6-13	200P	215P	Ealy	8.0	2.50	1.76	8.12	4.4		.6	8	0	FC 23
683	6-14	215P	230P	Blakely-Young	7.9	2.48	1.73	8.12	4.3		.6	9	0	FC 44
684	6-14	245P	310P	Young-Blakely	8.0	2.76	1.70	8.12	4.7		.6	10	0	"
685	6-14	330P	338P	Blakely-Young	8.3	2.81	1.78	8.12	5.0		.6	10	0	"
686	6-14	350P	407P	"	8.3	2.91	1.72	8.12	5.0		.6	15	0	"
687	6-18	500P	510P	Luce	8.5	3.02	1.99	8.12	6.0		.6	9	0	FC 39
688	6-26	305P	315P	"	8.5	3.08	1.82	8.12	5.6		.6	8	0	"
689	7-2	518P	528P	Turner	8.0	2.52	1.82	8.11	4.6		.6	8	0	FC 5
690	7-9	800A	815A	"	10.0	3.28	1.37	8.10	4.5		.6	10	0	"
691	7-16	355P	410P	"	10.0	3.36	1.43	8.11	4.8		.6	10	0	"
692	7-23	340P	350P	"	8.3	2.75	1.71	8.11	4.7		.6	8	0	"
693	7-30	255P	310P	"	11.0	3.82	1.23	8.11	4.7		.6	11	0	"
694	7-30	320P	335P	"	17.0	3.31	1.27	8.11	4.2		.6	9	0	"
695	7-30	345P	355P	"	8.3	2.75	1.67	8.11	4.6		.6	8	0	"
696	8-6	235P	245P	"	10.5	3.58	1.37	8.12	4.9		.6	10	0	"
697	8-6	310P	320P	"	9.3	3.45	1.45	8.12	5.0		.6	10	0	"
698	8-13	855A	910A	"	14.8	6.58	2.39	8.37	15.7		.6	12	-.02	"
699	8-13	1215P	1230P	Turner-Robertson	13.8	5.60	2.14	8.30	12.0		.6	11	0	"
700	8-17	915A	930A	Robertson	14.0	5.32	2.03	8.26	10.8		.6	12	0	FC 23
701	8-17	215P	230P	"	11.0	4.75	2.29	8.32	10.9		.6	11	0	"
702	8-18			Robertson-Ealy	11.0	4.89	2.47	8.32	12.1		.6	11	0	"
703	8-20	310P	325P	Turner	14.7	6.07	2.19	8.32	13.3		.6	12	0	FC 5
704	8-27	225P	240P	Turner	14.7	5.76	2.05	8.29	11.8		.6	11	0	FC 5
705	9-3	235P	250P	"	14.7	5.49	1.93	8.26	10.6		.6	11	0	"
706	9-10	245P	300P	"	11.4	5.01	2.02	8.27	10.1		.6	10	0	"
707	9-17	920A	935A	Turner	Two Channels			8.49	26.6		.6	15	0	"
708	9-17	1055A	1110A	"	12.0	6.34	3.38	8.46	21.4		.6	11	0	"
709	9-24	225P	240P	"	12.0	6.45	2.93	8.39	18.9		.6	10	0	"

*Water not reaching outside gage

F.C. Dist. Form 52 3-41

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, 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15.5	14.6	1.0	47	16.9	19.2	7.9	6.9	5.3	5.3	5.3	10.6
2	15.5	14.6	1.0	46	16.9	19.2	19.7	5.9	5.3	5.3	5.3	10.6
3	15.5	25	1.0	46	16.9	19.2	19.7	5.9	5.3	5.3	5.3	10.6
4	15.5	32	1.0	46	16.9	19.2	7.7	5.9	5.3	5.3	5.3	10.6
5	15.5	30	1.0	45	12.8	8.4	1.7	5.9	5.3	5.3	5.3	10.6
6	15.4	28	1.0	27	7.7	2.4	1.7	10.6	5.3	5.3	5.3	10.5
7	15.4	28	1.0	17.6	7.1	2.4	1.7	13.6	5.3	5.3	5.3	10.4
8	15.4	28	1.0	17.6	7.1	2.4	5.2	13.6	5.3	5.3	5.3	10.3
9	15.4	28	1.0	17.3	6.8	2.4	1.7	13.6	5.3	5.3	5.4	10.2
10	15.5	32	1.0	17.1	7.1	2.4	1.7	13.6	5.3	5.3	5.5	10.1
11	15.6	35	1.0	16.8	7.1	2.4	1.7	13.6	5.3	5.3	5.4	10.1
12	15.8	34	1.0	16.6	7.2	2.4	1.7	13.6	5.3	5.3	5.3	10.1
13	15.9	33	1.0	16.3	7.3	2.4	1.8	13.6	5.3	5.3	9.4	10.1
14	16.0	31	1.0	16.1	7.4	2.3	1.8	13.6	5.3	5.3	11.0	10.1
15	16.1	17.4	1.0	15.8	7.5	2.3	1.8	12.0	5.3	5.3	11.0	10.1
16	16.2	12.2	1.0	16.0	7.6	2.3	1.8	7.4	5.3	5.3	11.0	10.1
17	15.9	18.8	7.6	16.3	7.7	2.2	1.8	9.6	5.3	5.3	12.2	17.9
18	15.6	22.1	13.4	16.5	7.8	2.2	1.8	12.3	5.3	5.3	13.3	21.1
19	15.4	19.4	13.2	16.7	7.8	2.2	1.8	11.5	5.3	5.3	13.3	20.7
20	15.2	17.7	13.0	16.9	7.8	2.2	1.9	11.0	5.3	5.3	13.3	20.4
21	15.0	16.0	12.8	17.2	7.8	2.2	1.9	11.0	5.3	5.3	13.3	20.0
22	14.8	12.8	12.6	17.4	18.6	2.2	1.9	8.4	5.3	5.3	11.8	19.7
23	14.8	9.2	12.4	17.3	26	2.2	1.9	5.3	5.3	5.3	11.8	19.3
24	14.8	8.7	12.2	17.3	21	2.2	1.9	5.3	5.3	5.3	11.8	18.9
25	14.7	7.3	12.0	17.2	19.2	2.2	1.9	5.3	5.3	5.3	11.8	18.7
26	14.6	1.1	11.9	17.1	19.2	2.2	1.9	5.3	5.3	5.3	11.8	18.4
27	14.6	1.1	11.9	17.0	19.2	2.2	1.9	5.3	5.3	5.3	11.8	18.1
28	14.6	1.1	11.9	17.0	19.2	2.2	6.1	5.3	5.3	5.3	11.8	17.9
29	14.6	1.1	11.9	16.9		2.2	7.7	5.3	5.3	5.3	11.8	17.6
30	14.6	1.0	31	16.9		2.2	5.0	5.3	5.3	5.3	11.8	17.3
31	14.6		47	16.9		2.2		5.3		5.3	11.8	
	474.0	560.2	250.8	678.8	341.6	144.3	118.7	280.8	159.0	164.3	289.8	431.1
MEAN	15.3	18.7	8.09	21.9	12.2	4.65	3.96	9.06	5.3	5.3	9.35	14.4
ACRE-FEET	940.	1110.	497.	1350.	678.	286.	235.	557.	315.	326.	575.	855.

Remarks: See accuracy.

YEAR OR PERIOD MEAN 10.7
ACRE-FEET 7720.

STATION F213R

BIG TUJUNGA CREEK Above Gold Canyon

LOCATION:

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

DRAINAGE AREA:

106 square miles.

CHANNEL AND CONTROL:

Channel-composed of gravel and boulders.
Channel forms control.

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed in 1932 over a 36 inch corrugated iron pipe stilling well.
An Au continuous recorder was in service from October 1, 1941 to September 30, 1942.

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, 1942.
(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:

1941-1942
Maximum 165. second-feet, December 28.
Minimum 2.8 second-feet, August 7.
1932-1942
Maximum 50000 second-feet, estimated, March 2, 1938.
Minimum 0.8 second-foot November 18, 1936.

ACCURACY:

Fair.
Flows interpolated frequently due to recorder clock failure or loss of communication.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F213-R

DISCHARGE MEASUREMENTS OF BIG TUJUNGA CREEK

above Gold Canyon DURING THE YEAR ENDING SEPTEMBER 30, 1942

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
538	10-2	435P 450P	Turner	15.5	9.88	1.86	7.32	18.4		.6	10	0	FC 5
539	10-9	845A 900A	"	19.0	11.7	1.79	7.33	21.0		.6	10	0	"
540	10-12	1225P 1240P	"	17.5	11.6	1.84	7.28	21.4		.6	10	0	"
541	10-16	915A 930A	"	17.5	12.2	1.65	7.23	20.1		.6	10	0	"
542	10-22	1150A 1205P	"	26.5	12.1	2.01	7.74	24.3		.6	11	0	"
543	10-28	755A 810A	"	20.5	8.77	2.61	7.87	22.9		.6	9	0	"
544	10-28	815A 830A	"	20.5	8.92	2.49	7.87	22.2		.6	9	0	"
545	11-6	725A 740A	"	32.0	12.4	2.68	8.02	33.3		.6	10	0	"
546	11-13	720A 735A	"	30.0	13.4	3.01	8.12	40.3		.6	11	0	"
547	11-19	735A 750A	"	31.0	10.6	2.20	7.98	23.4		.6	11	0	"
548	11-27	415P 430P	"	12.5	3.50	1.43	7.82	5.0		.6	8	0	"
549	12-4	805A 813A	"	14.0	4.36	1.81	7.92	7.9		.6	8	0	"
550	12-10	140P 150P	"	33.0	23.0	3.96	8.43	91.0		.6	7	+.01	"
551	12-10	325P 340P	"	33.0	28.2	4.54	8.59	128.		.6	6	+.02	"
552	12-11	910A 925A	Turner	32.0	7.84	2.12	7.95	16.6		.6	8	0	FC 5
553	12-18	320P 335P	"	22.0	8.52	2.54	7.72	21.6		.6	11	0	"
554	12-26	405P 420P	"	24.0	7.99	2.52	7.74	20.1		.6	9	0	"
555	12-28	500P 515P	"	27.0	11.0	2.40	7.90	26.4		.6	7	0	"
556	12-28	750P 802P	"	30.0	22.0	3.97	8.20	87.3		.6	6	+.02	"
557	12-28	1015P 1025P	"	34.0	36.3	4.49	8.52	163.		.6	8	-.03	"
558	12-29	855A 905A	"	29.0	14.9	3.45	8.06	51.3		.6	8	+.01	"
559	12-30	200P 215P	"	31.0	15.7	3.33	8.07	52.3		.6	11	0	"
560	12-30	305P 320P	"	31.0	18.4	3.38	8.07	62.2		.6	11	0	"
561	12-31	125P 140P	"	31.0	18.9	3.25	8.07	61.4		.6	11	0	"
562	1-8	325P 340P	Turner	27.0	9.85	2.48	7.96	24.4		.6	10	0	FC 5
563	1-15	410P 425P	"	30.0	10.8	2.14	8.02	23.1		.6	10	0	"
564	1-22	400P 415P	"	29.0	9.78	2.41	8.05	23.6		.6	8	0	"
565	1-29	400P 425P	Blakely	29.4	10.3	2.47	8.05	25.4		.6	11	0	"
566	2-5	735A 750A	Turner	30.0	9.68	2.34	8.05	22.7		.6	8	0	"
567	2-11	830A 845A	"	28.0	7.05	1.70	8.02	12.0		.6	9	0	"
568	2-19	450P 505P	"	28.0	7.74	1.50	8.02	11.6		.6	10	0	"
569	2-21	1225P 1235P	"	29.0	8.28	1.75	8.06	14.5		.6	9	+.02	"
570	2-21	455P 505P	"	29.0	9.11	2.12	8.11	19.3		.6	9	0	"
571	2-26	435P 450P	"	29.0	10.6	2.29	8.06	24.3		.6	9	0	"
572	3-5	435P 450P	"	27.0	5.85	1.32	7.98	7.7		.6	8	0	"
573	3-11	750A 800A	"	29.0	5.61	1.42	8.01	9.4		.6	8	0	"
574	3-14	315P 325P	"	29.0	7.65	1.96	8.06	15.0		.6	8	+.01	"
575	3-14	452P 510P	Blakely-Turner	29.7	8.76	2.32	8.14	20.3		.6	14	0	"
576	3-17	345P 400P	Turner	17.0	4.12	1.80	7.94	7.4		.6	9	0	"
577	3-19	840A 855A	"	21.5	4.69	1.34	7.92	6.3		.6	12	0	"
578	3-26	520P 530P	"	17.5	4.07	1.40	7.83	5.7		.6	10	0	"
579	4-2	515P 525P	"	28.0	10.8	2.20	8.06	23.8		.6	8	0	"
580	4-4	235A 245A	"	28.0	12.8	2.79	8.09	35.7		.6	8	0	"
581	4-7	845A 900A	"	8.0	3.22	2.20	7.74	7.1		.6	9	0	"
582	4-9	435P 450P	"	17.0	3.96	1.44	7.73	5.7		.6	9	0	"
583	4-14	955A 1007A	"	23.0	6.04	1.72	7.87	10.4		.6	9	0	"
584	4-14	1130A 1140A	"	23.0	6.67	1.86	7.90	12.4		.6	8	0	"
585	4-16	845A 900A	"	17.5	4.42	1.56	7.81	6.9		.6	9	0	"
586	4-22	720A 735A	Turner	17.0	4.01	1.70	7.75	6.8		.6	10	0	FC 5
587	4-30	438P 450P	"	18.0	4.77	1.74	7.78	8.3		.6	9	0	"
588	5-7	425P 440P	"	13.5	6.94	2.19	7.81	15.2		.6	11	0	"
589	5-14	415P 430P	"	22.0	7.06	2.14	7.87	15.1		.6	12	0	"
590	5-21	840A 855A	"	22.5	6.94	1.74	7.82	12.1		.6	11	0	"
591	5-27	425P 440P	"	17.0	4.40	1.50	7.77	6.6		.6	9	0	"
592	6-4	638P 646P	Blakely	13.0	3.00	1.80	7.87	5.4		.6	7	0	FC 44
593	6-11	504P 513P	"	13.2	4.78	1.69	7.87	8.1		.6	9	0	"
594	6-18	625P 635P	Luce	10.1	3.88	1.62	7.71	6.3		.6	8	0	FC 39
595	6-26	435P 445P	Luce-M. Luce	9.5	3.77	1.67	7.61	6.3		.6	8	+.01	"
596	7-2	620P 635P	Turner	12.2	3.26	1.44	7.58	4.7		.6	13	0	FC 5
597	7-9	445P 500P	"	11.5	3.35	1.34	7.53	4.5		.6	12	0	"
598	7-16	510P 525P	"	11.5	3.55	1.32	7.55	4.7		.6	12	0	"
599	7-23	510P 520P	"	12.0	3.66	1.28	7.47	4.7		.6	7	0	"
600	7-30	455P 505P	"	9.0	2.62	1.53	7.44	4.0		.6	9	0	"
601	8-6	445P 455P	"	8.5	2.69	1.60	7.42	4.3		.6	9	0	"
602	8-13	735A 750A	"	15.5	4.06	1.35	7.49	5.5		.6	9	0	"
603	8-20	445P 500P	"	17.0	6.74	1.87	7.52	12.6		.6	9	0	"
604	8-27	405P 420P	"	18.0	7.12	1.63	7.51	11.6		.6	10	0	"
605	9-3	415P 430P	"	21.0	6.61	1.63	7.61	10.8		.6	10	0	"
606	9-10	428P 443P	"	20.0	6.41	1.56	7.52	10.0		.6	11	0	"
607	9-24	430P 445P	"	18.5	9.63	2.10	7.55	20.1		.6	9	0	"

F.C. Dist. Form 92 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

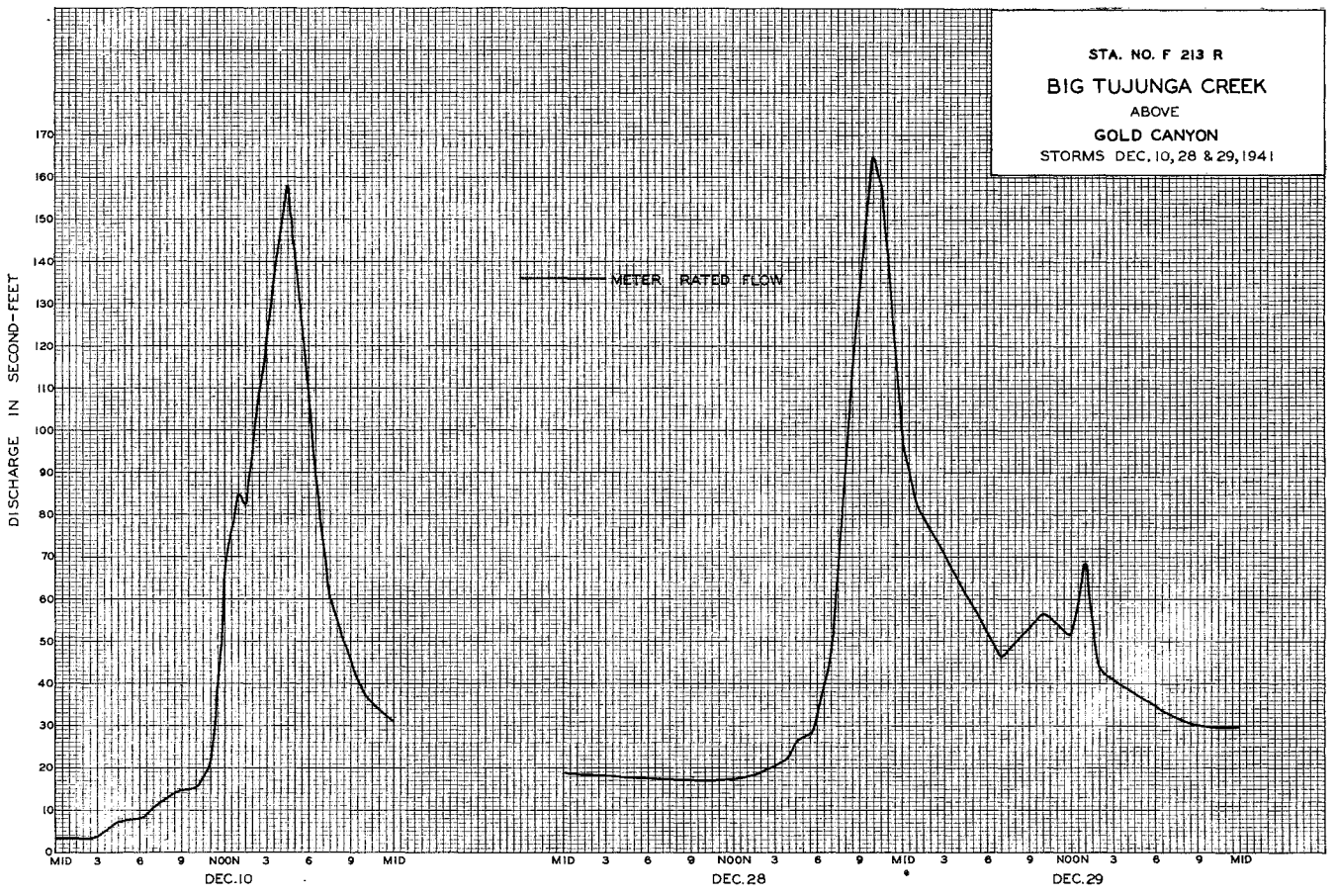
Sta. No. F213-R

Daily discharge, in second-feet of BIG TUJUNGA CREEK above Gold Canyon, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	E 18	21	E 5	E 60	25	23	8	E 10	6.5	5.5	5.5	11
2	18	20	E 5	E 59	24	22	24	E 9.5	6	4.8	4.8	11
3	18	26	8	E 57	23	21	24	E 9.5	6.5	6.5	5.5	11
4	18	33	7.5	E 56	23	19	22	E 9.5	5.5	6	5.5	10
5	19	33	7.5	E 55	20	14	12	E 9.5	4.8	6	6	10
6	19	33	7.5	39	17	7.5	10	E 12	5.5	6	4.4	10
7	20	33	7	E 24	14	5.5	7	15	5.5	4.4	4.4	10
8	21	34	6.5	E 24	13	4.8	9	17	6	4.8	4.4	10
9	21	35	6	E 24	12	4.4	6	18	6	4.6	8	11
10	21	37	4.8	E 24	12	5.5	8.5	16	6	4.8	14	11
11	21	40	17	E 24	E 12	7	8	14	6.5	6	5.5	11
12	22	40	14	E 23	E 12	4.4	8	14	E 6.5	5.5	4.8	11
13	22	41	12	E 23	E 12	4.4	7.5	16	E 6.5	4.8	9	9
14	21	40	E 9	E 23	E 12	11	11	15	E 6.5	4.8	12	10
15	21	33	E 8.5	23	E 12	12	8.5	E 14	E 6.5	4.8	13	11
16	20	24	E 8	23	E 12	8.5	7	E 9.5	E 6.5	4.8	13	10
17	19	22	14	24	E 12	7.5	8	E 10	E 6.5	4.8	13	16
18	18	24	22	E 24	E 12	7	8	E 13	E 7	5.5	15	22
19	21	24	24	E 24	12	6	7.5	E 13	7.5	5.5	15	22
20	24	22	24	E 24	12	6	6	E 12	7	5.5	14	20
21	26	20	18	E 24	18	5.5	5.5	12	6.5	6	14	21
22	24	18	15	E 24	34	5.5	7	11	6.5	6	13	21
23	24	13	19	23	36	5.5	6.5	8	6.5	6.5	10	20
24	25	10	21	E 23	30	5.5	6	7	6	6	10	21
25	24	7	21	E 24	25	5.5	6	6	6.5	6	11	21
26	24	5	20	E 24	24	6.5	6	6	6.5	4.8	12	20
27	24	5	19	E 24	26	6.5	5.5	7	5.5	4.8	12	19
28	22	E 5	42	E 25	25	6	9	7	4.8	4.4	11	19
29	22	E 5	50	E 25		5.5	13	7.5	6.5	4.8	10	18
30	22	E 5	45	26		5.5	8.5	7	6	4.8	10	18
31	21		62	25		5.5		7.5		4.8	11	
	660	708	592.5	924	521	263.5	283.0	342.5	186.6	164.5	300.8	445
Mean	21.3	23.6	19.1	29.8	18.6	8.50	9.43	11.0	6.22	5.31	9.70	14.8
Acre-Feet	1310.	1400.	1180.	1830.	1030.	523.	561.	679.	370.	326.	597.	883.

Remarks: E = estimated or interpolated.

Year or Period — Mean 14.8 — Acre-Feet 10690



STATION F20B-R

TUJUNGA WASH at Glen Oaks Boulevard

LOCATION:

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

DRAINAGE AREA:

148 square miles.

CHANNEL AND CONTROL:

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

DISCHARGE MEASUREMENTS:

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 Remsen Avenue, July 25, 1940 over a 21 inch corrugated iron pipe stilling well. H.C.F. recorder was in service from October 1, 1941 to September 30, 1942.

REGULATION:

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

DIVERSIONS:

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

RECORDS AVAILABLE:

January 1931 to April 1932 random measurements available. Recorder records from April 29, 1932 to December 31, 1933. No communication from December 31, 1933 to March 9, 1934, random measurements available. Recorder records from March 9, 1934 to March 2, 1938. From March 2, 1938 to July 25, 1940 random measurements available. Recorder records from July 25, 1940 to September 30, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 59. second-feet, December 30.
Minimum no flow most of year.
1932-1942 at Station F20R and F20B-R.
Maximum 54000 second-feet, estimated, March 2, 1938
Minimum no flow part of each year.

ACCURACY:

Fair.
Low flows occasionally estimated due to sand obstructing communication.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F20B-R

DISCHARGE MEASUREMENTS OF TUJUNGA WASH

AT Glen Oaks Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 1942

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
202	10-2	1250P 105P	Luce	20.0	15.2	0.60	0.88	9.1		.6	10	0	FC 39
203	10-6	250P 300P	U.S.E.D.	7.8	5.72	1.44	0.88	8.2		.6	8	-.01	35549
204	10-9	920A 930A	Luce	18.5	14.0	0.57	0.88	8.0		.6	10	0	FC 39
205	10-13	235P 245P	U.S.E.D.	7.8	2.86	1.79	0.76	5.2		.6	8	0	35632
206	10-13	245P 255P	"	8.5	3.00	1.80	0.76	5.4		.6	8	0	"
207	10-15	930A 945A	Luce	17.5	12.6	0.44	0.80	5.6		.6	10	0	FC 39
208	10-20	235P 245P	U.S.E.D.	8.0	3.67	2.11	0.83	7.7		.6	8	0	35549
209	10-20	245P 256P	"	8.0	3.65	1.95	0.83	7.1		.6	7	0	"
210	10-23	915A 925A	Luce	8.0	7.06	1.69	0.92	11.9		.6	7	0	FC 39
211	10-23	1145A 1210P	U.S.G.S.	18.0	11.2	0.90	0.92	10.1		.6	21	0	1677
212	10-27	145P 200P	U.S.E.D.	8.0	6.45	1.67	0.96	10.8		.6	8	0	
213	10-30	905A 918A	Luce	8.0	7.51	1.64	0.95	12.3		.6	6	0	FC 39
214	11-3	1050A 1105A	U.S.E.D.	26.8	14.2	1.18	1.09	16.7		.6	11	0	US 6
215	11-3	1105A 1122A	"	26.8	14.6	1.51	1.09	22.0		.6	10	0	"
216	11-3	247P 305P	"	30.5	23.4	1.08	1.19	25.2		.6	9	-.01	35632
217	11-3	305P 315P	"	30.5	23.6	1.00	1.13	23.7		.6	9	-.01	"
218	11-3	550P 610P	"	30.0	26.7	0.99	1.24	26.5		.6	14	0	US 6
219	11-4	235P 252P	"	24.6	17.0	1.30	1.20	22.1		.6	11	0	"
220	11-4	252P 311P	"	24.6	16.7	1.43	1.20	23.9		.6	12	0	"
221	11-7	213P 231P	"	28.5	17.5	1.51	1.21	26.5		.6	13	0	"
222	11-7	316P 336P	"	32.0	25.0	1.68	1.44	42.2		.6	13	0	"
223	11-10	206P 218P	"	27.5	17.7	1.36	1.19	24.1		.6	10	0	"
224	11-10	218P 228P	"	27.5	17.7	1.34	1.19	23.7		.6	10	0	"
226	11-17	1005A 1025A	U.S.G.S.	17.6	12.1	1.15	1.03	13.9		.6	18	0	1677
227	11-17	300P 311P	U.S.E.D.	19.0	11.6	1.11	1.00	12.9		.6	8	0	US 6
228	11-17	311P 320P	"	19.0	11.6	1.09	1.00	12.7		.6	8	0	"
229	11-19	1210P 1225P	Luce	24.0	21.9	0.88	1.12	19.3		.6	12	0	FC 39
230	11-24	146P 200P	U.S.E.D.	17.8	7.2	0.72	0.80	5.2		.6	8	0	US 8
231	12-11	915A 935A	U.S.G.S.	19.4	11.9	1.29	1.04	15.3		.6	22	0	1677
232	12-11	1120A 1130A	Luce	18.0	22.0	0.60	1.05	13.1		.6	9	0	FC 39
233	12-11	230P 240P	U.S.E.D.	19.5	10.9	1.54	1.04	16.8		.6	10	0	US 8
234	12-11	300P 325P	"	20.6	15.0	1.85	1.29	27.8		.6	10	0	"
235	12-12	400P 415P	"	59.5	33.8	1.15	1.44	39.0		.6	16	-.01	"
236	12-15	300P 318P	"	20.2	9.08	0.45	0.72	4.1		.6	11	0	"
237	12-15	318P 333P	"	20.2	8.86	0.49	0.71	4.3		.6	12	-.01	"
238	12-18	450P 505P	Luce	15.0	14.6	0.24	0.75	3.5		.6	7	0	FC 39
239	12-22	232P 245P	U.S.E.D.	19.5	10.5	0.81	0.91	8.5		.6	10	0	US 8
240	12-22	245P 300P	"	19.5	10.6	0.94	0.91	10.0		.6	10	0	"
241	12-26	110P 125P	Luce	25.0	18.3	0.54	1.01	9.8		.6	10	0	FC 39
242	12-28	907P 925P	U.S.E.D.	22.5	12.8	1.20	1.07	15.4		.6	11	0	US 8
243	12-29	840A 900A	U.S.G.S.	19.0	12.6	1.40	1.12	17.7		.6	19	0	1677
244	12-29	207P 232P	U.S.E.D.	58.5	33.7	1.37	1.51	46.0		.6	14	0	US 8
245	12-31	150P 205P	Luce	27.0	42.3	1.35	1.68	58.2		.6	12	0	FC 39
246	1-3	1122A 1140A	U.S.E.D.	61.5	39.6	1.43	1.61	56.9		.6	15	0	US 8
247	1-5	245P 300P	"	34.0	42.8	1.28	1.56	54.8		.6	17	0	"
248	1-7	115P 140P	"	60.5	32.4	1.22	1.45	39.4		.6	14	0	"
249	1-8	515P 525P	Luce	22.0	30.8	0.86	1.26	27.2		.6	8	0	FC 39
250	1-12	130P 146P	U.S.E.D.	22.0	14.7	1.12	1.13	16.4		.6	11	0	US 8
251	1-15	825A 840A	Luce	19.0	23.7	0.49	1.09	11.6		.6	9	0	FC 39
252	1-19	225P 242P	U.S.E.D.	55.0	17.0	0.87	1.09	14.7		.6	11	0	US 8
253	1-22	1022A 1032A	Luce	17.0	21.5	0.63	1.08	13.5		.6	9	0	FC 39
254	1-26	220P 230P	U.S.E.D.	22.0	12.6	1.03	1.06	13.0		.6	9	0	US 8
255	1-27	945A 1005A	U.S.G.S.	18.0	12.0	1.10	1.05	13.2		.6	21	0	1677
256	1-29	1040A 1055A	Luce	15.5	12.4	1.25	1.02	15.5		.6	8	0	FC 39
257	2-2	300P 314P	U.S.E.D.	22.0	13.2	1.00	1.03	13.2		.6	11	0	US 8
258	2-9	1258P 110P	"	16.3	8.14	0.43	0.58	3.5		.6	7	0	"
259	2-11	520P 530P	Luce	13.0	5.58	0.61	0.69	3.4		.6	8	0	FC 39
260	2-16	210P 224P	U.S.E.D.	15.5	7.93	0.48	0.72	3.8		.6	7	0	US 8
261	2-19	115P 125P	Luce	14.0	7.04	0.81	0.73	5.7		.6	8	0	FC 39
262	2-22	915A 935A	U.S.G.S.	18.6	13.9	1.29	1.13	18.0		.6	22	0	1677
263	2-22	1000A 1025A	"	26.0	27.4	0.67	1.12	18.3		.6	24	0	1677
264	2-23	124P 138P	U.S.E.D.	24.5	17.0	1.18	1.20	20.0		.6	11	0	US 8
265	3-2	225P 240P	"	21.5	14.3	0.99	1.10	14.2		.6	10	0	"
266	3-5	1150A 1200N	Luce	16.0	11.9	1.19	1.05	14.1		.6	9	0	FC 39
267	3-9	145P 150P	U.S.E.D.	3.5	0.74	0.35		0.26		.6	4		US 8
268	3-15	1215P 1230P	U.S.G.S.	6.8	2.72	1.29	0.73	3.5		.6	17	0	1677
269	3-16	205P 214P	U.S.E.D.	14.8	7.38	0.38	0.65	2.8		.6	8	0	US 8
270	3-19	1207P 1210P	Luce	2.1	0.24	0.58	0.33	0.14		.6	4	0	FC 39

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F20B-R

Daily discharge, in second-feet of TUJUNGA WASH at Glens Oaks Boulevard, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9	11	E 0.1	59	13	14	0	0	0	0	0	0
2	9.5	11	E 0	58	13	14	0	0	0	0	0	0
3	8	18	E 0.3	58	13	14	0	0	0	0	0	0
4	7.5	20	E 0.2	57	3.5	14	0	0	0	0	0	0
5	8	0	E 0.1	57	11	14	0	0	0	0	0	0
6	8	0	E 0	50	16	7.5	0	0	0	0	0	0
7	8	17	E 0	39	11	3.7	0	0	0	0	0	0
8	8	36	0	29	5	E 0.5	0	0	0	0	0	0
9	8	28	0	23	3.4	+	0	0	0	0	0	0
10	7	25	E 4.3	20	3.5	0	0	0	0	0	0	0
11	7	26	20	18	3.5	0	0	0	0	0	0	0
12	5	28	32	16	3.7	0	0	0	0	0	0	0
13	5	28	19	16	3.7	0	0	0	0	0	0	0
14	6	28	8.5	15	3.5	E 0.5	0	0	0	0	0	0
15	5.5	24	4.8	14	3.7	3.2	0	0	0	0	0	0
16	6	18	2.7	14	3.7	3.2	0	0	0	0	0	0
17	6	13	1.6	14	4.4	1.6	0	0	0	0	0	0
18	6.5	13	2.6	14	5	E 0.5	0	0	0	0	0	0
19	7	18	6	14	5.5	E 0.1	0	0	0	0	0	0
20	7.5	16	8.5	14	5.5	0	0	0	0	0	0	0
21	8.5	12	11	13	6.5	0	0	0	0	0	0	0
22	10	10	9.5	13	16	0	0	0	0	0	0	0
23	11	7.5	10	13	20	0	0	0	0	0	0	0
24	11	5	12	13	20	0	0	0	0	0	0	0
25	11	4.2	8	13	17	0	0	0	0	0	0	0
26	11	2.7	9.5	13	7	0	0	0	0	0	0	0
27	11	E 1.3	10	13	16	0	0	0	0	0	0	0
28	12	E 0.8	14	14	16	0	0	0	0	0	0	0
29	12	E 0.4	36	13		0	0	0	0	0	0	0
30	12	E 0.2	55	13		0	0	0	0	0	0	0
31	11		58	13		0		0		0	0	
	263.0	422.1	343.7	743	253.1	90.8	0	0	0	0	0	0
Mean	8.48	14.1	11.1	24.0	9.04	2.93	0	0	0	0	0	0
Acre-Feet	522.	837.	682.	1470.	502.	180.	0	0	0	0	0	0

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

Year or Period — Mean 5.80 — Acre-Feet 4190

STATION F105R

TUJUNGA WASH at Magnolia Boulevard

LOCATION:

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

DRAINAGE AREA:

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

CHANNEL AND CONTROL:

Channel-loose sand.
No artificial control.

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed August, 1930 over an 18 inch diameter corrugated iron pipe stilling well. Washed out in March 2, 1938 flood. Reinstalled on October 17, 1938 over a 21 inch diameter corrugated iron pipe stilling well. A Stevens type L recorder was in service from October 1, 1941 to September 30, 1942.

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, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 119. second-feet, December 28.
Minimum + flow part of year.
1930-1942
Maximum not determined March 2, 1938.
Minimum no flow most of year.

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 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F105-R

DISCHARGE MEASUREMENTS OF TUJUNGA WASH

AT Magnolia Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 1942

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	C. HT. CHANGE TOTAL	METER NO.
14	1-8	234P 237P	Bollinger	2.5	0.34	0.67	7.18	0.23		.6	3	0	FC 6
15	1-15	114P 118P	"	2.0	0.33	0.54	7.20	0.18		.6	3	0	"
16	1-22	136P 139P	"	2.7	0.43	0.53	7.18	0.23		.6	3	0	"
17	2-19	155P 200P	"	2.5	0.39	0.54	7.12	0.21		.6	3	0	"
18	3-19	1250P 1254P	"	2.8	0.36	0.50	7.19	0.18		.6	3	0	"
19	4-23	457P 500P	"	2.0	0.29	0.52	7.18	0.15		.6	3	0	"
20	5-21	300P 303P	"	2.8	0.39	0.54	7.22	0.21		.6	3	0	"
21	6-18	210P 215P	"	2.1	0.41	0.54	7.23	0.22		.6	3	0	"
22	8-13	250P 254P	"	1.3	0.13	0.31	7.23	0.04		.6	2	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F105-R

Daily discharge, in second-feet of TUJUNGA WASH at Magnolia Boulevard, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	+	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	+
2	+	+	+	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	+
3	+	+	+	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	+
4	+	+	+	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	+
5	+	+	+	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	+
6	+	+	+	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	+
7	+	+	+	0.2	0.2	0.2	0.2	0.2	0.2	0.2	+	+
8	+	+	+	0.2	0.2	0.2	0.2	0.2	0.2	0.2	+	+
9	+	+	+	0.2	0.2	0.2	0.2	0.2	0.2	0.2	+	+
10	+	+	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	+	+
11	+	+	+	0.2	0.2	0.2	0.2	0.2	0.2	0.2	+	+
12	+	+	+	0.2	0.2	0.2	0.2	0.2	0.2	0.2	+	+
13	+	+	+	0.2	0.2	0.2	0.2	0.2	0.2	0.2	+	+
14	+	+	+	0.2	0.2	0.2	0.2	0.2	0.2	0.2	+	+
15	+	+	+	0.2	0.2	0.2	0.2	0.2	0.2	0.2	+	+
16	+	+	+	0.2	0.2	0.2	0.2	0.2	0.2	0.2	+	+
17	+	+	+	0.2	0.2	0.2	0.2	0.2	0.2	0.2	+	+
18	+	+	+	0.2	0.2	0.2	0.2	0.2	0.2	0.2	+	+
19	+	+	+	0.2	0.2	0.2	0.2	0.2	0.2	0.2	+	+
20	+	+	+	0.2	0.2	0.2	0.2	0.2	0.2	0.2	+	+
21	+	+	+	0.2	0.5	0.2	0.2	0.2	0.2	0.2	+	+
22	+	+	+	0.2	0.2	0.2	0.2	0.2	0.2	0.2	+	+
23	+	+	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	+	+
24	+	+	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	+	+
25	+	+	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	+	+
26	+	+	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	+	+
27	+	+	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	+	+
28	+	+	1.6	0.2	0.2	0.2	0.2	0.2	0.2	0.1	+	+
29	+	+	2.9	0.2		0.2	0.2	0.2	0.2	0.1	+	+
30	+	+	0.1	0.2		0.2	0.2	0.2	0.2	0.1	+	+
31	+		0.1	0.2		0.2		0.2		0.1	+	
	+		19.7		5.9		6.0		6.0		0.6	
		+		5.8		6.2		6.2		5.4		+
Mean	+	+	0.64	0.19	0.21	0.20	0.20	0.20	0.20	0.17	0.02	+
Acre-Feet	+	+	39.	12.	12.	12.	12.	12.	12.	11.	1.2	+

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

Year or Period — Mean 0.17 — Acre-Feet 123.

STATION F106B-R
and F106R

TUJUNGA WASH - CENTRAL BRANCH at Chandler Boulevard
and
TUJUNGA WASH - CENTRAL BRANCH at Magnolia Boulevard

LOCATION:

F106B-R:
On the south side of the upstream bridge at Chandler Boulevard, North Hollywood.
F106R:
On the south side of the Magnolia Boulevard bridge, North Hollywood.

DRAINAGE AREA:

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

CHANNEL AND CONTROL:

Channel-loose sand.
No artificial control.

DISCHARGE MEASUREMENTS:

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

RECORDER:

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

REGULATION:

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

DIVERSION:

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

RECORDS AVAILABLE:

At Station F106B-R
March 20, 1936 to July 29, 1936.
September 25, 1939 to November 11, 1941
At Station F106R
August, 1930 to March 18, 1936.
August 20, 1936 to March 2, 1938.
November 24, 1941 to September 30, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 57. second-feet, December 10.
Minimum no flow most of year.
1930-1942
Maximum not determined March 2, 1938.
Minimum no flow most of year.

ACCURACY:

Poor due to insufficient measurements.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F106-R

DISCHARGE MEASUREMENTS OF TUJUNGA WASH - CENTRAL BRANCH

AT Magnolia Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
70	12-10	526P 533P	Bollinger-Mayer	10.5	2.25	1.78	4.24	4.0		.6	5	-.05	FC 6
71	12-28	548P 559P	Bollinger-Rickart	15.4	5.49	2.48	4.32	13.6		.6	7	-.04	"
72	12-28	605P 613P	"	14.9	5.64	2.45	4.34	13.8		.6	6	0	"
73	2-21	132P 138P	Bollinger	6.6	1.37	1.39	4.12	1.9		.6	5	-.04	"

F.C. Dist. Form 52 3-41

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 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0.2	0	0	0	0	0	0	0	0
2	0	0	0	+	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	+	0	0	0	0	0
4	0	0	0	0	0	0	+	0	0	0	0	0
5	0	0	0	0.1	0	0	0	0	0	0	0	0
6	0	0	0	0.1	0	0	0	0	0	0	0	0
7	0	0	0	+	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	+	0
10	0	0	3.5	0	0	0	+	0	0	0	0	0
11	0	0	0	0	0	0	+	0	0	0	0	0
12	0	0	0	0	+	+	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	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
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	+	0.6	0	+	0	0	0	0	0
22	0	0	0	+	0.1	0	0	0	0	0	0	0
23	0	0	0.3	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0.4	0	0	0	0	0	0	0	0	0
26	0	0	0.1	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	5	0	0	0	+	0	0	0	0	0
29	0	0	0.6	0		0	+	0	0	0	0	0
30	0	0	0.2	0		0	0	0	0	0	0	0
31	0		0.3	0		0		0		0	0	
	0		15.4		0.7		+		0		+	
		0		0.4		+		0		0		0
Mean	0	0	0.50	+	+	+	+	0	0	0	+	0
Acre-Feet	0	0	31.	0.8	1.4	+	+	0	0	0	+	0

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

Year or Period — Mean + ; Acre-Feet 33.2

STATION F270R

GALABASAS CREEK at Ventura Boulevard

LOCATION:

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

DRAINAGE AREA:

2.4 square miles.

CHANNEL AND CONTROL:

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

DISCHARGE MEASUREMENTS:

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

RECORDER:

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

OPERATION:

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

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, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 5.6 second-feet, December 28.
Minimum no flow most of year.
1940-1942
Maximum 551. second-feet, February 20, 1941.
Minimum no flow part of each year.

ACCURACY:

Fair

REMARKS:

0.3 sec.-ft. Dec.28 and Mar.14.

F.C. Dist. Form 52 3-41

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, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Mean	0	0	+	+	+	+	+	0	0	0	0	0
Acre-Feet	0	0	0.6	+	+	0.6	+	0	0	0	0	0

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

Year or Period — Mean + ; Acre-Feet 1.2

STATION F37B-R

COMPTON CREEK near Greenleaf Drive

LOCATION:

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

DRAINAGE AREA:

30.3 square miles.

CHANNEL AND CONTROL:

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

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed January 22, 1928 at Station F37 at Rosecrans Avenue. Removed June 9, 1938 due to new channel construction by the U.S. Engineer Department.
Installed October 3, 1938 over a 4.0 ft. x 3.2 ft. concrete stilling well.
An H.C.F. recorder was in service from October 1, 1941 to September 30, 1942.

REGULATION:

None.

DIVERSION:

None.

RECORDS AVAILABLE:

At Station F37R
January 22, 1928 to June 9, 1938.
At Station F37B-R
October 3, 1938 to September 30, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 1730. second-feet, December 10.
Minimum 0.3 second-foot at various times.
1928-1942 (Stations F37R and F37B-R)
Maximum not determined, overflowed banks March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Fair.
Low flows occasionally estimated or interpolated due to communication being obstructed by sand.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F37B-R

DISCHARGE MEASUREMENTS OF COMPTON CREEK

NEAR Greenleaf Drive DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
175	10-2	1118A 1135A	Mayer-Bonadiman	Two Channels			0.52	4.7		.6	8	0	FC 40
176	10-22	1051A 1110A	Bonadiman-Walton	59.0	25.2	0.62	0.65	15.5		.6	6	0	FC 19
177	10-23	1007A 1027A	Bonadiman	60.0	68.3	2.30	1.32	157.		.6	9	-.09	"
178	10-30	1005A 1016A	"	43.0	14.2	0.37	0.51	5.3		.6	6	0	"
179	11-6	1012A 1025A	"	39.0	15.5	0.55	0.54	8.5		.6	5	0	"
180	11-13	1032A 1042A	"	39.5	14.5	0.52	0.56	7.6		.6	5	0	"
181	11-19	1032A 1040A	"	38.5	13.7	0.43	0.55	5.9		.6	5	0	"
182	11-27	1026A 1036A	"	32.0	13.9	0.47	0.57	6.6		.6	6	0	"
183	12-3	332P 342P	Bonadiman	60.0	73.2	2.44	1.44	179.		.6	10	-.04	FC19
184	12-4	1117A 1130A	"	52.0	18.0	0.17	0.48	3.0		.6	6	0	"
185	12-10	922A 942A	Bonadiman-Walton	60.0	62.2	1.80	1.18	112.		.6	14	-.05	"
186	12-18	1017A 1028A	Bonadiman	58.5	20.6	0.37	0.54	7.6		.6	7	0	"
187	12-25 12-26	1145P 1203A	Walton-Bonadiman	60.0	55.7	1.61	1.06	89.7		.6	11	-.07	"
188	12-26	1121A 1142A	Bonadiman-Walton	59.0	39.7	0.97	0.85	38.6		.6	7	0	"
189	12-28	625P 644P	"	60.0	95.0	3.40	1.66	323.		.6	10	+.05 -.03	"
190	12-29	141P 150P	Walton-Bonadiman	59.4	33.8	1.08	0.82	36.6		.6	8	-.01	"
191	12-30	1239P 1250P	"	59.0	24.8	0.58	0.65	14.4		.6	6	0	"
192	12-31	1055A 1102A	"	54.0	17.5	0.23	0.52	4.0		.6	6	0	"
193	1-8	952A 1002A	Bonadiman	59.0	20.6	0.32	0.53	6.7		.6	7	0	"
194	1-15	1007A 1020A	"	43.0	21.3	0.41	0.56	8.8		.6	6	0	"
195	1-22	1042A 1052A	"	59.0	25.2	0.60	0.63	15.2		.6	6	0	"
196	1-29	1021A 1042A	"	59.0	17.0	0.33	0.54	5.6		.6	7	0	"
197	2-5	311P 325P	"	59.0	20.3	0.36	0.56	7.4		.6	7	0	"
198	2-11	312P 320P	"	59.0	20.4	0.33	0.56	6.7		.6	6	0	"
199	2-19	303P 315P	Bonadiman	37.5	15.8	0.42	0.57	6.7		.6	5	0	FC 19
200	2-21	451P 507P	Bonadiman-Walton	59.5	70.6	1.99	1.34	141.		.6	9	-.01	"
201	2-22	1117A 1128A	"	59.5	23.2	0.51	0.62	11.8		.6	7	0	"
202	2-26	244P 256P	Bonadiman	59.0	19.0	0.30	0.54	5.7		.6	7	0	"
203	3-5	312P 322P	"	58.0	19.2	0.34	0.55	6.6		.6	6	0	"
204	3-11	1010A 1025A	"	59.5	41.0	1.09	0.87	44.6		.6	9	-.03	"
205	3-12	324P 330P	"	44.5	17.2	0.38	0.55	6.5		.6	5	0	"
206	3-14	606P 624P	Bonadiman Walton	59.5	131.	4.64	2.40	607.		.6	9	-.27	"
207	3-19	119P 130P	Bonadiman	57.0	18.2	0.32	0.53	5.9		.6	6	0	"
208	4-2	315P 325P	"	56.0	16.6	0.26	0.54	4.4		.6	6	0	"
209	4-9	311P 320P	"	59.0	19.2	0.36	0.55	6.9		.6	6	0	"
210	4-10	734P 750P	"	60.0	59.1	1.96	1.22	116.		.6	10	-.08	"
211	4-14	120P 135P	"	60.0	67.4	2.30	1.32	155.		.6	9	-.08	"
212	4-16	347P 355P	"	59.0	21.1	0.39	0.56	8.3		.6	5	0	"
213	4-17	831A 844A	"	59.0	36.6	1.07	0.83	39.2		.6	7	-.01	"
214	4-23	316P 325P	"	55.0	15.6	0.24	0.50	3.7		.6	7	0	"
215	5-7	302P 311P	"	58.0	18.1	0.30	0.53	5.5		.6	6	0	"
216	5-14	1015A 1025A	"	34.0	13.4	0.33	0.56	4.5		.6	5	0	"
217	5-21	1011A 1020A	"	58.0	19.1	0.38	0.58	7.3		.6	6	0	"
218	5-28	1036A 1044A	"	57.5	17.9	0.40	0.57	7.2		.6	5	0	"
219	6-4	1011A 1020A	"	58.0	11.7	0.51	0.57	6.0		.6	5	0	"
220	6-11	1036A 1050A	"	31.0	10.6	0.46	0.57	4.9		.6	4	0	"
221	6-18	1048A 1058A	"	58.5	19.4	0.45	0.58	8.7		.6	5	0	"
222	6-25	1046A 1056A	"	58.0	19.2	0.40	0.58	7.7		.6	5	0	"
223	7-2	1108A 1117A	Bonadiman	58.0	19.4	0.37	0.60	7.2		.6	5	0	FC 19
224	7-9	1036A 1045A	"	31.0	11.5	0.55	0.56	6.3		.6	4	0	"
225	7-16	1036A 1046A	"	35.0	13.2	0.42	0.57	5.6		.6	5	0	"
226	7-23	1041A 1050A	"	58.0	20.7	0.35	0.56	7.3		.6	7	0	"
227	7-30	1051A 1059A	"	58.0	16.8	0.33	0.56	5.6		.6	5	0	"
228	8-6	1041A 1051A	"	58.0	18.6	0.28	0.57	5.2		.6	6	0	"
229	8-13	1027A 1037A	"	58.0	19.9	0.39	0.57	7.9		.6	6	0	"
230	8-20	1026A 1036A	"	Two Channels			0.54	3.7		.6	6	0	"
231	8-27	1105A 1114A	Moon	26.0	11.3	0.35	0.55	4.0		.6	7	0	FC 22
232	9-3	1115A 1125A	"	28.0	13.1	0.60	0.59	7.8		.6	9	0	"
233	9-10	1041A 1052A	Bonadiman	33.0	14.6	0.48	0.62	7.0		.6	5	0	FC 19
234	9-17	1032A 1045A	"	Two Channels			0.61	6.8		.6	7	0	"
235	9-24	1042A 1050A	"	30.0	13.0	0.44	0.61	5.8		.6	5	0	"

F.C. Dist. Form SF 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

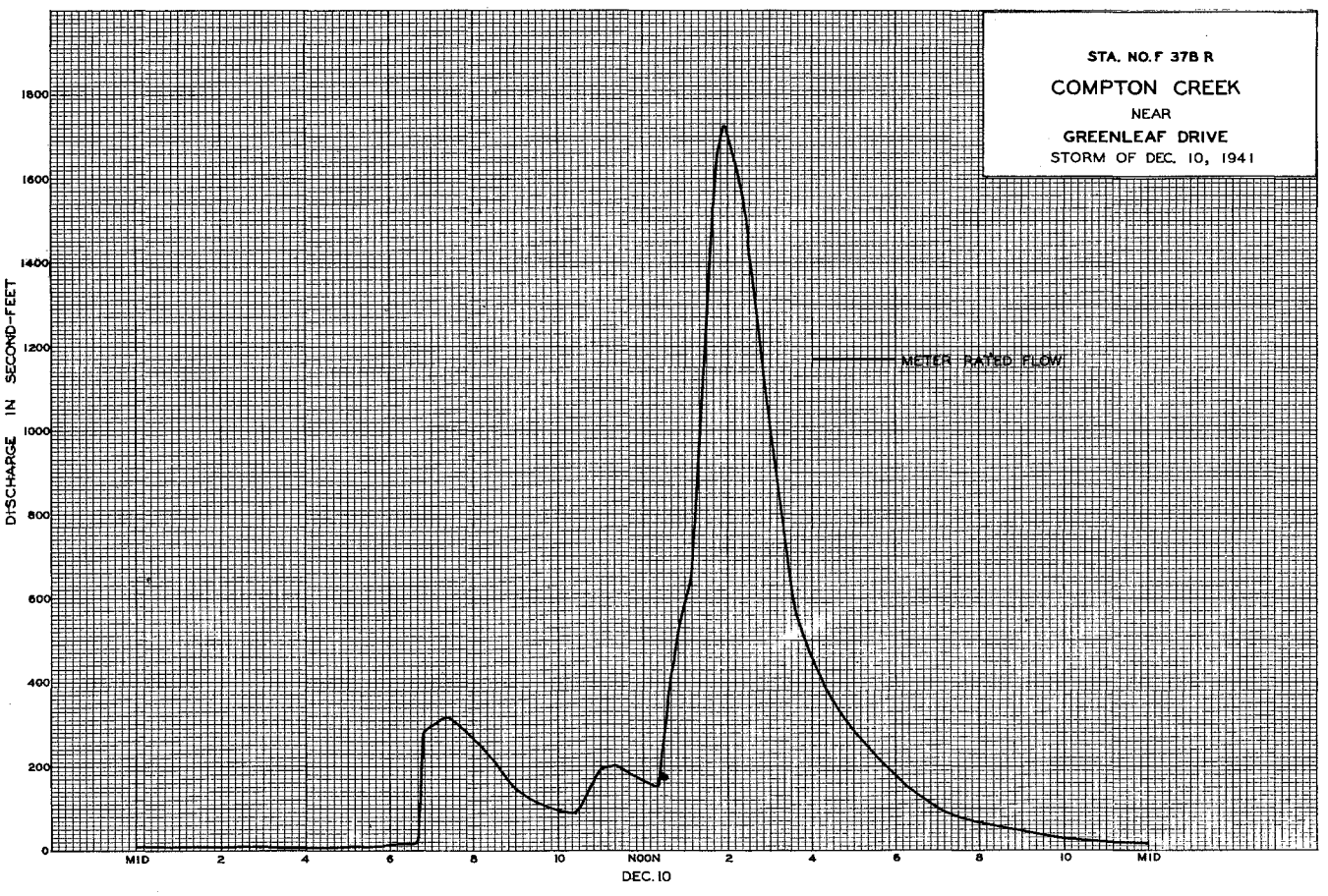
Sta. No. F37B-R

Daily discharge, in second-feet of COMPTON CREEK near Greenleaf Drive, for the year ending September 30, 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.8	5.5	7	50	7	6.5	5.5	4.8	5.5	7	6.5	6.5
2	4.8	5.5	5.5	9.5	7	7	4.8	4.8	6.5	6.5	5.5	8
3	4.8	6.5	70	8	7	7	14	4.8	5.5	6.5	5.5	7
4	5.5	7	3.7	8	7	7	31	4.8	5.5	4.8	7	6.5
5	5.5	8	3.4	8	8	8	6.5	4.6	6.5	E 4.4	8	6.5
6	5.5	8	3.0	7	8	8	18	6.5	5.5	4.1	5.5	4.8
7	6.5	8.5	3.4	7	8	8	6.5	5.5	4.8	5.5	7	4.8
8	6.5	7	4.1	7	8	7	6.5	5.5	4.4	6.5	6.5	4.8
9	6.5	6.5	8.5	8	7	8	6.5	5.5	4.8	7	7	4.8
10	5.5	6.5	236	7	8	8.5	49	4.8	5.5	7	10	5.5
11	5.5	6.5	10	8	7	20	36	4.8	4.8	6.5	4.8	5.5
12	109	7	8	8	8	7	5.5	4.4	6.5	6.5	6.5	5.5
13	6.5	6.5	7	8	8	4.6	5.5	4.4	5.5	7	7	4.8
14	4.8	8	8	8	8	178	72	4.1	6.5	6.5	6.5	4.8
15	4.4	7	7	8	8	14	9.5	4.1	6.5	6.5	5.5	6.5
16	4.6	7	7	8	7	7	8	4.6	8	5.5	5.5	5.5
17	E 4.8	5.5	7	8.5	8	6.5	27	4.8	8.5	4.8	4.4	6.5
18	E 4.8	5.5	8	9.5	8	6.5	8.5	4.4	8.5	4.8	4.1	7
19	E 4.8	6.5	7	9.5	7	6.5	7	4.4	8.5	4.8	4.4	4.8
20	E 17	5.5	7	8.5	8	6.5	7	6.5	8.5	5.5	3.7	4.4
21	44	5.5	5.5	9.5	105	5.5	46	7	8	4.8	4.1	4.8
22	44	5.5	6.5	29	30	4.4	8.5	8	7	6.5	4.8	4.8
23	64	5.5	8.5	8.5	6.5	4.8	4.4	8	6.5	7	4.4	5.5
24	7	4.8	7	8.5	5.5	4.8	4.8	8.5	7	7	4.8	5.5
25	5.5	5.5	28	8.5	5.5	4.8	4.8	7	7	4.8	3.7	7
26	4.8	6.5	18	8	6.5	6.5	5.5	6.5	7	5.5	4.8	6.5
27	25	6.5	4.8	6.5	7	6.5	5.5	7	6.5	4.4	3.7	4.4
28	4.8	7	67	6.5	7	6.5	8.5	7	7	4.4	4.4	5.5
29	4.8	7	75	5.5		5.5	5.5	6.5	6.5	4.4	6.5	6.5
30	4.8	7	39	7		5.5	4.4	6.5	7	5.5	4.8	6.5
31	5.5		6.5	7		7		5.5		6.5	4.4	
	436.5	194.8	686.4	308.0	325.0	393.6	432.2	176.0	195.8	178.5	171.3	171.5
Mean	14.1	6.49	22.1	9.94	11.6	12.7	14.4	5.68	6.53	5.76	5.53	5.72
Acre-Feet	866.	386.	1360.	611.	645.	781.	857.	349.	388.	354.	340.	340.

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

Year or Period: Mean 10.1; Acre-Feet 7280



STATION F41C-R

COYOTE CREEK at Del Amo Street

LOCATION:

On the right (west) abutment and downstream side of the Del Amo Street (formerly Anaheim Street) highway bridge, 30 feet above the upstream side of Pacific Electric Railroad trestle, and 2.5 miles southeast of Artesia.

DRAINAGE AREA:

110 square miles.

CHANNEL AND CONTROL:

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

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed January 14, 1930 at Station F41R.
Moved to Station F41B-R on October 30, 1936.
Removed on February 17, 1937.
Installed February 18, 1937 at Station F41C-R over an 18 inch diameter, corrugated iron pipe stilling well.
An Au continuous recorderwas in service from October 1, 1941 to September 30, 1942.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

At Station F41R
Stream measurements taken from December 1, 1928 to January 14, 1930.
Recorder records from January 14, 1930 to October 30, 1936.
At Station F41B-R
October 30, 1936 to February 17, 1937.
At Station F41C-R
February 18, 1937 to September 30, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 351. second-feet, December 10.
Minimum no flow at various times.
1929-1942 (Stations F41R, F41B-R and F41C-R)
Maximum 4190 second-feet (at Station F41B-R) February 6, 1937.
Minimum no flow at times each year.

ACCURACY:

Good.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F41C-R

DISCHARGE MEASUREMENTS OF COYOTE CREEK

AT ~~NEAR~~ Del Amo Street DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
253	12-10	748P 810P	Bonadiman-Walton	71.0	167.	1.61	7.38	269.		.6	11	-.07	FC 19
254	12-11	911A 930A	"	47.0	96.4	0.46	5.45	44.6		.6	7	-.01	"
255	12-18	219P 230P	Bonadiman	Two Channels			4.28	3.2		.6	5	0	"
256	12-29	1056A 1110A	Walton-Bonadiman	62.0	116.	0.69	6.03	80.2		.6	9	-.01	"
257	12-30	811A 825A	"	41.0	79.3	0.40	5.20	31.5		.6	7	0	"
258	12-31	303P 320P	"	35.0	31.1	0.52	4.82	16.1		.6	8	0	"
259	1-8	226P 234P	Bonadiman	13.0	5.35	0.56	4.26	3.0		.6	4	0	"
260	1-15	302P 312P	"	Two Channels			4.31	3.0		.6	6	0	"
261	1-29	322P 331P	"	" "			4.22	3.4		.6	6	0	"
262	2-5	1102A 1115A	"	" "			4.17	1.7		.6	7	0	"
263	2-11	1102A 1114A	"	" "			4.16	2.1		.6	6	0	"
264	2-19	1121A 1132A	"	" "			4.21	2.2		.6	6	0	"
265	2-26	1113A 1120A	"	" "			4.22	2.8		.6	5	0	"
266	3-5	1126A 1134A	"	" "			4.20	1.7		.6	5	0	"
267	3-12	1131A 1140A	"	" "			4.26	2.2		.6	5	-.02	"
268	3-15	955A 1010A	Bonadiman-Walton	44.0	40.7	0.38	5.02	15.7		.6	10	0	"
269	3-19	924A 935A	Bonadiman	Two Channels			4.26	1.7		.6	6	0	"
270	3-26	1102A 1112A	"	" "			4.03	0.83		.6	5	0	"
271	4-2	1059A 1108A	"	" "			4.12	1.4		.6	5	0	"
272	4-9	1101A 1105A	"	" "			4.14	1.6		.6	5	0	"
273	4-16	1131A 1140A	"	" "			4.39	3.6		.6	5	0	"
274	4-23	1057A 1105A	"	" "			4.46	3.3		.6	7	0	"
275	4-30	1106A 1115A	"	" "			4.35	2.5		.6	6	0	"
276	5-7	1102A 1110A	"	" "			4.04	0.70		.6	4	0	"
277	6-18	202P 210P	Bonadiman	14.0	7.80	0.35	4.40	2.7		.6	4	0	FC 19
278	8-20	232P 238P	"	8.0	2.20	0.20	3.80	0.44		.6	3		"
279	8-27	320P 328P	Moon	7.0	2.68	0.52	3.90	1.4		.6	6		FC 22
280	9-3	327P 330P	"	2.5	0.87	0.45	3.69	0.39		.6	4		"
281	9-17	242P	Bonadiman	3.0	0.54	0.41	3.73	0.22		.6	2		FC 19
282	9-24	252P	"	2.0	0.30	0.13	3.70	0.04		.6	2		"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

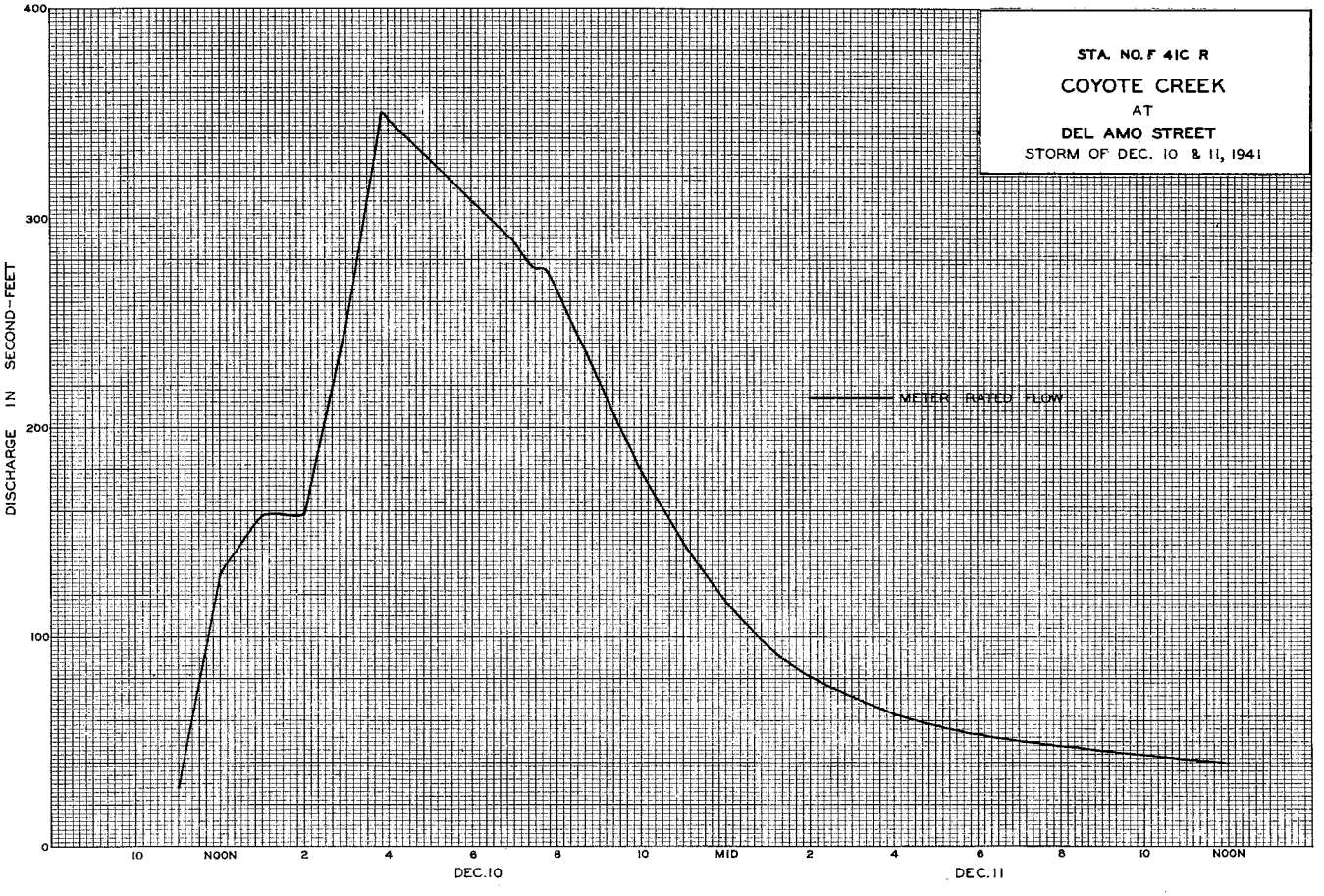
Sta. No. F41C-R

Daily discharge, in second-feet of COYOTE CREEK at Del Amo Street, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	1.6	1.6	11	2.7	2.4	0.5	2.5	0.8	0.5	0.3	0.2
2	0.4	1.8	1.3	8	2.4	2.2	1.4	2.4	1.0	0.6	0.4	0.4
3	0.4	1.7	0.3	4.8	2.2	2.0	1.5	2.3	1.2	0.5	1.3	0.4
4	0.4	1.4	0.1	3.3	2.1	2.0	1.7	1.9	1.8	0.4	1.1	0.3
5	0.5	1.8	1.7	2.8	1.9	1.7	2.2	1.9	1.9	0.5	1.1	0.2
6	0.5	1.7	1.6	2.5	2.2	1.7	1.9	1.6	1.4	0.4	1.3	0.1
7	0.5	1.7	1.1	2.7	2.2	1.8	2.3	0.8	0.9	0.5	0.9	0
8	0.5	1.8	1.0	2.8	2.2	1.6	2.4	0.4	0.5	0.5	0.5	0
9	0.6	1.7	0.4	3.1	2.1	1.6	1.7	0.3	0.4	0.5	0.4	0
10	0.6	1.6	92	3.3	2.2	1.7	2.5	0.2	0.5	0.4	0.5	+
11	0.6	1.4	47	2.8	2.3	1.9	11	0.2	0.6	0.4	0.4	0.4
12	0.6	1.5	14	2.7	2.3	2.2	8	0.2	0.7	0.3	0.3	0.1
13	0.6	1.5	7	2.8	2.4	2.2	3.7	0.4	0.6	0.3	0.4	0
14	0.6	1.4	4.4	2.8	2.4	2.4	3.4	0.3	1.0	0.2	0.5	0.1
15	0.5	1.4	3.7	2.7	2.4	14	5	0.2	2.0	0.1	0.6	0.3
16	0.1	1.4	3.7	2.8	2.4	4.8	3.9	0.2	1.9	0	1.1	0.2
17	+	1.3	4.0	2.9	2.5	2.3	3.2	0.2	1.3	0	1.4	0.2
18	0	1.1	2.9	3.0	2.4	1.7	2.8	0.1	2.2	0	1.4	0.3
19	0	1.4	2.2	3.0	2.4	1.6	2.6	0.1	2.1	0.4	1.0	0.3
20	0	1.1	2.2	2.8	2.4	1.6	2.2	0.1	1.9	0.5	0.5	0.3
21	0	1.0	2.2	2.9	2.9	1.6	2.3	0.1	1.7	0.3	0.4	0.2
22	+	1.1	2.3	3.4	10	1.6	3.2	0	0.5	0.6	0.4	0.4
23	1.9	1.3	2.4	3.4	8.5	1.4	3.2	0	0.4	0.5	0.2	0.2
24	2.9	1.3	2.4	3.3	4.2	1.6	2.4	0	0.8	0.4	0.4	0.1
25	1.3	1.1	2.5	3.1	3.2	1.2	2.2	0	0.4	0.4	0.6	0.5
26	1.1	1.4	2.6	3.1	3.1	0.8	2.2	0.4	0.2	0.3	0.7	0.8
27	1.0	1.4	2.4	3.4	2.9	0.5	2.5	0.4	0.1	0.2	1.3	1.1
28	1.3	1.5	2.6	3.4	2.6	0.4	2.3	0.3	0.1	0.3	1.6	1.4
29	1.6	1.6	4.6	3.5		0.3	2.5	0.3	0.1	0.4	1.1	1.9
30	1.5	1.6	2.5	3.3		0.2	2.5	0.4	0.6	0.5	0.5	1.4
31	1.6		21	2.9		0.2		0.6		0.4	0.3	
	22.0	43.6	281.1	108.3	83.5	63.2	89.2	18.8	29.6	11.3	22.9	11.8
Mean	0.71	1.45	9.06	3.50	2.99	2.04	2.97	0.61	0.99	0.36	0.74	0.39
Acre-Feet	44.	87.	557.	215.	166.	125.	176.	37.	59.	22.	45.	23.

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

Year or Period — Mean 2.15 — Acre-Feet 1560.



STATION F265R

DOMINGUEZ CHANNEL at Carson Boulevard

LOCATION:

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

DRAINAGE AREA:

56 square miles.

CHANNEL AND CONTROL:

Channel-dredged earth.
Control-channel forms control.

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed November 23, 1938 over an 18 inch diameter corrugated iron pipe stilling well. A Horizontal Rational recorder was in service from October 1, 1941 to September 30, 1942.

REGULATION:

Regulated by Laguna Dominguez area, subject to ponding.

DIVERSIONS:

None.

RECORDS AVAILABLE:

November 23, 1938 to September 30, 1942.
For previous records, see earlier reports on station F46R, Nigger Slough at Wilmington Ave.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 47 second-feet, December 11.
Minimum water ponded at gage, no measurable flow.
1938-1942
Maximum flow which is confined to channel 250+ second-feet at various times in 1941.
Minimum water ponded at gage, no measurable flow.

ACCURACY:

Fair.
Station is flooded at high flows.

OPERATION:

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

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

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, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
40	10-2	1200N 1202P	Mayer-Bonadiman	3.0	0.30	1.40	8.08	0.42		.6	2	0	FC 40
41	11-6	1046A 1055A	Bonadiman	6.0	2.79	1.08	8.22	3.0		.6	4	0	FC 19
42	12-4	1031A 1043A	"	Two Channels			8.12	4.9		.6	9	0	"
43	12-11	1135A 1150A	Bonadiman-Walton	" "			8.98	44.9		.6	9	0	"
44	12-30	1141A 1200N	Walton-Bonadiman	" "			8.20	33.3		.6	11	0	"
45	12-31	1128A 1145A	"	" "			8.45	37.4		.6	10	0	"
46	1-15	1052A 1105A	Bonadiman	" "			6.56	4.8		.6	6	0	"
47	1-29	1120A 1136A	"	" "			6.55	3.4		.6	8	0	"
48	2-5	217P 230P	"	" "			6.68	4.8		.6	8	0	"
49	2-11	222P 235P	"	" "			6.72	3.1		.6	7	0	"
50	2-19	220P 231P	"	" "			6.77	3.4		.6	8	0	"
51	3-5	224P 240P	"	" "			6.65	3.8		.6	7	0	"
52	3-12	231P 245P	"	" "			6.66	5.2		.6	8	0	"
53	3-15	1231P 1250P	Bonadiman-Walton	" "			8.38	41.2		.6	11	0	"
54	3-19	1226P 1240P	Bonadiman	" "			6.96	10.5		.6	9	0	"
55	3-26	302P 318P	"	" "			6.53	3.6		.6	7	0	"
56	4-2	221P 230P	"	" "			6.50	2.1		.6	8	0	"
57	4-9	203P 215P	"	" "			6.58	4.5		.6	7	0	"
58	4-16	244P 300P	"	" "			7.21	13.2		.6	9	0	"
59	4-23	225P 236P	"	" "			6.67	11.5		.6	9	0	"
60	4-30	232P 244P	"	" "			6.52	1.8	Surf.	9	0		"
61	5-7	202P 212P	"	" "			6.48	2.0		.6	6	0	"
62	5-14	1101A 1115A	"	" "			6.48	3.0		.6	7	0	"
63	5-21	1042A 1055A	"	" "			6.55	2.9		.6	8	0	"
64	6-4	1056A 1110A	Bonadiman	Two Channels			6.58	3.5		.6	11	0	FC 19
65	6-11	1106A 1120A	"	" "			6.57	3.3		.6	7	0	"
66	8-6	1128A 1141A	"	" "			6.58	3.9		.6	9	0	"
67	8-13	1102A 1115A	"	" "			6.58	3.4		.6	9	0	"
68	8-20	1102A 1116A	"	" "			6.62	4.3		.6	7	0	"
69	9-24	1122A 1133A	"	" "			6.69	6.3		.6	7	0	"

F.C. Dist. Form 52 2-41

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, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	E 0.4	E 2.8	E 4.4	3.2	3.7	3.5	1.8	2.2	2.5	0	0	4.6
2	0.4	2.8	E 4.6	2.7	3.5	3.0	1.8	1.2	3.4	0	0	4.4
3	0.6	2.9	E 4.8	2.3	3.4	3.4	2.3	0.9	3.5	0	3.9	4.7
4	0.9	2.9	E 4.9	E 1.2	E 4.0	3.2	3.2	1.4	3.7	0	4.6	5
5	1.1	3.0	E 4.9	E 2.0	E 4.7	3.5	2.7	1.8	3.4	0	4.4	4.7
6	1.3	3.0	E 4.9	E 2.0	E 4.4	4.4	2.3	2.2	3.0	0	3.9	4.6
7	1.5	2.9	E 4.9	E 2.0	E 4.0	4.6	3.0	2.0	3.2	0	3.9	4.4
8	1.7	2.8	E 4.9	E 2.0	E 3.9	4.0	3.7	1.8	2.7	0	E 3.7	4.4
9	2.0	2.7	E 4.9	E 2.5	E 3.4	3.7	6.5	2.2	3.4	0	E 3.7	4.7
10	2.0	2.4	1.5	E 3.1	E 3.0	4.4	E 1.8	2.2	3.4	0	3.5	4.7
11	2.1	2.3	4.0	E 3.6	E 3.0	5.5	E 1.8	1.8	3.5	0	3.7	4.7
12	2.1	2.1	4.2	E 4.2	E 3.4	5.5	E 1.6	2.0	4.0	0	3.9	4.9
13	2.1	2.0	3.3	4.7	3.5	5.5	E 1.4	2.7	3.7	0	3.5	4.7
14	2.2	2.0	3.0	5.5	3.5	9.5	1.0	3.2	3.5	0	3.5	4.4
15	2.2	2.0	E 2.2	5.5	3.4	3.6	1.2	2.6	3.4	0	E 4.0	4.9
16	2.3	2.0	E 1.5	4.9	3.0	4.5	1.4	2.6	3.9	0	E 4.0	5.5
17	2.3	2.0	E 7.5	4.4	3.0	3.6	1.3	2.5	0	0	4.7	6
18	2.3	2.0	0	3.9	3.4	2.0	1.1	2.0	0	0	4.4	6
19	2.4	2.0	0	3.0	3.2	1.1	1.1	2.0	0	0	4.2	5.5
20	2.4	2.2	0	3.5	3.0	8.5	1.0	2.2	0	0	4.4	5
21	2.4	2.4	0	4.2	6	7	1.0	3.2	0	0	E 4.4	5
22	2.5	2.6	0	3.9	1.5	6	1.1	2.6	0	0	E 4.4	5.5
23	2.5	2.8	0	3.4	2.5	6	1.1	2.7	0	0	E 4.4	8.5
24	2.5	3.0	E 1.0	3.4	2.0	6.5	1.1	2.3	0	2.9	E 4.4	6.5
25	2.5	3.2	E 2.0	3.2	1.2	6.5	9	2.2	0	8	E 4.4	E 6.5
26	2.6	3.4	E 2.0	3.0	7	3.7	6.5	2.3	0	4.2	E 4.4	E 6
27	2.6	3.6	E 2.0	3.5	6	3.0	5	2.2	0	3.2	E 4.4	E 6
28	2.6	3.8	6.5	3.4	5	2.7	4.9	2.2	0	3.4	4.9	E 6
29	2.7	4.0	2.0	3.7		2.5	3.5	2.6	0	3.9	6.5	E 6
30	2.7	E 4.2	3.1	3.5		2.3	1.7	2.6	0	1.0	5	E 5.5
31	E 2.8		3.6	3.7		2.0		2.5		0	4.2	
	62.7	81.8	348.2	189.7	166.4	268.4	247.9	69.9	54.2	26.6	123.3	159.3
Mean	2.02	2.73	11.2	6.12	5.94	8.66	8.26	2.25	1.81	0.86	3.98	5.31
Acre-Feet	124.	162.	691.	376.	330.	532.	492.	139.	108.	53.	244.	316.

Remarks: E = estimated or interpolated.

Year or Period Mean 4.93
Acre Feet 3570.

STATION F53R

DUME CREEK at Roosevelt Highway

LOCATION:

On the downstream side of Roosevelt Highway bridge, near Dume Point about ½ mile from Pacific Ocean, 22 miles west of Santa Monica.

DRAINAGE AREA:

8.8 square miles.

CHANNEL AND CONTROL:

Channel-sand and gravel.
No artificial control.

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed January 15, 1930. Removed November 26, 1937 due to construction of new bridge. Reinstalled November 3, 1938 over a 21 inch diameter galvanized iron pipe stilling well. A Stevens continuous recorder was in service from October 1, 1941 to September 30, 1942.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

January 15, 1930 to November 26, 1937.
November 3, 1938 to September 30, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 2.7 second-feet, December 28.
Minimum no flow for several months.
1930-1942
Maximum not determined March 2, 1938.
Minimum no flow at times each year.

ACCURACY:

Fair.
Flows occasionally estimated or interpolated due to loss of communication or recorder clock failure.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F53-R

DISCHARGE MEASUREMENTS OF DUME CREEK

AT Roosevelt Highway DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
125	10-2	244P 249P	Moon	4.0	0.42	0.95	4.69	0.40		.6	4	0	FC 22
126	10-8	1211P 1215P	Moon-Van der Goot	4.0	0.41	0.73	4.68	0.30		.6	3	0	"
127	10-16	311P 312P	Moon	2.0	0.37	0.73	4.67	0.27		.6	2	0	"
128	10-23	149P 150P	"	2.0	0.20	0.95	4.67	0.19		.6	2	0	"
129	10-30	320P 323P	"	1.6	0.20	0.70	4.67	0.14		.6	2	0	"
130	11-6	1122A 1123A	"	1.8	0.19	0.84	4.66	0.16		.6	2	0	"
131	11-13	235P 236P	"	2.0	0.18	0.72	4.65	0.13		.6	2	0	"
132	11-19	316P 317P	"	2.0	0.27	0.52	4.65	0.14		.6	2	0	"
133	11-27	313P 314P	"	1.7	0.17	0.71	4.68	0.12		.6	2	0	"
134	12-4	214P 215P	"	1.8	0.16	0.50	4.67	0.08		.6	2	0	"
135	12-11	247P 248P	"	2.0	0.14	0.57	4.66	0.08		.6	2	0	"
136	12-18	1055A 1056A	"	1.5	0.08	0.25	4.63	0.02		.6	2	0	"

F.C. Dist. Form 53 3-41

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, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	0.1	0.1	+	0	0	0	0	0	0	0	0
2	0.4	0.2	0.1	+	0	0	0	0	0	0	0	0
3	0.4	0.2	0.1	0	0	0	0	0	0	0	0	0
4	0.4	0.2	0.1	0	0	0	0	0	0	0	0	0
5	0.3	0.2	0.1	0	0	0	0	0	0	0	0	0
6	0.3	0.2	0.1	0	0	0	0	0	0	0	0	0
7	0.3	0.2	0.1	0	0	0	0	0	0	0	0	0
8	0.3	0.2	0.1	0	0	0	0	0	0	0	0	0
9	0.3	0.2	0.1	0	0	0	0	0	0	0	0	0
10	0.3	0.2	0.2	0	0	0	0	0	0	0	0	0
11	0.3	0.2	0.1	0	0	0	0	0	0	0	0	0
12	0.3	0.1	0.1	0	0	0	0	0	0	0	0	0
13	0.3	0.1	0.1	0	0	0	0	0	0	0	0	0
14	0.3	0.1	0.1	0	0	0	0	0	0	0	0	0
15	0.3	0.1	+	0	0	0	0	0	0	0	0	0
16	0.3	0.1	+	0	0	0	0	0	0	0	0	0
17	0.3	0.1	+	0	0	0	0	0	0	0	0	0
18	0.3	0.1	+	0	0	0	0	0	0	0	0	0
19	0.3	0.1	+	0	0	0	0	0	0	0	0	0
20	0.3	0.1	+	0	0	0	0	0	0	0	0	0
21	0.3	0.1	+	0	0	0	0	0	0	0	0	0
22	0.2	0.1	+	0	0	0	0	0	0	0	0	0
23	0.2	0.1	+	0	0	0	0	0	0	0	0	0
24	0.2	0.1	+	0	0	0	0	0	0	0	0	0
25	0.2	0.1	0.1	0	0	0	0	0	0	0	0	0
26	0.2	0.1	+	0	0	0	0	0	0	0	0	0
27	0.2	0.1	+	0	0	0	0	0	0	0	0	0
28	0.1	0.1	0.2	0	0	0	0	0	0	0	0	0
29	0.1	0.1	+	0		0	0	0	0	0	0	0
30	0.1	0.1	+	0		0	0	0	0	0	0	0
31	0.1		+	0		0		0		0	0	
	8.3	4.0	1.8	+	0	0	0	0	0	0	0	0
Mean	0.27	0.13	0.06	+	0	0	0	0	0	0	0	0
Acre-Feet	16.	7.9	3.6	+	0	0	0	0	0	0	0	0

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

Year or Period Mean 0.04
Acre-Feet 28.

STATION F271-R

EATON WASH below Eaton Wash Debris Dam

LOCATION:

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

DRAINAGE AREA:

9.5 square miles.

CHANNEL AND CONTROL:

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

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed October 10, 1940 over a 4 ft. x 4 ft. concrete stilling well.
H.C.F. recorder was in service from October 1, 1941 to September 30, 1942.

REGULATION:

Flow regulated by Eaton Wash Debris 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, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum + various times.
Minimum no flow most of year.
1940-1942
Maximum 256 second-feet, February 20 and 21, 1941.
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 and constructed and operated by the Los Angeles County Flood Control District.

REMARKS:

No measurable flow occurred during this season.
Negligible flow from gate leakage at Eaton Wash Debris Dam occurred during some periods.

STATION F104-R

EATON WASH at Ellis Lane

LOCATION:

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

DRAINAGE AREA:

18.4 square miles.

CHANNEL AND CONTROL:

Channel-sand and gravel.
No artificial control.

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed October 1, 1930. Removed December, 1930 due to bridge construction.
Reinstalled November 19, 1931 over an 18 inch corrugated iron pipe stilling well.
An H.C.F. continuous recorder was in service from October 1, 1941 to September 30, 1942.

REGULATION:

Flow partially regulated by Eaton Wash Debris Dam.

DIVERSIONS:

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

RECORDS AVAILABLE:

October 1, 1930 to September 30, 1942. From December 28, 1930 to November 10, 1931, the recorder was located at Broadway (designated as Station F104B-R).

EXTREMES OF DISCHARGE:

1941-1942
Maximum 289 second-feet, December 10.
Minimum no flow most of year.
1930-1942
Maximum 1900 second-feet, estimated March 2, 1938.
Minimum no flow most of each year.

ACCURACY:

Fair.
Shifting control.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F104-R

DISCHARGE MEASUREMENTS OF EATON WASH

AT Ellis Lane DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
220	10-23	745A 747A	Haig-Mellen	4.0	0.67	0.95	6.22	0.64		.6	4	+.01	FC 33
221	12-3	205P 215P	Haig	28.0	10.3	5.77	4.24	59.2		.6	10	-.06	"
222	12-10	1234P 1237P	Wallace-Mellen	15.5	10.2	4.20	3.47	42.8		.6	4	-.01	FC 28
223	12-10	402P 415P	Haig	28.0	25.8	6.56	4.35	169.		.6	9	-.10	FC 33
224	12-28	717P 728P	Mellen	16.0	9.57	4.62	3.58	44.2		.6	6	-.15	FC 28
225	12-28	1130P 1146P	Haig-Mellen	Three Channels			4.20	120.		.6	13	-.04	"
226	12-29	1147A 1152A	Haig	Two Channels			3.49	3.4		.6	8	0	"
227	12-30	300P 306P	Mayer-Haig	5.0	0.76	0.91	3.34	0.69		.6	4	-.02	FC 33
228	2-22	306A 310A	Haig	6.0	1.26	1.43	3.33	1.8		.6	5	0	"
229	3-14	510P 518P	"	Three Channels			3.96	96.4		.6	11	-.05	"
230	3-14	955P 1002P	"	13.5	5.40	3.00	3.43	16.2		.6	5	-.02	"
231	3-26	928A 930A	"	0.8	0.08	0.75	3.25	0.06	Float	1			
232	4-10	526P 531P	Haig-Mayer	15.0	3.60	1.42	3.37	5.1		.6	8	-.01	"
233	4-17	530A 536A	Haig	10.0	1.85	0.81	3.31	1.5		.6	5	-.02	"
234	4-17	548A 555A	"	14.0	4.85	2.85	3.39	13.8		.6	6	-.02	"

F.C. Dist. Form 52 3-41

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, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	1.8	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	6.5	0	0	0	1.2	0	0	0	0	0
4	0	0	0	0	0	0	2.6	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0.1	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	1.8	0
10	0	0	4.9	0	0	0	1.7	0	0	0	1.1	+
11	0	0	0	0	0	0.2	1.9	0	0	0	0	+
12	+	0	0	0	0	0	0	0	0	0	0	+
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	1.7	1.6	0	0	0	0	+
15	0	0	0	0	0	1.0	0	0	0	0	0	0.1
16	0	0	0	0	0	0	0	0	0	0	0	0.1
17	0	0	0	0	0	0	2.5	0	0	0	0	0
18	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	0.2	0	0	0	0	0	0	0	0	0	0	0
21	0.4	0	0	0	8	0	0.3	0	0	0	0.3	0
22	0.3	0	0	0.4	1.9	0	0	0	0	0	+	+
23	0.3	0	2.7	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	2.1	0	0	0	0	0	0	0	0	+
26	0	0	0.4	0	0	0.4	0	0	0	0	0	0
27	0.1	0	0	0	0	0.5	0	0	0	0	0	+
28	0	0	2.3	0	0	+	0	0	0	0	0	0.1
29	0	0	1.2	0		0	0	0	0	0	0	0.1
30	0	0	3.6	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	1.3	0	99.5	2.2	9.9	19.1	11.9	0	0	0	3.2	0.4
Mean	0.04	0	3.21	0.07	0.39	0.62	0.40	0	0	0	0.10	0.01
Acre-Feet	2.6	0	197.	4.4	20.	38.	24.	0	0	0	6.3	0.79

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

Year or Period — Mean 0.40 — Acre-Feet 293

STATION F149-R

LIMEKILN WASH at Devonshire Avenue

LOCATION:

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

DRAINAGE AREA:

3.8 square miles.

CHANNEL AND CONTROL:

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

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed November 9, 1939 over a 12 inch iron pipe stilling well. A vertical rational recorder was in service from October 1, 1941 to September 30, 1942.

REGULATION:

None.

RECORDS AVAILABLE:

November 9, 1939 to September 30, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 6.3 second-feet, December 10.
Minimum no flow most of year.
1939-1942
Maximum 318 second-feet, February 17, 1941.
Minimum no flow most of year.

ACCURACY:

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

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F149-R

DISCHARGE MEASUREMENTS OF LIMEKILN WASH

AT Devonshire Avenue DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
53	12-28	625P 627P	Luce-Pardieck	5.0	1.88	1.49	0.13	2.8		.6	5	+.02	FC 39
54	12-29	852A 854A	"	4.0	1.28	0.86	0.09	1.1		.6	4	0	"
55	1-1	420P 425P	Luce	3.5	0.54	0.37	0.04	0.20		.6	4	0	"
56	2-21	304P 306P	Luce-Pardieck	2.5	0.21	0.52	0.02	0.11		.6	4	0	"
57	3-11	935A 940A	Luce	3.0	0.34	0.74	0.06	0.25		.6	4	0	"
58	3-14	545P 550P	Luce-Pardieck	5.0	1.99	1.21	0.09	2.4		.6	5	-.01	"
59	4-14	135P 140P	Luce-Truitt	3.8	1.01	0.88	0.08	0.89		.6	4	0	"
60	5-21	930A 935A	Luce	2.0	0.21	0.57	0.02	0.12		.6	4	0	"

F.C. Dist. Form 52 3-41

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, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0.2	+	0	0	0.6	0	0	0	0
2	0	0	0	0.1	+	0	0	0	0	0	0	0
3	0	0	0	+	+	0	0	0	0	0	0	0
4	0	0	0	+	0	0	0	0	0	0	0	0
5	0	0	0	+	0	0	0	0	0	0	0	0
6	0	0	0	+	0	0	0	0	0	0	0	0
7	0	0	0	+	0	0	0	0	0	0	0	0
8	0.2	0	0	+	0	0	0	0	0	0	0	0
9	+	0	0	+	0	0	0	0	0	0	0	0
10	0.2	0	1.4	+	0	0	+	0	0	0	0	0
11	+	0	+	+	0	+	+	+	0	0	0	0
12	+	0	0	+	0.4	0	0	+	0	0	0	0
13	0	0	0	+	0.3	0	0	0	0	0	0	0
14	+	0	0	+	0	1.6	0.4	0	0	0	0	0
15	+	0	0	+	0	1.5	+	0	0	0	0	0
16	+	0	0	0.2	0	+	+	0	0	0	0	0
17	0	0	0	0.1	0	+	+	0	0	0	0	0
18	0	0	0	+	+	0	0	0	0	0	0	0
19	0	0	0	+	0.1	0	0	0	0	0	0	0
20	0	0	0	+	+	0	0	+	0	0	0	0
21	0	0	0	+	0.1	0	+	+	0	0	0	0
22	0	0	0	+	+	0	+	+	0	0	0	0
23	0	0	0	+	+	0	0	0	0	0	0	0
24	0	0	0	+	+	0	0	0	0	0	0	0
25	0	0.1	0	+	+	0	0	0	0	0	0	0
26	0	0.4	0	+	0	0	0	0	0	0	0	0
27	0	0	0	+	0	0	0	0	0	0	0	0
28	0	+	0.9	+	0	0	0	0	0	0	0	0
29	0	0.4	0.5	+		0	0	0	0	0	0	0
30	0	0.2	0.2	+		0	+	0	0	0	0	0
31	0		0.2	+		0		0		0	0	
	0.4	1.1	3.2	0.6	0.9	3.1	0.4	0.6	0	0	0	0
Mean	0.01	0.04	0.10	0.02	0.03	0.10	0.01	0.02	0	0	0	0
Acre-Feet	0.79	2.2	6.3	1.2	1.8	6.1	0.79	1.2	0	0	0	0

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

Year or Period — Mean 0.03; Acre-Feet 20

STATION F65B-R

LITTLE DALTON CREEK above Mouth of Canyon

LOCATION:

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

DRAINAGE AREA:

2.7 square miles.

CHANNEL AND CONTROL:

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

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed January 1929 at Station F65R at mouth of canyon (drainage 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, 1941 to September 30, 1942.

REGULATION:

None.

DIVERSIONS:

Glendora Consolidated Mutual Water Company.

RECORDS AVAILABLE:

At Station F65R
January 28, 1929 to November 23, 1938.
At Station F65B-R
November 30, 1938 to September 30, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 10 second-feet, December 29.
Minimum no flow for several months.
1929-1942
Maximum 960 second-feet, estimated, March 2, 1938.
Minimum no flow several months each year.

ACCURACY:

Good.
Low flows occasionally interpolated due to recorder clock failure.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F65B-R

DISCHARGE MEASUREMENTS OF LITTLE DALTON CREEK

~~at~~ above Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
174	10-1	320P 323P	Brewster	0.8	0.10	0.20	0.20	0.02		.6	2	0	FC 12
175	10-8	1010A 1014A	"	1.0	0.29	0.52	0.33	0.15		.6	2	0	"
176	10-15	405P 408P	"	1.0	0.12	0.17	-.03	0.02		.6	2	0	"
177	10-22	955A 1000A	"	1.5	0.51	0.63	0.20	0.32		.6	3	0	"
178	10-29	1010A 1015A	"	1.5	0.60	0.40	0.17	0.24		.6	3	0	"
179	11-5	1105A 1110A	"	1.5	0.50	0.26	0.13	0.13		.6	3	0	"
180	11-12	1000A 1005A	"	1.5	0.57	0.37	0.16	0.21		.6	3	0	"
181	11-18	420P 425P	"	1.5	0.57	0.28	0.13	0.16		.6	3	0	"
182	11-26	950A 954A	"	1.0	0.35	0.46	0.15	0.16		.6	2	0	"
183	12-5	930A 935A	"	1.0	0.43	0.47	0.19	0.20		.6	2	0	"
184	12-10	925A 930A	"	3.0	1.11	0.90	0.26	1.0		.6	4	0	"
185	12-10	454P 500P	"	10.0	4.60	0.70	0.38	3.2		.6	5	-.01	"
186	12-17	1050A 1056A	"	1.5	0.41	0.80	0.15	0.33		.6	3	0	"
187	12-23	254P 300P	"	3.0	1.27	0.87	0.21	1.1		.6	4	0	"
188	12-29	1145A 1155A	"	11.0	4.08	0.64	0.32	2.6		.6	4	-.01	"
189	12-31	935A 945A	"	4.0	1.84	0.98	0.24	1.8		.6	4	0	"
190	1-7	952A 958A	"	4.0	0.80	0.94	0.16	0.75		.6	4	0	"
191	1-14	1125A 1130A	"	1.5	0.71	0.79	0.14	0.56		.6	3	0	"
192	1-21	410P 416P	"	1.5	0.59	0.54	0.13	0.32		.6	3	0	"
193	1-28	940A 945A	"	2.0	0.90	0.70	0.15	0.63		.6	4	0	"
194	2-4	1250P 1255P	"	1.5	0.64	0.55	0.14	0.35		.6	3	0	"
195	2-11	1020A 1025A	"	1.5	0.65	0.63	0.13	0.41		.6	3	0	"
196	2-18	345P 350P	Brewster	1.5	0.61	0.62	0.14	0.38		.6	3	0	FC12
197	2-21	100P 106P	"	3.0	0.96	0.69	0.16	0.66		.6	3	0	"
198	2-21	710P 715P	Brewster-Smith	3.0	1.20	1.25	0.19	1.5		.6	3	0	FC 12
199	2-25	1000A 1005A	Brewster	1.5	0.67	0.87	0.14	0.58		.6	3	0	"
200	3-4	1224P 1230P	"	3.0	0.82	0.52	0.14	0.43		.6	3	0	"
201	3-11	928A 935A	"	3.0	1.00	0.70	0.18	0.70		.6	3	0	"
202	3-14	450P 500P	Brewster-Smith	8.0	2.60	1.12	0.28	2.9		.6	4	0	"
203	3-14	902P 910P	"	7.0	2.15	1.11	0.22	2.4		.6	4	0	"
204	3-18	319P 325P	Brewster	3.0	0.96	0.68	0.16	0.65		.6	3	0	"
205	3-25	935A 940A	"	3.0	0.92	0.62	0.15	0.57		.6	3	0	"
206	4-1	955A 1000A	"	3.0	0.82	0.51	0.14	0.42		.6	3	0	"
207	4-8	940A 945A	"	3.0	0.92	0.54	0.14	0.50		.6	3	0	"
208	4-15	925A 930A	"	3.0	1.00	0.72	0.16	0.72		.6	3	0	"
209	4-22	915A 920A	"	3.0	0.92	0.63	0.18	0.58		.6	3	0	"
210	4-29	954A 1000A	"	3.0	0.84	0.57	0.15	0.48		.6	3	0	"
211	5-6	935A 940A	"	3.0	0.80	0.44	0.13	0.35		.6	3	0	"
212	5-13	430P 435P	"	1.5	0.48	0.44	0.13	0.21		.6	3	0	"
213	5-20	930A 935A	"	1.5	0.37	0.38	0.12	0.14		.6	3	0	"
214	5-27	955A 1000A	"	1.0	0.30	0.27	0.13	0.08		.6	2	0	"
215	6-3	932A 936A	"	1.0	0.22	0.27	0.12	0.06		.6	2	0	"
216	6-10	925A 930A	"	1.0	0.12	0.33	0.11	0.04		.6	2	0	"
217	6-17	900A 903A	"	0.5	0.14	0.29	0.11	0.04		.6	1	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No F65B-R

Daily discharge, in second-feet of LITTLE DALTON CREEK above Mouth of Canyon, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	0.2	0.2	1.4	0.4	0.4	0.4	0.4	+	0	0	0
2	+	0.2	0.1	1.1	0.4	0.4	0.4	0.4	+	0	0	0
3	+	0.2	0.2	1.1	0.4	0.4	0.5	0.4	+	0	0	0
4	E 0.1	0.1	0.2	0.9	0.4	0.4	0.6	0.4	+	0	0	0
5	E 0.1	0.1	0.2	0.9	0.4	0.4	0.6	0.4	+	0	0	0
6	E 0.1	0.1	0.2	0.8	0.4	0.5	0.6	0.4	+	0	0	0
7	E 0.2	0.1	0.2	0.7	0.4	0.5	0.5	0.3	+	0	0	0
8	E 0.2	0.1	0.2	0.6	0.4	0.5	0.5	0.3	+	0	0	0
9	E 0.2	0.1	0.2	0.6	0.4	0.5	0.6	0.2	+	0	0	0
10	E 0.2	0.1	1.2	0.6	0.4	0.5	0.6	0.2	+	0	0	0
11	E 0.1	0.1	0.8	0.6	0.4	0.6	0.6	0.2	+	0	0	0
12	E 0.1	0.2	0.4	0.6	0.4	0.6	0.6	0.2	+	0	0	0
13	E 0.1	0.2	0.4	0.6	0.4	0.6	0.6	0.2	+	0	0	0
14	+	0.2	0.4	0.6	0.4	1.3	0.7	0.2	+	0	0	0
15	+	0.2	0.3	0.5	0.4	1.2	0.7	0.2	+	0	0	0
16	+	0.2	0.3	0.4	0.4	0.9	0.6	0.2	+	0	0	0
17	+	0.2	0.3	0.5	0.4	0.7	0.6	0.2	+	0	0	0
18	+	0.2	0.3	0.4	0.4	0.7	0.5	0.2	+	0	0	0
19	0.1	0.2	0.3	0.4	0.4	0.6	0.5	0.2	+	0	0	0
20	0.1	0.2	0.2	0.3	0.4	0.6	0.4	0.1	+	0	0	0
21	0.2	0.2	0.2	0.3	0.8	0.6	0.6	0.1	+	0	0	0
22	0.3	0.2	0.3	0.4	1.0	0.5	0.6	0.1	+	0	0	0
23	0.3	0.2	0.6	0.5	0.8	0.6	0.6	0.2	0	0	0	0
24	0.2	0.2	0.8	0.5	0.7	0.6	0.5	0.1	0	0	0	0
25	0.2	0.1	0.6	0.6	0.5	0.6	0.6	0.1	0	0	0	0
26	0.2	0.1	0.9	0.6	0.5	0.6	0.5	0.1	0	0	0	0
27	0.3	0.1	0.8	0.6	0.5	0.5	0.4	0.1	0	0	0	0
28	0.2	0.1	1.1	0.6	0.4	0.5	0.5	+	0	0	0	0
29	0.2	0.1	2.5	0.6		0.4	0.5	+	0	0	0	0
30	0.2	0.1	2.1	0.5		0.4	0.4	+	0	0	0	0
31	0.2		1.8	0.4		0.4		+		0	0	
	4.1	4.6	13.5	19.2	13.2	18.0	16.3	6.1	+	0	0	0
MEAN	0.13	0.15	0.60	0.62	0.47	0.58	0.54	0.20	+	0	0	0
ACRE-FEET	8.1	9.1	37.	38.	26.	36.	32.	12.	+	0	0	0

Remarks: + = 0.05 c.f.s. or less.
E = Estimated or interpolated.

YEAR OR PERIOD MEAN 0.27
ACRE FEET 198.

STATION L1R

LITTLE ROCK CREEK above Little Rock Dam

LOCATION:

On the right (east) bank about 2 miles above Little Rock Palmdale Irrigation District's Dam and approximately 1000 feet upstream from the junction of Little Rock and Santiago Creeks.

DRAINAGE AREA:

49.0 square miles.

CHANNEL AND CONTROL:

Channel-gravel and boulders.
No artificial control.

DISCHARGE MEASUREMENTS:

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

RECORDER:

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

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:
October 1, 1930 to September 30, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 92 second-feet, April 14.
Minimum no flow part of year.
1930-1942
Maximum 17000 second-feet, estimated, March 2, 1938.
Minimum no flow at times each year.

ACCURACY:

Poor.
Flows frequently estimated due to poor gage height discharge relation, channel fill or scour and recorder clock failure.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. L1-R

DISCHARGE MEASUREMENTS OF LITTLE ROCK CREEK

at above Little Rock Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
97	10-24	141P 200P	Wood	15.0	15.1	0.79	1.05	11.9		.6	8	0	FC 39
98	11-1	245P 300P	Luce	15.5	7.34	0.63	0.88	4.6		.6	8	0	"
99	11-28	210P 220P	"	11.5	6.24	0.74	0.88	4.6		.6	7	0	"
100	12-20	1230P 1240P	"	9.0	5.36	1.81	1.00	9.7		.6	7	0	"
101	12-29	305P 310P	Luce-Pardeick	11.5	10.3	2.58	1.38	26.6		.6	7	0	"
102	1-24	1125A 1135A	Luce	11.0	6.81	2.02	1.09	13.8		.6	8	0	"
103	2-20	1125A 1135A	"	10.0	4.47	1.65	0.90	7.4		.6	9	0	"
104	3-20	355P 405P	"	11.0	7.25	2.07	1.14	15.0		.6	8	0	"
105	4-16	205P 215P	"	10.0	9.30	2.56	1.38	23.8		.6	7	0	"
106	5-15	1120A 1130A	"	9.0	5.18	1.56	0.86	8.1		.6	7	0	"
107	6-12	450P 500P	"	6.5	2.16	0.97	0.62	2.1		.6	6	0	"
108	7-10	830A 835A	"	1.7	0.44	0.66	0.42	0.29		.6	4	0	"
109	8-14	430P 440P	"	4.0	0.84	0.55	0.83	0.46		.6	7	0	"
110	8-21	630P 632P	"	1.6	0.12	0.17	0.73	0.02		.6	3	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

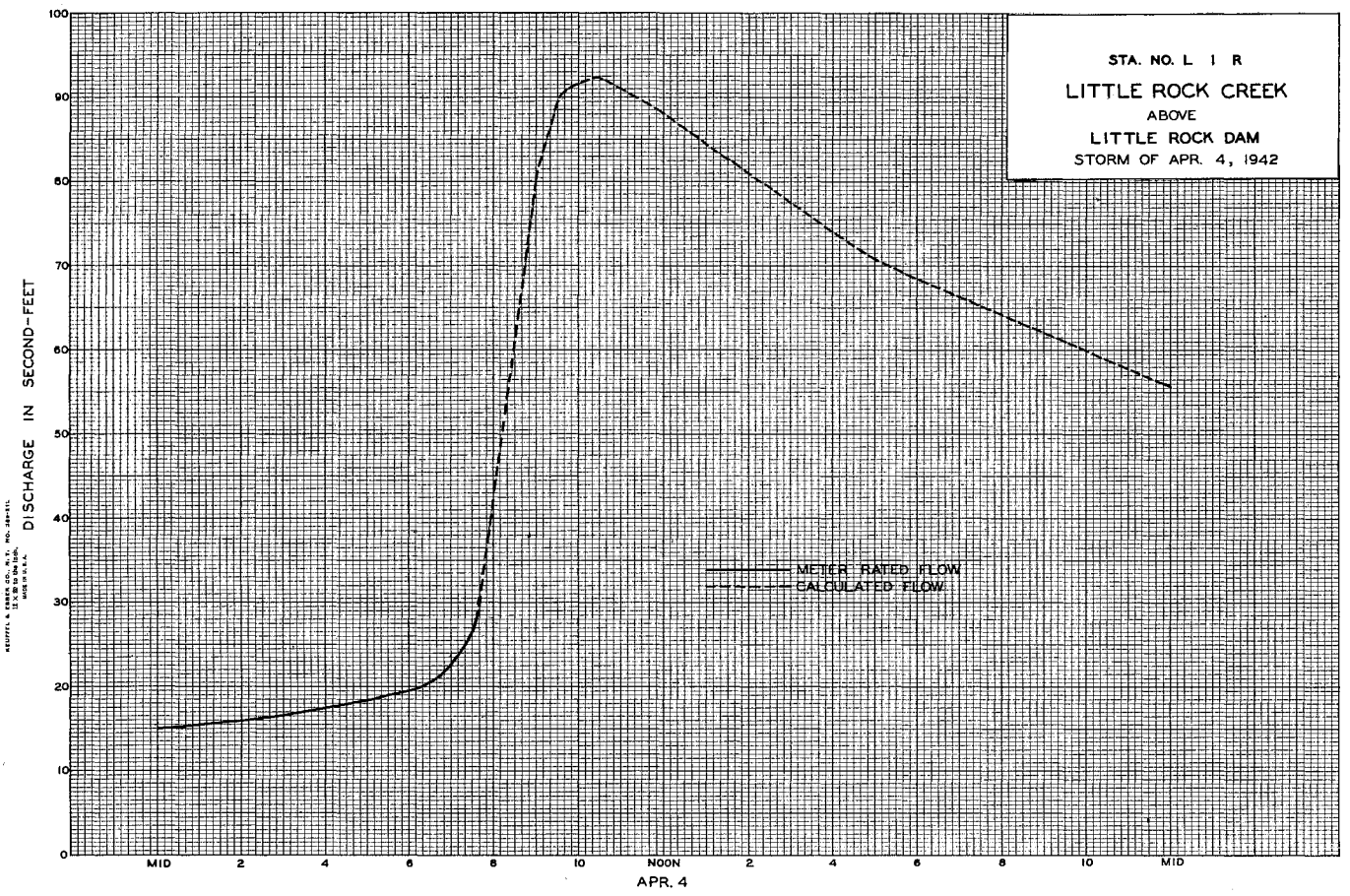
Sta. No L1-R

Daily discharge, in second-feet of LITTLE ROCK CREEK above Little Rock Dam, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	E 2.0	4.8	5.5	14	13	8	11	10	4.1	0.8	E 0.1	+
2	2.1	4.6	5	11	11	8.5	12	10	3.9	0.7	0.1	+
3	2.1	4.6	6	10	11	9	13	9.5	3.7	0.6	0.1	+
4	2.0	4.6	8.5	10	9.5	9	55	9.5	3.5	0.6	0.1	+
5	2.1	4.2	7	10	9.5	9	44	8.5	3.0	0.5	0.1	+
6	2.3	4.1	6	10	9	9.5	31	8.5	2.8	0.4	0.1	+
7	2.5	4.2	6	10	9	9	24	8.5	2.7	0.4	0.1	+
8	2.5	4.2	5.5	12	8.5	9	E 20	8	2.6	0.4	0.1	+
9	2.6	4.2	5.5	16	7.5	8.5	E 20	8	2.5	0.3	0.1	+
10	2.4	4.2	28	17	8	8.5	E 20	8	2.4	0.3	E 2.6	+
11	2.3	4.4	31	17	7.5	9.5	E 36	8.5	2.3	0.2	0.8	+
12	2.8	4.6	16	17	7.5	10	E 29	9	2.2	0.2	0.6	+
13	3.2	4.8	12	18	7.5	10	E 25	E 8.5	2.2	0.2	E 0.6	+
14	3.0	5	11	18	7.5	11	E 28	E 8.5	2.1	0.2	0.5	+
15	2.7	4.8	E 11	18	7	13	E 30	E 8	1.9	0.2	0.4	+
16	2.7	4.8	E 11	17	7.5	13	E 25	7.5	1.7	0.2	0.2	+
17	2.7	4.8	E 11	16	7	14	24	7.5	1.6	E 0.2	0.2	+
18	2.7	4.8	E 10	15	7.5	16	20	7	1.5	0.2	0.1	+
19	2.7	5	E 13	13	7	18	17	6.5	1.4	0.2	0.1	+
20	3.0	5	E 11	12	7	16	15	6	1.2	0.2	0.1	+
21	3.5	4.8	10	11	8	15	17	5.5	1.1	0.2	+	+
22	E 10	4.8	9	12	14	13	18	5	1.0	0.2	+	+
23	E 10	4.8	9	15	10	12	16	5.5	1.0	0.2	+	+
24	E 12	4.8	8.5	13	9	12	14	5.5	1.0	0.2	+	+
25	11	4.6	8	12	8.5	12	13	4.8	0.9	0.1	+	+
26	8.5	4.6	8	16	8.5	11	12	5	0.9	0.1	+	+
27	8	4.6	8.5	18	8	10	12	4.6	0.9	0.1	+	+
28	8.5	4.6	9	20	8.5	10	12	4.4	0.8	0.1	+	+
29	8	4.8	24	18		9.5	12	4.4	0.8	0.1	+	+
30	6.5	5	20	16		9.5	11	4.4	0.8	0.1	+	+
31	5.5		15	14		9.5		4.2		E 0.1	+	
	141.9	139.1	349.0	446	243.5	342.0	636	218.8	58.5	8.5	7.1	+
MEAN	4.58	4.64	11.3	14.4	8.71	11.0	21.2	7.06	1.95	0.27	0.23	+
ACRE-FEET	281.	276.	692.	885.	484.	678.	1260.	434.	116.	17.	14.	+

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

YEAR OR PERIOD MEAN 7.10 ACRE-FEET 5140



STATION F67B-R

LITTLE SANTA ANITA CREEK below Sierra Madre Dam

LOCATION:

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

DRAINAGE AREA:

2.4 square miles.

CHANNEL AND CONTROL:

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

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed January 28, 1929 at Station F67R about 1000 feet downstream from present location.
Removed May 20, 1936.
Reinstalled May 21, 1936 in a 4 ft. x 3 ft. combination concrete stilling well and house.
An H.C.F. recorder was in service from October 1, 1941 to September 30, 1942.

REGULATION:

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

DIVERSIONS:

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

RECORDS AVAILABLE:

At Station F67R
January 28, 1929 to May 20, 1936.
At Station F67B-R
May 21, 1936 to September 30, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 5 second-feet, December 28.
Minimum no flow several months during year.
1929-1942
Maximum 620 second-feet, estimated, March 2, 1938.
Minimum no flow several months during each year.

ACCURACY:

Poor. Gage height discharge relation is very inconsistent due to high velocities past gage, and irregularities in the channel bottom. Gage heights and discharges frequently estimated or interpolated.
Fair after March 30, 1942 due to construction of a control sill to keep low flows near gage.

OPERATION:

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

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No F67B-R

Daily discharge, in second-feet of LITTLE SANTA ANITA CREEK below Sierra Madre Dam, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	1.2	E 0.7	E 0.2	+	+	+	+	+	+
2	0	0	0	1.4	E 0.6	E 0.2	+	+	+	+	+	+
3	0	0	+	E 1.0	E 0.5	E 0.1	+	+	+	+	+	+
4	0	0	+	E 1.0	E 0.4	+	+	+	+	+	+	+
5	0	0	+	E 1.2	E 0.4	+	E 0.8	+	+	+	+	+
6	0	0	+	E 1.2	E 0.4	+	E 1.0	+	+	+	+	+
7	0	0	+	E 1.2	E 0.3	E 0.1	E 1.1	+	+	+	+	+
8	0	0	+	E 1.2	E 0.2	E 0.2	E 1.2	+	+	+	+	+
9	0	0	+	E 1.2	E 0.1	E 0.3	1.2	+	+	+	+	+
10	0	0	1.1	E 1.2	+	E 0.4	1.2	+	+	+	+	+
11	0	0	2.7	E 0.8	+	E 0.5	1.2	+	+	+	+	+
12	0	0	1.0	E 0.6	+	E 0.6	1.2	+	+	+	+	+
13	0	0	E 0.7	E 0.8	+	E 0.6	0.3	+	+	+	+	+
14	0	0	E 0.5	0.8	+	E 0.7	0.1	+	+	+	+	+
15	0	0	E 0.3	+	+	E 0.7	0.1	+	+	+	+	+
16	0	0	E 0.3	E 0.1	+	E 0.6	0.2	+	+	+	+	+
17	0	0	E 0.3	0.3	+	E 0.6	0.3	+	+	+	+	+
18	0	0	E 0.3	0.4	+	E 0.5	0.3	+	+	+	+	+
19	0	0	E 0.3	0.6	+	E 0.5	+	+	+	+	+	+
20	0	0	E 0.3	0.7	+	E 0.5	+	+	+	+	+	+
21	0	0	E 0.3	0.8	E 0.1	E 0.4	+	+	+	+	+	+
22	0	0	E 0.3	1.0	E 0.1	E 0.3	0.4	+	+	+	+	+
23	0	0	E 0.3	1.0	E 0.2	E 0.2	0.4	+	+	+	+	+
24	0	0	E 0.3	1.0	E 0.3	E 0.1	+	+	+	+	+	+
25	0	0	E 0.3	1.0	E 0.4	+	+	+	+	+	+	+
26	0	0	E 0.7	1.0	E 0.5	+	0.6	+	+	+	+	+
27	0	0	E 1.3	1.0	E 0.4	+	+	+	+	+	+	+
28	0	0	1.6	1.0	E 0.3	+	0.1	+	+	+	+	+
29	0	0	1.4	1.0		+	+	+	+	+	+	+
30	0	0	1.2	0.9		+	+	+	+	+	+	+
31	0		1.0	E 0.8		+		+		+	+	
	0		16.5		5.9		11.7		+		+	
		0		27.4		8.3		+		+		+
Mean	0	0	0.53	0.88	0.21	0.27	0.39	+	+	+	+	+
Acre-Feet	0	0	33.	54.	12.	16.	23.	+	+	+	+	+

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

Year or Period — Mean 0.19 — Acre Feet 138.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F67B-R

DISCHARGE MEASUREMENTS OF LITTLE SANTA ANITA CREEK

below Sierra Madre Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
154	12-10	105P 108P	Haig	1.0	0.22	1.41		0.31		.6	2		FC 33
155	12-10	630P 635P	Haig-Keim	Two Channels			0.14	3.0		.6	7	0	"
156	12-26	1110A 1115A	Haig	" "				1.3		.6	4		"
157	12-29	405P 410P	"	" "			0.16	2.4		.6	7	0	FC 28
158	12-31	426P 432P	"	" "			0.14	1.5		.6	6	0	FC 33
159	2-5	1035A 1037A	"	1.4	0.13	3.30		0.43		.6	2		"
160	2-22	1212P 1218P	"	Two Channels				0.14		.6	5		"
161	3-12	402P 404P	"	1.0	0.15	4.00		0.60		.6	2		"
162	3-14	710P 720P	"	2.0	0.22	3.27		0.72		.6	3		"
163	4-9	1007A 1010A	"	2.3	0.27	4.60	0.28	1.2	Float		4	0	
164	4-16	920A 922A	"	3.0	0.22	3.24	0.32	0.70	Float		2	0	
165	5-27	130P	"					+	Vol.				
166	7-2	1100A 1101A	"				0.01	+	Vol.			0	
167	7-8	125P	Haig-Brewster				0.03	+	Vol.			0	
168	7-29	950A	Haig				0.01	+	Vol.			0	
169	8-5	1000A	"				0.02	+	Vol.			0	
170	8-12	910A	"				0.02	+	Vol.			0	
171	8-19	400P	"				0.02	+	Vol.			0	
172	8-27	920A	"				0.01	+	Vol.			0	

STATION F267R

LITTLE SANTA ANITA CREEK at Woodland Avenue

LOCATION:

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

DRAINAGE AREA:

3.8 square miles.

CHANNEL AND CONTROL:

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

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed December 30, 1938 over an 18 inch diameter corrugated iron pipe stilling well.
A Stevens type L recorder was in service from October 1, 1941 to September 30, 1942.

REGULATION:

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

DIVERSIONS:

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

EXTREMES OF DISCHARGE:

1941-1942
Maximum 60. second-feet, December 28.
Minimum no flow most of year.
1938-1942
Maximum not determined.
Minimum no flow most of each year.

ACCURACY:

Fair for low flows.
Poor for high flows.
Flows occasionally estimated due to temporary removal of recorder.

OPERATION:

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

REMARKS:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F267-R

DISCHARGE MEASUREMENTS OF LITTLE SANTA ANITA CREEK

AT Woodland Avenue DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
29	12-10	324P / 330P	Haig	9.7	2.64	6.98	0.25	18.4		.6	5	-.01	FC 33
30	12-29	342P / 348P	"	10.0	1.12	3.84	0.10	4.3		.6	5	-.01	"
31	3-14	240P / 242P	"	10.0	1.80	4.72	0.17	8.5	Float		1	-.02	

F.C. Dist. Form 52 3-41

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 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	+	0	+	0	0	0	0	0	0	0	+
2	0	+	0	+	0	0	0	0	0	0	0	+
3	0	+	2.9	0	0	0	0.3	0	0	0	0	+
4	0	+	0.1	0	0	0	0.1	0	0	0	0	+
5	0	+	+	0	0	0	+	0	0	0	0	+
6	0	+	+	0	0	0	0	0	0	0	0	+
7	0	+	0	0	0	0	0	0	0	0	0	+
8	0	+	0	0	0	0	0	0	0	0	0	+
9	0	+	0	0	0	0	0	0	0	0	E 0.4	+
10	0	+	6	0	0	0	2.0	0	0	0	E 0.7	+
11	0	+	2.2	0	0	0.1	2.6	0	0	0	0	+
12	0.2	0.7	+	0	0	+	1.5	0	0	0	0	+
13	+	+	0	0	0	+	1.5	0	0	0	0	+
14	+	+	0	0	0	2.0	2.0	0	0	0	0	+
15	+	+	0	0	0	+	2.4	0	0	0	0	+
16	+	+	0	0	0	+	0	0	0	0	+	+
17	+	0	0	0	0	+	0.4	0	0	0	+	0.1
18	0	0	0	0	0	0	0	0	0	0	+	+
19	0	0	0	0	0	0	0	0	0	0	+	+
20	0.3	0	0	0	0	0	0	0	0	0	+	+
21	+	0	0	0	2.1	0	0.6	0	0	0	+	+
22	+	0	0	+	0.7	0	0	0	0	0	+	+
23	+	0	3.0	+	+	0	0	0	0	0	+	+
24	+	0	3.0	+	0.1	0	0	0	0	0	+	+
25	+	0	2.8	+	+	0	0	0	0	0	+	+
26	0	0	2.0	0	0	0	0	0	0	0	+	+
27	0.3	0	2.0	0	0	0	0	0	0	0	+	0
28	+	0	6	0	0	0	0	0	0	0	+	0
29	+	0	6.5	0		0	0	0	0	0	+	0
30	+	0	1.1	0		0	0	0	0	0	+	0
31	+		+	0		0		0		0	+	
	0.8	0.7	37.6	+	2.9	2.1	13.4	0	0	0	1.1	0.1
MEAN	0.03	0.02	1.21	+	0.10	0.07	0.45	0	0	0	0.04	+
ACRE-FEET	1.6	1.4	75.	+	5.8	4.2	27.	0	0	0	2.2	0.20

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

YEAR OR PERIOD — MEAN 0.16 — ACRE-FEET 116

STATION F19R

LITTLE TUJUNGA WASH at Foothill Boulevard

LOCATION:

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

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, 1941 to September 30, 1942.

REGULATION:

None.

DIVERSIONS:

None known.

RECORDS AVAILABLE:

December 26, 1928 to September 30, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 198 second-feet, December 28.
Minimum no flow part of year.
1929-1942
Maximum 8500 second-feet, estimated, March 2, 1938.
Minimum no flow part of each year.

OPERATION:

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

ACCURACY:

Fair.
Low flows frequently interpolated or estimated due to channel shifts or communication being obstructed by sand.

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, 1942

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METER OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
264	10-15	1000A 1005A	Luce	1.5	0.13	0.31	2.95	0.04		.6	3	0	FC 39
265	10-23	945A 950A	"	1.5	0.12	0.42	2.96	0.05		.6	3	0	"
266	10-30	930A 940A	"	1.7	0.18	0.50	2.99	0.09		.6	3	0	"
267	11-6	1015A 1018A	"	1.6	0.17	0.53	2.98	0.09		.6	3	0	"
268	11-13	1235P 1238P	"	1.7	0.15	0.40	2.97	0.06		.6	3	0	"
269	11-19	1150A 1154A	"	1.7	0.20	0.45	2.98	0.09		.6	3	0	"
270	12-3	325P 330P	"	1.8	0.23	0.61	3.01	0.14		.6	4	0	"
271	12-10	226P 232P	Luce-Pardieck	13.0	8.25	2.93	3.56	24.2		.6	7	+.02	"
272	12-11	1235P 1240P	Luce	3.0	0.58	1.41	3.16	0.82		.6	4	0	"
273	12-28	455P 503P	Luce-Pardieck	13.0	3.22	2.48	3.26	8.0		.6	8	-.04	"
274	12-28	810P 829P	"	56.0	34.1	4.60	3.91	158.		.6	13	+.08	"
275	12-29	220A 226A	"	24.0	8.23	3.71	3.49	30.6		.6	10	-.01	"
276	12-29	1216P 1220P	"	12.5	3.02	2.35	3.44	7.1		.6	6	+.01	"
277	1-1	215P 220P	Luce	4.0	0.67	1.94	3.36	1.3		.6	5	0	"
278	1-22	1117A 1121A	"	2.2	0.23	1.04	3.36	0.24		.6	4	0	"
279	1-29	1205P 1210P	"	2.5	0.36	1.16	3.17	0.42		.6	4	0	"
280	2-5	1055A 1100A	"	2.5	0.32	1.25	3.22	0.40		.6	5	0	"
281	2-11	1035A 1040A	"	2.5	0.25	1.12	3.38	0.28		.6	3	0	"
282	2-19	1245P 1250P	"	2.5	0.32	1.00	3.17	0.32		.6	5	0	"
283	2-21	455P 458P	Luce-Pardieck	2.7	0.66	1.52	3.24	1.0		.6	5	0	"
284	3-11	835A 840A	Luce	11.3	2.68	1.87	3.37	5.0		.6	6	0	"
285	3-12	1040A 1045A	"	3.0	0.37	1.00	3.29	0.37		.6	5	0	"
286	3-14	328P 331P	Luce-Pardieck	3.8	1.04	2.30	3.35	2.4		.6	5	+.03	"
287	3-14	500P 515P	Luce	9.2	4.21	3.09	3.53	13.0		.6	9	+.01 -.01	"
288	3-14	1125P 1129P	Luce-Pardieck	11.0	2.13	1.79	3.30	3.8		.6	6	-.01	FC 39
289	4-14	1130A 1140A	Luce	15.0	3.01	2.76	3.44	8.3		.6	6	-.01	"
290	4-14	440P 445P	Luce-Truitt	4.5	0.70	2.00	3.37	1.4		.6	4	0	"
291	4-16	925A 930A	Luce	2.4	0.17	1.12	3.28	0.19		.6	4	0	"
292	4-23	1055A 1100A	"	2.5	0.25	0.92	3.30	0.23		.6	4	0	"
293	4-30	945A 950A	"	2.8	0.33	0.79	3.16	0.26		.6	4	0	"
294	5-7	1020A 1030A	Luce-B.Luce	2.0	0.22	0.91	3.16	0.20		.6	4	0	"
295	5-14	1035A 1037A	Luce	1.2	0.04	0.25	3.10	0.01		.6	2	0	"
296	5-28	950A 955A	"	1.5	0.10	0.60	3.10	0.06		.6	3	0	"
297	6-17	1051A 1053A	"	1.0	0.05	0.40	3.08	0.02		.6	2	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

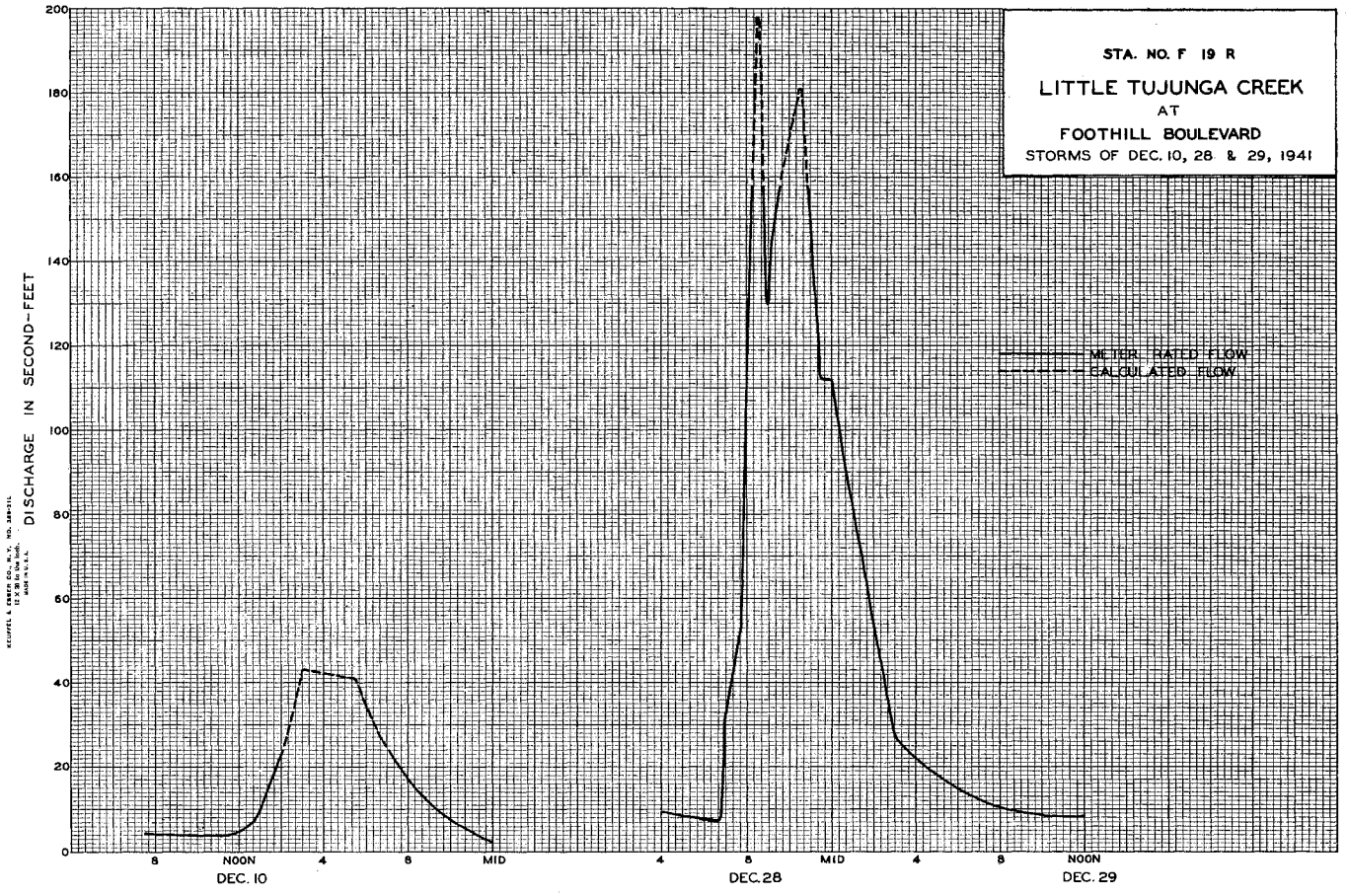
Sta. No. F19-R

Daily discharge, in second-feet of LITTLE TUJUNGA CREEK at Foothill Boulevard for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.1	+	0.6	0.4	+	0	0.1	+	0	0	0
2	0.1	0.1	+	0.5	0.3	+	0	0.1	+	0	0	0
3	0.1	0.1	0.1	0.3	0.4	+	0	0.1	+	0	0	0
4	0.1	0.1	0.2	0.1	0.4	+	0.1	0.1	+	0	0	0
5	0.1	0.1	0.1	0.1	0.4	+	0	0.1	+	0	0	0
6	0.1	0.1	0.1	+	0.4	+	0	0.1	+	0	0	0
7	+	0.1	0.1	+	0.5	+	0	0.1	+	0	0	0
8	+	0.1	0.1	0	0.5	+	0	0.1	+	0	0	0
9	+	0.1	0.1	0	0.3	+	0	+	+	0	0	0
10	+	0.1	1.1	0	0.4	+	0.2	+	+	0	0	0
11	+	0.1	1.1	0	0.3	0.6	0	0.1	+	0	0	0
12	+	0.1	0.3	0	E 0.3	0.5	0	+	+	0	0	0
13	+	0.1	0	0	E 0.3	0.7	0	+	+	0	0	0
14	+	0.1	0	0	E 0.5	2.5	2.1	+	+	0	0	0
15	+	0.1	0	0	E 0.3	0.1	0.2	+	+	0	0	0
16	+	0.1	0	0	E 0.3	+	0.1	+	+	0	0	0
17	+	0.1	0	0	E 0.3	+	0.3	+	+	0	0	0
18	+	0.1	0	0	E 0.2	+	0.2	+	+	0	0	0
19	+	0.1	0	0	E 0.3	+	0.3	+	+	0	0	0
20	+	0.1	+	0	0.3	+	0.4	+	+	0	0	0
21	+	0.1	0.1	+	0.9	+	0.6	+	+	0	0	0
22	+	0.1	0	0.1	1.6	+	0.5	+	+	0	0	0
23	+	0.1	+	0.4	0.7	+	0.2	+	+	0	0	0
24	+	+	+	1.2	0.5	+	0.2	+	0	0	0	0
25	0.1	+	+	2.1	0.1	+	0.2	+	0	0	0	0
26	+	+	+	2.0	0.1	0	0.2	+	0	0	0	0
27	0.1	+	+	1.1	0.1	0	0.2	+	0	0	0	0
28	0.1	+	3.0	0.5	+	0	0.2	+	0	0	0	0
29	0.1	+	1.6	0.4		0	0.2	+	0	0	0	0
30	0.1	+	2.5	0.4		0	0.2	+	0	0	0	0
31	0.1		1.6	0.5		0		+		0	0	
	1.2	2.3	63.3	10.3	11.0	4.6	6.6	0.9	+	0	0	0
MEAN	0.04	0.08	2.04	0.33	0.39	0.15	0.22	0.03	+	0	0	0
ACRE-FEET	2.4	4.5	126.	20.	22.	9.1	13.	1.8	+	0	0	0

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

YEAR OR PERIOD MEAN 0.27 ACRE FEET 199.



STATION F31R

LIVE OAK CREEK above Mouth of Canyon

LOCATION:

On the right (west) bank of stream near mouth of canyon, about ½ mile below Live Oak Dam, and about 2 miles northeast of La Verne.

DRAINAGE AREA:

2.6 square miles.

CHANNEL AND CONTROL:

Channel-sand, gravel and rocks.
Control-concrete with a 2 foot Cipolletti weir 12 inches deep.

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed January 4, 1928 in a concrete house over a 3 ft x 4 ft concrete stilling well. A horizontal rational recorder was in service from October 1, 1940 to March 18, 1941. An H.C.F. continuous recorder was in service from October 1, 1941 to September 30, 1942.

EXTREMES OF DISCHARGE:

1941-1942
No flow for entire year.
1928-1942
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.

REMARKS:

No mean daily discharge tabulation is shown as the stream was dry during this season.

REGULATION:

Flow regulated by Live Oak Dam.

DIVERSIONS:

None.

RECORDS AVAILABLE:

January 4, 1928 to September 30, 1942.

STATION F5B-R

LOS ANGELES RIVER below Sepulveda Boulevard

LOCATION:

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

DRAINAGE AREA:

157 square miles.

CHANNEL AND CONTROL:

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

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed December 19, 1928 at Station F5R. Removed March 2, 1938. Reinstalled April 28, 1938.
Moved to station F5B-R on August 23, 1941 and installed over a 24 inch diameter, corrugated iron pipe stilling well. Communication to well is thru 31 feet of 36 inch corrugated iron pipe. An H.C.F. continuous recorder was in service from October 1, 1941 to November 27, 1941. An Au continuous recorderwas in service from November 27, 1941 to September 30, 1942.

REGULATION:

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

DIVERSIONS:

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

RECORDS AVAILABLE:

At Station F5R
December 19, 1928 to March 2, 1938 and from April 28, 1938 to August 23, 1941.
At Station F5B-R
August 23, 1941 to September 30, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 1040 second-feet, December 28.
Minimum 4.4 second-feet, July.
1929-1942
Maximum 12000 second-feet, estimated, March 2, 1938
Minimum flow negligible at various times.

ACCURACY:

Fair.
Low flows occasionally interpolated due to recorder failure.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F5B-R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

at below Sepulveda Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
17	10-2	1133A 1138A	Bollinger-Van der Goot	10.0	6.55	1.19	1.08	7.8		.6	7	0	FC 6
18	10-6	1240P 1255P	U.S.E.D.	14.3	6.59	1.08	1.08	7.1		.6	10	+.01	
19	10-6	1256P 110P	"	14.3	6.54	1.06	1.08	6.9		.6	10	+.01	
20	10-9	400P 408P	Bollinger	10.2	4.41	1.29	0.89	5.7		.6	9	0	FC 6
21	10-13	1040A 1055A	U.S.E.D.	13.8	5.34	1.19	1.00	6.3		.6	11	0	
22	10-13	1100A 1112A	"	13.8	5.68	1.09	1.00	6.2		.6	11	0	
23	10-16	253P 300P	Bollinger	10.3	5.29	1.32	1.02	7.0		.6	8	+.01	FC 6
24	10-20	332P 345P	U.S.E.D.	14.0	6.13	1.17	1.04	7.2		.6	9	0	
25	10-21	905A 915A	"	14.0	11.4	1.23	1.57	14.0		.6	4	0	
26	10-22	245P 300P	"	11.8	5.21	1.32	1.09	6.9		.6	11	0	
27	10-22	300P 310P	"	11.8	5.38	1.32	1.09	7.1		.6	11	0	
28	10-22	315P 324P	Bollinger	11.2	4.71	1.53	1.08	7.2		.6	8	-.01	FC 6
29	10-23	705A 725A	U.S.E.D.	14.0	8.44	1.79	1.69	15.1		.6	13	-.04	
30	10-23	725A 754A	"	13.8	8.49	1.61	1.62	13.7		.6	12	-.05	
31	10-23	1000A 1025A	U.S.G.S.	10.8	5.75	1.84	1.31	10.6		.6	22	-.02	1677
32	10-27	230P 245P	U.S.E.D.	11.6	6.03	1.61	1.15	9.7		.6	12	-.02	
33	10-27	245P 300P	"	11.6	5.83	1.58	1.14	9.2		.6	12	-.02	
34	10-30	256P 307P	Bollinger	10.2	4.38	1.53	0.89	6.7		.6	10	0	FC 6
35	11-3	1215P 1232P	U.S.E.D.	10.0	4.70	1.38	0.95	6.5		.6	10	0	
36	11-6	420P 430P	Bollinger	10.4	4.64	1.47	0.94	6.8		.6	8	0	FC 6
37	11-13	433P 440P	"	10.5	4.73	1.44	0.95	6.8		.6	8	0	"
38	11-17	845A 910A	U.S.G.S.	9.7	4.64	1.51	0.98	7.0		.6	19	-.01	1677
39	11-17	400P 410P	U.S.E.D.	11.1	4.99	1.34	0.94	6.7		.6	9	0	US 6
40	11-17	410P 416P	"	11.1	4.93	1.34	0.93	6.6		.6	9	0	"
41	11-19	355P 405P	Bollinger	12.3	4.77	1.40	0.94	6.7		.6	9	-.01	FC 6
42	11-24	259P 315P	U.S.E.D.	10.6	4.67	1.17	0.88	5.5		.6	10	-.01	US 8
43	11-27	400P 408P	Bollinger	11.2	4.06	1.39	0.94	5.7		.6	9	0	FC 6
44	12-1	216P 228P	U.S.E.D.	10.9	4.92	1.24	0.95	6.1		.6	10	0	US 8
45	12-1	228P 238P	"	10.9	4.91	1.23	0.95	6.0		.6	10	0	"
46	12-3	235P 255P	"	15.0	10.4	1.42	1.54	14.8		.6	6	-.08	35617
47	12-3	645P 655P	Bollinger	11.8	6.62	1.77	1.20	11.7		.6	7	0	FC 6
48	12-4	410P 417P	"	10.3	4.60	1.35	0.92	6.2		.6	8	0	"
49	12-8	143P 154P	U.S.E.D.	10.7	4.60	1.17	0.94	5.6		.6	11	0	US 8
50	12-8	154P 205P	"	10.7	4.45	1.21	0.94	5.4		.6	11	0	"
51	12-10	240P 300P	"	29.0	31.0	1.38	2.50	43.0		.6	10	-.05	35617
52	12-10	440P 515P	"	30.0	33.0	1.81	2.60	60.0		.6	11	-.02 +.02	"
53	12-10	740P 758P	Bollinger	28.0	41.4	1.46	2.69	60.6		.6	6	-.07	FC 6
54	12-11	755A 815A	U.S.G.S.	15.4	11.3	1.60	1.75	18.1		.6	19	-.02	1677
55	12-12	235P 243P	Bollinger	11.5	5.23	1.47	0.99	7.7		.6	9	-.01	FC 6
56	12-15	417P 428P	U.S.E.D.	10.9	4.71	1.34	0.85	6.3		.6	8	0	US 8
57	12-15	428P 438P	"	10.9	4.68	1.44	0.85	6.8		.6	8	0	"
58	12-18	447P 455P	Bollinger	10.1	4.34	1.52	0.80	6.6		.6	9	0	FC 6
59	12-22	336P 345P	U.S.E.D.	10.9	4.35	1.31	0.80	5.7		.6	7	0	US 8
60	12-22	345P 355P	"	10.9	4.58	1.24	0.80	5.7		.6	8	0	"
61	12-26	508P 518P	Bollinger	11.5	5.77	1.56	0.98	9.0		.6	10	0	FC 6
62	12-28	915P 945P	Bollinger-Rickart	48.0	181.	4.64	5.81	840.		.6	11	-.28	"
63	12-28	1000P 1038P	"	47.0	164.	4.03	5.36	662.		.6	11	-.40	"
64	12-28 12-29	1150P 100A	U.S.E.D.	40.0	110.	3.14	4.27	345.		.6	8	-.70	35617

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F5B-R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

AT below Sepulveda Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
65	12-29	710A 740A	U.S.G.S.	30.0	51.8	2.03	2.90	105.		.2 .8	18	+.01	1677
66	12-30	220P 234P	U.S.E.D.	12.7	12.7	0.88	0.97	11.2		.6	8	0	US 8
67	12-30	234P 244P	"	12.7	12.7	0.86	0.97	10.9		.6	8	0	"
68	12-30	412P 425P	Bollinger	12.5	10.7	1.14	0.96	12.2		.6	9	0	FC 6
69	12-31	232P 246P	"	12.0	10.7	0.86	0.76	9.2		.6	10	0	"
70	1-3	200P 210P	U.S.E.D.	11.8	10.8	0.75	0.60	8.1		.6	8	0	US 8
71	1-3	210P 220P	"	11.8	10.6	0.77	0.60	8.2		.6	9	0	"
72	1-5	345P 400P	"	11.5	9.87	0.76	0.56	7.5		.6	8	0	"
73	1-7	240P 255P	"	6.4	7.02	1.11	0.56	7.8		.6	6	0	"
74	1-8	510P 517P	Bollinger	11.5	8.91	0.94	0.52	8.4		.6	8	0	FC 6
75	1-12	248P 300P	U.S.E.D.	10.7	7.47	0.94	0.48	7.0		.6	7	0	US 8
76	1-15	430P 438P	Bollinger	13.5	9.75	0.66	0.64	6.4		.6	9	-.01	FC 6
77	1-19	345P 357P	U.S.E.D.	7.2	2.86	1.90	0.59	5.4		.6	7	0	US 8
78	1-22	212P 223P	Bollinger	13.6	11.1	0.73	0.63	8.1		.6	11	0	FC 6
79	1-26	305P 315P	U.S.E.D.	12.8	9.83	0.69	0.62	6.8		.6	7	0	US 8
80	1-27	820A 840A	U.S.G.S.	12.4	10.2	0.81	0.63	8.3		.6	21	0	1677
81	1-29	318P 336P	Bollinger	13.9	10.9	0.74	0.59	8.1		.6	9	0	FC 6
82	2-2	350P 402P	U.S.E.D.	12.7	9.57	0.66	0.59	6.3		.6	8	0	US 8
83	2-5	430P 440P	Bollinger	13.8	12.8	0.85	0.77	11.0		.6	11	+.01	FC 6
84	2-9	200P 213P	U.S.E.D.	12.5	10.0	0.88	0.76	8.8		.6	7	0	US 8
85	2-11	433P 443P	Bollinger	12.3	9.30	1.09	0.74	10.1		.6	11	+.01	FC 6
86	2-16	300P 312P	U.S.E.D.	12.0	8.61	1.10	0.79	9.4		.6	7	0	US 8
87	2-19	455P 505P	Bollinger	11.8	9.08	1.16	0.82	10.5		.6	8	0	FC 6
88	2-21	238P 245P	"	12.5	15.7	1.49	1.53	23.3		.6	9	0	"
89	2-22	202A 228A	Bollinger	22.0	21.1	1.58	1.90	33.4		.6	11	-.03	FC 6
90	2-22	248A 312A	"	19.0	19.7	1.38	1.79	27.2		.6	11	-.04	"
91	2-22	805A 825A	U.S.G.S.	15.8	10.2	1.82	1.29	18.6		.6	20	-.02	1677
92	2-23	237P 248P	U.S.E.D.	11.5	8.88	1.10	0.84	9.8		.6	9	0	US 8
93	2-26	503P 512P	Bollinger	11.5	10.0	1.01	0.82	10.1		.6	9	0	FC 6
94	3-2	323P 334P	U.S.E.D.	11.5	9.17	0.98	0.80	9.0		.6	9	0	US 8
95	3-5	510P 520P	Bollinger	11.0	9.50	0.99	0.80	9.4		.6	10	0	FC 6
96	3-9	225P 235P	U.S.E.D.	13.0	7.32	1.07	0.84	7.8		.6	8	-.01	US 8
97	3-11	1240P 100P	"	16.1	8.32	1.37	1.10	11.4		.6	11	-.04	"
98	3-12	438P 445P	Bollinger	11.0	9.40	1.09	0.98	10.2		.6	8	0	FC 6
99	3-14	350P 358P	Bollinger-Rickart	20.5	30.2	1.81	2.36	54.6		.6	10	-.05	"
100	3-15	820A 840A	U.S.G.S.	19.6	11.9	1.58	1.54	18.8		.6	20	-.02	1677
101	3-16	248P 300P	U.S.E.D.	13.0	9.59	0.97	1.02	9.3		.6	9	0	US 8
102	3-19	525P 533P	Bollinger	11.5	12.9	0.70	0.92	9.0		.6	8	0	FC 6
103	3-23	120P 131P	U.S.E.D.	13.4	10.0	0.92	0.95	9.2		.6	10	0	US 8
104	3-26	535P 543P	Bollinger	13.0	9.52	0.90	0.90	8.6		.6	8	+.01	FC 6
105	3-30	117P 128P	U.S.E.D.	11.0	10.5	0.86	1.02	9.0		.6	11	0	US 8
106	4-2	437P 445P	Bollinger	12.5	8.83	0.96	0.98	8.5		.6	8	0	FC 6
107	4-4	1112A 1122A	U.S.E.D.	13.5	10.9	1.13	1.25	12.3		.6	8	0	35633
108	4-6	255P 310P	"	14.5	13.9	1.07	1.28	14.8		.6	10	-.10	US 8
109	4-9	322P 332P	Bollinger	12.5	9.16	1.16	0.97	10.6		.6	8	0	FC 6
110	4-11	820A 840A	U.S.G.S.	14.4	13.8	1.30	1.44	18.0		.6	18	0	1677
111	4-13	325P 340P	U.S.E.D.	11.0	8.62	1.05	0.86	9.1		.6	8	0	US 8
112	4-14	1112A 1121A	"	11.5	14.3	1.36	1.62	19.4		.6	8	-.025	35633
113	4-14	256P 307P	Bollinger	13.5	11.5	1.29	1.24	14.8		.6	10	-.01	FC 6
114	4-16	215P 225P	"	12.4	9.06	1.08	0.89	9.8		.6	9	0	"
115	4-20	1230P 1245P	U.S.E.D.	9.5	8.16	1.19	0.90	9.7		.6	7	0	US 8
116	4-23	422P 430P	Bollinger	11.0	8.78	1.12	0.86	9.8		.6	8	0	FC 6
117	4-27	127P 138P	U.S.E.D.	9.5	8.44	1.15	0.94	9.7		.6	8	-.01	US 8
118	4-30	245P 255P	Bollinger	11.7	9.06	1.11	1.00	10.4		.6	8	-.01	FC 6
119	5-4	240P 253P	U.S.E.D.	9.5	8.21	1.04	0.94	8.5		.6	7	-.01	US 8
120	5-7	523P 530P	Bollinger	11.8	9.26	1.14	0.98	10.5		.6	7	-.01	FC 6
121	5-11	120P 135P	U.S.E.D.	10.0	8.32	1.19	0.97	9.9		.6	10	0	US 8
122	5-14	505P 515P	Bollinger	9.5	5.70	1.40	0.67	8.0		.6	9	-.02	FC 6
123	5-18	900A 920A	U.S.G.S.	10.0	5.16	1.16	0.54	6.0		.6	20	-.01	1677
124	5-18	200P 212P	U.S.E.D.	9.4	5.33	1.07	0.53	5.7		.6	10	0	US 8
125	5-21	215P 225P	Bollinger	14.5	14.9	1.27	1.53	18.9		.6	11	-.01	FC 6
126	5-25	205P 215P	U.S.E.D.	8.6	5.27	1.11	0.54	5.8		.6	8	0	US 8
127	5-28	440P 448P	Bollinger	12.0	5.80	1.16	0.56	6.7		.6	8	0	FC 6
128	6-1	221P 230P	U.S.E.D.	8.1	3.64	1.84	0.66	6.7		.6	7	0	US 8
129	6-3	204P 213P	Bollinger	12.0	5.90	1.12	0.57	6.6		.6	9	-.09	FC 6
130	6-3	225P 235P	"	11.5	6.53	1.01	0.55	6.6		.6	9	+.02	"
131	6-6	540P 600P	U.S.G.S.	9.5	5.84	1.28	0.71	7.5		.6	19	+.01	1677
132	6-8	140P 148P	U.S.E.D.	8.3	6.36	1.19	0.77	7.6		.6	8	0	US 8
133	6-11	515P 525P	Bollinger	13.0	8.54	1.18	0.92	10.1		.6	11	+.01	FC 6
134	6-15	214P 222P	U.S.E.D.	8.8	7.26	1.33	0.98	9.6		.6	8	0	US 8
135	6-17	430P 440P	Bollinger	15.0	8.86	1.24	0.98	11.0		.6	10	0	FC 6
136	6-22	203P 214P	U.S.E.D.	9.0	8.13	1.14	0.98	9.3		.6	9	0	US 8
137	6-25	925A 933A	Bollinger	13.5	8.44	1.08	1.03	9.1		.6	9	0	FC 6
138	6-27	133P 142P	U.S.E.D.	9.5	8.18	1.20	0.98	9.8		.6	9	-.01	US 8
139	7-2	941A 953A	Bollinger	13.8	8.62	1.15	1.00	9.9		.6	11	0	FC 6
140	7-6	1245P 1255P	U.S.E.D.	9.4	8.44	1.15	0.97	9.7		.6	9	+.02	US 8
141	7-9	247P 256P	Bollinger	12.4	8.25	1.08	0.96	8.9		.6	9	0	FC 6
142	7-11	720A 740A	U.S.G.S.	13.6	9.14	1.09	1.12	10.0		.6	17	0	1677
143	7-13	105P 115P	U.S.E.D.	10.6	9.89	1.03	1.04	10.2		.6	10	-.02	US 8
144	7-16	612P 622P	Bollinger	12.5	8.70	1.28	1.09	11.1		.6	10	0	FC 6
145	7-20	1120A 1130A	U.S.E.D.	12.0	9.49	1.08	1.09	10.2		.6	9	0	US 8
146	7-23	105P 115P	Luce	12.0	7.71	1.10	0.96	8.5		.6	8	0	FC 39
147	7-27	211P 222P	U.S.E.D.	9.3	5.48	0.87	0.53	4.8		.6	10	-.01	US 8
148	7-30	1102A 1112A	Luce	9.6	6.11	0.95	0.73	5.8		.6	10	0	FC 39
149	8-3	1222P 1235P	U.S.E.D.	10.3	7.26	0.99	0.84	7.2		.6	10	0	US 8
150	8-6	605P 610P	Bollinger	10.5	7.63	0.98	0.81	7.5		.6	7	0	FC 6
151	8-10	1125A 1145A	U.S.G.S.	11.0	8.68	1.07	1.05	9.3		.6		0	
152	8-13	326P 336P	Bollinger	10.9	7.98	1.03	0.82	8.2		.6	9	-.01	FC 6
153	8-20	532P 540P	"	10.3	4.83	1.29	0.62	6.2		.6	9	-.01	"
154	8-27	250P 258P	"	10.5	6.35	0.99	0.64	6.3		.6	8	+.01	"
155	9-3	315P 326P	"	10.0	8.40	0.94	0.96	7.9		.6	8	+.03	"
156	9-10	1025A 1055A	U.S.G.S.	11.1	7.64	0.90	0.92	6.9		.6	22	-.01	28
157	9-10	415P 435P	Bollinger	10.2	6.93	1.02	0.88	7.1		.6	8	-.01	FC 6
158	9-17	310P 320P	"	10.2	8.97	1.03	1.15	9.2		.6	9	0	"
159	9-24	1125A 1130A	"	9.0	9.45	0.90	1.24	8.5		.6	6	0	"

F.C. Dist. Form 82 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

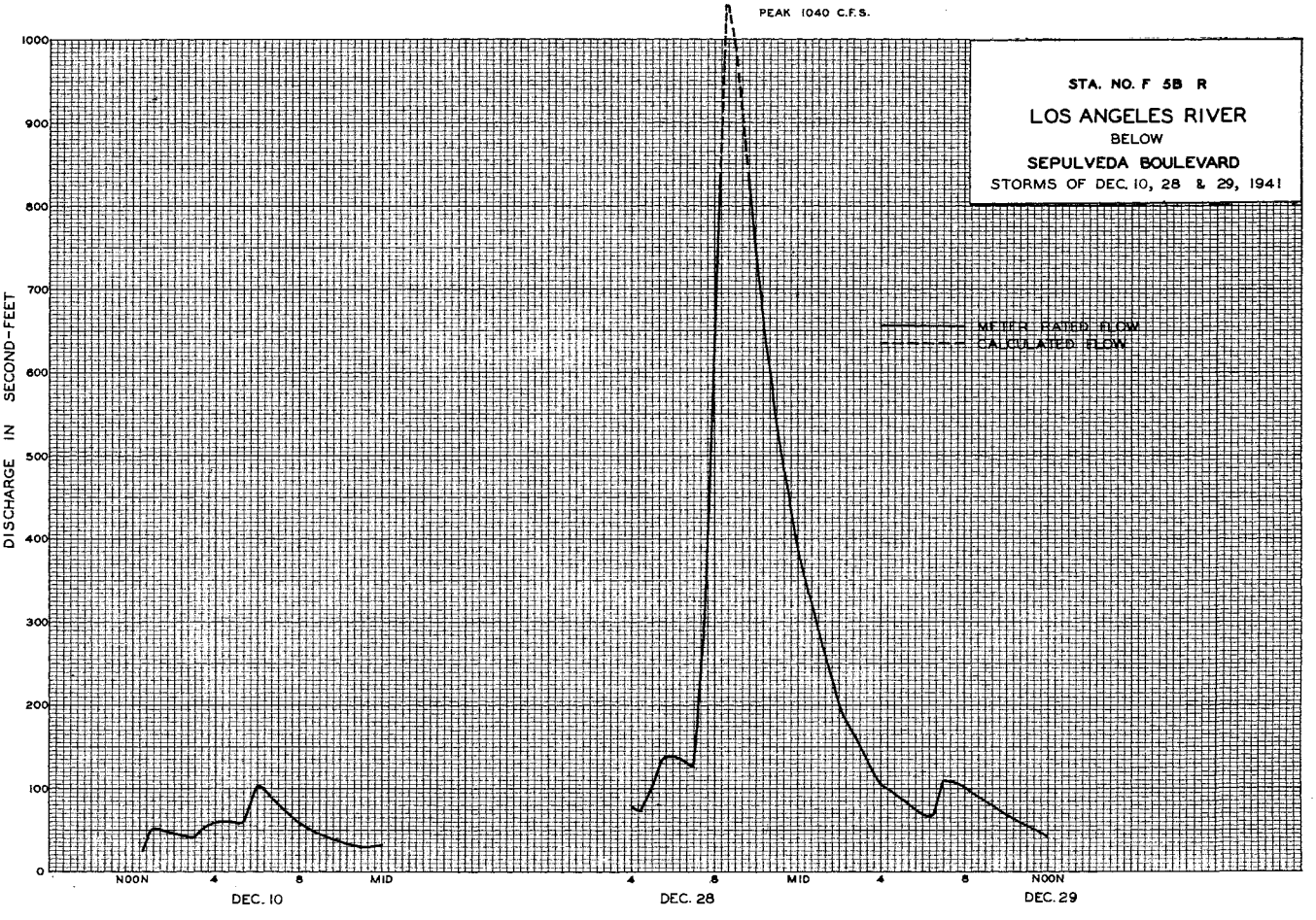
Sta. No. F5B-R

Daily discharge, in second-feet of LOS ANGELES RIVER below Sepulveda Boulevard, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8	7.5	6	8.5	E 8	10	9.5	10	6.5	9.5	5.5	14
2	7.5	7	6	8	E 8	10	9	9	7	10	6	8.5
3	7.5	7	10	8	E 9	10	E 9.5	8.5	7.5	10	7	6.5
4	7.5	7	6.5	8	E 10	10	E 12	8.5	7.5	10	7	6.5
5	8	7	6	8.5	11	10	E 10	8.5	7.5	9.5	8	6.5
6	7	7	6	8.5	11	10	E 12	9	7.5	9.5	7.5	6
7	6	7	5.5	8.5	E 11	9	10	10	7	9.5	7.5	5.5
8	7	7.5	5.5	8.5	E 10	8.5	10	9.5	7	9	8	6
9	6.5	7	6.5	8	E 10	8.5	11	9	8	9	8.5	6.5
10	6.5	6.5	31	7.5	10	9.5	14	9	9	9	13	7
11	6.5	6.5	17	7.5	12	11	16	9.5	9.5	9.5	8	8
12	8.5	7	8	7	12	11	11	9	9.5	10	8.5	10
13	6.5	7	7	7	11	10	10	9.5	10	11	9	10
14	7	7	7	7	11	37	18	9.5	10	11	9	10
15	6.5	7	7	6.5	11	21	13	6.5	10	11	8.5	9.5
16	7	7	6.5	6.5	E 11	9.5	10	6.5	11	11	8.5	9.5
17	7	7	6.5	6.5	E 11	9.5	12	6.5	11	11	8	9.5
18	7	6.5	7	5.5	11	9.5	9.5	6	11	11	8	9
19	7	6.5	6.5	5.5	11	9.5	9	5.5	11	10	6.5	8.5
20	7	6.5	10	6	E 11	9	9.5	5.5	11	10	6.5	8.5
21	8.5	6	6.5	6	21	9.5	11	19	10	10	6.5	8
22	11	6.5	6	8.5	18	9.5	11	16	9.5	9.5	6.5	7.5
23	17	6	6.5	8	11	9.5	11	5.5	9.5	9.5	6.5	7.5
24	17	5.5	7	8	10	10	10	5.5	8.5	7.5	6.5	8
25	8.5	5.5	9	8.5	10	10	10	6	9	5	7	8
26	8	6	9.5	8.5	10	9.5	10	5.5	9	5	9.5	6.5
27	8.5	5.5	8	8	10	10	9.5	6	10	5	7.5	7
28	8	5.5	161	8	9.5	10	10	6.5	9.5	6	6.5	7
29	7.5	6	78	8.5		9.5	9.5	7	9.5	6	6.5	7.5
30	7	6	13	E 8		9.5	10	7	9.5	5.5	6.5	9
31	7		9.5	E 8		9.5		6.5		5.5	9.5	
	249.5	197.0	485.5	235.0	309.5	339.0	327.0	255.5	272.5	275.0	237.5	241.5
Mean	8.05	6.57	15.7	7.58	11.1	10.9	10.9	8.24	9.08	8.87	7.66	8.05
Acre-Feet	495.	391.	963.	466.	614.	672.	649.	507.	540.	545.	471.	479.

Remarks: E = estimated.

Year or Period Mean 9.38
Acre-Feet 6790.



STATION F266R

LOS ANGELES RIVER at Mariposa Street

LOCATION:

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

DRAINAGE AREA:

430 square miles.

CHANNEL AND CONTROL:

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

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed December 20, 1938 in a concrete house over a 4 ft x 4.3 ft concrete stilling well. An H.C.F. recorder was in service from October 1, 1941 to September 30, 1942.

REGULATION AND/OR DIVERSIONS:

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

DIVERSIONS:

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

RECORDS AVAILABLE:

From December 20, 1938 to September 30, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 2290 second-feet, December 28.
Minimum 11.2 second-feet, several days.
1938-1942
Maximum 8450 second-feet, March 4, 1941.
Minimum 6.8 second-feet, May 20 and 21, 1940.

ACCURACY:

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

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F266-R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

AT Mariposa Street DURING THE YEAR ENDING SEPTEMBER 30, 1942

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
208	10-2	1002A / 1016A	Bollinger-Van der Goot	90.0	21.3	1.32	0.29	28.1		.6	16	0	FC 6
209	10-9	210P / 227P	Bollinger	91.0	28.5	1.50	0.29	42.6		.6	16	0	"
210	10-16	120P / 140P	"	91.5	32.5	1.44	0.34	46.9		.6	20	+.01	"
211	10-22	150P / 210P	"	91.5	34.2	1.42	0.33	48.7		.6	22	0	"
212	10-30	117P / 145P	"	94.0	33.4	1.34	0.33	44.6		.6	26	0	"
213	11-6	228P / 255P	"	Two Channels			0.38	42.3		.6	25	0	"
214	11-13	315P / 332P	"	90.0	32.3	1.31	0.39	42.3		.6	17	0	"
215	11-19	210P / 235P	"	92.0	32.2	1.40	0.35	45.2		.6	22	0	"
216	11-27	222P / 242P	"	Two Channels			0.39	47.5		.6	20	0	"
217	12-4	120P / 140P	"	92.0	30.1	1.40	0.24	42.2		.6	18	-.01	"
218	12-10	217P / 244P	Bollinger-Mayer	114.5	88.2	5.50	0.81	487.		.6	15	-.04	"
219	12-10	358P / 417P	"	118.0	109.	6.09	0.80	664.		.6	16	-.02	"
220	12-12	1025A / 1045A	Bollinger	94.0	30.8	2.02	0.33	62.0		.6	17	0	"
221	12-18	125P / 145P	"	93.5	28.0	1.98	0.30	55.4		.6	19	0	"
222	12-26	130P / 145P	"	96.0	30.9	2.05	0.49	63.4		.6	15	0	"
223	12-31	1210P / 1230P	"	Two Channels			0.40	70.7		.6	19	0	"
224	1-8	100P / 120P	"	95.0	30.5	1.85	0.55	56.5		.6	22	0	"
225	1-15	1118A / 1138A	"	98.0	30.5	1.88	0.48	57.5		.6	21	0	"
226	1-22	1130A / 1145A	"	Two Channels			0.33	59.8		.6	16	0	"
227	1-29	1255P / 120P	"	99.0	33.2	1.80	0.42	59.8		.6	21	-.02	"
228	2-5	1118A / 1140A	"	98.0	31.0	1.77	0.55	54.9		.6	22	0	"
229	2-11	1245P / 105P	"	100.5	34.2	1.92	0.46	61.1		.6	21	0	"
230	2-19	1233P / 100P	"	101.0	29.1	1.97	0.48	57.4		.6	25	+.01	"
231	2-26	110P / 130P	"	Two Channels			0.65	59.4		.6	20	0	"
232	3-5	103P / 122P	Bollinger	98.0	32.3	1.59	0.40	51.4		.6	21	0	FC 6
233	3-12	120P / 137P	"	91.0	31.2	1.68	0.35	52.5		.6	18	0	"
234	3-19	1107A / 1130A	"	89.0	27.2	1.98	0.28	53.9		.6	19	0	"
235	3-26	122P / 147P	"	88.0	27.4	1.90	0.30	52.0		.6	19	-.01	"
236	4-2	100P / 122P	"	90.0	29.3	1.65	0.38	48.5		.6	18	0	"
237	4-9	1257P / 115P	"	90.5	30.5	1.67	0.36	50.8		.6	20	-.01	"
238	4-14	100P / 122P	"	99.0	49.3	3.49	0.46	172.		.6	19	0	"
239	4-16	1250P / 110P	"	90.0	28.3	1.79	0.30	50.7		.6	17	0	"
240	4-23	105P / 123P	"	92.0	30.5	1.51	0.37	46.2		.6	16	0	"
241	4-30	115P / 135P	"	91.0	32.6	1.46	0.36	47.6		.6	16	0	"
242	5-7	108P / 122P	"	87.0	19.8	0.90	0.28	17.8		.6	13	-.01	"
243	5-14	1125A / 1140A	"	87.5	25.2	0.92	0.29	23.3		.6	17	0	"
244	5-21	1233P / 1255P	"	96.5	42.4	2.41	0.45	102.		.6	19	0	"
245	5-28	1153A / 1214P	"	92.0	34.5	1.65	0.38	56.8		.6	18	0	"
246	6-4	1235P / 1255P	"	92.0	36.6	1.73	0.39	63.3		.6	17	0	"
247	6-11	1130A / 1152A	"	89.0	27.4	1.39	0.31	38.1		.6	19	0	"
248	6-18	1120A / 1140A	"	89.5	27.7	1.46	0.31	40.4		.6	17	0	"
249	6-25	222P / 238P	"	86.0	18.6	1.23	0.23	22.9		.6	13	0	"
250	7-2	300P / 325P	"	88.5	27.2	1.42	0.31	38.5		.6	16	+.01	"
251	7-9	1118A / 1143A	"	94.0	37.2	1.90	0.40	70.7		.6	18	0	"
252	7-16	118P / 136P	"	88.5	24.0	1.21	0.31	29.1		.6	13	0	"
253	7-23	1055A / 1115A	Luce	90.5	23.2	1.20	0.30	28.0		.6	12	0	FC 39
254	7-30	900A / 915A	"	89.0	22.7	1.18	0.31	26.7		.6	13	0	"
255	8-6	1115A / 1133A	Bollinger	88.5	25.7	1.29	0.30	33.2		.6	12	-.01	FC 6
256	8-13	1132A / 1148A	Bollinger	88.5	23.0	1.18	0.28	27.2		.6	12	0	FC 6
257	8-20	1135A / 1147A	"	88.0	25.2	1.21	0.30	30.6		.6	10	0	"
258	8-27	1125A / 1140A	"	89.0	25.5	1.23	0.31	31.3		.6	10	0	"
259	9-3	100P / 115P	"	89.0	26.5	1.20	0.31	31.8		.6	12	0	"
260	9-10	1104A / 1117A	"	89.0	25.2	1.10	0.30	27.8		.6	11	0	"
261	9-17	1100A / 1115A	"	90.5	24.8	1.26	0.30	31.2		.6	11	0	"
262	9-24	1003A / 1011A	Bollinger-Van der Goot	91.0	21.2	1.20	0.28	25.4		.6	10	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

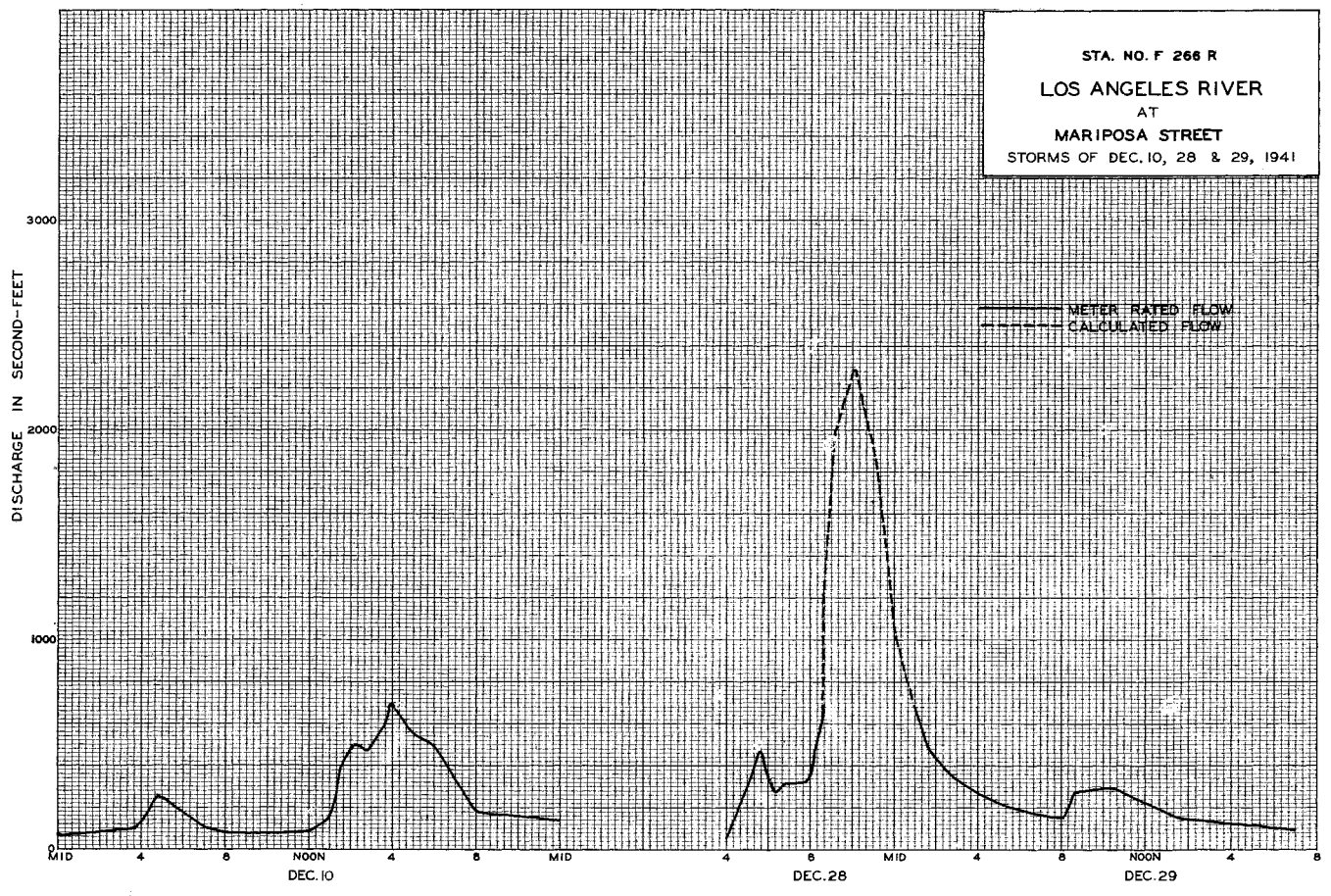
Sta. No. F266-R

Daily discharge, in second-feet of LOS ANGELES RIVER at Mariposa Street, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19	46	50	E 69	E 58	E 51	E 49	46	73	42	27	31
2	27	42	46	67	57	51	E 49	42	63	38	27	31
3	34	46	58	65	36	51	58	38	63	46	34	31
4	38	46	46	64	56	51	54	38	63	46	34	31
5	34	42	50	62	55	51	50	31	63	46	38	31
6	38	42	63	60	56	52	58	19	68	42	38	27
7	27	42	63	58	57	52	50	19	68	42	34	27
8	31	50	68	56	58	52	50	19	63	46	34	31
9	38	50	68	57	59	52	50	16	68	63	38	27
10	42	46	220	57	60	52	68	14	54	54	46	27
11	42	46	83	57	61	52	54	14	38	42	31	27
12	38	46	74	57	61	52	42	19	38	34	16	31
13	34	46	85	57	60	E 53	38	19	34	34	27	31
14	38	46	68	57	60	110	94	23	34	38	34	50
15	42	50	67	58	59	E 78	58	23	38	31	34	34
16	42	46	77	58	59	72	50	19	38	34	34	27
17	42	50	58	58	58	66	50	27	42	27	31	31
18	50	54	73	58	58	60	50	27	E 40	31	27	31
19	54	46	78	59	57	54	50	46	E 38	27	27	27
20	66	50	73	59	E 57	54	50	78	E 30	27	31	23
21	67	46	68	59	152	53	46	94	E 30	27	31	23
22	60	50	58	60	73	53	46	38	E 40	27	31	23
23	60	46	63	60	54	53	46	50	E 40	27	31	27
24	54	46	84	60	58	53	46	54	E 30	27	27	27
25	46	46	91	60	58	52	50	50	E 22	27	27	27
26	46	50	63	60	58	52	50	58	27	27	27	27
27	54	46	58	60	E 57	52	58	63	46	27	31	27
28	42	54	358	60	E 54	51	58	63	54	27	27	27
29	42	50	230	60		51	54	63	50	27	27	31
30	46	50	116	E 59		50	50	63	42	27	27	34
31	46		71	58		E 50		63		23	27	
	1339	1416	2728	1849	1726	1736	1576	1236	1397	1083	955	879
Mean	43.2	47.2	88.0	59.6	61.6	56.0	52.5	39.9	46.6	34.9	30.8	29.3
Acre-Feet	2660.	2810.	5410.	3670.	3420.	3440.	3130.	2450.	2770.	2150	1890.	1740.

Remarks: E = estimated or interpolated.

Year or Period — Mean 49.1 — Acre-Feet 35540



STATION F57C-R

LOS ANGELES RIVER above Arroyo Seco

LOCATION:

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

DRAINAGE AREA:

510 square miles.

CHANNEL AND CONTROL:

Channel-rectangular concrete 177 feet wide and 29 feet deep with an invert 20 feet wide at top, 16 feet wide at bottom and 1 foot deep, near center of channel.
Channel forms control.

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed May 26, 1938 at Station F57B-R. Removed April 5, 1939. Installed at Station F57C-R December 8, 1939 in a 4.5 ft. x 4.5 ft. concrete house and stilling well combined. A Friez continuous recorder, furnished by the United States Engineer Department, was in service from October 1, 1941 to September 30, 1942.

REGULATION AND/OR DIVERSIONS:

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

DIVERSIONS:

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

RECORDS AVAILABLE:

At Station F57R
December, 1929 to May 26, 1938.
At Station F57B-R
May 26, 1938 to April 5, 1939. April 5, 1939 to December 8, 1939, bi-weekly measurements.
At Station F57C-R
December 8, 1939 to September 30, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 5,260 second-feet, December 10.
Minimum 17.5 second-feet, August 7.
1929-1942 (Stations F57R, F57B-R and F57C-R)
Maximum 68000 second-feet, estimated, March 2, 1938.
Minimum no flow at times each year from 1929-1930 to 1933-1934.

ACCURACY:

Fair, due to frequency of measurements. Flows frequently interpolated between measurements due to poor gage height discharge relation caused by excessive mud and silt deposits and unequal water surface elevations at gage normal to channel.

OPERATION:

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

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

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, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
347	10-2	827A 840A	Bollinger-Van der Goot	30.0	17.6	2.20	1.59	38.8		.6	13	-.01	FC 6
348	10-4	1011A 1029A	U.S.E.D. # 131	36.0	25.3	2.57	1.83	64.8			15	+.01	35549
349	10-4	1029A 1051A	" # 132	36.0	26.0	2.48	1.83	64.7		.6	15	+.01	"
350	10-6	1050A 1105A	Bollinger	32.5	27.0	2.25	1.82	60.7		.6	17	0	FC 6
351	10-9	100P 115P	"	36.1	23.7	2.10	1.78	49.9		.6	18	+.01	"
352	10-11	1023A 1037A	U.S.E.D. # 133	35.9	25.9	2.19	1.77	56.6		.6	13	+.01	35549
353	10-11	1037A 1048A	" # 134	35.9	26.4	2.08	1.76	55.0		.6	13	+.01	"
354	10-12	705A 722A	Bollinger	65.7	48.1	2.31	1.48	111.		.6	16	-.01	FC 6
355	10-13	1038A 1052A	"	48.0	21.8	2.70	1.50	58.8		.6	14	0	"
356	10-13	139P 154P	U.S.E.D. # 135	49.0	19.0	2.32	1.53	44.0			13	0	35549
357	10-13	154P 205P	" # 136	49.0	18.9	2.43	1.53	46.0		.6	12	0	"
358	10-16	1010A 1027A	Bollinger	36.7	24.4	2.34	1.75	57.2		.6	18	+.01	FC 6
359	10-18	924A 940A	U.S.E.D. # 137	36.4	24.2	2.13	1.73	51.6		.6	16	-.01	35549
360	10-18	942A 1000A	" # 138	36.5	25.3	2.58	1.72	65.5		.6	13	-.01	"
361	10-20	1135A 1150A	Bollinger	30.9	24.3	2.48	1.80	60.5		.6	16	-.01	FC 6
362	10-20	443P 508P	"	Two Channels			1.89	188.		.6	19	+.06	"
363	10-21	930A 940A	"	49.0	20.2	2.54	1.52	51.3		.6	13	+.01	"
364	10-22	855A 910A	"	62.5	39.1	2.61	1.81	102.		.6	15	+.02	"
365	10-23	735A 800A	"	Two Channels			1.96	154.		.6	18	-.03	"
366	10-25	940A 1003A	U.S.E.D. # 139	62.5	26.3	2.35	1.81	61.8		.6	20	+.01	US 6
367	10-25	1003A 1021A	" # 140	62.5	26.1	2.39	1.82	62.5			17	+.02	"
368	10-27	945A 1002A	Bollinger	66.5	31.4	2.05	1.75	64.3		.6	18	+.01	FC 6
369	10-30	947A 1005A	"	31.4	26.3	2.42	1.88	63.5		.6	17	+.01	"
370	11-1	1110A 1125A	U.S.E.D. # 141	31.5	24.9	2.18	1.73	54.5		.6	12	0	US 6
371	11-3	851A 908A	Bollinger	31.2	25.7	2.87	1.90	73.7		.6	18	0	FC 6
372	11-6	945A 1003A	"	32.0	25.7	3.10	1.95	79.6		.6	19	0	"
373	11-8	1030A 1050A	U.S.E.D. #142	23.0	24.2	2.98	1.99	72.0		.6	14	-.03	US 6
374	11-8	1050A 1110A	" #143	23.0	23.5	3.14	1.97	73.8		.6	13	-.01	"
375	11-10	847A 911A	Bollinger	31.5	30.0	2.85	2.02	85.6		.6	22	-.02	FC 6
376	11-12	625A 643A	"	37.0	29.3	3.13	1.83	91.8		.6	17	+.01	"
377	11-13	1228P 1247P	"	34.5	24.2	3.02	1.70	73.2		.6	18	0	"
378	11-15	935A 1000A	U.S.E.D. #144	31.5	24.8	2.89	1.79	71.8		.6	14	+.02	US 6
379	11-15	1000A 1017A	" #145	31.5	25.5	2.90	1.79	73.8		.6	14	-.02	US 6
380	11-17	1017A 1038A	Bollinger	34.3	21.0	2.56	1.67	53.5		.6	18	0	FC 6
381	11-19	1030A 1048A	"	34.8	22.2	2.68	1.70	59.6		.6	19	-.01	"
382	11-22	944A 1007A	U.S.E.D. #146	35.0	21.7	2.40	1.73	52.0		.6	14	0	US 8
383	11-24	1058A 1115A	Bollinger	35.3	21.8	2.32	1.72	50.5		.6	19	-.01	FC 6
384	11-27	1040A 1055A	"	35.2	23.1	2.41	1.73	55.7		.6	18	0	"
385	11-29	1212P 1228P	U.S.E.D. #147	35.4	20.9	2.01	1.75	42.0		.6	13	0	US 8
386	12-1	910A 928A	Bollinger	43.5	24.7	2.16	1.75	53.2		.6	18	0	FC 6
387	12-3	325P 345P	Bollinger-Hatteberg	177.0	171.	3.12	2.24	532.		.6	16	-.08	"
388	12-3	415P 515P	U.S.E.D. #148	178.0	150.	2.40	2.04	360.		.6	20	-.12	35618
389	12-6	937A 1000A	" #149	67.3	32.5	1.81	1.67	58.8			18	0	US 8
390	12-6	1000A 1020A	" #150	67.0	31.6	1.74	1.67	55.0			16	0	"
392	12-10	734A 820A	" #151	177.0	150.	2.57	2.36	386.		.6	17	-.32	US 7
393	12-10	1110A 1215P	" #152	177.0	165.	4.68	2.44	774.		.6	18	+.37	"
394	12-10	135P 245P	" #153	177.0	390.	6.06	3.73	2380.		.6	10	+.35	"
395	12-10	530P 625P	" #154	177.0	305.	7.93	3.45	2420.		.6	18	-.23	"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F570-R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

at above Arroyo Seco DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
396	12-11	1240P 100P	Bollinger	71.0	58.2	2.32	2.42	135.		.6	16	0	FC 6
397	12-15	954A 1020A	"	Two Channels			1.87	88.5		.6	19	-.01	"
398	12-18	1000A 1025A	"	" "			1.79	71.9		.6	21	0	"
399	12-22	930A 1000A	"	" "			1.71	76.6		.6	21	0	"
400	12-26	903A 930A	"	" "			1.91	143.		.6	20	-.02	"
401	12-28	710P 755P	U.S.E.D. #155	177.0	230.	4.62	2.85	1060.		.6	18	-.10	US 7
402	12-28	901P 945P	" #156	177.0	269.	5.26	2.91	1410.		.6	18	+.19	"
403	12-28	959P 1048P	" #157	177.0	389.	7.60	3.58	2950.		.6	18	+.13 -.02	"
404	12-29	1153A 1220P	" #158	177.0	176.	4.20	1.94	739.		.6	16	-.12	"
405	12-30	1020A 1030A	" #159	177.0	43.2	5.05	1.61	217.		.6	11	0	"
406	12-31	1020A 1055A	Bollinger	Two Channels			1.54	123.		.6	24	-.02	FC 6
407	1-5	1100A 1132A	"	" "			1.53	92.9		.6	24	-.05	"
408	1-8	1035A 1107A	"	" "			1.50	102.		.6	26	+.02	"
409	1-12	850A 930A	"	63.5	27.1	3.46	1.41	93.8		.6	20	0	"
410	1-15	948A 1015A	"	63.5	27.4	3.34	1.40	91.6		.6	22	0	"
411	1-19	1102A 1125A	"	66.1	29.6	3.24	1.39	96.0		.6	22	0	"
412	1-22	927A 950A	"	92.5	46.3	2.92	1.39	135.		.6	16	-.02	"
413	1-26	950A 1010A	"	85.5	32.7	2.24	1.30	73.2		.6	22	0	"
414	1-29	1025A 1040A	"	Two Channels			1.29	64.3		.6		0	"
415	2-2	850A 912A	"	86.0	37.1	2.16	1.32	80.0		.6	22	0	"
416	2-5	958A 1018A	"	86.0	36.9	2.20	1.31	81.1		.6	22	0	"
417	2-11	1055A 1118A	"	94.0	35.0	1.99	1.30	69.7		.6	22	0	"
418	2-16	1000A 1025A	"	93.0	38.2	2.18	1.33	83.2		.6	23	0	"
419	2-19	1045A 1110A	"	94.0	35.2	1.96	1.30	68.9		.6	24	0	"
420	2-21	130P 200P	U.S.E.D. #160	176.	96.5	3.26	1.69	315.		.6	19	-.06 +.09	US 8
421	2-23	1233P 106P	Bollinger	Two Channels			1.37	77.3		.6	27	0	FC 6
422	2-26	1043A 1117A	"	" "			1.40	83.3		.6	29	0	"
423	3-2	1000A 1035A	"	" "			1.36	84.5		.6	29	+.01	"
424	3-5	1057A 1118A	"	" "			1.36	63.6		.6	17	-.01	"
425	3-9	957A 1017A	"	" "			1.34	60.7		.6	16	0	"
426	3-11	840A 925A	"	" "			1.62	262.		.6	34	0	"
427	3-11	1037A 1110A	U.S.E.D. #161	109.	42.7	2.72	1.57	116.		.6	21	-.02	US 8
428	3-12	1128A 1158A	Bollinger	Two Channels			1.38	77.2		.6	18	-.01	FC 6
429	3-14	510P 610P	U.S.E.D. #162	171.	182.	5.67	2.08	1030.		.6	20	-.22	35617
430	3-19	930A 1005A	Bollinger	Two Channels			1.54	87.1		.6	24	-.01	FC 6
431	3-23	925A 947A	"	83.0	35.2	2.18	1.36	76.6		.6	22	0	"
432	3-26	1150A 1215P	"	Two Channels			1.54	72.2		.6	23	0	"
433	3-30	947A 1005A	"	67.2	28.3	2.22	1.36	62.9		.6	17	0	"
434	4-2	1123A 1140A	"	18.5	14.9	4.21	1.33	62.8		.6	11	0	"
435	4-4	900A 932A	"	Two Channels			1.36	98.5		.6	28	-.02	"
436	4-4	145P 218P	U.S.E.D. #163	95.0	34.4	2.30	1.32	79.2		.6	22	0	US 8
437	4-6	915A 947A	Bollinger	Two Channels			1.41	86.6		.6	25	-.02	FC 6
438	4-9	1045A 1105A	"	66.8	35.6	2.08	1.57	74.1		.6	19	0	"
439	4-10	947A 1015A	"	Two Channels			1.52	118.		.6	23	-.01	"
440	4-10	525P 600P	"	" "			1.66	255.		.6	27	-.03	"
441	4-13	905A 934A	"	" "			1.30	74.9		.6	26	0	"
442	4-14	1015A 1047A	"	" "			1.59	282.		.6	25	+.06	"
443	4-16	1100A 1117A	"	65.3	29.8	3.25	1.34	96.6		.6	17	0	"
444	4-17	850A 925A	Bollinger	Two Channels			1.43	211.		.6	27	-.02	FC 6
445	4-20	915A 935A	"	66.3	29.8	3.07	1.36	91.5		.6	16	0	"
446	4-21	910A 945A	"	Two Channels			1.46	182.		.6	26	+.04	"
447	4-21	1038A 1055A	"	66.8	33.4	3.98	1.45	133.		.6	16	-.01	"
448	4-23	1115A 1128A	"	64.2	32.9	2.64	1.34	86.8		.6	16	0	"
449	4-27	903A 925A	"	65.6	26.4	2.90	1.32	76.8		.6	16	-.01	"
450	4-30	1130A 1145A	"	64.4	29.6	2.56	1.36	75.6		.6	16	+.01	"
451	5-4	905A 920A	"	64.3	28.5	2.46	1.35	70.0		.6	16	0	"
452	5-7	1135A 1150A	"	17.7	10.1	3.20	1.27	32.3		.6	12	0	"
453	5-11	923A 940A	"	19.1	11.6	3.16	1.28	36.6		.6	12	0	"
454	5-14	955A 1008A	"	18.2	12.4	3.22	1.26	39.9		.6	12	0	"
455	5-18	920A 933A	"	19.2	11.4	3.37	1.26	38.4		.6	13	0	"
456	5-21	1042A 1100A	"	92.7	49.5	2.16	1.29	107.		.6	22	0	"
457	5-25	907A 925A	"	65.2	30.5	2.23	1.33	68.0		.6	18	0	"
458	5-28	1000A 1012A	"	64.2	30.9	2.06	1.32	63.8		.6	15	0	"
459	6-1	912A 932A	"	86.0	39.9	1.71	1.25	68.4		.6	18	0	"
460	6-4	1012A 1038A	"	Two Channels			1.25	67.2		.6	17	0	"
461	6-8	932A 955A	"	" "			1.28	69.6		.6	19	0	"
462	6-11	940A 955A	"	" "			1.20	47.4		.6	13	0	"
463	6-15	217P 233P	"	" "			1.23	61.0		.6	14	0	"
464	6-18	935A 950A	"	" "			1.24	58.9		.6	13	-.01	"
465	6-22	930A 945A	"	" "			1.24	59.3		.6	15	0	"
466	6-25	413P 426P	"	17.6	9.02	3.17	1.17	28.6		.6	10	0	"
467	6-29	850A 905A	"	18.5	13.5	4.02	1.28	54.3		.6	12	0	"
468	7-2	445P 455P	Bollinger	18.5	13.2	3.70	1.28	48.8		.6	11	+.01	FC 6
469	7-6	515P 532P	"	18.2	11.1	4.29	1.28	47.6		.6	13	0	"
470	7-9	918A 933A	"	18.9	13.9	4.62	1.30	64.2		.6	11	+.01	"
471	7-13	915A 932A	"	17.8	7.99	3.91	1.12	31.2		.6	13	+.01	"
472	7-16	1018A 1028A	Bollinger-Odekirk	19.2	14.7	2.39	1.11	35.2		.6	13	0	"
473	7-21	745A 755A	Luce-Odekirk	17.9	9.89	3.25	1.10	32.5		.6	11	0	FC 39
474	7-23	845A 855A	Luce	17.6	9.42	3.27	0.98	30.8		.6	10	+.02	"
475	7-29	435P 445P	"	17.4	7.79	2.86	0.84	22.3		.6	10	+.03	"
476	8-3	915A 930A	Turner	19.1	11.0	2.25	0.82	24.8		.6	11	0	FC 5
477	8-6	910A 921A	Bollinger	18.9	11.4	2.24	0.78	25.5		.6	13	+.01	FC 6
478	8-10	1000A 1025A	Turner	Two Channels			1.30	97.4		.6	16	0	FC 5
479	8-13	955A 1010A	Bollinger	19.7	13.4	2.10	1.04	28.1		.6	13	0	FC 6
480	8-17	950A 1005A	Turner	Two Channels			1.07	24.3	Surf.	.6	9	0	FC 5
481	8-20	1020A 1035A	Bollinger	19.9	13.2	2.06	0.98	27.3		.6	13	-.01	FC 6
482	8-24	1025A 1040A	Turner	19.3	9.85	2.32	0.93	23.4		.6	12	0	FC 5
483	8-27	940A 952A	Bollinger	20.8	13.7	2.22	0.98	30.4		.6	13	0	FC 6
484	8-31	830A 845A	"	19.8	12.9	2.22	0.96	28.7		.6	13	0	"
485	9-3	1118A 1129A	"	19.6	13.1	2.42	0.99	31.8		.6	11	0	"
486	9-10	903A 915A	"	17.8	9.47	3.10	0.96	29.4		.6	13	0	"
487	9-14	750A 803A	"	19.6	15.5	2.54	1.01	39.3		.6	13	0	"
488	9-17	928A 945A	"	18.9	12.9	3.04	1.09	39.2		.6	13	0	"
489	9-21	905A 918A	"	19.9	14.5	2.19	1.00	31.8		.6	12	0	"
490	9-24	913A 923A	Bollinger-van der Goot	20.0	16.0	2.44	1.06	39.0		.6	10	+.01	"
491	9-28	807A 820A	Bollinger	19.4	15.6	2.78	1.05	43.3		.6	10	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

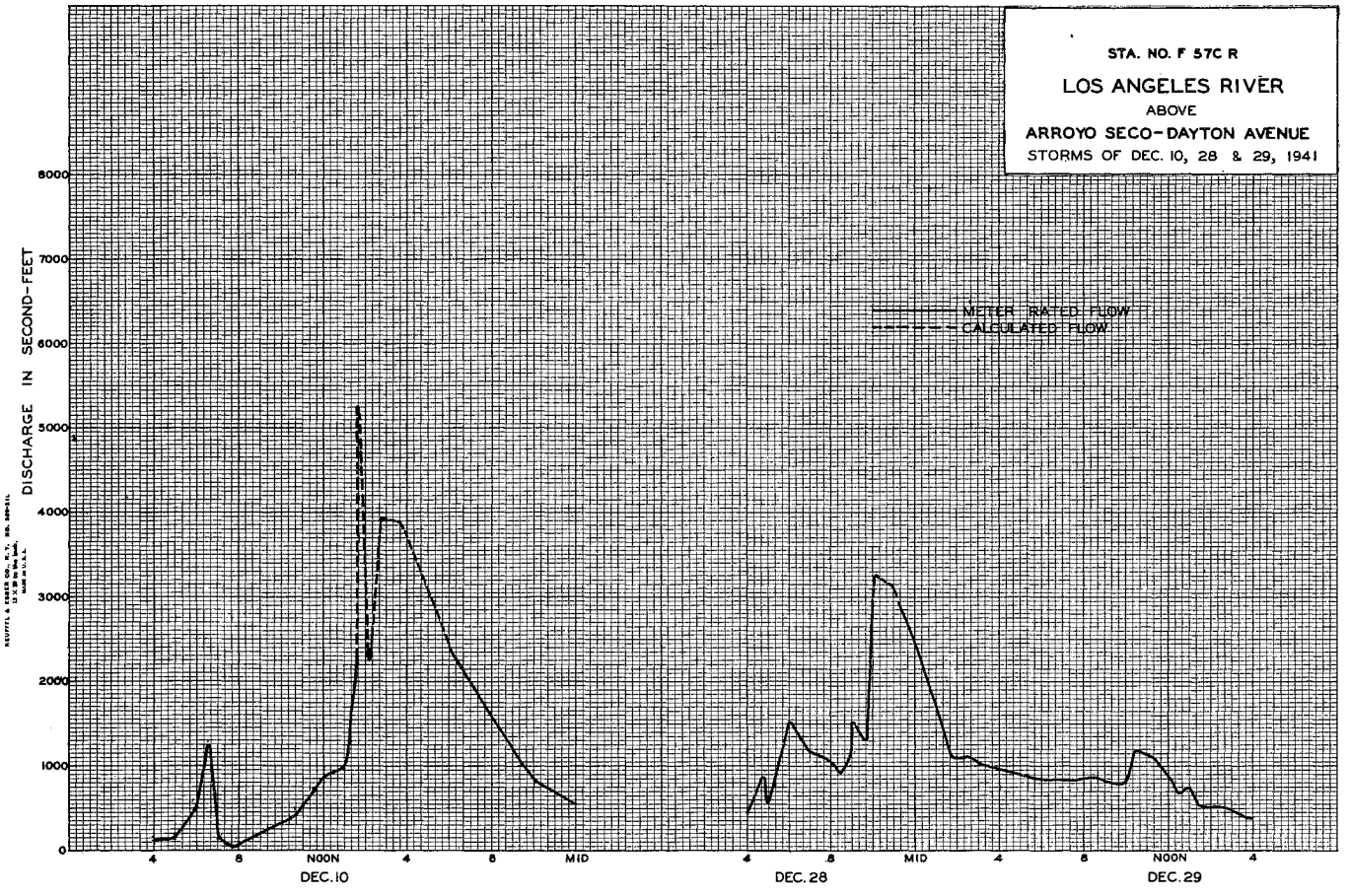
Sta. No F57C-R

Daily discharge, in second-feet of LOS ANGELES RIVER above Arroyo Seco, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	41	64	51	129	72	76	89	84	72	48	25	35
2	47	70	51	112	77	84	76	76	72	49	24	33
3	54	76	196	116	82	89	135	68	72	50	25	32
4	64	80	105	102	87	68	176	68	72	50	26	32
5	62	82	74	98	87	68	86	60	72	48	24	35
6	60	80	64	87	87	67	101	32	76	48	24	32
7	58	78	E 61	102	87	66	E 80	34	72	51	22	35
8	50	76	E 70	112	85	65	E 77	34	72	51	22	38
9	50	82	E 105	136	82	64	E 74	35	72	60	31	34
10	53	86	1170	112	74	60	129	35	52	45	96	29
11	57	88	215	104	69	140	84	38	48	37	42	30
12	E 106	83	103	94	80	76	80	40	50	31	28	38
13	E 57	84	95	102	77	76	76	40	51	32	28	40
14	E 55	74	94	104	74	301	169	40	54	34	28	41
15	E 53	51	90	94	80	126	84	40	58	35	27	38
16	56	43	89	94	82	76	89	39	58	35	25	35
17	54	60	80	94	77	76	274	39	58	35	25	38
18	51	64	76	96	74	84	94	38	68	34	27	35
19	56	64	76	98	72	84	84	49	64	32	28	34
20	80	64	74	96	69	E 82	88	84	56	32	27	32
21	103	60	79	89	309	E 80	141	115	56	32	26	32
22	112	56	80	146	198	E 79	99	80	72	31	28	34
23	115	51	127	102	68	E 77	94	76	72	32	25	36
24	84	56	96	89	109	E 75	89	72	64	28	24	38
25	64	60	144	85	89	E 74	84	68	29	30	30	40
26	56	60	176	77	89	E 72	80	68	28	28	32	41
27	108	56	128	74	115	E 71	84	68	39	26	30	42
28	89	48	613	72	123	E 70	80	58	52	24	28	43
29	76	43	730	66		E 69	80	54	51	24	31	42
30	66	48	225	69		68	76	60	49	28	29	40
31	64		128	72		89		56		26	29	
	2101	1987	5465	3023	2674	2652	3052	1748	1781	1146	916	1084
Mean	67.8	66.2	176.	97.5	95.5	85.5	102.	56.4	59.4	37.0	29.5	36.1
Acre-Feet	4170.	3940.	10840.	6000.	5300.	5260	6050.	3470.	3530.	2270.	1820.	2150.

Remarks: E = estimated.

Year or Period Mean 75.7
Acre-Feet 54800.



STATION F34B-R

LOS ANGELES RIVER at Firestone Boulevard

LOCATION:

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

DRAINAGE AREA:

614 square miles.

CHANNEL AND CONTROL:

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

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed April 11, 1938, over an 18 inch diameter, corrugated iron pipe stilling well. An Au continuous recorder was in service from October 1, 1941 to September 30, 1942.

REGULATION:

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

DIVERSIONS:

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

RECORDS AVAILABLE:

At Station F34R
March 1, 1928 to April 11, 1938. (For previous records see State of California, Division of Water Rights Bulletin No. 5.)
At Station F34B-R
April 11, 1938 to September 30, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 8210 second-feet, December 10.
Minimum 20 second-feet, August 23.
1928-1942 (Stations F34R and F34B-R)
Maximum 79000 second-feet, estimated, March 2, 1938.
Minimum no flow at various times.

ACCURACY:

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

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F34B-R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

AT NEAR Firestone Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
374	10-2	1016A 1044A	Mayer-Bonadiman	37.0	30.0	1.54	3.81	46.3		.6	18	0	FC 19
375	10-6	1020A 1040A	U.S.E.D. #51	32.0	37.4	2.17	3.79	81.5		.6	17	0	35549
376	10-6	1040A 1056A	" #52	32.0	35.7	2.13	3.79	75.9		.6	14	0	"
377	10-9	936A 1000A	Bonadiman	37.0	37.3	2.04	3.83	76.3		.6	14	0	FC 19
378	10-12	619A 700A	U.S.E.D.#53	288.0	266.	2.43	4.38	647.		.6	27	+.15	35549
379	10-12	715A 810A	" #54	342.0	281.	2.03	4.46	571.		.6	29	+.02 -.02	"
380	10-12	1035A 1125A	" #55	275.0	176.	1.70	4.12	300.		.6	20	-.07	"
381	10-13	1055A 1114A	" #56	65.0	50.8	1.71	3.88	86.8		.6	14	+.02	"
382	10-13	1114A 1130A	" #57	65.0	49.9	1.69	3.90	84.3		.6	14	+.01	"
383	10-16	925A 948A	Bonadiman	82.0	52.9	1.32	3.83	69.6		.6	20	-.01	FC 19
384	10-20	1000A 1015A	U.S.E.D. #58	63.3	39.0	1.67	3.82	65.0		.6	14	0	35549
385	10-20	1016A 1030A	" #59	63.3	39.1	1.58	3.82	61.9		.6	13	0	"
386	10-20	820P 845P	" #60	55.0	67.0	2.40	3.96	166.		.6	12	+.02	"
387	10-20	900P 923P	" #61	55.0	71.0	2.27	3.98	161.		.6	12	+.01	"
388	10-20	945P 1004P	" #62	55.0	77.0	2.16	4.03	166.		.6	12	+.03	"
389	10-20	1011P 1028P	" #63	56.0	74.0	2.60	4.07	193.		.6	12	+.02	"
390	10-20	1042P 1100P	" #64	56.0	78.0	2.50	4.09	195.		.6	12	0	"
391	10-21	847P 924P	Bonadiman-Walton	Two Channels			4.36	547.		.6	20	+.05	FC 19
392	10-21 10-22	1110P 1201A	U.S.E.D. #65	352.0	292.	1.79	4.46	525.		.6	21	-.03	35549
393	10-22	1014A 1043A	" #66	96.0	102.	1.88	4.18	192.		.6	20	-.01	"
394	10-22	1107A 1130A	" #67	96.0	92.4	1.90	4.14	176.		.6	20	-.02	"
395	10-22	100P 121P	" #68	95.5	82.8	1.70	4.08	141.		.6	19	-.01	"
396	10-22	135P 153P	" #69	95.0	74.3	1.56	4.05	116.		.6	19	-.03	"
397	10-23	840A 915A	Bonadiman	Two Channels			4.50	823.		.6	23	-.04	FC 19
398	10-23	945A 1036A	U.S.E.D. #70	342.0	270.	1.95	4.48	526.		.6	38	-.05	35549
399	10-27	1010A 1025A	" #71	63.1	44.5	1.79	3.84	79.7		.6	16	0	"
400	10-30	906A 940A	Bonadiman	41.0	42.6	1.95	3.84	83.1		.6	12	0	FC 19
401	11-3	200P	U.S.E.D. #72	57.7	47.7	1.40	3.85	66.9		.6	18	0	US 6
402	11-6	916A 946A	Bonadiman	42.0	49.8	1.57	3.88	78.2		.6	15	0	FC 19
403	11-10	1000A 1020A	U.S.E.D. #73	93.0	60.7	1.64	3.95	99.8		.6	14	+.01	US 6
404	11-13	935A 1005A	Bonadiman	41.5	50.5	1.93	3.97	97.8		.6	13	0	FC 19
405	11-17	1048A 1115A	U.S.E.D. #74	31.8	35.2	2.00	3.90	70.3		.6	17	+.01	US 6
406	11-17	1115A 1143A	" #75	31.8	36.2	1.98	3.89	71.6		.6	17	+.01	"
407	11-19	950A 1006A	Bonadiman	37.0	33.8	2.08	3.85	70.2		.6	9	0	FC 19
408	11-24	955A 1020A	U.S.E.D. #76	33.9	34.7	1.93	3.84	67.1		.6	12	-.01	US 8
409	11-27	947A 1008A	Bonadiman	38.0	42.3	1.57	3.85	66.3		.6	12	0	FC 19
410	12-1	950A 1007A	U.S.E.D. #77	35.0	32.1	1.92	3.81	61.7		.6	12	0	US 8
411	12-1	1007A 1025A	" #78	35.0	33.0	1.82	3.81	60.0		.6	12	0	"
412	12-3	235P 252P	Bonadiman	295.0	488.	3.73	4.90	1830.		.6	17	+.02 -.08	FC 19
413	12-3	315P 425P	U.S.E.D. #79	335.0	424.	3.22	4.74	1360.		.6	24	-.16	35661
414	12-3	520P 610P	" #80	330.0	412.	2.86	4.57	1180.		.6	20	-.02	"
415	12-4	1210P 1245P	Bonadiman	48.0	60.6	1.51	3.85	91.1		.6	10	0	FC 19
416	12-8	1007A 1025A	U.S.E.D. #81	42.5	40.6	1.96	3.78	79.5		.6	15	0	US 8
417	12-8	1025A 1040A	" #82	42.5	38.9	1.71	3.77	66.5		.6	13	0	"
418	12-10	810A 833A	Bonadiman-Walton	319.0	375.	3.76	4.70	1410.		.6	18		FC 19
419	12-10	820A 900A	U.S.E.D. #83	335.0	371.	3.78	4.73	1400.		.6	19	+.06	35661
420	12-10	945A 1045A	" #84	333.0	365.	3.17	4.74	1160.		.6	19	-.14	"
421	12-10	1145A 1200A	" #85	336.0	576.	4.18	5.13	2410.		.6	18	+.38	"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F34B-R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

AT Firestone Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
422	12-10	130P 300P	U.S.E.D. #86	355.0	1040.	6.15	6.16	6410.		.6	20	+.54	35661
423	12-10	340P 440P	" #87	355.0	1120.	6.04	6.07	6800.		.6	20	+.05 -.23	"
424	12-10	748P 850P	" #88	324.0	461.	3.76	4.56	1730.		.6	28	-.18	"
425	12-11	122P 140P	Bonadiman-Walton	204.0	143.	1.33	3.86	190.		.6	14	-.01	FC 19
426	12-15	1040A 1115A	U.S.E.D. #89	95.0	58.5	1.81	3.72	106.		.6	21	0	US 8
427	12-15	1115A 1142A	" #90	96.0	61.2	1.86	3.72	114.		.6	21	0	"
428	12-18	927A 950A	Bonadiman	Two Channels			3.70	96.3		.6	10	0	FC 19
429	12-22	1005A 1025A	U.S.E.D. #91	52.0	35.9	2.18	3.68	78.1		.6	17	0	US 8
430	12-22	1025A 1045A	" #92	52.0	36.7	1.86	3.68	68.4		.6	16	0	"
431	12-25	1037P 1102P	Walton-Bonadiman	255.8	349.	3.12	4.57	1090.		.6	16	+.10	FC 19
432	12-26	120P 150P	Bonadiman-Walton	Three Channels			3.88	206.		.6	20	0	"
433	12-28	720P 750P	"	294.0	494.	4.94	4.95	2440.		.6	13	-.01 +.01	"
434	12-28	1015P 1110P	U.S.E.D. #93	338.0	854.	5.06	5.33	4300.		.6	19	+.35 -.06	35661
435	12-28 12-29	1130P 1225A	" #94	338.0	890.	5.55	5.51	4940.		.6	19	+.16 -.02	"
436	12-29	145A 245A	" #95	333.0	730.	4.70	5.16	3420.		.6	19	-.22	"
437	12-29	400A 445A	" #96	331.0	731.	5.08	5.04	3710.		.6	19	+.32 -.22	"
438	12-29	700A 750A	" #97	258.0	339.	3.00	4.35	1020.		.6	13	-.06	"
439	12-29	836A 900A	Walton-Bonadiman	233.2	281.	2.32	4.31	652.		.6	14	0	FC 19
440	12-29	951A 1024A	U.S.E.D. #98	343.0	331.	3.00	4.36	993.		.6	20	-.07	35661
441	12-29	1124A 1149A	" #99	343.0	296.	2.78	4.38	822.		.6	20	-.04	"
442	12-29	230P 300P	" #100	343.0	330.	2.64	4.32	873.		.6	19	-.04	"
443	12-30	910A 1010A	" #101	334.0	234.	2.10	4.16	491.		.6	18	-.04	"
444	12-30	201P 228P	Walton-Bonadiman	Two Channels			4.07	342.		.6	17	0	FC 19
445	12-31	957A 1025A	"	53.0	64.9	2.00	3.78	130.		.6	10	0	"
446	1-5	1005A 1052A	U.S.E.D. #102	113.0	72.2	1.70	3.85	123.			24	0	US 8
447	1-8	900A 916A	Bonadiman	51.0	55.8	2.04	3.82	114.		.6	11	0	FC 19
448	1-12	922A 958A	U.S.E.D. #103	113.0	55.8	1.63	3.80	91.2			22	0	US 8
449	1-15	922A 945A	Bonadiman	51.0	59.0	1.83	3.80	108.		.6	13	0	FC 19
450	1-19	950A 1013A	U.S.E.D. #104	46.0	49.1	1.95	3.78	96.0			17	0	US 8
451	1-22	942A 1015A	Bonadiman	230.0	184.	1.48	4.11	273.		.6	21	-.02	FC 19
452	1-26	1013 1035	U.S.E.D. #105	54.0	44.8	1.87	3.73	83.7			14	0	US 8
453	1-29	920A 955A	Bonadiman	55.0	50.2	1.74	3.73	87.5		.6	15	0	FC 19
454	2-2	943A 1005A	U.S.E.D. #106	55.0	47.3	1.80	3.76	85.3			19	0	US 8
455	2-5	900A 920A	Bonadiman	56.0	53.4	1.86	3.75	99.4		.6	16	0	FC 19
456	2-9	845A 910A	U.S.E.D. #107	55.0	51.8	1.89	3.76	97.9			17	+.01	US 8
457	2-11	920A 938A	Bonadiman	56.0	50.1	1.67	3.78	84.5		.6	15	0	FC 19
458	2-16	906A 934A	U.S.E.D. #108	54.5	46.4	1.82	3.80	84.5			18	0	US 8
459	2-19	936A 1000A	Bonadiman	56.0	53.1	1.64	3.80	87.2		.6	14	0	FC 19
460	2-21	316P 346P	"	296.0	381.	3.17	4.68	1210.		.6 Surf.	17	+.10 -.02	"
461	2-21	630P 700P	U.S.E.D. #109	323.0	469.	3.56	4.81	1670.		.6	17	-.06	35661
462	2-21	804P 832P	" #110	322.0	336.	2.91	4.51	980.			14	-.09	"
463	2-21 2-22	1155P 145A	" #111	322.0	436.	3.58	4.83	1560.			16	+.02 -.34	"
464	2-22	1005A 1046A	Bonadiman-Walton	Three Channels			3.96	228.		.6	12	-.06	FC 19
465	2-23	905A 938A	U.S.E.D. #112	67.0	55.4	1.70	3.69	94.1		.6	21	0	US 8
466	2-26	903A 935A	Bonadiman	Two Channels			3.73	96.6		.6	18	0	FC 19
467	3-2	925A 956A	U.S.E.D. #113	65.2	52.9	1.67	3.78	88.6		.6	21	0	US 8
468	3-5	935A 1000A	Bonadiman	Two Channels			3.78	87.6		.6	17	0	FC 19
469	3-9	845A 907A	U.S.E.D. #114	57.0	42.8	1.69	3.79	72.4			21	0	US 8
470	3-11	856A 914A	Bonadiman	278.0	292.	2.08	4.38	608.		.6	16	+.02 -.02	FC 19
471	3-12	936A 1002A	"	Two Channels			3.85	88.0		.6	17	0	"
472	3-14	453P 520P	Bonadiman-Walton	303.0	654.	5.26	5.46	3430.		.6	18	-.18	"
473	3-15	1542P 225P	"	Three Channels			3.96	167.		.6	23	0	"
474	3-16	928A 1000A	U.S.E.D. #115	65.0	51.2	2.02	3.87	103.		.6	23	0	US 8
475	3-19	238P 310P	Bonadiman	Three Channels			3.85	112.		.6	21	0	FC 19
476	3-23	905A 933A	U.S.E.D. #116	52.0	46.7	1.77	3.80	82.6		.6	21	0	US 8
477	3-26	859A 914A	Bonadiman	48.0	46.8	1.92	3.82	90.0		.6	12	0	FC 19
478	3-30	910A 937A	U.S.E.D. #117	46.4	38.7	1.83	3.80	70.8			23	0	US 8
479	4-2	845A 911A	Bonadiman	Two Channels			3.80	72.9		.6	15	0	FC 19
480	4-4	731A 800A	"	252.0	213.	1.97	4.22	420.		.6	15	-.07	"
481	4-4	950A 1040A	U.S.E.D. #118	108.0	109.	2.06	4.03	224.			24	-.01	US 8
482	4-6	925A 1005A	" #119	88.0	65.3	1.68	3.87	110.			22	0	"
483	4-9	835A 900A	Bonadiman	Two Channels			3.79	86.2		.6	17	0	FC 19
484	4-10	634P 700P	"	300.0	433.	2.68	4.73	1160.		.6	18	+.05 -.02	"
485	4-11	1019A 1045A	"	262.0	210.	1.31	4.14	328.		.6	16	-.01	"
486	4-13	910A 945A	U.S.E.D. #120	79.0	54.6	1.77	3.84	96.2			21	0	US 8
487	4-14	1211P 1239P	Bonadiman	295.0	463.	2.76	4.93	1280.		.6	18	+.02 -.02	FC 19
488	4-16	905A 928A	"	66.0	55.0	1.87	3.82	103.		.6	14	0	"
489	4-17	717A 745A	"	290.0	317.	2.48	4.64	785.		.6	17	-.05 +.02	"
490	4-20	920A 950A	U.S.E.D. #121	63.0	50.1	1.78	3.84	89.4			15	0	US 8
491	4-22	837A 900A	Bonadiman	Three Channels			3.90	135.		.6	14	0	FC 19
492	4-23	850A 915A	"	69.0	59.0	1.85	3.85	109.		.6	14	0	"
493	4-27	915A 940A	U.S.E.D. #122	36.0	46.4	1.76	3.83	81.5			14	0	US 8
494	4-30	846A 910A	Bonadiman	73.0	54.7	1.78	3.88	97.1		.6	15	0	FC 19
495	5-4	905A 935A	U.S.E.D. #123	36.0	42.1	1.83	3.87	76.9		.6	14	0	US 8
496	5-7	905A 922A	Bonadiman	34.0	22.0	1.66	3.72	36.6		.6	10	0	FC 19
497	5-11	310P 335P	U.S.E.D. #124	35.0	28.2	1.57	3.73	44.3		.6	14	0	US 8
498	5-14	930A 945A	Bonadiman	36.3	31.9	1.58	3.69	50.3		.6	10	0	FC 19
499	5-18	915A 940A	U.S.E.D. #125	36.0	23.7	1.60	3.67	37.9		.6	14	0	US 8
500	5-21	921A 948A	Bonadiman	40.0	59.0	1.81	3.85	107.		.6	13	0	FC 19
501	5-25	925A 950A	U.S.E.D. #126	74.0	47.5	1.62	3.78	77.0		.6	16	0	US 8
502	5-28	946A 1010A	Bonadiman	38.0	48.3	1.75	3.76	84.7		.6	11	0	FC 19
503	6-1	923A 952A	U.S.E.D. #127	76.0	54.0	1.55	3.79	83.8		.6	14	0	US 8
504	6-3	833A 846A	Bonadiman-Moon	38.0	45.1	1.83	3.76	82.5		.6	12	0	FC 19
505	6-4	925A 950A	Bonadiman	38.0	46.4	1.84	3.77	85.4		.6	10	0	"
506	6-8	908A 926A	U.S.E.D. #128	73.5	51.2	1.48	3.75	75.6		.6	13	0	US 8
507	6-11	951A 1006A	Bonadiman	37.2	36.2	1.63	3.74	59.0		.6	10	0	FC 19
508	6-15	930A 950A	U.S.E.D. #129	70.0	46.1	1.29	3.73	59.5		.6	14	0	US 8
509	6-18	1005A 1020A	Bonadiman	37.5	41.7	1.86	3.72	77.5		.6	10	0	FC 19
510	6-22	915A 930A	U.S.E.D. #130	71.0	43.9	1.48	3.69	65.3		.6	14	0	US 8
511	6-25	1000A 1016A	Bonadiman	36.0	27.6	1.41	3.70	39.0		.6	11	0	FC 19
512	6-27	914A 930A	U.S.E.D. #131	37.6	23.7	1.40	3.70	33.3		.6	12	0	US 8
513	7-2	1007A 1020A	Bonadiman	37.3	36.4	1.78	3.75	64.9		.6	11	0	FC 19
514	7-6	320P 345P	U.S.E.D. #132	36.0	34.0	1.67	3.67	56.9		.6	14	-.02	US 8
515	7-9	950A 1006A	Bonadiman	36.8	35.2	1.77	3.73	62.2		.6	10	0	FC 19
516	7-13	935A 949A	U.S.E.D. #133	36.2	26.3	1.33	3.77	35.0		.6	14	0	US 8
517	7-13	949A 1003A	U.S.E.D. #134	36.8	25.9	1.42	3.77	36.7		.6	14	0	US 8
518	7-16	955A 1010A	Bonadiman	38.0	29.2	1.59	3.70	46.4		.6	10	0	FC 19
519	7-20	915A 935A	U.S.E.D. #135	37.0	24.6	1.44	3.66	35.4		.6	12	0	US 8
520	7-23	1000A 1015A	Bonadiman	38.0	27.6	1.42	3.65	39.3		.6	11	0	FC 19
521	7-27	940A 955A	U.S.E.D. #136	37.8	25.5	1.21	3.63	31.0		.6	15	0	US 8
522	7-30	958A 1018A	Bonadiman	37.5	28.2	1.34	3.63	37.8		.6	10	0	FC 19
523	8-3	945A 1010A	U.S.E.D. #137	36.3	23.2	1.43	3.60	33.2		.6 Surf.	14	0	US 8
524	8-6	954A 1010A	Bonadiman	37.0	26.6	1.47	3.64	39.1		.6	11	0	FC 19
525	8-10	722A 756A	"	Three Channels			4.10	282.		Surf.	17		"
526	8-13	947A 1000A	"	38.0	23.3	1.31	3.62	30.4		.6	11	0	"
527	8-20	943A 956A	"	38.0	24.3	1.35	3.57	32.9		.6	10	0	"
528	8-27	1005A 1025A	Moon	37.5	25.8	1.54	3.62	39.6		.6	15	0	FC 22
529	9-3	1018A 1036A	"	36.0	27.3	1.67	3.63	46.0		.6	13	0	"
530	9-10	955A 1010A	Bonadiman	36.0	30.0	1.38	3.63	41.5		.6	11	0	FC 19
531	9-17	950A 1006A	"	36.0	29.8	1.54	3.65	46.0		.6	11	0	"
532	9-24	1000A 1015A	"	37.0	29.9	1.54	3.68	45.9		.6	11	0	"

P.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

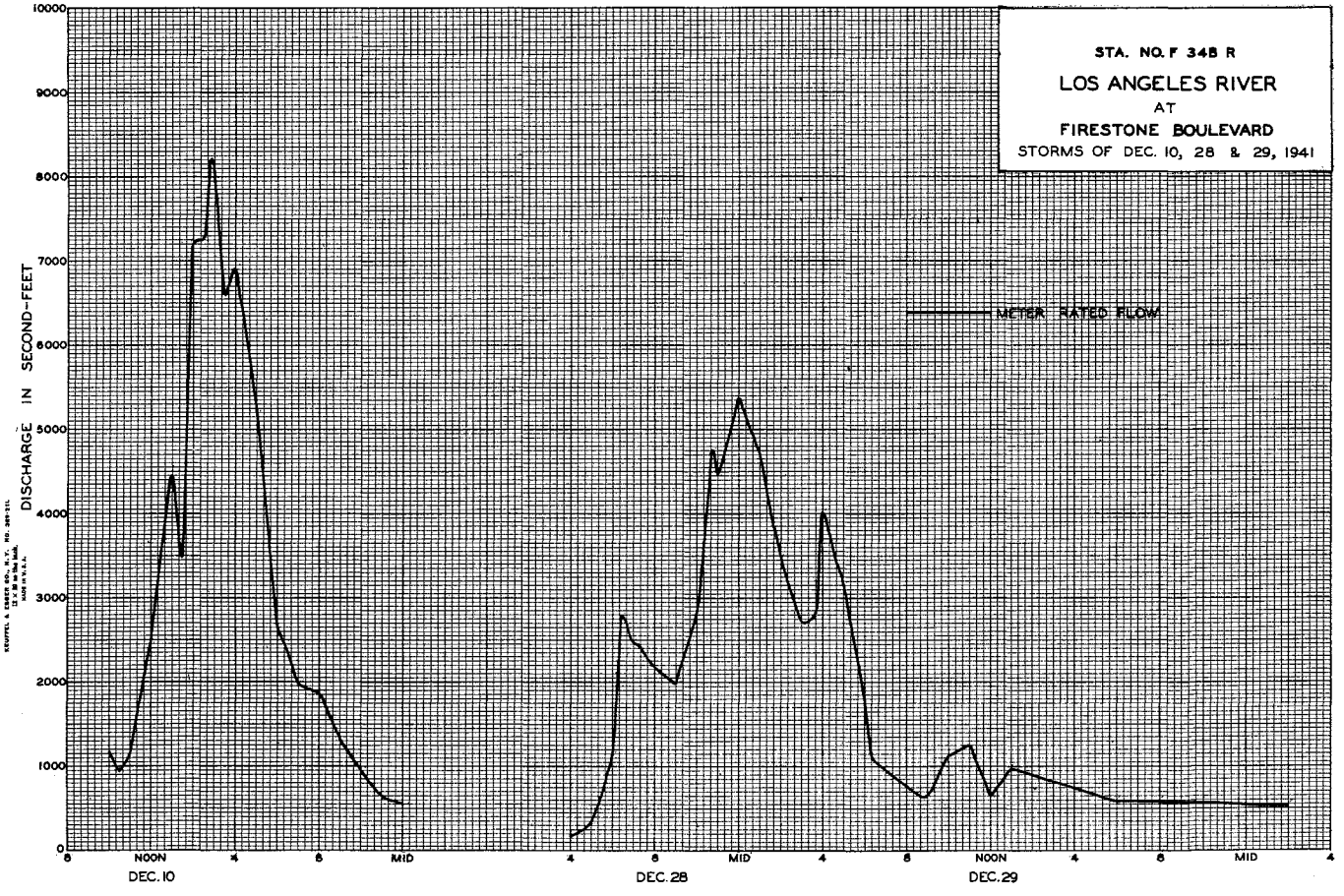
Sta. No. F34B-R

Daily discharge, in second-feet of LOS ANGELES RIVER at Firestone Boulevard, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	45	91	56	234	76	91	72	86	86	56	29	56
2	48	81	76	159	81	86	72	81	86	60	32	45
3	65	72	381	125	86	81	81	72	81	64	35	45
4	79	86	E 119	113	91	68	279	72	81	72	35	45
5	79	72	68	119	101	E 88	E 96	72	86	56	35	48
6	83	76	64	113	101	E 74	E 107	E 52	91	60	35	45
7	93	81	76	113	107	60	96	E 48	72	64	29	45
8	83	76	76	113	91	64	96	48	76	56	29	45
9	75	81	131	101	101	68	86	45	86	68	38	48
10	70	86	2030	96	91	68	285	38	86	72	240	48
11	69	101	E 286	E 95	86	208	277	45	60	60	64	41
12	195	96	119	86	101	91	86	45	60	41	29	41
13	E 72	86	96	113	86	113	91	48	60	41	29	41
14	E 67	86	96	107	E 76	653	351	52	52	38	35	41
15	E 61	91	107	101	72	E 234	E 152	48	56	48	38	72
16	E 56	76	113	131	86	96	E 96	41	68	45	35	41
17	48	76	119	113	91	91	311	41	81	45	41	48
18	52	81	96	107	101	101	86	41	72	45	41	45
19	72	72	96	96	91	113	76	41	68	35	38	48
20	95	72	91	81	72	113	81	60	60	41	38	45
21	179	81	81	76	502	91	211	101	64	48	35	35
22	210	72	76	223	397	72	138	86	68	48	52	38
23	224	60	133	138	E 94	81	101	52	101	38	27	41
24	76	56	107	125	E 95	86	86	64	68	38	32	41
25	81	52	178	E 107	96	91	81	76	38	35	38	45
26	76	60	240	E 86	107	81	86	76	29	35	45	56
27	158	60	113	91	101	E 78	86	76	32	35	41	68
28	86	64	878	96	101	E 75	91	76	48	38	41	64
29	86	60	1460	86		E 71	81	72	48	35	32	64
30	81	56	500	81		68	96	81	48	52	38	56
31	81		E 152	76		72		86		48	48	
	2845	2260	8214	3501	3281	3427	3934	1922	2012	1517	1354	1441
Mean	91.8	75.3	265.	113.	117.	111.	131.	62.0	67.1	48.9	43.7	48.0
Acre-Feet	5640.	4480.	16290.	6940.	6510.	6800.	7800.	3810.	3990.	3010.	2690.	2860.

Remarks: E = estimated or interpolated.

Year or Period — Mean 97.8 — Acre-Feet 70820.



STATION F180R

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

LOCATION:

On the downstream side of State Street bridge, about 1-3/4 miles from the Pacific Ocean.

DRAINAGE AREA:

square miles (Excludes drainage above Santa Fe Dam.)

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 State Street 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, 1941 to September 30, 1942.

REGULATION:

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

DIVERSIONS:

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

RECORDS AVAILABLE:

October 31, 1931 to September 30, 1942.
For earlier records see Station F36R, Los Angeles River at Willow Street.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 10800 second-feet, December 10.
Minimum 31.0 second-feet, several days.
1931-1942
Maximum 99000 second-feet, estimated, March 2, 1938.
Minimum no flow at various times in 1934.

ACCURACY:

Fair.
Flow occasionally interpolated due to recorder clock failure.

OPERATION:

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

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

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, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
464	10-2	140P 215P	Mayer-Bonadiman	Two Channels			7.47	69.8		.6	25	+.02	FC 19
465	10-9	1154A 1222P	Bonadiman	" "			7.51	78.5		.6	18	0	"
466	10-16	1140A 130P	"	Six Channels			7.54	78.5		.6	31	0	"
467	10-22	837A 913A	Bonadiman-Walton	Two Channels			8.30	840.		.6	23	-.06	"
468	10-23	1202P 1245P	Bonadiman	Five Channels			7.57	156.		.6	19	+.02	"
469	10-30	1120A 1150A	"	101.0	91.1	0.93	7.47	84.7		.6	15	0	"
470	11-6	1120A 1150A	"	107.0	99.8	0.92	7.58	92.6		.6	16	0	"
471	11-13	1230P 100P	"	114.0	96.6	1.10	7.56	106.		.6	17	-.01	"
472	11-19	1136A 1200N	"	148.0	93.7	0.87	7.47	81.0		.6	17	0	"
473	11-27	1140A 1210P	"	Three Channels			7.45	78.2		.6	16	0	"
474	12-4	836A 906A	"	" "			7.66	314.		.6	16	-.03	"
475	12-10	111P 149P	Bonadiman-Walton	454.0	913.	2.68	8.85	2440.		.6	20	-.10	FC19
476	12-10	430P 512P	"	462.0	1850.	5.53	11.16	10230.		.6	15	-.30	"
477	12-11	1037A 1058A	"	143.0	180.	2.32	7.45	417.		.6	11	0	"
478	12-18	1147A 1210P	Bonadiman	117.3	118.	1.18	7.16	139.		.6	11	0	"
479	12-26	235A 305A	Walton-Bonadiman	Two Channels			8.20	1440.		.6	17	-.02	"
480	12-26	917A 940A	Bonadiman-Walton	132.3	191.	2.08	7.54	397.		.6	10	-.01	"
481	12-28	1012P 1045P	Walton-Bonadiman	385.0	1040.	2.50	9.02	2600.		.6	16	+.02	"
482	12-29	706A 740A	"	455.0	961.	3.47	9.23	3330.		.6	15	-.15	"
483	12-30	1032A 1110A	"	Two Channels			7.85	921.		.6	19	0	"
484	12-31	1236P 1250P	"	106.1	109.	1.61	7.28	176.		.6	8	0	"
485	1-8	1137A 1200N	Bonadiman	81.8	100.	1.58	7.20	158.		.6	8	0	"
486	1-15	1151A 1210P	"	53.4	76.9	1.70	7.14	131.		.6	6	0	"
487	1-22	132P 200P	"	Two Channels			7.74	418.		.6	15	0	"
488	1-29	1237P 100P	Bonadiman	131.4	127.	1.06	7.18	135.		.6	10	0	FC 19
489	2-5	125P 158P	"	Three Channels			7.22	105.		.6	29	0	"
490	2-11	100P 130P	"	Four Channels			7.20	85.2		.6	24	0	"
491	2-19	122P 200P	"	Three Channels			7.26	125.		.6	25	0	"
492	2-21	617P 655P	Bonadiman-Walton	371.0	657.	2.56	8.31	1680.		.6	18	+.02	"
493	2-22	1222P 1250P	"	Two Channels			7.74	582.		.6	20	-.04	"
494	2-26	104P 140P	Bonadiman	Three Channels			7.40	123.		.6	19	-.02	"
495	3-5	137P 205P	"	" "			7.41	100.		.6	20	0	"
496	3-12	134P 210P	"	" "			7.42	154.		.6	20	0	"
497	3-14	814P 980P	Bonadiman-Walton	425.0	1038.	4.62	9.68	4790.		.6	19	+.11 -.17	"
498	3-15	1132A 1150A	"	173.0	234.	2.06	7.52	481.		.6	12	0	"
499	3-19	1129A 1200N	Bonadiman	Two Channels			7.22	167.		.6	13	0	"
500	3-26	142P 223P	"	Three Channels			7.12	90.9		.6	18	0	"
501	4-2	105P 140P	"	" "			7.15	77.4		.6	22	0	"
502	4-4	950A 1020A	"	Two Channels			8.16	841.		.6	20	+.05 -.07	"
503	4-9	116P 144P	"	" "			7.18	106.		.6	11	0	"
504	4-10	1032P 1110P	"	" "			8.12	918.		.6	18	+.09	"
505	4-11	1233P 106P	"	" "			8.10	682.		.6	16	0	"
506	4-14	301P 326P	"	" "			8.00	597.		.6	17	+.30	"
507	4-16	152P 220P	"	Three Channels			7.34	126.		.6	14	0	"
508	4-17	1115A 1245P	"	Two Channels			8.05	814.		.6	20	+.10	"
509	4-23	135P 200P	"	132.0	91.0	1.15	7.40	105.		.6	10	0	"
510	4-30	142P 207P	"	174.5	137.	0.96	7.40	131.		.6	13	0	"
511	5-7	115P 135P	"	58.0	45.8	1.04	7.24	47.6		.6	10	0	"
512	5-14	1135A 1150A	Bonadiman	59.0	47.3	1.83	7.24	58.2		.6	10	0	FC 19
513	5-21	1130A 1200N	"	97.0	79.2	1.19	7.31	94.6		.6	14	0	"
514	5-28	1130A 1200N	"	110.0	66.6	1.10	7.22	73.2		.6	17	0	"
515	6-3	209P 239P	Bonadiman-Moon	Three Channels			7.33	84.2		.6	22	0	"
516	6-4	1130A 1210P	Bonadiman	Four Channels			7.32	78.8		.6	26	0	"
517	6-11	1140A 1210P	"	Three Channels			7.19	71.5		.6	18	0	"
518	6-18	1152A 1225P	"	" "			7.23	77.0		.6	20	0	"
519	6-25	1150A 1221P	"	Four Channels			7.32	70.7		.6	23	0	"
520	7-2	1220P 100P	"	" "			7.31	63.3		.6	23	0	"
521	7-9	1142A 1220P	"	Five Channels			7.26	55.3		.6	22	0	"
522	7-16	1150A 1220P	"	Three Channels			7.22	44.5		.6	20	0	"
523	7-23	1225P 105P	"	Four Channels			7.18	38.9		.6	19	0	"
524	7-30	1220P 1251P	"	Two Channels			7.16	47.9		.6	16	0	"
525	8-6	1208P 1235P	"	" "			7.11	37.6		.6	15	0	"
526	8-13	1150A 1220P	"	Three Channels			7.15	41.6		.6	19	0	"
527	8-20	1140A 1218P	"	Two Channels			7.11	41.5		.6	19	0	"
528	8-27	115P 150P	Moon	Three Channels			7.16	34.7		.6	23	0	FC 22
529	9-3	140P 208P	"	Two Channels			7.19	48.1		.6	20	0	"
530	9-10	1210P 1240P	Bonadiman	Four Channels			7.21	54.7		.6	22	0	FC 19
531	9-17	1215P 1240P	"	Two Channels			7.23	66.1		.6	17	0	"
532	9-24	1232P 100P	"	Three Channels			7.25	52.4		.6	22	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

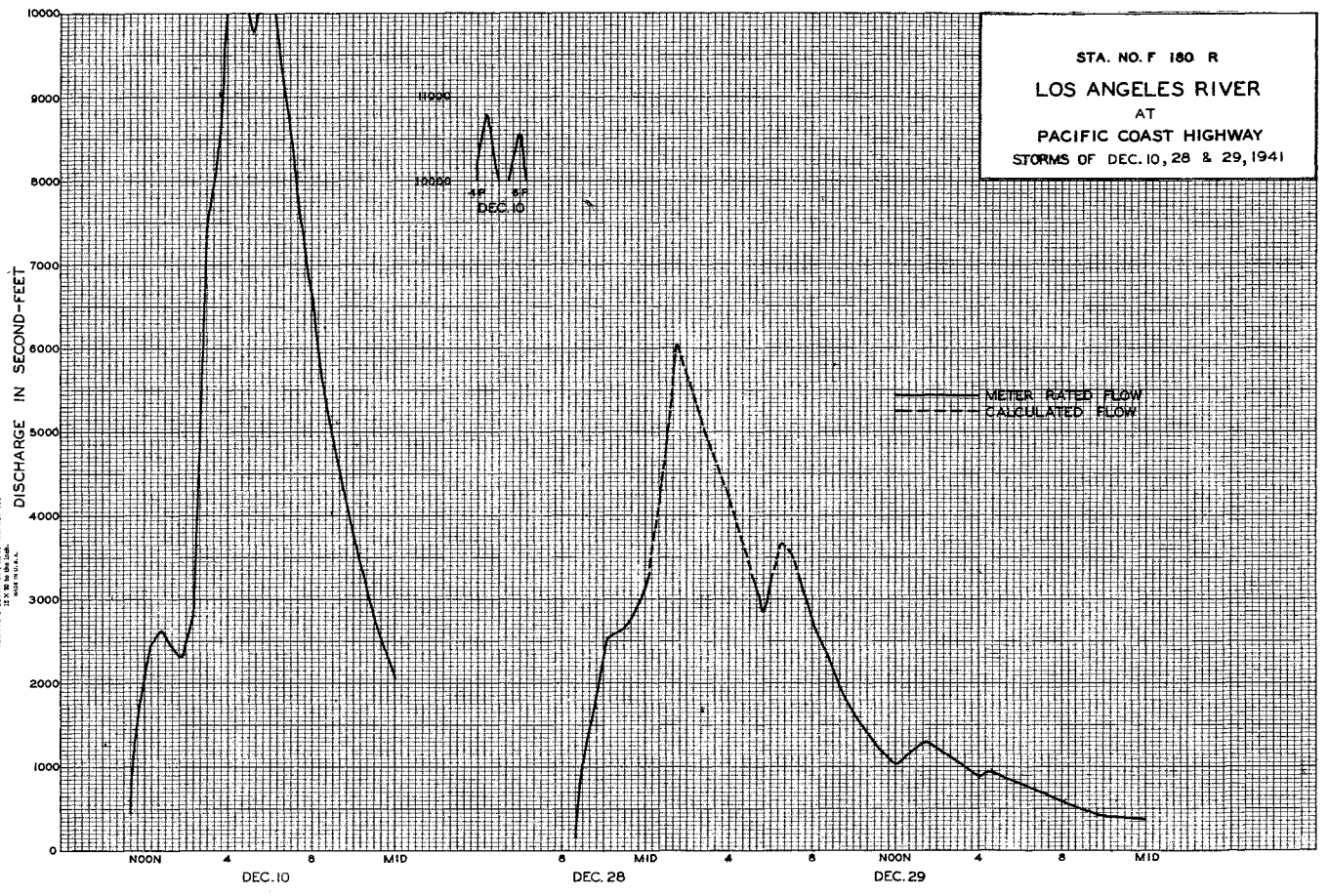
Sta. No. F180-R

Daily discharge, in second-feet of LOS ANGELES RIVER at Pacific Coast Highway, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	63	85	79	304	121	97	79	121	79	66	42	45
2	63	88	85	261	121	97	79	88	82	60	40	47
3	60	92	383	180	132	115	79	79	85	63	34	47
4	73	115	305	174	115	115	409	73	79	60	42	47
5	79	103	174	150	103	103	97	69	82	57	45	47
6	79	97	156	144	103	103	244	69	82	52	42	47
7	82	103	150	144	92	109	132	50	82	55	34	47
8	79	97	144	150	92	97	92	55	79	55	31	50
9	79	85	219	144	97	97	109	52	85	55	34	57
10	79	92	3180	144	97	97	223	52	85	66	212	57
11	79	109	518	138	103	232	517	50	69	60	121	52
12	265	121	192	138	109	174	97	55	69	50	55	60
13	92	115	180	138	115	132	73	55	76	40	45	66
14	85	115	168	132	127	1080	425	55	73	47	50	60
15	79	97	156	132	132	700	237	52	73	50	55	69
16	76	85	156	127	127	210	121	55	76	50	57	69
17	73	76	144	127	132	168	418	52	66	50	55	66
18	69	82	138	121	132	168	156	52	76	47	57	66
19	73	82	138	115	132	162	127	57	63	50	45	63
20	82	82	127	121	132	150	103	79	60	37	45	60
21	144	76	109	109	683	115	163	115	63	40	37	55
22	491	76	76	279	921	103	315	144	63	42	37	55
23	366	66	132	138	291	92	103	82	88	40	40	52
24	150	66	224	115	237	103	92	82	76	40	31	52
25	97	76	109	103	174	97	156	97	60	45	34	55
26	92	76	473	115	121	92	97	88	50	34	34	63
27	115	79	174	138	115	85	88	82	52	34	37	63
28	231	82	423	150	103	82	144	76	63	42	31	60
29	109	85	2070	138		82	144	76	73	31	34	66
30	97	82	560	138		76	127	85	69	47	40	76
31	115		246	127		76		85		57	40	
	3716	2685	11388	4634	4959	5209	5246	2282	2178	1522	1536	1719
Mean	120.	89.5	367.	149.	177.	168.	175.	73.6	72.6	49.5	49.5	57.3
Acre-Feet	7370.	5330.	22590.	9190.	9840.	10330.	10410.	4530.	4320.	3020.	3050.	3410.

Remarks:

Year or Period — Mean 129. Acre-Feet 93390.



STATION F130R

MALIBU CREEK at Crater Camp

LOCATION:

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

DRAINAGE AREA:

103 square miles.

CHANNEL AND CONTROL:

Channel-coarse sand and gravel lined with brush and trees.
A check dam of wood planks was constructed on May 8, 1942 to act as a low water control.

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed January 17, 1931 over an 18 inch diameter, corrugated iron pipe stilling well. An Au continuous recorder was in service from October 1, 1941 to September 30, 1942.

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, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 140 second-feet, December 28.
Minimum 0.1 second-foot on several days.
1930-1942
Maximum 10000 second-feet, estimated, March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Fair.
Flows frequently estimated by comparison or interpolated between measurements due to extreme channel scour which prevented communication to well. This condition was corrected after June 3 when constructed plank control was made impervious to leakage.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F130-R

DISCHARGE MEASUREMENTS OF MALIBU CREEK

AT Crater Camp DURING THE YEAR ENDING SEPTEMBER 30, 1942

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
207	10-2	140P 146P	Bollinger-Van der Goot	9.5	5.38	1.02		5.5		.6	7		FC 6
208	10-16	405P 411P	Bollinger	10.2	4.31	0.56		2.4		.6	7		"
209	10-22	430P 438P	"	10.0	4.98	0.66		3.3		.6	7		"
210	10-30	415P 423P	"	9.5	4.83	0.72	*3.30	3.5		.6	8		"
211	11-13	600P 610P	"	8.0	3.45	0.81		2.8		.6	5		"
212	11-19	508P 516P	"	9.8	4.74	0.59		2.8		.6	7		"
213	11-27	500P 510P	"	10.5	5.45	0.73		4.0		.6	8		"
214	12-4	510P 520P	"	10.0	3.58	0.67	*3.40	2.4		.6	7		"
215	12-12	1258P 107P	"	10.2	5.45	0.86	*3.50	4.7		.6	8		"
216	12-18	325P 334P	"	10.0	3.55	1.15	*3.46	4.1		.6	9		"
217	12-26	348P 356P	"	10.0	4.91	0.90	*3.57	4.4		.6	8		"
218	12-29	327P 338P	"	32.5	29.0	0.63	3.84	18.3		.6	10	0	"
219	12-31	430P 441P	"	19.0	15.0	0.43	*3.83	6.5		.6	11	0	"
220	1-8	355P 404P	"	6.1	3.42	1.17	*3.75	4.0		.6	7	0	"
221	1-15	255P 305P	"	19.0	9.72	0.31	*3.64	3.0		.6	10	0	"
222	1-22	350P 403P	"	19.5	9.77	0.36	*3.61	3.5		.6	10		"
223	1-29	504P 513P	"	18.0	3.87	0.62	*3.58	2.4		.6	13		"
224	2-5	243P 253P	"	Two Channels			*3.56	2.4		.6	13		"
225	2-11	305P 315P	"	" "			*3.54	2.1		.6	11		"
226	2-19	315P 327P	"	" "			*3.53	2.0		.6	11		"
227	2-22	500A 525A	"	" "			*3.64	4.2		.6	13		"
228	2-26	321P 323P	"	" "			*3.58	2.8		.6	12		"
229	3-5	333P 343P	"	" "			*3.51	2.3		.6	12		"
230	3-12	305P 313P	"	" "			*3.52	2.7		.6	10		"
231	3-14	745P 800P	Bollinger-Rickart	31.0	30.6	0.63	3.88	19.1		.6	12	0	FC 6
232	3-19	213P 223P	Bollinger	Two Channels			*3.82	2.8		.6	10		"
233	3-26	410P 420P	"	" "			*3.60	2.8		.6	10		"
234	4-2	330P 345P	"	12.8	7.97	0.28	*3.48	2.2		.6	9		"
235	4-8	1123A 1133A	"	Two Channels			*3.46	2.7		.6	11		"
236	4-14	435P 448P	"	30.0	28.2	0.31	3.83	8.6		.6	8	0	"
237	4-16	330P 338P	"	Two Channels			*3.83	4.4		.6	12		"
238	4-23	248P 259P	"	" "			*3.85	4.1		.6	10		"
239	5-7	345P 355P	"	" "			*3.58	3.2		.6	9		"
240	5-14	318P 326P	"	" "			3.99	2.6		.6	10	0	"
241	5-20	408P 414P	Bollinger-Moon	11.5	4.86	0.41	4.23	2.0		.6	7	0	"
242	5-28	305P 313P	Bollinger	14.0	5.97	0.32	4.23	1.9		.6	8	0	"
243	6-3	1136A 1147A	"	Two Channels			4.22	1.8		.6	11	0	"
244	6-11	353P 402P	"	" "			4.20	1.8		.6	11	0	"
245	6-17	258P 305P	"	10.2	3.02	0.40	4.18	1.2		.6	7	0	"
246	6-25	1054A 1103A	"	8.5	2.99	0.40	4.18	1.2		.6	8	0	"
247	7-2	1145A 1154A	"	12.0	3.17	0.31	4.16	0.99		.6	10	0	"
248	7-16	455P 502P	"	7.5	2.43	0.33	4.14	0.79		.6	6		"
249	7-30	1215P 1225P	Luce	6.0	1.20	0.61	4.11	0.73		.6	5		FC 39
250	8-6	447P 452P	Bollinger	2.7	0.34	0.62	4.09	0.21		.6	3		FC 6
251	8-20	342P 347P	"	2.5	0.60	0.83	4.11	0.50		.6	3		"
252	9-10	235P 240P	"	3.3	0.43	0.56	4.12	0.24		.6	4		"

*Communication to well doubtful

F.C. Dist. Form 52 3-41

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, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5	3.4	3.0	5.5	2.4	2.6	2.3	3.3	1.8	1.0	0.6	0.2
2	5.5	3.4	2.8	5	2.4	2.5	2.2	3.3	1.8	1.0	0.5	0.1
3	5.5	3.3	2.6	4.8	2.4	2.4	2.3	3.3	1.8	0.9	0.4	0.2
4	5.5	3.2	2.4	4.5	2.4	2.4	3.5	3.3	1.6	0.9	0.4	0.1
5	3.0	3.2	2.4	4.4	2.4	2.3	3.3	3.3	1.4	0.9	0.3	0.1
6	2.4	3.2	2.4	4.2	2.4	2.0	3.0	3.3	1.4	0.9	0.2	0.1
7	2.4	3.1	2.4	4.0	2.3	2.0	2.8	3.2	1.4	0.6	0.3	0.1
8	2.4	3.0	2.4	7.5	2.2	2.0	2.7	2.9	1.4	0.6	0.4	0.2
9	2.4	3.0	2.4	7.5	2.2	2.0	2.7	2.9	1.6	0.6	0.4	0.3
10	2.4	3.0	5	3.6	2.2	2.0	4.0	2.9	2.2	0.5	0.5	0.2
11	2.4	2.9	4.8	3.5	2.1	2.6	4.0	3.1	2.0	0.6	0.5	0.2
12	3.0	2.8	4.7	3.4	2.1	2.7	3.5	3.1	1.8	0.6	0.5	0.2
13	2.5	2.8	4.6	3.2	2.1	2.7	3.0	2.9	1.4	0.5	0.5	0.3
14	2.4	2.8	4.5	3.1	2.1	11	7	2.6	1.8	0.7	0.6	0.3
15	2.4	2.8	4.4	3.0	2.0	6	5.5	2.5	1.6	0.7	0.6	0.3
16	2.4	2.8	4.3	3.0	2.0	4.0	4.5	2.4	1.3	0.7	0.6	0.3
17	2.4	2.8	4.2	3.0	2.0	3.3	5	2.3	1.4	0.7	0.7	0.4
18	2.4	2.8	4.1	3.0	2.0	3.0	4.1	2.2	1.4	0.7	0.6	0.4
19	2.4	2.8	4.1	3.0	2.0	2.8	4.1	2.1	1.4	0.9	0.6	0.4
20	2.5	3.0	4.1	3.0	2.0	2.8	4.1	2.0	1.6	0.9	0.5	0.4
21	2.7	3.1	4.1	3.0	4.5	2.8	4.1	2.0	1.4	0.9	0.5	0.3
22	3.3	3.2	4.1	3.5	4.2	2.8	4.1	2.0	1.1	0.7	0.5	0.3
23	3.3	3.4	4.1	2.7	3.5	2.8	4.1	2.0	1.1	0.6	0.4	0.3
24	3.3	3.6	4.1	2.4	3.2	2.8	3.7	1.9	1.1	0.6	0.4	0.3
25	3.4	3.7	4.2	2.4	3.0	2.8	3.5	1.9	1.1	0.6	0.4	0.3
26	3.4	3.8	4.4	2.4	2.8	2.8	3.4	1.9	1.1	0.6	0.4	0.3
27	3.4	4.0	4.2	2.4	2.7	2.7	3.3	1.9	1.0	0.6	0.3	0.3
28	3.4	3.7	3.2	2.4	2.7	2.6	3.3	1.9	1.0	0.7	0.3	0.2
29	3.5	3.4	2.7	2.4		2.5	3.3	1.9	1.0	0.7	0.3	0.2
30	3.5	3.2	1.2	2.4		2.5	3.3	1.9	1.0	0.7	0.2	0.1
31	3.4		6.5	2.4		2.4		1.9		0.6	0.2	
	97.9	95.2	178.3	110.6	70.3	92.6	109.7	78.1	43.0	22.2	13.6	7.4
Mean	3.16	3.17	5.75	3.57	2.51	2.99	3.66	2.58	1.43	0.72	0.44	0.25
Acre-Feet	194.	189.	354.	219.	139.	184.	218.	155.	85.	44.	27.	15.

Remarks: See accuracy.

Year or Period — Mean 2.52 — Acre-Feet 1820.

STATION F22R

MONROVIA CREEK above Sawpit Creek

LOCATION:

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

DRAINAGE AREA:

1.9 square miles.

CHANNEL AND CONTROL:

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

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed November 10, 1927 in a concrete rubble house over a 4 ft. x 3 ft. concrete stilling well.
An H.C.F. continuous recorder was in service from October 1, 1941 to September 30, 1942.

REGULATION:

None.

DIVERSIONS:

Monrovia pipe line diverts water above gage.

RECORDS AVAILABLE:

November 10, 1927 to September 30, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 2.6 second-feet, December 29.
Minimum + at various times.
1927-1942
Maximum not determined March 2, 1938.
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 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F22-R

DISCHARGE MEASUREMENTS OF MONROVIA CREEK

at above Sawpit Creek DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
352	10-2	1112A 1118A	Haig	2.2	0.19	0.21	4.23	0.04		.6	4	0	FC 33
353	10-22	1200N 1208P	"	3.8	0.48	0.56	4.32	0.27		.6	4	0	"
354	10-30	120P 123P	Haig-Middleton	2.4	0.23	0.78	4.30	0.18		.6	4	0	"
355	11-13	1035A 1037A	Middleton	2.8	0.25	0.24	4.28	0.06		.6	4	0	FC 36
356	11-19	1110A 1118A	Haig	2.0	0.18	0.33	4.28	0.06		.6	4	0	FC 33
357	11-27	330P 338P	"	2.0	0.28	0.21	4.27	0.06		.6	4	0	"
358	12-3	355P 400P	"	3.0	0.48	0.56	4.34	0.28		.6	4	0	"
359	12-10	1105A 1110A	"	5.5	1.72	1.22	4.49	2.1		.6	5	0	"
360	12-10	232P 237P	"	6.2	2.00	1.25	4.53	2.5		.6	6	+.04	"
361	12-10	816P 822P	Haig-Keim	5.0	1.40	1.53	4.44	1.7		.6	6	0	"
362	12-11	110P 120P	Haig	4.0	0.56	0.75	4.30	0.42		.6	5	0	"
363	12-18	1103A 1110A	"	3.0	0.33	0.33	4.24	0.11		.6	5	0	"
364	12-26	137P 141P	"	3.0	0.32	0.44	4.25	0.14		.6	3	0	"
365	12-28	654P 659P	"	5.0	1.35	1.11	4.43	1.5		.6	5	0	"
366	12-29	145P 150P	"	5.0	1.36	1.17	4.41	1.6		.6	5	0	FC 28
367	12-31	122P 128P	"	4.0	0.74	0.72	4.31	0.53		.6	5	0	FC 33
368	1-8	332P 338P	"	4.0	0.40	0.32	4.25	0.13		.6	4	0	"
369	1-15	125P 130P	"	2.5	0.22	0.32	4.24	0.07		.6	5	0	"
370	1-22	632A 638A	"	3.0	0.28	0.32	4.23	0.08		.6	4	0	"
371	1-29	218P 222P	"	2.5	0.21	0.43	4.23	0.09		.6	5	0	"
372	2-5	1217P 1220P	"	2.5	0.24	0.17	4.23	0.05		.6	3	0	"
373	2-11	255P 259P	"	1.5	0.17	0.35	4.22	0.06		.6	3	0	"
374	2-18	1122A 1128A	"	1.5	0.18	0.50	4.23	0.09		.6	3	0	"
375	2-21	246P 250P	"	1.8	0.24	0.46	4.23	0.11		.6	3	0	"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F22-R

DISCHARGE MEASUREMENTS OF MONROVIA CREEK

at above Sawpit Creek DURING THE YEAR ENDING SEPTEMBER 30, 1942

NO	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
376	2-22	111P 117P	Haig	4.0	0.79	1.10	4.32	0.87		.6	6	0	FC 33
377	2-26	140P 146P	"	1.2	0.16	0.56	4.24	0.09		.6	4	0	"
378	3-5	216P 220P	"	1.2	0.16	0.44	4.23	0.07		.6	3	0	"
379	3-12	248P 251P	"	1.2	0.16	0.36	4.23	0.05		.6	3	0	"
380	3-14	800P 808P	"	4.0	0.75	0.73	4.35	0.55		.6	5	0	"
381	3-15	302P 306P	"	4.0	0.74	0.74	4.31	0.55		.6	4	0	"
382	3-19	118P 122P	"	2.0	0.27	0.55	4.24	0.15		.6	4	0	"
383	3-26	155P 158P	"	2.0	0.26	0.35	4.23	0.09		.6	3	0	"
384	4-2	122P 126P	"	1.0	0.12	0.58	4.22	0.07		.6	4	0	"
385	4-9	1158A 1200N	"	1.0	0.12	0.42	4.23	0.05		.6	3	0	"
386	4-16	1150A 1154A	"	1.0	0.10	0.60	4.24	0.06		.6	4	0	"
387	4-23	1240P 1244P	"	1.0	0.16	0.75	4.25	0.12		.6	2	0	"
388	4-30	1110A 1115A	"	1.2	0.17	0.65	4.23	0.11		.6	3	0	"
389	5-7	1147A 1152A	Cole	1.2	0.16	0.62	4.22	0.10		.6	3	0	FC 24
390	5-21	1050A 1055A	"	1.1	0.13	0.39	4.21	0.05		.6	4	0	"
391	5-28	1216P 1218P	Haig	1.0	0.14	0.43	4.22	0.06		.6	2	0	FC 33
392	6-4	1230P 1232P	"	1.0	0.16	0.37	4.23	0.06		.6	2	0	"
393	6-11	1142A 1145A	Haig	1.0	0.16	0.37	4.23	0.06		.6	2	0	FC 33
394	6-18	1220P 1222P	"	1.0	0.15	0.27	4.22	0.04		.6	2	0	"
395	6-25	157P 200P	"	1.0	0.14	0.29	4.21	0.04		.6	4	0	"
396	7-2	1250P 1252P	"	1.0	0.15	0.27	4.21	0.04		.6	2	0	"
397	7-8	1150A 1152A	Haig-Brewster	0.5	0.10	0.30	4.20	0.03		.6	1	0	"
398	7-15	1045A 1048A	Brewster	0.5	0.11	0.36	4.21	0.04		.6	1	0	FC 12
399	7-22	1202P 1205P	"	0.5	0.11	0.27	4.20	0.03		.6	1	0	"
400	7-29	1225P 1230P	Haig	0.5	0.10	0.20	4.20	0.02		.6	1	0	FC 33
401	8-5	1150A 1152A	"	0.5	0.10	0.20	4.19	0.02		.6	1	0	"
402	8-12	1128A 1130A	"	0.6	0.12	0.17	4.19	0.02		.6	1	0	"
403	8-19	115P 118P	"	0.6	0.12	0.17	4.19	0.02		.6	1	0	"
404	8-27	1128A 1130A	"	0.6	0.12	0.17	4.19	0.02		.6	1	0	"
405	9-3	1135A 1138A	"	0.5	0.10	0.30	4.25	0.03		.6	1	0	"
406	9-10	213P 216P	"	0.5	0.10	0.30	4.20	0.03			1	0	"
407	9-17	1217P 1220P	"	0.5	0.10	0.30	4.20	0.03			1	0	"
408	9-24	1233P 1235P	"	0.5	0.10	0.20	4.19	0.02			1	0	"

F.C. Dist. Form 52 3-11

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, 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.05	0.2	0.05	0.2	0.1	0.1	0.05	0.1	0.05	0.05	0.05	0.05
2	0.05	0.2	0.05	0.1	0.05	0.1	0.05	0.1	0.05	0.05	0.05	0.05
3	0.1	0.2	0.1	0.1	0.05	0.1	0.1	0.1	0.05	0.05	0.05	0.05
4	0.1	0.2	0.2	0.1	0.05	0.1	0.1	0.1	0.05	0.05	0.05	0.05
5	0.1	0.1	0.2	0.1	0.05	0.1	0.1	0.1	0.05	0.05	0.05	0.05
6	0.1	0.1	0.2	0.1	0.05	0.1	0.1	0.1	0.05	0.05	0.05	0.05
7	0.2	0.1	0.2	0.1	0.05	0.1	0.05	0.1	0.05	0.05	0.05	0.05
8	0.2	0.1	0.2	0.1	0.05	0.1	0.05	0.1	0.05	0.05	0.05	0.05
9	0.2	0.1	0.2	0.1	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.05
10	0.2	0.1	1.3	0.1	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.05
11	0.2	0.05	0.8	0.1	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.05
12	0.3	0.05	0.3	0.1	0.05	0.05	0.1	0.1	0.05	0.05	0.05	0.05
13	0.5	0.05	0.2	0.1	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.05
14	0.4	0.05	0.2	0.1	0.05	0.3	0.05	0.1	0.05	0.05	0.05	0.05
15	0.3	0.05	0.1	0.1	0.1	0.6	0.05	0.1	0.05	0.05	0.05	0.05
16	0.3	0.05	0.1	0.1	0.1	0.5	0.05	0.1	0.05	0.05	0.05	0.05
17	0.3	0.05	0.1	0.1	0.1	0.3	0.1	0.1	0.05	0.05	0.05	0.05
18	0.2	0.05	0.1	0.1	0.1	0.2	0.1	0.05	0.05	0.05	0.05	0.05
19	0.2	0.05	0.1	0.1	0.1	0.1	0.1	0.05	0.05	0.05	0.05	0.05
20	0.2	0.05	0.1	0.1	0.1	0.1	0.1	0.05	0.05	0.05	0.05	0.05
21	0.3	0.05	0.1	0.1	0.2	0.1	0.1	0.05	0.05	0.05	0.05	+
22	0.3	0.05	0.1	0.1	1.0	0.1	0.1	0.05	0.05	0.05	0.05	+
23	0.2	0.05	0.1	0.1	0.6	0.1	0.1	0.05	0.05	0.05	0.05	+
24	0.3	0.05	0.1	0.1	0.3	0.1	0.1	0.05	0.05	0.05	0.05	+
25	0.4	0.05	0.1	0.1	0.2	0.1	0.1	0.05	0.05	0.05	0.05	+
26	0.3	0.05	0.1	0.1	0.1	0.1	0.1	0.05	0.05	0.05	0.05	+
27	0.3	0.05	0.1	0.1	0.1	0.1	0.1	0.05	0.05	0.05	0.05	+
28	0.2	0.05	0.6	0.1	0.1	0.1	0.1	0.05	0.05	0.05	0.05	+
29	0.2	0.05	1.8	0.1		0.1	0.1	0.05	0.05	0.05	0.05	+
30	0.2	0.05	1.3	0.1		0.1	0.1	0.1	0.05	0.05	0.05	+
81	0.2		0.6	0.1		0.05		0.1		0.05	0.05	
	7.1	2.40	9.80	3.2	3.95	4.20	2.50	2.50	1.50	1.55	1.55	1.00
MEAN	0.23	0.08	0.32	0.10	0.14	0.14	0.08	0.08	0.05	0.05	0.05	0.03
ACRE-FEET	14.	4.8	19.	6.3	7.8	8.3	5.0	5.0	3.0	3.1	3.1	2.0

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

YEAR OR PERIOD MEAN 0.11
ACRE-FEET 81.4

STATION F195R

MONROVIA STORM DRAIN at Peck Road

LOCATION:

On the left (east) wing wall of approach to concrete outlet channel of Monrovia Storm Drain into Peck Road and about 1 mile south of Monrovia.

DRAINAGE AREA:

4.5 square miles.

CHANNEL AND CONTROL:

Channel-sand and gravel, upstream from stilling well; concrete channel starts at well. Control-concrete sill at beginning of concrete lined channel - 22.5 ft wide x 3.2 ft deep.

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed April 25, 1932, over an 18 inch diameter corrugated iron pipe stilling well. A Stevens type L recorder was in service from October 1, 1941 to September 30, 1942.

REGULATION:

None.

DIVERSIONS:
None.

RECORDS AVAILABLE:

April 25, 1932 to September 30, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 412 second-feet, December 10.
Minimum no flow most of the year.
1932-1942
Maximum 1200 second-feet, estimated, March 2, 1938.
Minimum no flow most of each year.

ACCURACY:

Fair.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F195-R

DISCHARGE MEASUREMENTS OF MONROVIA STORM DRAIN

AT Peck Road DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
5	12-3	303P 308P	Haig	12.5	2.41	2.20	0.82	5.3		.6	4	0	FC 33
6	3-14	434P 450P	"	25.0	15.4	5.21	1.45	80.3		.6	8	0	"
7	4-10	605P 610P	Haig-Mayer	14.0	3.84	2.72	0.91	10.4		.6	7	-.02	"
8	4-17	622A 624A	Haig	3.0	0.30	1.33	0.55	0.40	Float		2	0	

F.C. Dist. Form 52 3-41

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 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	3.2	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	5.5	0	0	0	+	0	0	0	0	0
4	0	0	0	0	0	0	5	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	3.1	0	0	0	1.5	0	0	0	0.1	0
11	0	0	0	0	0		1.1	0	0	0	0	0
12	E 1.5	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	15	0.9	0	0	0	0	0
15	0	0	0	0	0	+	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	1.7	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	E 0.8	0	0	0	9.5	0	E 0.2	0	0	0	0	0
22	0	0	0	0	1.0	0	0	0	0	0	0	0
23	1.0	0	9	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0.2	0	0	0	0	0	0	0
25	0	0	3.1	0	0	0	0	0	0	0	0	0
26	0	0	+	0	0	0	0	0	0	0	0	0
27	+	0	0	0	0	0	0	0	0	0	0	0
28	0	0	16	0	0	0	0	0	0	0	0	0
29	0	0	5.5	0		0	0	0	0	0	0	0
30	0	0	2.0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	3.3	0	72.1	3.2	10.7	15	10.4	0	0	0	0.1	0
MEAN	0.11	0	2.32	0.10	0.38	0.48	0.35	0	0	0	+	0
ACRE-FEET	6.5	0	143.	6.3	21.	30.	21.	0	0	0	0.2	0

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

YEAR OR PERIOD MEAN 0.31
ACRE-FEET 228.

STATION F181R

MONTEBELLO STORM DRAIN at outlet into Rio Hondo

LOCATION:

On right (south) wing wall of the storm drain outlet, 200 feet east of the east end of Mines Avenue and 220 feet west of west bank of the Rio Hondo near Montebello.

DRAINAGE AREA:

9.6 square miles.

CHANNEL AND CONTROL:

Channel-concrete apron with wing walls below a 14 ft. x 10 ft. concrete covered drain. A drop off exists just below the station.
On April 11, 1935 a diversion wall 4 inches high was built across the drain 20 feet above the station.
The stage-discharge relation, during flood flows in the Rio Hondo, is affected by backwater from the Rio Hondo.

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed January 21, 1932 over an 18 inch diameter corrugated iron pipe stilling well.
An H.C.F. continuous recorder was in service, from October 1, 1941 to September 30, 1942.
On March 25, 1942 a secondary wooden well was constructed outside the iron pipe well to improve the relation between outside and inside gage height.

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, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 521 second-feet, December 10.
Minimum 0.1 second-foot at various times.
1931-1942
Maximum 1400 second-feet, estimated, March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Poor due to unreliable relationship between inside gage height and discharge.
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 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F181-R

DISCHARGE MEASUREMENTS OF MONTEBELLO STORM DRAIN

AT Outlet into Rio Hondo DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
99	10-22	231P 234P	Bonadiman	8.0	0.72	0.40	0.18	0.28		.6	2	0	FC 19
100	12-3	122P 132P	"	14.0	12.8	6.60	0.79	82.5		.6	7	-.04	"
101	12-10	732A 743A	Bonadiman-Walton	14.0	11.2	5.98	0.77	67.5		.6	9	-.03	"
102	12-25	915P 925P	"	14.0	14.2	6.80	0.88	96.5		.6	7	-.08	"
103	12-28	458P 510P	"	14.0	19.7	8.73	1.31	146.		Surf.	7	-.02	"
104	12-30	522A 535A	Walton-Bonadiman	14.0	8.78	4.59	0.60	40.3		.6	6	+.01	"
105	2-21	217P 227P	Bonadiman-Walton	14.0	12.6	6.72	0.80	84.5		.6	6	-.05	"
106	2-22	828A 835A	"	10.0	1.62	0.93	0.22	1.5		.6	4	0	"
107	3-11	802A 810A	Bonadiman	14.0	5.41	1.90	0.36	10.3		.6	7	0	"
108	3-11	816A 825A	"	14.0	4.86	1.69	0.35	8.2		.6	7	0	"
109	3-14	338P 352P	Bonadiman-Walton	14.0	30.7	10.1	1.45	311.		Surf.	6	-.08	"
110	3-14	354P 406P	"	14.0	29.5	9.85	1.37	290.		Surf.	7	-.14	"
111	4-10	545P 555P	Bonadiman	14.0	8.76	5.96	0.69	52.4		.6	6	-.08	"
112	4-14	1046A 1056A	"	14.0	13.7	6.97	0.83	95.7		.6	7	-.07	"
113	4-14	1058A 1107A	"	14.0	13.5	6.82	0.78	92.2		.6	6	-.01	"

F.C. Dist. Form 82 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No F181-R

Daily discharge, in second-feet of MONTEBELLO STORM DRAIN at Outlet into Rio Hondo, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.9	1.1	0.9	7.5	0.1	0.1	0.5	0.3	0.1	0.1	0.1	0.1
2	0.9	0.7	1.1	0.9	0.1	0.1	0.9	0.1	0.1	0.1	0.1	0.1
3	0.7	0.7	11	0.1	0.1	0.1	3.2	0.1	0.1	0.1	0.1	0.1
4	0.9	1.1	0.7	0.1	0.1	0.3	9	0.1	0.1	0.1	0.1	0.1
5	0.9	0.7	0.3	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.1
6	1.3	0.5	0.3	0.1	0.1	0.5	3.8	0.9	0.1	0.1	0.1	0.1
7	0.9	0.9	0.1	0.1	0.1	0.3	0.7	1.1	0.1	0.1	0.1	0.1
8	0.7	0.9	0.1	0.1	0.1	0.3	0.3	1.1	0.1	0.1	0.1	0.1
9	0.9	0.9	2.7	0.1	0.1	0.7	0.7	0.7	0.1	0.1	6.5	0.1
10	1.1	0.9	102	0.1	0.3	0.9	10	0.7	0.1	0.1	2.2	0.1
11	0.9	1.3	2.8	0.1	0.1	3.6	12	0.9	0.1	0.1	0.1	0.1
12	4.4	2.0	0.1	0.1	0.1	0.7	0.1	0.9	0.1	0.1	0.1	0.1
13	0.1	0.1	0.1	0.1	0.1	0.5	0.1	0.9	0.1	0.1	0.1	0.1
14	0.1	0.7	0.1	0.1	0.1	43	12	0.7	0.1	0.1	0.1	0.1
15	0.3	0.1	0.1	0.1	0.1	2.1	0.7	1.1	0.1	0.1	0.1	0.1
16	0.3	0.1	0.1	0.3	0.1	0.9	0.5	0.9	0.1	0.1	0.1	0.1
17	0.3	0.1	0.1	0.1	0.1	0.7	7	0.7	0.1	0.1	0.1	0.1
18	0.3	0.1	0.1	0.1	0.1	0.5	1.5	0.1	0.1	0.1	0.1	0.1
19	1.1	0.5	0.1	0.1	0.3	0.3	1.5	0.1	0.1	0.1	0.1	0.1
20	2.4	0.3	0.1	0.1	0.3	0.3	1.5	0.1	0.1	0.1	0.1	0.1
21	9.5	0.5	0.1	0.1	20	0.3	5	0.1	0.1	0.1	0.1	0.1
22	7	0.7	0.5	2.9	5	0.9	1.1	0.1	0.1	0.1	0.1	0.1
23	7.5	0.7	2.7	0.1	0.1	0.7	0.3	0.1	0.1	0.1	0.1	0.1
24	0.9	0.7	0.1	0.1	0.1	1.1	0.3	0.1	0.1	0.1	0.1	0.1
25	0.5	0.5	.9	0.1	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.1
26	0.3	0.7	2.5	0.1	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.1
27	3.1	0.7	0.5	0.1	0.3	0.3	0.9	0.1	0.1	0.1	0.1	0.1
28	0.5	0.7	30	0.1	0.1	0.5	1.1	0.1	0.1	0.1	0.1	0.1
29	0.3	0.9	20	0.1		0.3	0.1	0.1	0.1	0.1	0.1	0.1
30	0.3	0.9	11	0.1		0.5	0.1	0.1	0.1	0.1	0.1	0.1
31	1.1		1.3	0.1		0.5		0.1		0.1	0.1	
	50.4	20.7	200.6	14.3	28.4	61.7	76.0	12.7	3.0	3.1	11.6	3.0
Mean	1.63	0.69	6.47	0.46	1.01	1.99	2.35	0.41	0.10	0.10	0.37	0.10
Acre-Feet	100.	41.	398.	28.	56.	122.	151.	25.	6.0	6.1	23.	6.0

Remarks: See accuracy.

Year or Period Mean 1.33
Acre-Feet 962.

STATION F118B-R

PACOIMA CREEK FLUME below Pacoima Dam

LOCATION:

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

DRAINAGE AREA:

28.2 square miles.

CHANNEL AND CONTROL:

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

DISCHARGE MEASUREMENTS:

From footbridge over flume.

RECORDER:

Installed at Station F118R on March 24, 1933; removed February 1, 1935.
Installed at Station F118B-R on February 9, 1935; removed April 28, 1937. Reinstalled June 25, 1937 over a 2.5 foot x 3.0 foot wooden stilling well.
An H.C.F. continuous recorder was in service from October 1, 1941 to September 30, 1942.

REGULATION:

Regulated by Pacoima Dam.
Stations F118R and F118B-R do not include spillway discharge.
Station U13R was so located that it would have included spillway discharge.

DIVERSIONS:

Water passing over Pacoima Dam spillway enters Pacoima Creek below Station F118B-R.

RECORDS AVAILABLE:

At Station U13R, Pacoima Creek near San Fernando, California at office of U.S. Geological Survey, Water Resources Branch, Los Angeles, from March, 1916 to September, 1929. From October 1, 1929 to March 23, 1933, records based on dam outflow records and gage readings at the Parshall flume below Pacoima Dam. These records are available at the office of the Los Angeles County Flood Control District.
At Station F118R
March 24, 1933 to February 1, 1935.
At Station F118B-R
February 9, 1935 to April 28, 1937, and June 25, 1937 to September 30, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 97 second-feet, July 15.
Minimum no flow at various times.
1929-1942 (Stations F118R, F118B-R, and Parshall flume and dam records)
Maximum 685 second-feet, March 2, 1938.
Minimum no flow at various times.
1916-1929 (Station U13R)
Maximum 1860 second-feet, February 16, 1927.
Minimum no flow at various times.

ACCURACY:

Excellent for low flows.
Fair for intermediate and high flows.
V-notch weir is put into operation during low flows; while pool was filling and head building up, flow is considered constant.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F118B-R

DISCHARGE MEASUREMENTS OF PACOIMA CREEK FLUME

at below Pacoima Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAN SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
102	6-25	1035A 1055A	Luce	10.0	9.89	4.84	1.22	47.9		.6	12	0	FC 39
103	6-25	1110A 1125A	"	23.3	16.2	2.73	1.22	44.3		.6	13		"
104	6-25	1034A 1049A	E. De Vore G. De Vore	8.3	3.29	1.03		3.4		.6	9		FC 31
105	7-15	437A 448A	Luce	10.0	14.6	6.53		95.4		.6	9		FC 39

F.C. Dist. Form 52 3-41

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 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	4.2	0	+	6.6	+	0.1	E 4.7	4.1	4.6	4.5	5.9
2	+	4.2	0	+	6.5	+	0.1	2.3	4.4	5.3	4.5	5.8
3	+	4.2	0	+	6.6	+	0.1	0.1	4.2	5.1	4.5	5.9
4	+	4.2	0	+	6.6	+	0.1	0.6	4.0	5.0	4.5	5.9
5	+	4.1	0	+	6.5	+	0.1	1.5	4.0	4.9	4.5	5.9
6	+	4.1	0	3.4	6.4	+	0.1	1.5	4.0	4.8	4.5	5.8
7	2.9	3.8	0	7.3	6.2	0.1	0.1	1.5	3.9	4.7	4.5	5.7
8	6.2	3.3	0	7.2	6.2	0.1	0.1	0.8	3.8	4.7	4.5	5.7
9	5.2	3.3	0	7.2	6.2	0.1	0.1	0.1	4.5	4.6	4.5	5.6
10	4.8	3.3	+	7.2	2.9	0.1	0.1	0.1	5.0	4.6	4.6	5.4
11	4.2	3.2	+	6.3	+	0.1	0.1	0.1	5.0	4.6	4.6	4.5
12	4.3	3.2	+	5.6	+	0.1	0.1	0.1	5.0	4.5	4.7	0.5
13	4.3	3.2	+	3.2	+	0.1	0.1	0.1	5.0	4.3	5.9	0.1
14	4.4	3.1	+	E 0.1	+	0.1	0.3	0.1	4.9	4.3	6.4	0.1
15	4.4	3.1	+	0.1	+	0.1	0.1	0.1	4.8	19.1	5.7	0.8
16	4.3	3.0	+	0.1	+	0.1	E 0.1	0.1	4.7	4.3	5.8	3.1
17	4.3	3.0	+	0.1	+	0.1	0.1	0.1	4.7	4.3	5.8	4.0
18	4.3	3.0	+	0.1	+	0.1	0.1	E 4.5	4.6	4.3	5.9	3.9
19	4.3	2.9	+	0.1	+	0.1	0.1	6.2	4.5	4.4	6.0	3.8
20	4.3	2.8	+	0.1	+	0.1	0.1	4.2	4.3	5.2	5.9	3.7
21	4.2	2.2	+	0.1	+	+	0.1	3.6	4.2	6.1	5.8	3.7
22	4.3	0.3	+	0.1	0.1	+	0.1	E 3.6	4.1	5.4	6.1	3.6
23	4.4	0.1	+	0.1	0.1	0.1	0.1	E 3.6	4.1	5.4	6.1	3.6
24	4.4	+	+	0.1	+	0.1	0.1	E 3.6	4.0	5.4	6.1	3.6
25	4.4	+	+	0.1	+	0.1	0.1	E 3.6	E 25	5.4	6.0	3.6
26	4.4	+	+	0.1	+	0.1	0.1	E 3.6	4.6	5.4	6.0	3.6
27	4.4	+	+	2.9	+	0.1	0.7	E 3.6	4.6	5.5	6.0	3.6
28	4.4	0	0.1	6.6	+	0.1	0.1	3.5	4.6	5.5	6.0	3.6
29	4.3	0	0.1	6.6		0.1	0.1	3.3	4.5	5.5	6.1	3.6
30	4.3	0	0.1	6.6		0.1	E 1.2	3.2	4.3	4.9	6.0	3.5
31	4.3		0.1	6.6		0.1		3.2		4.5	6.0	
	110.0	71.8	0.4	78.0	60.9	2.3	4.9	67.2	153.4	166.6	168.0	118.1
Mean	3.55	2.39	0.01	2.52	2.18	0.07	0.16	2.17	5.11	5.37	5.42	3.94
Acre-Feet	218.	142.	0.8	155.	121.	4.6	9.7	133.	304.	330.	333.	234.

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

Year or Period: Mean 2.74; Acre-Feet 1980.

STATION F16R

PACOIMA WASH at Parthenia Street

LOCATION:

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

DRAINAGE AREA:

50.6 square miles.

CHANNEL AND CONTROL:

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

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed December 26, 1928, over an 18 inch diameter corrugated iron pipe stilling well. An H.C.F. continuous recorder was in service from October 1, 1941 to September 30, 1942.

REGULATION:

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

DIVERSIONS:

Two small diversions for irrigation near mouth of canyon. Water diverted to the Pacoima Spreading Grounds during spreading operations.

RECORDS AVAILABLE:

December 26, 1928 to September 30, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 57 second-feet, December 10.
Minimum no flow most of year.
1929-1942
Maximum 2400 second-feet, estimated March 3, 1938.
Minimum no flow most of each year.

ACCURACY:

Fair.
Control shift was less than usual this season.

OPERATION:

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

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

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, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Mins	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
166	12-3	450P 458P	Luce	4.0	0.65	0.85	4.57	0.55		.6	5	-.02	FC 39
167	12-10	307P 315P	Luce-Pardeick	42.5	16.4	3.54	5.00	57.5		.6	12	-.03	"
168	12-10	900P 912P	Miller-Rauls	5.5	1.33	1.05	4.42	1.4		.6	6	-.02	FC 35
169	12-28	738P 742P	Luce-Pardeick	22.5	8.79	3.86	4.89	33.8		.6	9	-.04	FC 39
170	12-28	1050P 1110P	Miller-Truitt	16.0	5.74	3.19	4.60	18.3		.6	10	-.01	FC 35
171	2-21	149P 151P	Luce-Pardeick	3.5	0.47	0.96	4.11	0.45		.6	4	-.02	FC 39
172	2-21	808P 818P	Miller-Truitt	4.5	0.74	0.91	4.08	0.67		.6	5	-.02	FC 35
173	3-14	430P 440P	Miller-Rauls	6.0	1.76	1.93	4.14	3.4		.6	7	-.02	"
174	4-14	1245P 1255P	Luce	4.5	1.69	1.48	3.97	2.5		.6	5	0	FC 39

F.C. Dist. Form 52 3-41

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, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0 .2	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	+	0	0	0	0	0	0	0	0	0
10	0	0	9	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 .6	0 .7	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 .1	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 .5	0	+	0	0	0	0	0
22	0	0	0	0	+	0	+	0	0	0	0	0
23	0	0	+	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	+	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	5 .5	0	0	0	0	0	0	0	0	0
29	0	0	0 .3	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	15 .0	0	0 .5	0 .6	0 .6	0	0	0	0	0
MEAN	0	0	0.48	0	0.02	0.02	0.03	0	0	0	0	0
ACRE-FEET	0	0	30.	0	1.0	1.2	1.6	0	0	0	0	0

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

YEAR OR PERIOD MEAN 0.05
ACRE-FEET 33.8

STATION F40R

PUDDINGSTONE CREEK below Puddingstone Dam

LOCATION:

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

DRAINAGE AREA:

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

CHANNEL AND CONTROL:

Channel-sand, gravel and puddingstone. Control-reinforced concrete Cipolletti weir 25 feet on bottom by 3 feet deep with a Cippolletti weir in center 24 inches on bottom by 18 inches deep.

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed December 28, 1927 in a concrete house over a 3 ft. x 4 ft. concrete stilling well.
An H.C.F. continuous recorder was in service from October 1, 1941 to September 30, 1942.

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, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 91 second-feet, December 3.
Minimum + at various times.
1929-1942
Maximum 104 second-feet, March 7, 1938.
Minimum + at various times.

ACCURACY:

Excellent.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F40-R

DISCHARGE MEASUREMENTS OF PUDDINGSTONE CREEK

at near below Puddingstone Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
260	10-1	406P 412P	Brewster	2.5	3.29	2.21	1.02	7.3		.6	5	0	FC 12
261	10-8	915A 921A	"	2.5	3.08	2.01	0.91	6.2		.6	5	0	"
262	10-15	854A 900A	"	2.5	3.08	2.02	0.91	6.2		.6	5	0	"
263	10-22	335P 345P	"	4.0	4.08	2.99	1.41	12.2		.6	4	0	"
264	10-29	849A 855A	"	4.5	4.28	2.76	1.37	11.8		.6	5	0	"
265	11-5	907A 915A	"	4.0	4.54	2.58	1.34	11.7		.6	4	0	"
266	11-5	1050A 1100A	Haig	12.0	6.72	1.77	1.33	11.9		.6	7	0	FC 33
267	11-12	850A 900A	Brewster	5.0	6.21	1.93	1.39	12.0		.6	5	0	FC 12
268	11-18	600A 610A	"	8.0	8.85	1.98	1.55	17.5		.6	6	0	"
269	11-19	555A 607A	"	8.0	9.80	2.48	1.67	24.3		.6	5	0	"
270	11-26	900A 912A	"	8.0	8.70	1.23	1.30	10.7		.6	4	0	"
271	12-2	615A 630A	"	14.0	18.6	2.37	1.90	44.1		.6	7	0	"
272	12-3	645A 700A	"	14.0	23.2	3.94	2.27	91.4		.6	7	0	"
273	12-5	134P 140P	"	3.0	1.28	0.41	0.20	0.53		.6	4	0	"
274	12-10	854A 900A	"	2.0	1.29	0.54	0.23	0.70		.6	4	0	"
275	12-17	859A 905A	"	2.0	1.30	0.46	0.21	0.60		.6	4	0	"
276	12-23	215P 220P	"	2.0	1.23	0.51	0.20	0.63		.6	4	0	"
277	12-31	900A 905A	"	2.0	1.34	0.53	0.21	0.71		.6	4	0	"
278	1-7	909A 915A	"	2.0	1.25	0.46	0.20	0.58		.6	4	0	"
279	1-14	900A 906A	"	2.0	1.28	0.46	0.19	0.59		.6	4	0	"
280	1-21	914A 920A	"	2.0	1.27	0.46	0.19	0.58		.6	4	0	"
281	1-28	840A 846A	"	2.0	1.23	0.44	0.20	0.54		.6	4	0	"
282	2-4	840A 846A	"	2.0	1.24	0.44	0.20	0.55		.6	4	0	"
283	2-11	950A 956A	"	2.0	1.21	0.46	0.17	0.56		.6	4	0	"
284	2-18	922A 930A	Brewster	2.0	1.24	0.46	0.17	0.57		.6	4	0	FC 12
285	2-25	924A 930A	"	2.0	1.26	0.47	0.19	0.59		.6	4	0	"
286	3-4	439P 445P	"	2.0	1.22	0.45	0.18	0.55		.6	4	0	"
287	3-11	849A 855A	"	2.0	1.22	0.51	0.18	0.62		.6	4	0	"
288	3-18	924A 930A	"	2.0	1.26	0.49	0.18	0.62		.6	4	0	"
289	3-25	900A 905A	"	2.0	1.26	0.53	0.18	0.67		.6	4	0	"
290	4-1	915A 920A	"	2.0	1.19	0.49	0.18	0.58		.6	4	0	"
291	4-8	904A 910A	"	2.0	1.20	0.48	0.17	0.58		.6	4	0	"
292	4-15	844A 850A	"	2.0	1.21	0.43	0.18	0.52		.6	4	0	"
293	4-22	849A 855A	"	2.0	1.25	0.52	0.18	0.65		.6	4	0	"
294	4-29	250P 300P	"	2.5	1.37	0.51	0.18	0.70		.6	5	0	"
295	5-6	904A 910A	"	2.0	1.23	0.48	0.17	0.59		.6	4	0	"
296	5-13	910A 916A	"	2.0	1.15	0.27	0.13	0.31		.6	4	0	"
297	5-20	855A 900A	"	2.0	0.73	0.25	0.09	0.18		.6	4	0	"
298	5-27	916A 920A	"	0.5	0.13	0.46	0.04	0.06		.6	1	0	"
299	6-3	858A 902A	"	1.5	0.82	0.26	0.10	0.21		.6	3	0	"
300	6-10	847A 850A	"	0.5	0.13	0.38	0.04	0.05		.6	1	0	"
301	6-17	827A 830A	"	0.5	0.17	0.59	0.06	0.10		.6	1	0	"
302	6-24	847A 850A	"	0.5	0.19	0.53	0.06	0.10		.6	1	0	"
303	7-1	830A 835A	"	1.5	0.33	0.42	0.07	0.14		.6	3	0	"
304	7-8	455P 500P	"	1.5	0.31	0.42	0.06	0.13		.6	3	0	"
305	7-15	240P 245P	"	1.5	0.35	0.31	0.07	0.11		.6	3	0	"
306	7-21	325P 330P	"	1.0	0.30	0.53	0.08	0.16		.6	2	0	"
307	7-29	825A 830A	"	2.0	0.88	0.51	0.18	0.45		.6	4	0	"
308	8-5	835A 840A	Brewster	1.0	0.29	0.55	0.08	0.16		.6	2	0	FC 12
309	8-11	1000A 1005A	Haig	1.6	0.48	0.23	0.08	0.11		.6	3	0	FC 33
310	8-18	955A 1000A	"	1.7	0.72	0.46	0.11	0.33		.6	3	0	"
311	8-26	857A 900A	Brewster	0.5	0.19	0.63	0.07	0.12		.6	1	0	FC 12
312	9-2	956A 1000A	"	1.0	0.12	0.67	0.05	0.08		.6	2	0	"
313	9-8	816A 820A	"	1.0	0.18	0.67	0.07	0.12		.6	2	0	"
314	9-16	841A 845A	"	1.0	0.12	0.50	0.04	0.06		.6	2	0	"
315	9-23	400P 404P	"	1.0	0.12	0.50	0.04	0.06		.6	2	0	"
316	9-30	858A 902A	"	1.0	0.16	0.75	0.07	0.12		.6	2	0	"

F.C. Dist. Form 52 3-41

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, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.6	11.8	17.6	0.7	0.6	0.6	0.6	0.6	0.1	0.2	0.2	E 0.1
2	5.5	11.6	44	0.7	0.6	0.6	0.6	0.6	0.2	0.1	0.1	E 0.1
3	7.8	11.5	28	0.6	0.6	0.6	0.6	0.6	0.2	0.1	0.1	0.1
4	6.1	11.6	0.6	0.6	0.6	0.6	0.6	0.6	0.1	0.1	0.1	0.2
5	9.0	11.5	0.5	0.6	0.6	0.6	0.6	0.6	0.1	0.2	0.1	0.2
6	8.5	11.5	0.5	0.6	0.6	0.6	0.6	0.6	0.1	0.2	0.1	0.1
7	6.8	11.6	0.5	0.6	0.6	0.6	0.6	0.6	0.1	0.1	0.1	0.1
8	5.9	12.1	0.5	0.6	0.6	0.6	0.6	0.5	0.1	0.1	0.1	0.1
9	6.1	12.1	0.6	0.6	0.5	0.6	0.6	0.3	0.1	0.1	0.1	0.1
10	5.1	12.1	0.7	0.6	0.6	0.6	0.6	0.3	0.1	0.1	0.1	0.1
11	4.8	12.0	0.6	0.6	0.6	0.6	0.6	0.2	0.1	0.2	0.1	0.1
12	6.5	12.0	0.6	0.6	0.6	0.6	0.5	0.2	0.1	0.2	0.2	0.1
13	8.9	12.0	0.6	0.6	0.6	0.6	0.5	0.3	0.1	0.1	0.2	0.1
14	8.5	11.9	0.6	0.6	0.6	0.7	0.5	0.2	0.1	0.1	0.2	0.1
15	6.1	11.9	0.6	0.6	0.6	0.7	0.5	0.2	0.1	0.1	0.2	0.2
16	3.7	11.5	0.6	0.6	0.6	0.7	0.5	0.2	0.1	0.1	0.2	0.1
17	3.6	13.0	0.6	0.6	0.6	0.6	0.6	0.2	0.1	0.1	0.3	0.1
18	5.3	19.6	0.6	0.6	0.6	0.6	0.6	0.2	0.1	0.1	0.3	0.2
19	5.9	17.2	0.6	0.6	0.6	0.6	0.6	0.1	0.1	0.1	0.3	0.1
20	9.4	13.7	0.6	0.6	0.6	0.6	0.6	0.1	0.1	0.1	0.3	0.1
21	12.2	13.7	0.6	0.6	0.6	0.6	0.6	0.1	0.2	0.2	0.2	0.2
22	12.2	13.7	0.6	0.6	0.6	0.7	0.6	0.1	0.2	0.2	0.1	0.1
23	12.2	13.7	0.6	0.6	0.6	0.7	0.6	0.1	0.1	0.2	0.1	0.1
24	12.2	12.3	0.6	0.6	0.6	0.7	0.7	0.1	0.1	0.2	0.1	0.1
25	12.2	11.9	0.6	0.6	0.6	0.7	0.7	0.1	0.1	0.3	0.1	0.2
26	8.2	11.9	0.6	0.6	0.6	0.7	0.7	0.1	0.1	0.5	0.1	0.3
27	0.8	12.5	0.6	0.5	0.6	0.6	0.7	0.1	0.1	0.4	0.1	0.2
28	4.7	11.6	0.7	0.5	0.6	0.6	0.7	0.2	0.1	0.2	0.1	0.3
29	11.8	12.9	1.1	0.5		0.6	0.7	0.1	0.1	0.2	E 0.1	0.2
30	11.8	12.9	0.8	0.5		0.6	0.7	0.1	0.1	0.2	E 0.1	0.1
31	11.6		0.7	0.5		0.6		0.1		0.1	E 0.1	
	242.2	379.5	107.2	18.3	16.7	19.4	18.2	8.4	3.4	5.2	4.6	4.2
Mean	7.81	12.6	3.46	0.59	0.60	0.63	0.61	0.27	0.11	0.17	0.15	0.14
Acre-Feet	480.	753.	213.	36.	33.	38.	36.	17.	6.7	10.	9.1	8.3

Remarks:

Year or Period — Mean 2.27 — Acre Feet 1640.

STATION F192R

RIO HONDO at Lower Azusa Road

LOCATION:

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

DRAINAGE AREA:

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

CHANNEL AND CONTROL:

Channel-sand and gravel.
No artificial control.

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed March 29, 1932 over a 21 inch diameter corrugated iron pipe stilling well. An H.C.F. continuous recorder was in service from October 1, 1941 to September 30, 1942.

REGULATION:

Flow partially regulated by Sierra Madre Dam, Big Santa Anita Dam, Sawpit Dam, San Gabriel Dams Nos. 1 and 2 and Morris Dam, also Los Flores and Rubio Debris Basins and Eaton Dam. Santa Fe Dam was under construction during this period but no regulation was affected. Spreading flows during April were diverted to the Rio Hondo by a temporary levee above Santa Fe Dam.

DIVERSIONS:

The City of Pasadena diverts water from the San Gabriel River. The City of Monrovia diverts water from Monrovia Creek. The City of Sierra Madre diverts water from Little Santa Anita Canyon.
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, 1942, recorder records.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 254 second-feet, December 10.
Minimum no flow several months.
1932-1942
Maximum 31000 second feet, estimated March 2, 1938.
Minimum no flow at times each year.

ACCURACY:

Good for low flows.
Fair for high flows.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F192-R

DISCHARGE MEASUREMENTS OF RIO HONDO

AT Lower Azusa Road DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
342	10-2	350P 400P	Haig	21.0	5.39	0.45	1.33	2.4		.6	8	0	FC 33
343	10-9	507P 518P	"	19.0	4.94	0.47	1.31	2.3		.6	6	0	"
344	10-16	945A 955A	"	11.0	2.83	0.50	1.31	1.4		.6	7	0	"
345	10-23	805A 812A	Haig-Mellen	20.0	3.78	0.64	1.38	2.4		.6	7	0	"
346	10-30	435P 445P	Haig-Middleton	18.0	3.98	0.30	1.28	1.2		.6	8	0	"
347	11-6	320P 330P	Haig	17.0	3.89	0.36	1.28	1.4		.6	7	0	"
348	11-13	305P 315P	Middleton	13.0	2.74	0.58	1.28	1.6		.6	7	0	FC 36
349	11-19	300P 310P	Haig	14.0	3.40	0.24	1.26	0.82		.6	8	0	FC 33
350	11-27	1150A 1155A	"	13.0	3.02	0.36	1.26	1.1		.6	7	0	"
351	12-3	235P 242P	"	23.0	18.8	1.73	1.88	32.5		.6	9	-.02	"
352	12-4	407P 415P	"	11.0	2.12	0.57	1.26	1.2		.6	5	0	"
353	12-10	1250P 100P	Wallace-Mellen	25.0	18.7	1.36	1.88	25.6		.6	5	-.02	FC 28
354	12-10	439P 443P	"	28.0	35.6	2.90	2.46	103.		.6	6	-.02	"
355	12-11	445P 450P	Haig	12.0	3.35	0.51	1.29	1.7		.6	6	0	FC 33
356	12-18	420P 428P	"	12.0	2.40	0.50	1.26	1.2		.6	6	0	"
357	12-26	505P 512P	"	15.0	2.60	0.42	1.27	1.1		.6	7	0	"
358	12-28	750P 800P	Mellen	26.0	21.6	2.23	2.13	48.2		.6	6	-.04	FC 28
359	12-29	1222P 1230P	Haig	Two Channels			1.54	8.3		.6	8	0	"
360	12-30	315P 326P	Mayer-Haig	10.0	3.47	0.80	1.46	2.8		.6	6	0	FC 33
361	1-8	1040A 1045A	Haig	11.0	1.92	0.34	1.25	0.66		.6	6	0	"
362	1-15	515P 520P	"	12.0	2.28	0.30	1.26	0.69		.6	7	0	"
363	1-22	545A 552A	"	15.0	3.28	0.36	1.30	1.2		.6	7	0	"
364	1-29	1042A 1050A	"	12.0	2.12	0.41	1.28	0.88		.6	7	0	"
365	2-5	326P 332P	"	12.0	2.06	0.41	1.28	0.84		.6	7	0	"
366	2-11	940A 946A	Haig	12.0	2.10	0.40	1.26	0.85		.6	6	0	FC 33
367	2-18	310P 320P	"	12.0	2.03	0.49	1.26	1.0		.6	6	0	"
368	2-26	938A 944A	"	12.0	1.98	0.27	1.23	0.53		.6	7	0	"
369	3-5	426P 430P	"	12.0	2.45	0.49	1.25	1.2		.6	6	0	"
370	3-12	1000A 1005A	"	8.0	1.54	0.29	1.23	0.45		.6	5	0	"
371	3-14	535P 542P	Haig	Two Channels			2.47	102.		.6	11	-.10	FC 33
372	3-19	434P 440P	"	8.0	1.88	0.31	1.22	0.59		.6	5	0	"
373	3-26	1000A 1005A	"	8.0	1.50	0.28	1.25	0.42		.6	5	0	"
374	4-2	932A 938A	"	8.0	1.85	0.47	1.28	0.87		.6	5	0	"
375	4-9	505P 508P	"	8.0	1.31	0.34	1.24	0.45		.6	5	0	"
376	4-10	542P 550P	Haig-Mayer	Two Channels			1.53	8.3		.6	9	0	"
377	4-14	1240P 1244P	Haig	12.0	2.90	1.00	1.40	2.9		.6	6	0	"
378	4-16	425P 430P	"	5.5	1.12	0.62	1.28	0.70		.6	5	0	"
379	4-22	115P 130P	"	34.0	45.3	4.46	2.90	202.		.6	12	+.01	"
380	4-23	213P 230P	"	37.0	54.1	3.97	2.91	215.		.6	11	0	"
381	4-24	1235P 1252P	"	36.0	53.4	3.88	2.77	207.		.6	13	0	"
382	4-25	858A 916A	"	36.0	51.5	3.53	2.74	182.		.6	13	0	"
383	4-25	152P 158P	Haig	22.0	14.2	1.45	1.56	20.6		.6	8	0	FC33
384	4-30	256P 302P	"	3.0	0.55	0.76	1.12	0.42		.6	3	0	"
385	5-7	120P 127P	Cole	2.9	0.41	0.61	1.13	0.25		.6	4	0	FC 24
386	5-14	138P 148P	"	2.8	0.55	0.82	1.15	0.45		.6	5	0	"
387	5-21	230P 238P	"	3.0	0.41	0.83	1.12	0.34		.6	6	0	"
388	5-28	330P 333P	Haig	3.3	0.52	0.77	1.13	0.40		.6	4	0	FC 33
389	6-4	312P 315P	"	3.0	0.43	0.79	1.10	0.34		.6	4	0	"
390	6-11	205P 210P	Haig	2.5	0.49	0.82	1.10	0.40		.6	4	0	FC 33
391	6-18	1134A 1138A	"	2.8	0.43	0.70	1.11	0.30		.6	4	0	"
392	6-25	950A 955A	"	2.5	0.43	0.68	1.10	0.29		.6	5	0	"
393	7-2	340P 345P	"	2.5	0.42	0.74	1.10	0.31		.6	4	0	"
394	7-8	442P 446P	"	1.4	0.33	0.76	1.08	0.25		.6	2	0	"
395	7-16	754A 800A	Brewster	1.5	0.43	1.14	1.08	0.49		.6	3	0	FC 12
396	7-23	745A 750A	"	1.0	0.25	0.96	1.09	0.24		.6	2	0	"
397	7-29	420P 424P	Haig	1.4	0.28	0.71	1.05	0.20		.6	3	0	FC 33
398	8-5	310P 312P	"	1.4	0.28	0.90	1.05	0.25		.6	2	0	"
399	8-13	258P 305P	"	1.5	0.30	0.70	1.06	0.21		.6	4	0	"
400	8-19	850A 855A	"	1.3	0.31	0.77	1.07	0.24		.6	3	0	"
401	8-27	212P 216P	"	1.5	0.40	0.73	1.04	0.29		.6	3	0	"
402	9-2	925A 930A	"	1.5	0.42	0.76	1.06	0.32		.6	2	0	"
403	9-10	1105A 1110A	"	1.5	0.30	0.70	1.04	0.21		.6	3	0	"
404	9-24	340P 345P	"	1.4	0.25	0.72	1.01	0.18		.6	3	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

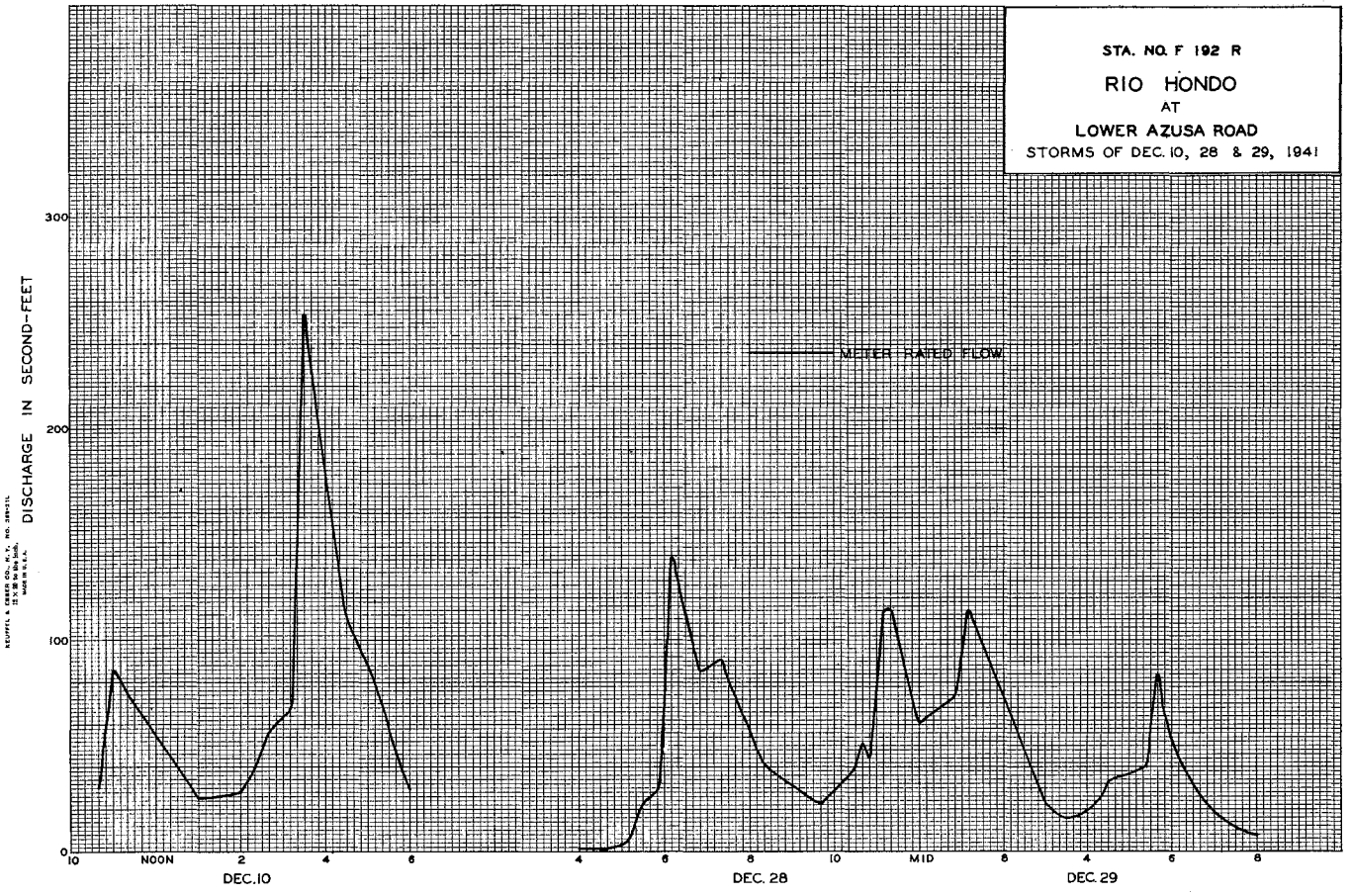
Sta. No F192-R

Daily discharge, in second-feet of RIO HONDO at Lower Azusa Road, for the year ending September 30, 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.6	1.2	1.1	3.4	0.9	0.7	1.0	0.4	0.4	0.3	0.2	0.3
2	2.6	1.2	1.1	2.2	0.9	0.6	1.0	0.4	0.4	0.3	0.3	0.3
3	2.4	1.4	5	1.4	0.9	0.9	1.2	0.3	0.4	0.3	0.3	0.3
4	2.6	1.4	1.4	1.1	0.9	1.0	3.5	0.3	0.4	0.3	0.3	0.3
5	2.6	1.4	1.2	1.0	0.9	1.2	0.4	0.3	0.4	0.3	0.3	0.2
6	2.6	1.4	1.2	0.8	0.9	1.6	0.5	0.2	0.4	0.3	0.3	0.2
7	2.6	1.4	1.2	0.6	1.0	1.7	0.4	0.2	0.4	0.3	0.3	0.2
8	2.4	1.4	1.2	0.6	1.0	1.2	0.4	0.3	0.4	0.3	0.3	0.2
9	2.3	1.4	1.2	0.6	1.0	1.1	0.4	0.3	0.4	0.3	0.4	0.2
10	2.2	1.4	31	0.6	0.9	1.1	1.7	0.4	0.4	0.3	0.5	0.2
11	1.8	1.6	2.0	0.6	0.9	1.2	2.0	0.4	0.5	0.3	0.2	0.2
12	2.3	1.6	1.7	0.7	1.0	0.4	1.0	0.5	0.5	0.3	0.2	0.2
13	1.7	1.6	1.6	0.7	1.0	0.4	0.9	0.6	0.4	0.4	0.2	0.2
14	1.7	1.6	1.6	0.7	1.0	15	1.0	0.4	0.4	0.4	0.3	0.2
15	1.6	1.4	1.4	0.7	1.0	1.2	0.5	0.3	0.4	0.4	0.3	0.2
16	1.4	1.2	1.2	0.7	1.0	0.6	0.6	0.2	0.4	0.5	0.3	0.2
17	1.4	1.1	1.2	0.8	1.0	0.6	1.6	0.2	0.3	0.4	0.2	0.2
18	1.4	1.0	1.2	0.9	1.0	0.6	0.4	0.3	0.3	0.4	0.2	0.2
19	1.4	0.9	1.2	0.9	1.0	0.6	0.5	0.3	0.3	0.3	0.2	0.2
20	1.5	0.9	1.2	0.9	1.0	0.6	0.6	0.3	0.2	0.3	0.2	0.2
21	1.8	1.0	1.2	0.9	4.1	0.6	8	0.4	0.2	0.2	0.3	0.2
22	2.1	1.1	1.2	1.0	2.8	0.5	132	0.4	0.2	0.2	0.3	0.2
23	1.7	1.0	8	1.0	0.4	0.4	214	0.4	0.2	0.2	0.2	0.2
24	1.4	1.0	1.1	1.0	0.4	0.4	174	0.4	0.3	0.2	0.3	0.2
25	1.2	1.0	3.4	1.0	0.4	0.4	91	0.4	0.3	0.2	0.3	0.2
26	1.4	1.1	2.0	1.0	0.5	0.4	0.9	0.4	0.3	0.2	0.3	0.2
27	1.7	1.1	1.0	0.9	0.6	0.4	0.3	0.4	0.3	0.2	0.3	0.2
28	1.4	1.1	18	0.9	0.6	0.5	0.3	0.4	0.3	0.2	0.3	0.2
29	1.4	1.1	18	0.9		0.5	0.4	0.4	0.3	0.2	0.3	0.2
30	1.2	1.1	3.6	0.9		0.7	0.4	0.4	0.3	0.2	0.3	0.1
31	1.2		1.7	0.9		0.8		0.5		0.2	0.3	
	57.6	37.1	1191	30.3	29.0	38.1	6411	11.1	10.4	8.9	8.7	6.3
MEAN	1.86	1.24	3.84	0.98	1.04	1.23	21.4	0.36	0.35	0.29	0.28	0.21
ACRE-FEET	114.	74.	236.	60.	58.	76.	1270.	22.	21.	18.	17.	12.

Remarks:

YEAR OR PERIOD MEAN 2.73 ACRE-FEET 1980.



STATION F64R

RIO HONDO above Mission Bridge

LOCATION:

On the right (west) bank approximately 1000 feet above Mission Bridge (San Gabriel Boulevard) and two miles northeast of Montebello. This supplements the station operated from 1923 to 1928 by the State Division of Water Rights at Mission Bridge.

DRAINAGE AREA:

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

CHANNEL AND CONTROL:

Channel-sand and silt.
No artificial control.

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed in July, 1928. Removed about 10 p.m. March 2, 1938. Reinstalled on March 6, at the temporary station F64B-R on Mission Bridge. Removed on March 26, 1938. Reinstalled at station F64R in a 48 inch diameter, corrugated iron pipe which serves both as a stilling well and house.
An Au continuous recorder was in service from October 1, 1941 to September 30, 1942.

REGULATION:

Flow partially regulated by Sierra Madre Dam, Big Santa Anita Dam, Sawpit Dam, San Gabriel Dam Nos. 1 and 2, Morris Dam, Las Flores and Rubio Debris Basins and Eaton Dam. Santa Fe Dam was under construction during this period, but no regulation was affected. Spreading flows during April were diverted to the Rio Hondo by a temporary levee above Santa Fe Dam.

DIVERSIONS:

The City of Pasadena diverts water from Eaton Creek and from the San Gabriel River.
The City of Monrovia diverts water from Monrovia Creek.
The City of Sierra Madre diverts water from Little Santa Anita Canyon.
There are also several diversions for irrigation and spreading grounds.

RECORDS AVAILABLE:

July, 1928 to September 30, 1942 (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:

1941-1942
Maximum 4100 second-feet, December 10.
Minimum 15 second-feet, various times in July.
1928-1942
Maximum 28000 second-feet, estimated, March 2, 1938.
Minimum 5.0 second-feet, October 15, 1931.

ACCURACY:

Fair.
Control shifts during high flows.

OPERATION:

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

REMARKS:

A previously published minimum flow is in error due to false record interpretation. Minimum flow shown is lowest actual measured flow.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F64-R

DISCHARGE MEASUREMENTS OF RIO HONDO

at above Mission Bridge DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
674	10-2	912A / 934A	Brewster	Two Channels			4.96	21.0		.6	10	0	FC 12
675	10-9	900A / 920A	Brewster-Laverty	" "			5.02	22.0		.6	12	0	"
676	10-16	915A / 935A	Brewster	" "			4.95	20.9		.6	11	0	"
677	10-23	635A / 656A	Haig-Mellen	99.0	89.7	2.29	5.55	203.		.6	12	+.01	FC 33
678	10-23	955A / 1015A	Brewster	100.0	51.4	1.46	5.27	75.1		.6	12	0	FC 12
679	10-30	915A / 935A	"	100.0	27.0	0.92	5.02	24.9		.6	12	0	"
680	11-6	900A / 918A	"	Two Channels			5.02	22.2		.6	10	0	"
681	11-13	930A / 950A	"	" "			5.00	23.0		.6	11	0	"
682	11-21	940A / 1002A	"	" "			5.02	27.1		.6	11	0	"
683	11-27	900A / 920A	"	" "			4.98	22.1		.6	10	0	"
684	12-3	1255P / 120P	Haig	104.0	197.	4.12	6.29	812.		.6	13	+.11	FC 33
685	12-4	920A / 940A	Brewster	Two Channels			5.03	26.1		.6	11	0	FC 12
686	12-10	1101A / 1113A	Wallace-Mellen	106.0	167.	6.00	6.44	1000.		.6	8	+.06 -.04	FC 28
687	12-10	255P / 314P	"	150.0	405.	9.01	7.92	3650.		.6	10	-.18	"
688	12-10	315P / 325P	"	162.0	462.	8.62	7.80	3980.		.6	9	-.09	"
689	12-10	640P / 705P	"	101.0	153.	2.11	6.25	322.		.6	9	-.15	"
690	12-11	930A / 950A	Brewster	27.0	27.5	1.39	5.03	38.2		.6	7	0	FC 12
691	12-18	925A / 937A	"	40.0	17.2	1.83	4.99	31.5		.6	7	0	"
692	12-26	1015A / 1030A	"	54.0	36.0	1.99	5.26	71.7		.6	7	0	"
693	12-28	245P / 258P	Haig	61.0	29.5	1.71	5.08	50.5		.6	12	+.02	FC 33
694	12-28	555P / 620P	Mellen	101.0	192.	3.93	6.52	755.		.6	10	+.01 -.08	FC 28
695	12-28	942P / 1012P	Haig-Mellen	128.0	346.	8.84	7.51	3060.		.6	12	+.28 -.32	FC 33
696	12-29	1010A / 1030A	Haig	101.0	120.	2.87	5.95	344.		.6	11	-.04	FC 28
697	12-30	107P / 126P	Mayer-Haig	104.0	118.	2.72	5.90	321.	.6 Surf.		12	+.02	FC 33
698	1-2	930A / 950A	Brewster	43.0	22.6	1.81	5.01	40.8		.6	7	0	FC 12
699	1-8	930A / 945A	"	51.0	19.5	1.82	4.98	35.5		.6	8	+.01	"
700	1-15	920A / 935A	"	55.0	22.3	1.45	4.96	32.3		.6	8	0	"
701	1-22	415A / 446A	Mellen-Mayer	104.0	79.1	1.72	5.45	136.		.6	18	+.01	FC 28
702	1-22	925A / 940A	Brewster	53.0	27.4	1.39	4.90	38.1		.6	7	0	FC 12
703	1-29	935A / 950A	"	55.0	18.4	1.54	4.86	28.3		.6	7	0	"
704	2-5	930A / 945A	"	55.0	21.4	1.31	4.90	28.0		.6	7	0	"
705	2-13	951A / 1007A	"	55.0	22.6	1.40	4.86	31.7		.6	8	0	"
706	2-19	935A / 950A	"	59.0	19.3	1.58	4.84	30.5		.6	7	0	"
707	2-22	1208A / 1240A	Mellen-Mayer	104.0	119.	1.98	5.72	236.		.6	12	-.13	FC 28
708	2-22	319P / 335P	Haig	65.0	34.9	1.40	5.02	48.7		.6	14	0	FC 33
709	2-26	927A / 945A	Brewster	75.0	22.4	1.39	4.90	31.2		.6	9	0	FC 12
710	3-5	905A / 920A	"	55.0	19.4	1.46	4.87	28.4		.6	7	0	"
711	3-12	910A / 930A	"	65.0	22.0	1.30	4.87	28.5		.6	9	0	"
712	3-14	445P / 500P	Mellen-Mayer	102.0	173.	6.08	6.31	1050.		.6	11	-.08	FC 28
713	3-14	935P / 952P	"	100.0	105.	2.68	5.75	282.		.6	10	+.29	"
714	3-15	530P / 542P	Haig	90.0	29.9	1.41	5.06	42.1		.6	11	0	FC 33
715	3-19	925A / 940A	Brewster	49.0	18.9	1.56	4.95	29.5		.6	8	0	FC 12
716	3-26	915A / 935A	"	53.0	19.2	1.52	4.89	29.2		.6	7	0	"
717	4-2	925A / 945A	"	39.0	16.8	1.54	4.82	25.9		.6	8	+.01	"
718	4-9	912A / 930A	"	61.0	19.6	1.41	4.85	27.6		.6	8	0	"
719	4-10	435P / 458P	Haig-Mayer	103.0	104.	2.48	5.60	258.		.6	13	+.20	FC 33
720	4-14	1115A / 1130A	Haig	103.0	152.	2.94	5.88	446.		.6	10	+.02	"
721	4-16	928A / 946A	Brewster	95.0	25.0	1.12	4.89	28.1		.6	11	0	FC 12
722	4-17	413A / 434A	Haig	102.0	152.2	3.33	6.05	507.		.6	10	+.05	FC 33
723	4-21	330P / 342P	"	98.0	29.9	1.41	4.95	42.1		.6	10	0	"
724	4-21	750P / 800P	"	100.0	101.	2.60	5.68	263.		.6	10	-.02	"
725	4-22	242P / 256P	"	102.0	100.	2.24	5.57	224.		.6	14	0	"
726	4-23	921A / 942A	Brewster	104.0	101.	2.03	5.56	205.		.6	12	0	FC 12
727	4-23	325P / 340P	Haig	101.0	96.3	2.24	5.60	215.		.6	13	0	FC 33
728	4-24	140P / 205P	"	100.0	92.6	2.45	5.62	226.		.6	16	0	"
729	4-25	938A / 958A	"	102.0	94.9	2.37	5.53	225.		.6	16	0	"
730	4-30	930A / 950A	Brewster	95.0	24.2	1.23	4.88	29.8		.6	11	0	FC 12
731	5-7	930A / 950A	"	85.0	23.6	1.11	4.84	26.3		.6	10	0	"
732	5-14	925A / 945A	"	84.0	23.4	1.21	4.82	28.4		.6	10	0	"
733	5-21	910A / 930A	"	84.0	22.2	1.13	4.80	25.0		.6	10	0	"
734	5-28	924A / 942A	"	89.0	22.8	1.07	4.82	24.3		.6	11	0	"
735	6-4	745A / 800A	"	58.0	19.2	1.25	4.80	24.0		.6	8	0	"
736	6-11	910A / 925A	"	49.0	18.7	1.28	4.76	24.0		.6	7	0	"
737	6-18	920A / 938A	"	Two Channels			4.77	22.8		.6	11	0	"
738	6-25	850A / 905A	"	63.0	18.2	1.23	4.78	22.4		.6	8	0	"
739	7-2	920A / 940A	"	Two Channels			4.77	22.7		.6	11	0	"
740	7-9	850A / 910A	"	" "			4.78	21.1		.6	10	0	"
741	7-16	905A / 925A	"	" "			4.75	17.4		.6	10	0	"
742	7-23	905A / 923A	"	" "			4.76	16.4		.6	7	0	"
743	7-30	905A / 925A	"	66.0	17.3	1.04	4.75	18.0		.6	9	0	"
744	8-6	845A / 900A	Brewster-Haig	Two Channels			4.75	17.7		.6	9	0	"
745	8-10	1120A / 1138A	Haig	70.5	25.6	1.33	4.89	34.1		.6	12	0	FC 33
746	8-13	835A / 850A	Haig	Two Channels			4.70	17.4		.6	13	0	FC 33
747	8-20	835A / 900A	"	" "			4.69	18.5		.6	17	0	"
748	8-27	910A / 925A	Brewster	" "			4.72	18.4		.6	8	0	FC 12
749	9-3	902A / 922A	"	" "			4.71	18.5		.6	10	0	"
750	9-10	905A / 925A	"	" "			4.71	17.4		.6	10	0	"
751	9-17	902A / 924A	"	" "			4.67	17.8		.6	10		"
752	9-24	920A / 940A	"	" "			4.71	18.1		.6	9		"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

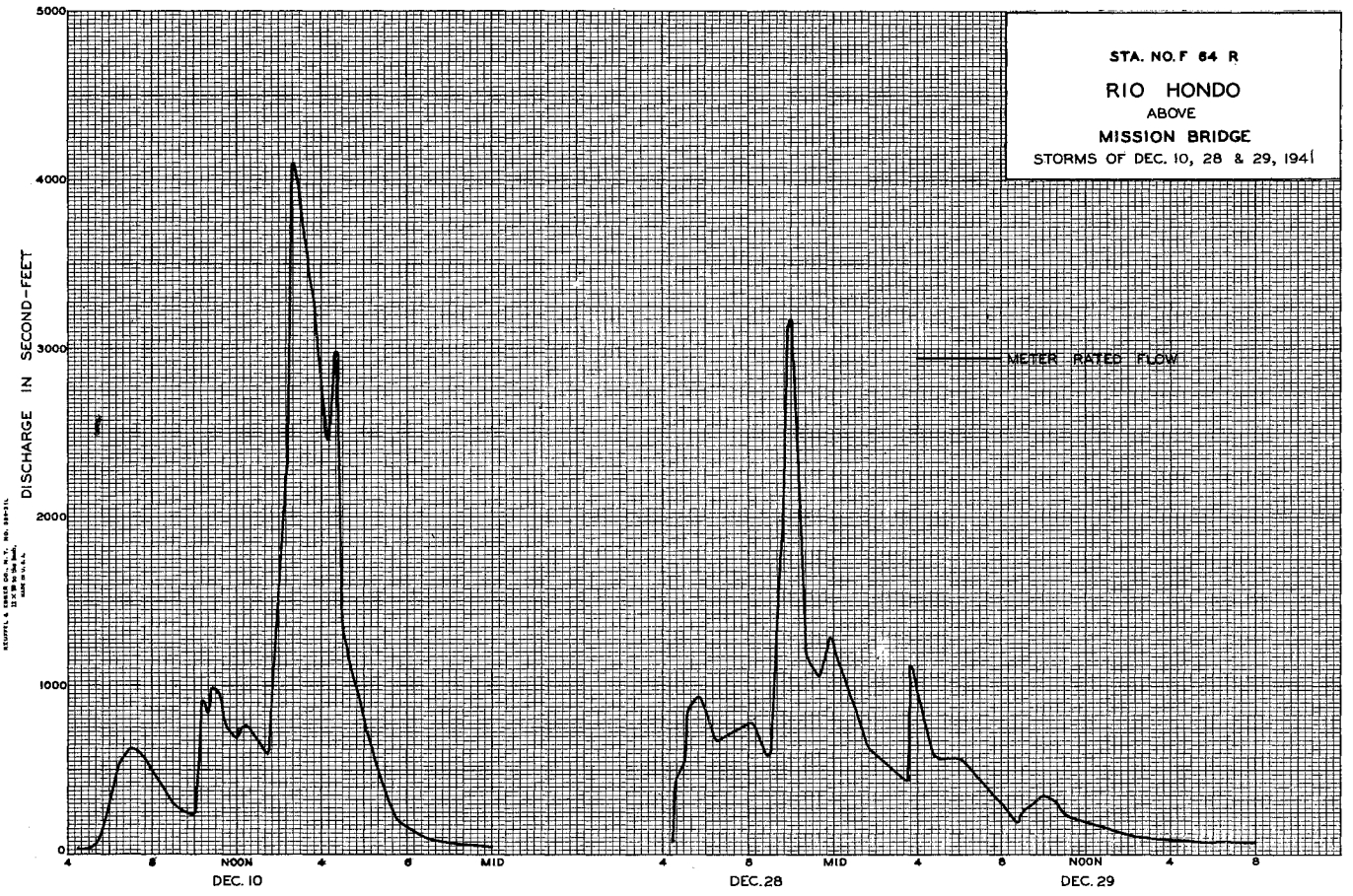
Sta. No. F64-R

Daily discharge, in second-feet of RIO HONDO above Mission Bridge, for the year ending September 30, 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	E 30	E 28	E 71	40	37	32	37	27	27	20	21
2	28	30	28	48	41	36	31	35	28	26	19	23
3	28	30	133	48	40	38	50	28	28	26	19	22
4	30	28	35	48	34	38	112	32	28	24	19	21
5	28	30	30	48	34	35	40	35	28	23	19	22
6	27	30	30	46	36	38	60	30	32	23	18	20
7	26	30	30	44	38	38	36	30	30	24	18	19
8	26	31	28	44	37	38	37	28	31	22	19	19
9	25	30	31	44	36	36	35	31	31	23	61	19
10	25	31	637	44	35	36	104	31	31	22	47	19
11	25	31	48	43	38	67	66	32	31	22	23	20
12	54	32	41	41	40	36	32	34	31	22	21	20
13	28	32	41	41	43	34	34	35	28	20	21	20
14	30	32	40	41	43	290	106	35	30	20	21	20
15	28	32	40	41	43	58	34	35	28	19	23	20
16	27	32	36	35	43	40	35	35	28	19	22	21
17	28	32	38	32	43	35	98	32	28	20	21	21
18	28	32	38	32	43	36	46	32	28	19	23	21
19	31	34	38	30	38	34	36	30	27	19	24	22
20	47	34	37	28	41	34	40	31	28	18	23	21
21	E 74	34	34	32	202	31	79	30	27	18	23	21
22	E 88	34	34	58	78	31	132	31	28	18	24	20
23	77	32	93	30	41	37	225	31	27	17	23	20
24	E 54	31	34	34	38	38	215	28	26	17	22	20
25	E 40	31	E 87	31	40	36	153	28	26	19	20	20
26	E 36	28	E 48	32	37	36	35	28	26	18	20	23
27	E 57	28	E 41	32	38	36	37	28	27	19	22	22
28	E 30	E 28	376	34	40	32	35	28	26	19	22	22
29	E 30	28	313	28		32	34	28	26	20	22	20
30	E 31	E 28	E 117	28		36	35	27	27	19	21	22
31	E 30		E 48	34		36		26		19	24	
	1146	925	2682	1222	1300	1415	2044	961	847	641	724	621
Mean	37.0	30.8	86.5	39.4	46.4	45.6	68.1	31.0	28.2	20.7	23.4	20.7
Acre-Feet	2270.	1830.	5320.	2420.	2580.	2810.	4050.	1910.	1680.	1270.	1440.	1230.

Remarks: E = estimated or interpolated.

Year or Period — Mean 39.8 — Acre-Feet 28810.



STATION F45R

RIO HONDO at Stewart and Gray Road

LOCATION:

On downstream side of highway bridge, ¼ mile upstream from junction of Rio Hondo and Los Angeles River and about 1½ miles west of Downey. This station is at or near the location of the station operated from 1923 to 1928 by the State Division of Water Rights.

DRAINAGE AREA:

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

CHANNEL AND CONTROL:

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

DISCHARGE MEASUREMENTS:

Low flows measured by wading near gage.
High flows measured from cable car 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, 1941 to September 30, 1942.

REGULATION:

Flow partially regulated by Sierra Madre Dam, Big Santa Anita Dam, Sawpit Dam, San Gabriel Dams Nos. 1 and 2, Morris Dam, Los Flores and Rubio Debris Basins, Eaton Dam, Santa Fe Dam was under construction during this period but no regulation was affected. Spreading flows during April were diverted to the Rio Hondo by a temporary levee above Santa Fe Dam.

DIVERSIONS:

The City of Pasadena diverts water from Eaton Creek and from the San Gabriel River. The City of Monrovia diverts water from Monrovia Creek. The City of Sierra Madre diverts water from Little Santa Anita Canyon.
There are also several diversions for irrigation and spreading.

RECORDS AVAILABLE:

March, 1928 to September 30, 1942. (For records prior to March, 1928 see State Division of Water Rights Bulletins.)

EXTREMES OF DISCHARGE:

1941-1942
Maximum 4240 second-feet, December 10.
Minimum no flow at various times.
1929-1942
Maximum 24400 second-feet, estimated, March 3, 1938.
Minimum no flow at various times.

ACCURACY:

Fair. Control shifts.
Flows occasionally estimated or interpolated due to loss of communication.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F45-R

DISCHARGE MEASUREMENTS OF RIO HONDO

AT Stewart and Gray Road DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
445	10-2	916A 937A	Mayer-Bonadiman	17.0	6.70	0.85	6.29	5.7		.6	7		FC 40
446	10-9	902A 913A	Bonadiman	17.0	8.71	0.92	6.25	8.0		.6	5		"
447	10-16	842A 855A	"	20.0	10.1	0.91	6.28	9.2		.6	5		FC 19
493	7-9	916A 919A	Bonadiman	3.0	0.68	0.53	5.67	0.36		.6	2		FC 19
494	7-16	927A 935A	"	18.0	7.36	1.14	5.86	8.4		.6	6		"
495	7-23	936A 943A	"	12.0	4.16	0.96	5.88	4.0		.6	5		"
496	7-30	917A 923A	"	13.0	5.79	0.74	5.91	4.3		.6	4	0	"
497	8-6	916A 922A	"	15.0	6.25	0.88	5.94	5.5		.6	5	0	"
498	8-13	915A 922A	"	16.0	5.15	0.74	5.91	3.6		.6	5	0	"
499	8-20	906A 916A	"	14.0	4.51	1.02	5.99	4.6		.6	5	0	"
500	8-27	913A 925A	Moon	Three Channels			6.01	3.6		.6	11	0	FC 22
501	9-3	920A 933A	"	"	"		5.99	4.2		.6	12	0	"
502	9-10	919A 925A	Bonadiman	9.0	2.85	0.70	5.89	2.0		.6	3	0	FC 19
503	9-17	922A 928A	"	11.0	5.18	1.08	6.02	5.6		.6	4	0	"
504	9-24	932A 939A	"	12.0	4.95	0.85	5.99	4.2		.6	4	0	"
448	10-22	127P 143P	Bonadiman-Walton	8.0	5.00	0.40	6.13	2.0		.6	4		"
449	11-6	848A 900A	Bonadiman	8.0	3.90	0.90	6.16	3.5		.6	3		"
450	11-13	912A 922A	"	10.0	3.24	0.65	6.10	2.1		.6	4		"
451	11-19	917A 922A	"	12.0	3.70	0.62	6.12	2.3		.6	4		"
452	11-27	854A 903A	"	10.0	4.56	0.61	6.12	2.8		.6	5		"
453	12-10	100P 125P	Koch-Andrews	152.0	172.	3.84	7.31	659.		.6	12		FC 43
454	12-10	630P 655P	"	156.0	279.	5.65	8.04	1570.		.6	12		"
455	12-11	217P 229P	Bonadiman-Walton	22.0	21.6	1.79	6.08	38.8		.6	8		FC 19
456	12-18	902A 912A	Bonadiman	12.0	4.70	0.81	5.63	3.8		.6	5		"
457	12-26	128A 142A	Walton-Bonadiman	109.0	88.9	2.81	6.76	250.		.6	8		"
458	12-26	112P 120P	Bonadiman-Walton	21.0	15.5	1.48	6.02	22.9		.6	7		"
459	12-28	718P 733P	Koch-Brown	27.0	16.0	1.69	6.00	27.0		.6	10		FC 43
460	12-28	833P 900P	"	Two Channels			7.10	680.		.6	14		"
461	12-28	1001P 1020P	"	152.0	172.	4.41	7.14	758.		.6	13		"
462	12-29	1221A 1238A	"	158.0	278.	6.15	7.96	1710.		.6	10		"
463	12-29	931A 955A	Walton-Bonadiman	145.0	114.	3.72	6.79	424.		.6	14		FC 19
464	12-30	612A 629A	"	Two Channels			6.48	98.2		.6	8		"
465	12-31	906A 920A	"	62.0	33.2	1.32	6.31	43.7		.6	9		"
466	1-8	820A 828A	Bonadiman	22.0	9.30	1.13	6.16	10.5		.6	5		"
467	1-15	837A 845A	"	2.0	0.20	0.60	5.86	0.12		.6	2		"
468	2-19	912A 920A	"	14.0	4.64	1.34	5.78	6.2		.6	5		"
469	2-21	802P 824P	Bonadiman	107.0	72.2	3.09	6.33	223.		.6	8		FC 19
470	2-22	910A 929A	Bonadiman-Walton	Two Channels			6.24	92.7		.6	12		"
471	2-26	957A 1006A	Bonadiman	19.0	5.90	1.29	5.79	7.6		.6	6		"
472	3-5	902A 912A	"	20.0	6.10	0.85	5.74	5.2		.6	7		"
473	3-11	147P 200P	"	30.0	20.4	1.79	6.02	36.5		.6	7		"
474	3-12	904A 912A	"	25.0	8.07	0.95	5.72	7.7		.6	6		"
475	3-14	656P 716P	Bonadiman-Walton	154.0	189.	5.78	7.18	1090.		.6	13		"
476	3-15	242P 255P	"	48.0	28.7	0.90	6.09	25.9		.6	10		"
477	3-19	345P 356P	Bonadiman	11.0	4.40	0.43	5.82	1.9		.6	4		"
478	4-4	817A 834A	"	108.0	85.6	2.08	6.50	178.		.6	9		"
479	4-9	917A 925A	"	11.0	3.55	0.62	5.85	2.2		.6	4		"
480	4-11	1052A 1119A	"	110.0	69.0	1.71	6.40	118.		.6	11		"
481	4-14	451P 509P	"	105.0	77.1	2.15	6.50	166.		.6	10		"
482	4-16	1002A 1012A	"	19.5	8.40	1.28	5.96	10.8		.6	6		"
483	4-30	933A 946A	"	36.0	15.7	0.96	6.04	15.0		.6	9		"
484	5-7	937A 944A	"	10.0	5.00	0.52	5.90	2.6		.6	4		"
485	5-14	907A 912A	"	8.0	4.16	0.41	5.84	1.7		.6	3		"
486	5-21	902A 910A	"	11.0	6.27	0.88	5.92	5.5		.6	4		"
487	5-28	906A 912A	"	13.0	4.95	0.61	5.88	3.0		.6	4		"
488	6-4	900A 905A	"	9.0	3.64	0.97	5.87	3.5		.6	3		"
489	6-11	917A 925A	"	6.0	2.10	0.52	5.77	1.1		.6	3		"
490	6-18	920A 925A	"	7.0	2.48	0.65	5.82	1.6		.6	3		"
491	6-25	917A 923A	"	16.0	5.90	0.65	5.78	3.8		.6	4		"
492	7-2	931A 944A	"	12.0	4.89	1.08	5.85	5.3		.6	4		"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

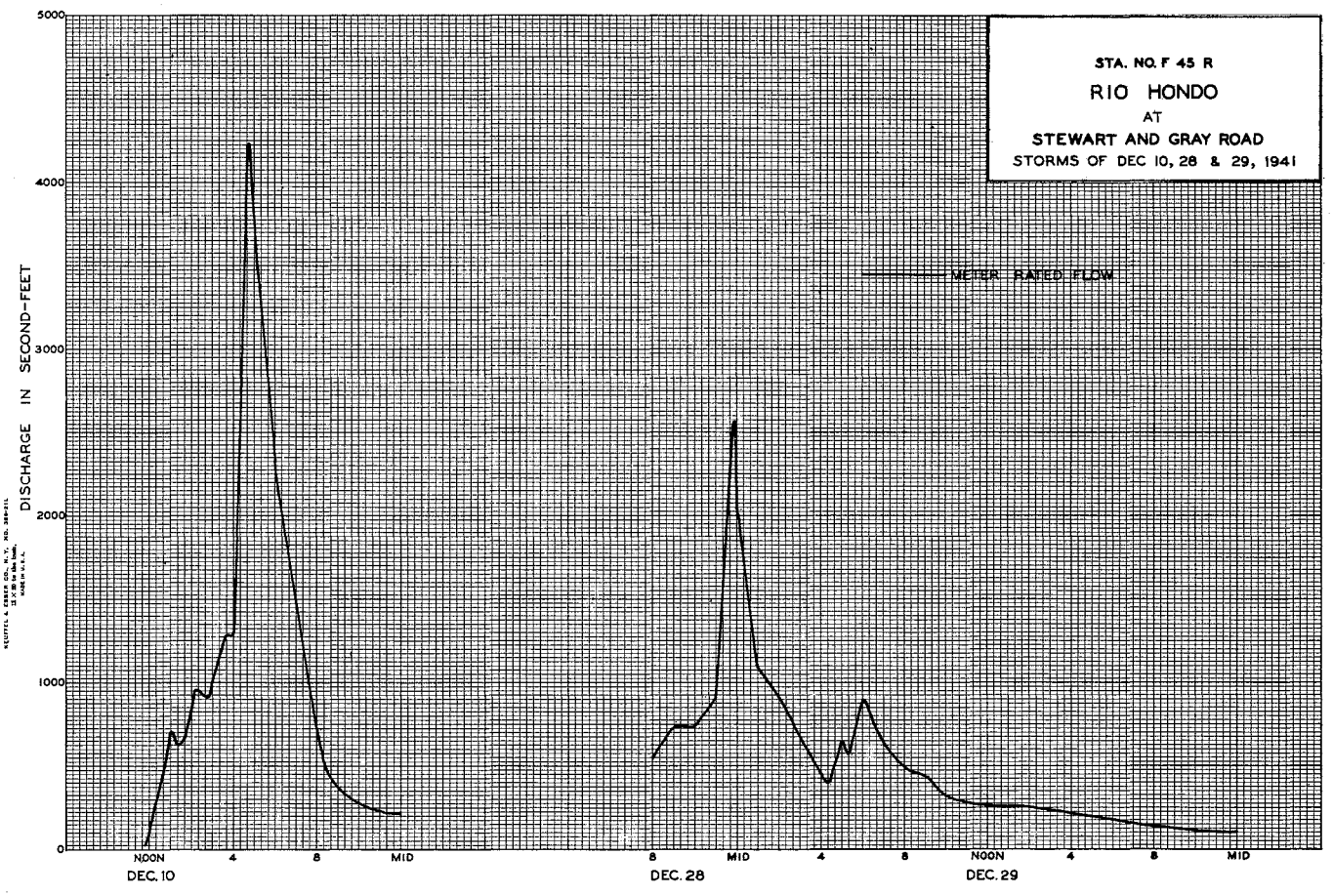
Sta. No. F45-R

Daily discharge, in second-feet of RIO HONDO at Stewart and Gray Road, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5	1.4	2.2	40	0	4.0	+	7	2.8	1.9	1.0	3.2
2	4.6	3.6	6.5	28	+	+	+	4.7	1.9	3.2	1.9	2.8
3	4.1	3.0	8	20	+	1.0	2.6	3.2	1.9	4.7	1.0	2.8
4	4.1	4.6	6	16	0	4.0	56	1.2	2.3	10	3.2	2.8
5	5	4.6	3.6	12	0	5.5	4.7	1.2	2.8	13	1.6	1.0
6	5.5	3.0	4.6	10	+	3.2	7.5	2.3	2.8	2.8	2.8	7
7	6.5	2.2	4.6	8.5	0	4.0	3.2	1.9	3.2	4.0	1.2	7
8	7	2.0	5	9	+	1.6	4.0	4.7	2.3	+	1.9	6
9	8.5	1.4	4.6	7	+	+	4.7	5.5	0.7	0.3	1.6	7.5
10	8.5	2.2	564	4.0	+	1.0	26	4.0	1.2	2.8		1.6
11	8.5	2.0	68	4.0	0	11	82	3.2	1.2	4.0	1.6	4.7
12	8	2.5	16	2.3	0	+	13	4.7	1.6	3.2	1.9	0.3
13	1.7	1.4	7	5.5	+	+	5.5	4.0	1.0	4.7	1.6	0.7
14	7	2.5	3.2	5.5	0	183	45	4.7	2.8	3.2	1.9	1.9
15	6.5	2.5	3.2	0.2	0	98	28	1.9	2.8	4.7	2.3	1.2
16	5.5	2.5	4.7	0.2	+	15	7	4.0	1.6	2.8	6	1.2
17	4.1	2.5	4.0	0.2	3.2	7	68	4.7	1.9	2.8	4.0	0.3
18	4.6	2.2	3.2	0.2	5.5	6	10	4.0	1.2	2.3	1.9	1.2
19	8.5	2.2	2.3	0.2	5.5	4.7	2.3	4.7	4.7	2.3	0.1	2.8
20	4.1	1.2	1.9	0.2	3.2	4.0	0	4.0	1.9	2.8	0.7	1.9
21	7	0.9	1.0	0.5	59	1.6	+	3.2	2.3	0.7	2.8	5.5
22	3.3	2.0	0.1	0.7	89	0.7	0	2.3	4.7	0.7	2.8	8.5
23	1.2	2.2	27	0.1	10	0	0	3.2	4.0	0.7	3.2	7.5
24	0.4	2.8	5.5	0.1	9.5	1.2	+	4.7	4.7	1.9	2.8	2.8
25	0.5	5	1.0	+	9	0.7	52	2.8	4.7	0.7	3.2	6
26	0	3.3	63	+	6	0	7	2.8	4.7	0.3	2.8	4.0
27	0.4	2.8	10	+	7	0	7.5	4.0	7	2.3	2.3	0.7
28	0	5	159	0	7.5	+	20	3.2	12	1.2	0.5	1.9
29	0	1.7	448	0		0	16	2.8	5.5	0.3	2.8	2.8
30	0	1.4	14	0		+	10	3.2	4.7	1.0	5.5	1.2
31	0		42	0		+		2.8		0.5	5.5	
	130.1	76.6	1493.2	174.4	214.4	357.2	482.0	110.6	96.9	85.8	72.4	98.8
Mean	4.20	2.55	48.2	5.63	7.66	11.5	16.1	3.57	3.23	2.77	2.34	3.29
Acre-Feet	258.	152.	2960.	346.	425.	708.	956.	219.	192.	170.	144.	196.

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

Year or Period — Mean 9.29 — Acre-Feet 6730.



STATION F83R

RIO HONDO SLOUGH at San Gabriel Boulevard

LOCATION:

On the upstream end of the right (west) abutment of the highway bridge, just east of the Rio Hondo, and about 2 miles northeast of Montebello.

DRAINAGE AREA:

About 6 square miles.
Flow originates almost entirely from rising water.

CHANNEL AND CONTROL:

Channel-sand, covered with weeds and brush; some cross fences which catch debris.
No artificial control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading approximately 400 feet below station.
High flows measured from highway bridge.

RECORDER:

Installed June 14, 1930, over an 18 inch diameter, corrugated iron pipe stilling well. Horizontal Rational 7 day recorder, in service October 1, 1941 to September 30, 1942.

REGULATION:

Some water pumped just downstream from bridge.

DIVERSIONS:

None.

RECORDS AVAILABLE:

Recorder records June 14, 1930 to September 30, 1942. Some weekly stream measurements were taken prior to installation of recorder.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 68 second-feet, December 10.
Minimum 20 second-feet, at various times.
1930-1942
Maximum not determined, March 2, 1938.
Minimum 4.8 second-feet, October 4, 1934.

ACCURACY:

Good for low or normal flows.
Poor for high flows.
Control conditions affected by unknown parties building obstructions in streambed.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F83-R

DISCHARGE MEASUREMENTS OF RIO HONDO SLOUGH

AT San Gabriel Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 1942

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
273	10-2	950A 1005A	Brewster	15.0	15.5	1.61	6.24	24.9		.6	8	0	FC 12
274	10-9	932A 950A	Brewster-Laverty	19.0	19.6	1.26	6.27	24.6		.6	10	0	"
275	10-16	945A 1000A	Brewster	15.0	16.7	1.52	6.25	25.4		.6	8	0	"
276	10-23	930A 945A	"	16.0	19.6	1.48	6.43	29.0		.6	8	0	"
277	10-30	945A 1000A	"	16.0	18.4	1.51	6.31	27.8		.6	8	0	"
278	11-6	945A 1000A	Brewster	17.0	18.8	1.43	6.28	26.8		.6	8	0	FC12
279	11-13	1000A 1015A	"	18.0	20.3	1.39	6.29	28.2		.6	9	0	"
280	11-21	1020A 1035A	"	16.0	17.2	1.56	6.28	26.8		.6	8	0	"
281	11-27	935A 950A	"	17.0	18.6	1.38	6.28	25.7		.6	9	0	"
282	12-4	950A 1005A	"	17.0	19.4	1.45	6.38	28.2		.6	8	-.01	"
283	12-11	1015A 1030A	"	16.0	21.6	1.54	6.56	33.3		.6	8	-.01	"
284	12-18	950A 1005A	"	16.0	18.0	1.57	6.29	28.2		.6	8	0	"
285	12-26	1040A 1055A	"	17.0	21.0	1.42	6.40	29.8		.6	8	0	"
286	1-2	1010A 1025A	"	17.0	19.6	1.46	6.40	28.6		.6	9	0	"
287	1-8	950A 1005A	"	17.0	18.6	1.49	6.30	27.7		.6	9	0	"
288	1-15	955A 1010A	"	18.0	19.0	1.46	6.40	27.7		.6	9	0	"
289	1-22	955A 1010A	"	18.0	19.6	1.49	6.37	29.3		.6	9	0	"
290	1-29	1005A 1020A	"	18.0	18.0	1.48	6.34	26.6		.6	9	0	"
291	2-5	1000A 1015A	"	18.0	19.2	1.46	6.33	28.1		.6	9	0	"
292	2-13	1030A 1045A	"	18.0	17.8	1.52	6.32	27.1		.6	9	0	"
293	2-19	1005A 1020A	"	18.0	17.8	1.51	6.30	26.9		.6	9	0	"
294	2-26	958A 1013A	"	17.0	18.2	1.49	6.36	27.1		.6	9	0	"
295	3-5	930A 945A	"	16.0	15.6	1.74	6.34	27.2		.6	8	0	"
296	3-12	945A 1000A	"	17.0	16.8	1.61	6.36	27.0		.6	9	0	"
297	3-19	1005A 1020A	Brewster	17.0	17.9	1.64	6.38	29.3		.6	9	0	FC 12
298	3-26	1010A 1025A	"	18.0	18.0	1.64	6.33	29.5		.6	9	0	"
299	4-2	1015A 1030A	"	18.0	17.4	1.55	6.33	27.0		.6	9	0	"
300	4-9	1000A 1020A	"	17.0	17.9	1.53	6.32	27.3		.6	9	0	"
301	4-16	1000A 1045A	"	18.0	20.0	1.53	6.39	30.6		.6	9	0	"
302	4-22	308P 318P	Haig	16.0	18.2	1.59	6.40	28.9		.6	7	0	FC 33
303	4-23	1005A 1020A	Brewster	18.0	20.2	1.50	6.41	30.2		.6	9	0	FC 12
304	4-24	222P 227P	Haig	16.5	19.0	1.46	6.38	27.8		.6	7	0	FC 33
305	4-25	1006A 1012A	"	16.5	18.9	1.46	6.38	27.6		.6	7	0	"
306	4-30	1045A 1100A	Brewster	18.0	20.0	1.46	6.35	29.1		.6	9	0	FC 12
307	5-7	1030A 1045A	"	18.0	19.0	1.51	6.32	28.7		.6	9	0	"
308	5-14	1030A 1045A	"	18.0	19.0	1.39	6.30	26.5		.6	9	0	"
309	5-21	1020A 1035A	"	18.0	18.2	1.38	6.28	25.2		.6	9	0	"
310	5-28	955A 1010A	"	17.0	20.0	1.26	6.34	25.2		.6	9	0	"
311	6-4	1015A 1030A	"	18.0	20.0	1.22	6.32	24.4		.6	9	0	"
312	6-11	1000A 1015A	"	17.0	20.0	1.24	6.34	24.7		.6	9	0	"
313	6-18	1020A 1035A	"	18.0	19.6	1.26	6.35	24.6		.6	9	0	"
314	6-25	1000A 1015A	"	18.0	20.0	1.19	6.33	23.8		.6	9	0	"
315	7-2	1030A 1045A	"	18.0	20.2	1.16	6.32	23.5		.6	9	0	"
316	7-9	920A 935A	"	18.0	19.2	1.11	6.30	21.4		.6	9	0	"
317	7-16	940A 955A	"	18.0	19.4	1.11	6.28	21.6		.6	9	0	"
318	7-23	935A 950A	"	18.0	20.4	1.05	6.31	21.4		.6	9	0	"
319	7-30	935A 950A	"	18.0	19.7	1.09	6.36	21.4		.6	9	0	"
320	8-6	910A 923A	Brewster-Haig	18.0	19.6	1.09	6.28	21.3		.6	9	0	"
321	8-13	900A 915A	Haig	16.5	18.0	1.19	6.28	21.5		.6	8	0	FC 33
322	8-20	907A 915A	"	16.5	18.0	1.17	6.26	21.1		.6	10	0	"
323	8-27	945A 1000A	Brewster	18.0	18.0	1.21	6.27	21.8		.6	9	0	FC 12
324	9-3	935A 950A	"	18.0	19.0	1.16	6.27	22.1		.6	9	0	"
325	9-10	940A 955A	"	18.0	18.2	1.19	6.25	21.6		.6	9	0	"
326	9-17	940A 955A	"	18.0	18.6	1.14	6.27	21.2		.6	9	0	"
327	9-24	948A 1006A	"	18.0	17.6	1.20	6.25	21.1		.6	9	0	"

F.C. Dist. Form 52 3-41

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, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	25	28	26	30	28	27	27	29	24	24	21	21
2	25	23	26	28	28	27	27	29	24	24	21	21
3	24	28	29	28	28	27	27	29	24	23	22	21
4	25	27	28	28	28	27	31	29	24	23	21	21
5	25	27	26	29	28	27	30	29	24	22	21	21
6	24	27	26	28	28	27	30	29	24	22	21	21
7	24	27	26	28	28	27	30	29	25	21	21	21
8	24	27	26	28	28	26	29	29	24	21	21	21
9	24	28	27	28	28	26	27	28	24	21	21	22
10	24	28	43	28	28	26	29	28	24	21	22	21
11	24	28	34	28	28	27	33	28	25	21	21	22
12	25	29	28	28	28	27	30	28	25	21	21	21
13	26	28	27	28	27	27	30	26	25	21	21	22
14	26	28	27	28	27	32	32	26	25	22	21	21
15	26	28	27	27	27	35	32	26	25	22	21	21
16	26	28	28	26	27	31	30	26	24	22	21	21
17	26	23	28	27	27	30	32	26	24	22	21	21
18	26	27	28	28	27	29	30	26	24	22	21	21
19	26	27	28	28	27	29	30	26	25	22	21	21
20	27	27	27	28	27	29	28	25	25	22	21	21
21	28	27	27	23	29	29	28	25	25	22	21	21
22	30	27	26	29	33	29	29	25	25	22	21	21
23	28	26	27	29	29	29	30	25	24	21	21	21
24	28	27	27	29	28	29	28	26	24	21	21	21
25	27	26	27	28	28	30	27	26	24	20	21	21
26	27	26	29	28	27	29	28	26	24	20	21	21
27	28	26	28	28	27	29	28	25	24	21	21	21
28	28	26	36	27	27	28	28	25	24	21	21	22
29	28	26	41	26		28	28	24	24	21	21	22
30	28	26	37	26		29	29	24	23	21	21	22
31	28		32	27		28		24		21	21	
	810	816	902	864	780	879	877	826	729	670	653	636
Mean	26.1	27.2	29.1	27.9	27.9	28.4	29.2	26.6	24.3	21.6	21.1	21.2
Acre-Feet	1610.	1620.	1790.	1710.	1550.	1740.	1740.	1640.	1450.	1330.	1300.	1260.

Remarks:

Year or Period — Mean 25.9 — Acre-Feet 18740.

STATION F82C-R

RUBIO WASH at Glendon Way

LOCATION:

On the left (east) side of channel 10 feet south of the westerly extension of Glendon Way, Rosemead.

DRAINAGE AREA:

13.4 square miles.

CHANNEL AND CONTROL:

Channel-rectangular concrete 48.1 ft. wide x 10.5 ft. deep to bottom of 0.5 ft invert with 0.5 ft. fillets at vertical side walls.

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed November 6, 1936, over a 4 ft x 3 ft concrete well.
An H.C.F. continuous recorder was in service from October 1, 1941 to September 30, 1942.

REGULATION:

Flow partially regulated by Los Flores and Rubio Debris Basins.

DIVERSIONS:

None.

RECORDS AVAILABLE:

November 6, 1936 to September 30, 1942.
For previous records on Rubio Wash see Stations F82R, F107R, F82B-R in previous reports.

ACCURACY:

Good.

OPERATION:

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

EXTREMES OF DISCHARGE:

1941-1942
Maximum 1200 second-feet, December 10.
Minimum no flow at various times.
1930-1942 (Stations F82R, F107R, F82B-R and F82C-R)
Maximum 2400 second-feet, estimated, March 2, 1938
Minimum no flow at times each year.

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

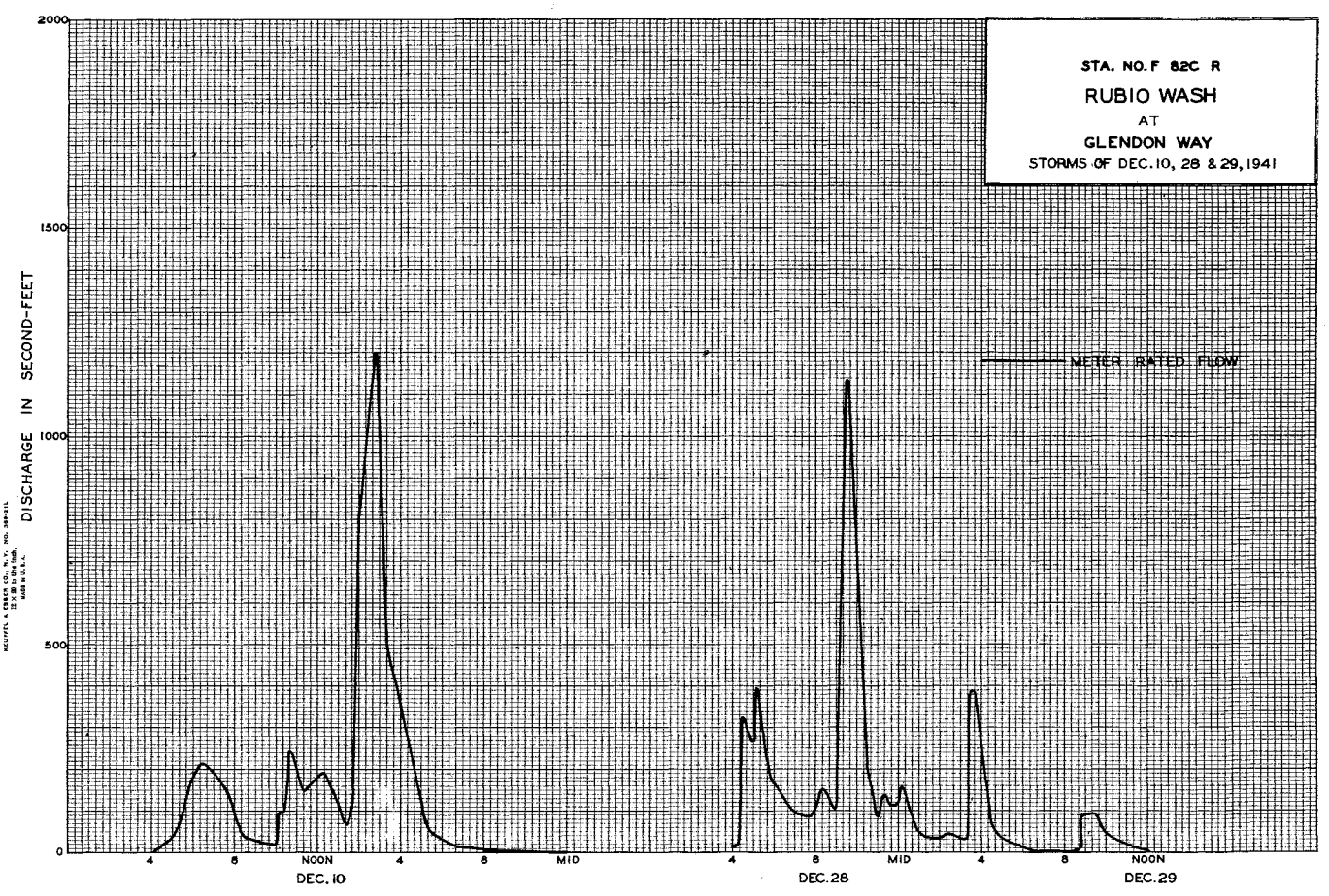
Sta. No. F826-R

Daily discharge, in second-feet of RUBIO WASH at Glendon Way, for the year ending September 30, 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	+	10	0	0	0.2	0	+	+	+	0
2	0	0.4	0	0.1	0	0	0.2	0.2	+	+	+	0
3	0	0.1	24	0.1	0	1.4	10	0	+	+	+	+
4	0	0	+	0.1	0	+	23	+	+	+	+	+
5	0	0.4	0	0.1	0.9	+	0.2	+	+	+	+	+
6	0	0.1	0		0.2	2.7	14	0.1	+	+	+	0
7	0	0.3	0	0	0.1	4.2	0.2	0.1	+	+	+	0
8	0	0.1	0	0	+	3.6	0.4	0.1	+	+	+	0
9	0	0	2.2	0	0	4.4	0.4	0.1	+	+	E 11	0
10	0	0	130	0	0	0.2	25	+	+	+	8	0
11	0	5	0.1	+	0	16	12	0	+	+	+	0
12	19	3.7	+	0	+	0.7	0.2	+	+	+	0.1	+
13	5	0.2	+	0	0.1	0.1	+	0.2	+	+	0.1	+
14	0.3	+	0	0	0.1	62	15	0.3	+	+	0.1	0
15	0.1	0	0	0	0.1	2.9	0.1	E 0.2	+	+	+	0
16	0.1	0	+	+	+	0.1	0.1	0.2	+	+	+	0
17	0.1	0	0	0.1	0	+	17	0.2	+	+	+	0
18	0.2	0	0	0.1	0.4	+	0.2	0.2	+	+	+	+
19	3.8	0	0	+	0.9	0	0.1	0.2	+	+	+	+
20	7.5	0	0	0	1.2	0	0.1	0.2	+	+	+	+
21	14	0	0	0	47	0	17	0.2	+	+	0	+
22	10	0	+	6	9	0	0.4	0.1	+	+	+	0.1
23	13	0	16	0.2	0	0	0.1	0.1	+	+	0	+
24	0.2	0	+	0.1	0	2.1	+	0.1	+	+	+	0
25	+	0	21	0.1	0.1		0	0.1	+	+	+	0
26	0	0	4.0	0.1	0.5	0	0	0.1	+	+	+	0
27	E 8.5	0	+	0.2	2.0	+	0	0.1	+	+	0	+
28	0	0	85	0.1	1.2	+	1.6	0.1	+	+	+	+
29	0	0.5	32	+		0	0.1	0.1	+	+	+	0
30	0	0.4	21	0		0.2	+	0.1	+	+	+	+
31	0		0.1	0		0.3		E 0.1		+	0	
	81.8	11.2	335.4	17.4	63.8	100.9	137.6	3.5	+	+	19.3	0.1
Mean	2.64	0.37	10.8	0.56	2.28	3.25	4.59	0.11	+	+	0.62	+
Acre-Feet	162.	22.	665.	35.	127.	200.	273.	6.9	+	+	38.	+

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

Year or Period — Mean 2.11 — Acre-Feet 1530.



STATION F151R

SAN ANTONIO CREEK at Mouth of Canyon

LOCATION:

On the right (west) bank, upstream from all headgates of Pomona Valley Protective Association spreading grounds and about 4 miles northeast of Claremont.

DRAINAGE AREA:

28.0 square miles.

CHANNEL AND CONTROL:

Channel-gravel and boulders.
No artificial control.

DISCHARGE MEASUREMENTS:

Flows up to 300 second-feet measured by wading.
No facilities for measuring higher flows.

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.
An H.C.F. continuous recorder was in service from October 1, 1941 to September 30, 1942.

REGULATION:

None.

DIVERSIONS:

Two diversions for irrigation.

RECORDS AVAILABLE:

February 20, 1931 to September 30, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 31 second-feet, December 10.
Minimum no flow for several months.
1930-1942
Maximum 23400 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 7-41

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 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
343	12-10	545P 600P	Brewster	20.0	9.20	3.13	8.86	28.8		.6	5	-.03	FC 12
344	12-29	110P 120P	"	5.0	2.66	1.43	8.14	3.8		.6	5	-.01	"
345	12-30	940A 950A	"	4.0	1.80	1.11	8.00	2.0		.6	4	+.02	"
346	12-31	112P 120P	"	4.0	1.76	1.08	7.89	1.9		.6	4	0	"
347	1-14	432P 444P	"	22.0	7.50	1.35	8.55	10.1		.6	5	0	"
348	2-22	924A 930A	"	8.0	2.28	0.75	7.88	1.7		.6	4	-.01	"
349	3-14	758P 805P	Brewster-Smith	4.0	2.60	0.62	7.88	1.6		.6	4	-.01	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

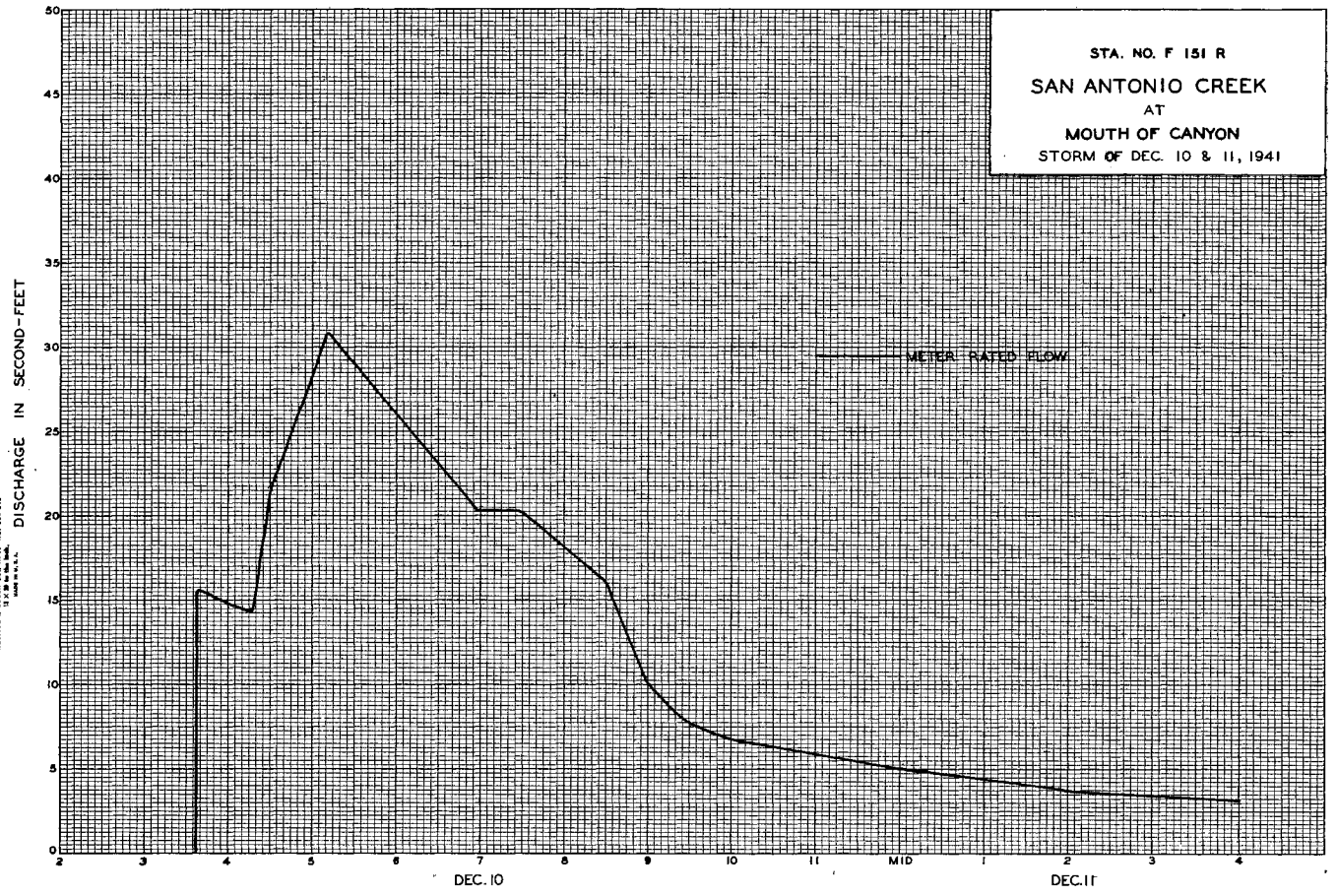
Sta. No F151-R

Daily discharge, in second-feet of SAN ANTONIO CREEK at Mouth of Canyon, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	1.8	0	0	0	0	0	0	0	0
2	0	0	0	0.6	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	5.5	0	0	0	0	0	0	0	0	0
11	0	0	1.3	0	0	0	0	0	0	0	0	0
12	0	0	0	1.2	0	0	0	0	0	0	0	0
13	0	0	0	6.5	0	0	0	0	0	0	0	0
14	0	0	0	10	0	0.5	0	0	0	0	0	0
15	0	0	0	6	0	0.4	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	0.2	0	0	0	0	0	0	0
22	0	0	0	0	1.2	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	2.1	0		0	0	0	0	0	0	0
30	0	0	2.0	0		0	0	0	0	0	0	0
31	0		2.2	0		0		0		0	0	
	0	0	13.1	26.3	1.4	0.9	0	0	0	0	0	0
Mean	0	0	0.42	0.85	0.05	0.03	0	0	0	0	0	0
Acre-Feet	0	0	26.	52.	2.8	1.8	0	0	0	0	0	0

Remarks:

Year or Period Mean 0.11
Acre-Feet 83.



STATION F209R

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

LOCATION:

On the left (northeast) bank of the West Fork of the San Gabriel River about 7 miles above junction of the East and West Forks and ½ mile below San Gabriel Dam No. 2.

DRAINAGE AREA:

41.0 square miles.

CHANNEL AND CONTROL:

Channel-sand, gravel and boulders.
Control-concrete with a 12 inch x 12 foot Cipolletti weir containing a smaller 6 inch x 48 inch Cipolletti notch in the center constructed about 35 feet below the station in June, 1940.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from cable car 6 feet below station.

RECORDER:

Installed December 8, 1933. Washed out in the March 2, 1938 storm.
Reinstalled March 10, 1938 in a temporary house over the damaged stilling well. Removed May 30, 1938. Installed July 8, 1938 in a concrete house over a 4 ft. x 4 ft. concrete well in the same location as the old well.
An Au continuous recorder was in service from October 1, 1941 to September 30, 1942.

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, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 90 second-feet, November 1.
Minimum 1.0 second-feet, August 26.
1933-1942
Maximum 25000 second-feet, estimated March 2, 1938.
Minimum + several 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 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F209-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - WEST FORK

AT below San Gabriel Dam # 2 DURING THE YEAR ENDING SEPTEMBER 30, 1942

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1117	10-2	930A 945A	Godfrey	13.5	12.8	0.65	3.19	8.3		.6	7	0	FC 20
1118	10-6	750A 800A	"	13.5	12.3	0.61	3.15	7.5		.6	7	0	"
1119	10-6	933A 955A	"	14.5	17.0	1.18	3.54	20.2		.6	14	0	"
1120	10-6	1119A 1139A	"	15.5	18.8	1.27	3.60	23.9		.6	15	0	"
1121	10-6	104P 128P	"	15.7	19.6	1.43	3.68	28.1		.6	16	+.01	"
1122	10-6	249P 310P	"	17.7	23.8	1.76	3.94	42.1		.6	15	0	"
1123	10-7	548A 603A	"	17.7	23.4	1.63	3.92	38.2		.6	15	0	"
1124	10-7	851A 916A	"	30.0	30.9	2.45	4.36	75.6		.6	14	0	"
1125	10-8	834A 856A	"	13.5	33.8	2.56		86.2		.6	14	0	"
1126	10-9	547A 600A	"	13.5	31.7	2.43	4.30	77.2		.6	8	0	"
1127	10-9	729A 754A	"	18.5	24.3	1.69	3.94	41.4		.6	16	0	"
1128	10-10	849A 910A	"	18.5	24.5	1.69	3.92	41.3		.6	16	0	"
1129	10-11	951A 1012A	"	18.5	24.3	1.54	3.90	38.2		.6	16	0	"
1130	10-12	924A 944A	"	18.7	24.3	1.53	3.88	37.1		.6	16	0	"
1131	10-16	1120A 1133A	"	14.0	11.0	0.34	3.02	3.8		.6	6	0	"
1132	10-19	1014A 1026A	"	14.0	10.3	0.36	2.97	3.7		.6	6	0	"
1133	10-23	939A 954A	"	13.8	10.7	0.27	2.94	2.9		.6	8	0	"
1134	10-26	906A 916A	"	13.8	10.6	0.24	2.93	2.5		.6	8	0	"
1135	10-28	940A 952A	"	13.8	10.6	0.27	2.90	2.8		.6	8	0	"
1136	10-28	1127A 1148A	"	16.0	21.3	1.40	3.74	29.8		.6	15	0	"
1137	10-29	945A 958A	"	16.0	21.8	1.43	3.74	31.2		.6	9	0	"
1138	10-30	900A 915A	"	16.2	21.9	1.43	3.73	31.3		.6	9	0	"
1139	10-31	151P 204P	"	16.0	21.4	1.32	3.71	28.2		.6	9	0	"
1140	10-31	312P 326P	Godfrey-Oliver	18.0	25.9	1.75	4.01	45.4		.6	8	+.01	"
1141	10-31	435P 450P	Godfrey-Oliver	19.0	29.6	2.04	4.21	60.4		.6	8	+.02	FC 20
1142	11-1	1034A 1045A	Godfrey	19.0	29.8	1.99	4.22	59.2		.6	8	0	"
1143	11-1	1233P 1245P	"	19.0	30.3	2.20	4.27	66.5		.6	8	0	"
1144	11-1	340P 353P	"	29.5	57.6	1.56	4.44	89.7		.6	7	+.01	"
1145	11-2	950A 1005A	"	29.5	56.1	1.35	4.40	75.8		.6	7	0	"
1146	11-3	1000A 1020A	Oliver	31.0	50.7	1.46	4.35	73.9		.6	7	0	"
1147	11-4	915A 935A	"	29.0	48.7	1.47	4.28	71.8		.6	7	0	"
1148	11-4	235P 255P	"	28.0	34.0	0.98	3.72	33.4		.6	7	0	"
1149	11-5	652A 715A	"	30.0	47.3	1.40		66.5		.6	7	0	"
1150	11-5	100P 116P	Godfrey	20.0	29.0	1.84	4.14	53.3		.6	9	0	"
1151	11-5	255P 313P	"	21.0	31.7	1.98	4.27	62.9		.6	9	0	"
1152	11-6	856A 911A	"	21.0	30.6	1.91	4.21	58.4		.6	10	0	"
1153	11-6	251P 304P	"	14.0	16.0	0.78	3.33	12.4		.6	7	-.02	"
1154	11-7	1100A 1125A	Godfrey-Oliver	14.0	14.5	0.64	3.25	9.4		.6	14	0	"
1155	11-9	1011A 1025A	Godfrey	13.6	14.2	0.64	3.23	9.1		.6	8	0	"
1156	11-10	945A 1001A	Oliver	12.9	12.6	0.67	3.21	8.5		.6	7	0	"
1157	11-11	950A 1006A	"	13.0	12.8	0.59	3.20	7.6		.6	8	0	"
1158	11-13	947A 959A	Godfrey	13.5	12.8	0.61	3.20	7.8		.6	7	0	"
1159	11-14	1114A 1126A	"	13.5	12.8	0.57	3.18	7.3		.6	7	0	"
1160	11-15	939A 950A	"	13.5	12.7	0.58	3.18	7.4		.6	7	0	"
1161	11-16	1012A 1025A	"	13.5	12.8	0.52	3.16	6.7		.6	7	0	"
1162	11-19	1056A 1109A	"	13.5	12.6	0.48	3.13	6.0		.6	8	0	"
1163	11-20	1054A 1104A	"	14.0	14.9	0.81	3.33	12.0		.6	7	-.02	"
1164	11-21	146P 200P	"	14.0	15.1	0.74	3.30	11.2		.6	7	0	"
1165	11-23	1105A 1125A	Godfrey	13.7	13.9	0.65	3.24	9.1		.6	7	0	FC 20
1166	11-26	920A 937A	Oliver	13.0	11.4	0.43	3.06	5.0		.6	8	0	"
1167	11-30	1116A 1125A	Godfrey	4.5	1.47	0.71	2.73	1.0		.6	5	0	"
1168	12-3	910A 920A	"	3.8	1.26	0.82	2.74	1.0		.6	7	0	"
1169	12-7	1106A 1118A	"	4.3	1.60	0.89	2.76	1.4		.6	7	0	"
1170	12-8	130P 145P	Oliver	13.0	13.4	0.66	3.20	9.0		.6	7	0	"
1171	12-10	136P 149P	Godfrey	14.0	13.9	0.71	3.26	9.9		.6	7	+.03	"
1172	12-11	145P 157P	"	13.4	13.1	0.57	3.18	7.4		.6	7	0	"
1173	12-12	1205P 1220P	"	15.0	17.3	0.94	3.42	16.2		.6	8	0	"
1174	12-13	337P 347P	"	15.0	15.9	0.87	3.38	13.8		.6	8	0	"
1175	12-14	1120A 1132A	"	14.5	15.3	0.78	3.34	12.0		.6	8	0	"
1176	12-17	1041A 1055A	"	13.5	15.1	0.74	3.30	11.2		.6	8	0	"
1177	12-19	314P 332P	"	13.9	14.6	0.65	3.24	9.6		.6	8	0	"
1178	12-21	947A 1003A	"	14.0	14.7	0.61	3.24	9.0		.6	8	0	"
1179	12-23	920A 936A	"	14.5	11.4	1.37	3.40	15.6		.6	8	0	"
1180	12-26	1135A 1147A	"	14.5	11.4	1.35	3.38	15.4		.6	8	0	"
1181	12-28	1124A 1137A	"	14.3	11.4	1.29	3.36	14.7		.6	8	0	"
1182	12-29	1200N 1220P	Oliver	15.0	11.4	1.32	3.42	15.2		.6	8	0	"
1183	12-31	916A 930A	Brown	15.2	12.6	1.43	3.43	18.0		.6	9	0	FC 32
1184	1-2	1158A 1211P	Godfrey	15.0	12.3	1.37	3.42	16.9		.6	8	0	FC 20
1185	1-5	150P 200P	Brown-Oliver	15.0	12.2	1.54	3.42	18.8		.6	9	0	FC 32
1186	1-8	1248P 105P	Oliver-Brown	17.8	11.4	1.44	3.39	16.4		.6	11	0	FC 20
1187	1-12	945A 1002A	"	19.0	10.2	1.65	3.38	16.8		.6	10	0	FC 32
1188	1-14	928A 945A	"	19.5	10.0	1.71	3.37	17.1		.6	10	0	"
1189	1-14	1204P 1220P	Oliver-Brown	20.5	11.6	1.60	3.44	18.5		.6	10	0	FC 32
1190	1-15	1035A 1047A	Brown-Oliver	20.5	11.6	1.62	3.44	18.8		.6	10	0	"
1191	1-16	329P 340P	Godfrey	20.0	10.5	1.47	3.42	15.5		.6	9	0	FC 20
1192	1-16	353P 405P	"	20.0	10.4	1.50	3.40	15.6		.6	9	0	"
1193	1-19	107P 122P	Oliver-Brown	19.6	10.5	1.62	3.39	17.0		.6	10	0	FC 32
1194	1-19	137P 148P	Brown-Oliver	19.6	10.6	1.58	3.39	16.8		.6	10	0	"
1195	1-22	1046A 1056A	"	19.0	9.95	1.61	3.36	16.0		.6	10	0	"
1196	1-26	857A 908A	"	19.0	9.59	1.55	3.35	14.9		.6	10	0	"
1197	1-29	1003A 1015A	"	19.0	9.76	1.64	3.34	16.0		.6	10	0	"
1198	2-2	910A 926A	Oliver-Brown	18.7	9.56	1.55	3.34	14.8		.6	10	0	"
1199	2-5	1000A 1015A	Oliver-Godfrey	18.7	9.83	1.59	3.33	15.6		.6	10	0	FC 20
1200	2-9	927A 940A	Brown	18.3	8.84	1.35	3.30	13.6		.6	10	0	FC 32
1201	2-12	1125A 1140A	Godfrey	18.0	8.82	1.34	3.30	11.8		.6	9	0	FC 20
1202	2-16	150P 205P	Oliver-Brown	17.9	8.89	1.46	3.28	13.0		.6	10	0	FC 32
1203	2-19	150P 203P	Godfrey-Oliver	17.2	8.14	1.35	3.27	11.0		.6	9	0	FC 20
1204	2-22	1040A 1055A	Godfrey	18.0	8.47	1.30	3.28	11.0		.6	9	0	"
1205	2-26	155P 208P	"	18.0	9.03	1.32	3.28	11.9		.6	9	0	"
1206	3-2	904A 918A	Brown	17.9	9.19	1.33	3.27	12.2		.6	10	0	FC 32
1207	3-5	1059A 1112A	Godfrey	17.7	9.01	1.31	3.27	11.8		.6	9	0	FC 20
1208	3-9	849A 959A	Brown	17.5	9.03	1.41	3.26	12.7		.6	9	0	FC 32
1209	3-12	950A 1006A	Godfrey	18.0	8.73	1.19	3.26	10.4		.6	9	0	FC 20
1210	3-16	957A 1007A	Brown	17.5	8.86	1.31	3.25	11.6		.6	9	0	FC 32
1211	3-19	942A 957A	Godfrey	18.0	8.82	1.28	3.26	11.3		.6	9	0	FC 20
1212	3-23	955A 1005A	Brown-Whisler	18.0	9.49	1.37	3.26	13.0		.6	9	0	FC 32

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F209-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - WEST FORK

at below San Gabriel Dam # 2 DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1213	3-26	1010A 1025A	Godfrey	18.0	9.45	1.11	3.26	10.5		.6	9	0	FC 20
1214	3-30	924A 942A	Brown-Whisler	18.8	9.64	1.16	3.26	11.2		.6	14	0	FC 32
1215	4-2	134P 153P	Godfrey	18.5	10.3	1.04	3.26	10.7		.6	9	0	FC 20
1216	4-6	950A 1002A	Brown	19.3	10.8	1.01	3.26	10.9		.6	9	0	FC 32
1217	4-9	1005A 1025A	Godfrey	19.5	10.9	0.94	3.26	10.3		.6	9	0	FC 20
1218	4-12	1127A 1180A	Whisler-Godfrey	20.0	10.6	0.91	3.25	9.6		.6	10	0	"
1219	4-16	1008A 1027A	Godfrey	20.0	11.0	0.82	3.25	9.0		.6	9	0	"
1220	4-19	940A 1000A	Whisler-Godfrey	19.0	9.90	0.93	3.24	9.2		.6	10	0	"
1221	4-23	942A 1001A	Godfrey	18.7	9.12	0.99	3.23	9.0		.6	9	0	"
1222	4-26	227P 238P	Godfrey-Whisler	18.2	8.66	1.04	3.23	9.0		.6	9	0	"
1223	4-30	1042A 1100A	Godfrey	18.2	8.51	1.03	3.23	8.8		.6	9	0	"
1224	5-3	1158A 1213P	"	18.2	8.19	1.02	3.22	8.4		.6	9	0	"
1225	5-7	1101A 1113A	"	18.0	8.28	1.05	3.22	8.7		.6	9	0	"
1226	5-10	1130A 1143A	"	18.0	8.16	1.03	3.20	8.4		.6	9	0	"
1227	5-14	825A 845A	"	20.2	11.5	1.23	3.34	14.2		.6	10	0	"
1228	5-14	211P 225P	"	19.0	10.2	1.14	3.31	11.6		.6	10	0	"
1229	5-15	947A 1001A	"	19.0	10.1	1.25	3.31	12.6		.6	10	0	"
1230	5-15	1233P 1247P	"	18.6	8.95	1.09	3.25	9.8		.6	9	0	"
1231	5-17	1115A 1132A	"	18.0	8.50	1.19	3.24	10.1		.6	9	0	"
1232	5-21	133P 145P	"	17.7	8.10	1.13	3.22	9.2		.6	9	0	"
1233	5-24	1134A 1145A	"	18.0	8.06	1.09	3.21	8.8		.6	9	0	"
1234	5-25	1125A 1145A	Whisler	18.5	9.55	1.34	3.26	12.8		.6	9	0	"
1235	5-25	245P 300P	"	18.0	8.40	1.22	3.24	10.2		.6	9	0	"
1236	5-26	135P 158P	"	17.0	7.56	1.10	3.17	8.3		.6	9	0	"
1237	5-28	934A 946A	Godfrey	16.5	7.50	1.08	3.17	8.1		.6	9	0	FC 20
1238	5-31	915A 930A	Whisler-Turner	17.3	7.07	1.09	3.16	7.7		.6	11	0	FC 5
1239	5-31	1035A 1056A	Turner-Whisler	17.3	6.92	1.16	3.16	8.0		.6	17	0	"
1240	6-4	830A 850A	Turner	17.3	6.58	1.16	3.14	7.6		.6	13	0	"
1241	6-4	945A 1005A	"	12.0	8.64	0.89	3.14	7.7		.6	13	0	"
1242	6-7	905A 920A	"	12.0	8.47	0.89	3.14	7.5		.6	13	0	"
1243	6-11	930A 948A	"	12.0	8.05	0.87	3.13	7.0		.6	13	0	"
1244	6-14	220P 232P	Godfrey	16.0	6.26	0.99	3.12	6.2		.6	8	0	FC 20
1245	6-18	1049A 1100A	"	16.0	6.10	1.00	3.11	6.1		.6	8	0	"
1246	6-21	1044A 1058A	"	15.0	5.99	1.02	3.10	6.1		.6	8	0	"
1247	6-25	1108A 1120A	"	16.0	6.02	0.88	3.09	5.3		.6	8	0	"
1248	6-28	920A 939A	"	16.0	6.04	0.90	3.08	5.4		.6	8	0	"
1249	7-2	1154A 1204P	"	16.0	5.66	0.78		4.4		.6	8	0	"
1250	7-5	838A 900A	"	16.0	5.72	0.93	3.07	5.3		.6	14	0	"
1251	7-9	1041A 1054A	"	15.0	5.06	1.01	3.06	5.0		.6	8	0	"
1252	7-12	941A 952A	"	13.0	5.11	0.98	3.05	5.0		.6	7	0	"
1253	7-15	948A 1000A	"	13.0	5.21	1.00	3.05	5.2		.6	7	0	"
1254	7-18	1025A 1035A	"	13.0	5.06	0.99	3.04	5.0		.6	7	0	"
1255	7-22	910A 922A	"	13.0	4.87	0.96	3.03	4.7		.6	7	0	"
1256	7-26	916A 928A	"	13.0	4.96	0.99	3.02	4.9		.6	7	0	"
1257	7-30	1049A 1100A	"	13.0	4.70	0.98	3.02	4.6		.6	7	0	"
1258	8-2	917A 928A	"	13.0	4.68	0.92	3.00	4.3		.6	7	0	"
1259	8-5	1107A 1118A	"	12.0	3.00	0.43	2.74	1.3		.6	7	0	"
1260	8-9	951A 1003A	"	10.8	2.73	0.48	2.73	1.3		.6	6	0	"
1261	8-12	935A 945A	Godfrey	11.0	2.69	0.41	2.73	1.1		.6	6	0	FC 20
1262	8-16	1004A 1017A	"	11.0	2.71	0.44	2.73	1.2		.6	6	0	"
1263	8-19	945A 954A	"	11.0	2.65	0.38	2.73	1.0		.6	6	0	"
1264	8-23	953A 1003A	"	10.5	2.28	0.53	2.72	1.2		.6	6	0	"
1265	8-26	941A 952A	"	10.5	2.42	0.41	2.72	1.0		.6	6	0	"
1266	8-30	1010A 1020A	"	8.5	1.53	0.72	2.72	1.1		.6	7	0	"
1267	9-2	1045A 1055A	"	8.5	1.62	0.68	2.72	1.1		.6	5	0	"
1268	9-5	922A 932A	"	8.5	1.62	0.74	2.72	1.2		.6	7	0	"
1269	9-9	928A 938A	"	8.5	1.51	0.80	2.72	1.2		.6	7	0	"
1270	9-12	1054A 1105A	"	17.0	7.65	1.60	3.27	12.2		.6	9	+.01	"
1271	9-13	917A 938A	"	17.0	7.54	1.62	3.28	12.2		.6	9	0	"
1272	9-16	852A 915A	"	17.0	7.00	1.57	3.26	11.0		.6	13	0	"
1273	9-18	922A 933A	"	17.0	6.66	1.56	3.24	10.4		.6	9	0	"
1274	9-20	905A 920A	"	17.0	6.25	1.50	3.21	9.4		.6	10	0	"
1275	9-23	830A 842A	"	8.3	1.79	0.67	2.77	1.2		.6	8	0	"
1276	9-27	846A 903A	"	8.0	1.62	0.60	2.73	0.98		.6	11	0	"
1277	9-30	930A 945A	"	8.0	1.71	0.58	2.72	1.0		.6	10	0	"

F.C. Disc. Form 52 3-41

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 # 2, for the year ending September 30, 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.9	7.0	1.0	17.5	15.0	12.2	10.8	8.5	7.6	5.3	4.5	1.1
2	7.6	7.6	1.0	16.8	14.3	12.2	10.8	8.5	7.6	5.3	4.3	1.1
3	7.0	7.3	1.3	17.5	14.6	12.2	11.2	8.5	7.6	5.3	2.8	1.1
4	7.2	5.4	1.3	18.2	15.4	11.9	11.2	8.5	7.6	5.3	1.3	1.2
5	7.2	5.1	1.3	18.9	15.4	11.9	10.8	8.8	7.6	5.3	1.3	1.2
6	2.5	3.8	1.3	17.5	15.0	11.9	10.8	8.8	7.6	5.1	1.3	1.2
7	6.4	9.8	1.4	16.4	14.3	12.2	10.8	8.8	7.6	5.1	1.4	1.2
8	7.6	9.8	5.1	16.4	13.6	12.2	10.5	8.8	7.6	5.1	1.3	1.2
9	5.1	9.1	9.1	16.4	13.6	12.6	10.5	8.8	7.2	5.1	1.3	1.2
10	4.0	8.5	9.9	16.8	13.6	11.5	10.5	8.5	7.2	4.8	1.3	1.1
11	3.8	7.6	7.6	16.4	13.2	10.8	10.1	8.5	7.0	5.1	1.2	1.1
12	2.2	7.6	11.4	16.8	13.2	10.5	9.8	8.5	6.7	5.1	1.1	7.5
13	4.7	7.9	14.0	17.1	13.2	10.8	9.5	8.5	6.4	5.1	1.1	12.2
14	4.3	7.2	11.9	17.9	13.2	11.5	9.5	10.0	6.2	5.3	1.1	11.5
15	4.0	7.0	11.9	18.9	12.9	11.5	9.1	11.0	6.2	5.3	1.2	11.2
16	3.7	6.4	11.5	17.9	12.9	11.5	9.1	10.1	6.2	5.3	1.2	11.2
17	3.7	6.2	11.2	16.1	12.6	11.2	9.1	10.1	6.2	5.3	1.1	10.8
18	3.7	5.9	10.1	16.8	11.5	11.2	9.1	9.8	6.2	5.1	1.0	10.5
19	3.8	5.9	9.8	17.1	11.2	11.2	9.1	9.5	5.9	5.1	1.0	10.1
20	3.4	9.2	9.5	17.1	11.2	11.5	9.1	9.1	5.9	4.9	1.0	9.8
21	3.2	10.8	9.1	16.8	11.5	11.9	9.1	9.1	5.9	4.9	1.1	8.8
22	3.2	10.1	13.4	16.1	11.2	12.6	9.1	9.1	5.7	4.9	1.2	6.5
23	3.0	9.1	15.7	15.7	11.2	12.9	9.1	9.1	5.7	4.9	1.2	1.2
24	2.9	7.2	15.7	15.7	11.5	11.9	9.1	8.8	5.5	4.9	1.1	1.0
25	2.8	5.1	15.7	15.4	11.5	11.2	9.1	7.4	5.3	4.9	1.0	1.0
26	2.6	5.1	15.0	15.0	11.9	10.5	9.1	9.2	5.3	4.9	1.0	1.0
27	2.6	4.7	14.6	15.4	11.9	10.8	9.1	8.2	5.3	4.9	1.0	1.0
28	17.5	2.6	15.3	16.1	12.2	10.8	8.8	8.2	5.5	4.9	1.0	1.0
29	3.1	1.0	15.4	16.1		11.2	8.8	8.2	5.5	4.9	1.0	1.0
30	3.1	1.0	16.8	15.7		11.2	8.8	8.2	5.5	4.9	1.1	1.0
31	4.0		17.5	15.4		11.2		7.9		4.5	1.1	
	524.0	527.0	305.8	517.9	362.8	358.7	291.5	275.0	193.3	156.8	43.6	131.0
MEAN	16.9	17.6	9.86	16.7	13.0	11.6	9.7	8.9	6.4	5.1	1.41	4.37
ACRE-FEET	1040.	1050.	607.	1030.	720.	711.	578.	545.	383.	311.	86.	260.

Remarks:

YEAR OR PERIOD MEAN 10.1 ACRE-FEET 7320.

STATION P3R

SAN GABRIEL RIVER-WEST FORK above Forks

LOCATION:

On the right (south) bank, one-quarter mile above Rincon Ranger Station, 2 miles above East Fork and about 13½ miles north of Azusa.

DRAINAGE AREA:

102 square miles.

CHANNEL AND CONTROL:

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

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from cable car 15 feet below station.

RECORDER:

Installed December 3, 1930. Removed March 2, 1938. Installed on April 4, 1938 in a temporary recorder house and well at the original location. Removed July 12, 1938 and installed at the temporary station known as Station P3B-R. Removed on September 27, 1938 and reinstalled at original location in a concrete house over a 4 ft. x 4 ft. concrete well.
An Au continuous recorder was in service from October 1, 1941 to September 30, 1942.

REGULATION:

Flow partially regulated by San Gabriel Dam No. 2.

DIVERSIONS:

None.

RECORDS AVAILABLE:

December 3, 1930 to September 30, 1942.
For records prior to December 3, 1930, on file at Los Angeles County Flood Control District office refer to abandoned Station P1R San Gabriel River-West Fork ½ mile above Forks; records from July 12, 1938 to September 27, 1938 are from Station P3B-R San Gabriel River-West Fork 400 ft. below North Fork.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 288 second-feet, December 29.
Minimum 6.5 second-feet, several days.
1930-1942 (Stations P1R, P3R, P3B-R)
Maximum 34000 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 U.S.G.S. Water Resources Branch.

ACCURACY:

Good.
Record occasionally estimated due to loss of communication.

OPERATION:

Moved from a previous location by the District for the Pasadena Water Department. This Station was later taken over, reconstructed, and operated by the Los Angeles County Flood Control District in co-operation with the U.S.G.S. Water Resources Branch.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. P3-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - WEST FORK

NEAR above Forks DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1131	10-2	510P 525P	Cooper	27.0	33.4	0.86	5.92	28.9		.6	10	0	FC 11
1132	10-6	1040A 1058A	"	26.9	34.3	0.96	5.97	32.9		.6	10	0	"
1133	10-9	410P 430P	"	29.0	43.1	1.57	6.31	67.8		.6	11	0	"
1134	10-16	340P 355P	Cooper-Oliver	26.5	32.3	0.76	5.87	24.4		.6	10	0	"
1135	10-20	235P 250P	"	26.6	34.8	0.99	6.00	34.4		.6	10	0	"
1136	10-23	540A 558A	Cooper	26.7	35.2	0.91	5.98	32.0		.6	10	0	"
1137	10-27	1020A 1038A	Cooper-Oliver	26.7	34.9	0.89	5.97	31.2		.6	10	0	"
1138	10-30	220P 240P	Oliver-Cooper	33.0	43.0	1.47	6.24	63.4		.6	11	0	"
1139	11-3	445P 505P	Cooper	40.0	57.5	1.87	6.54	108.		.6	11	-.01	"
1140	11-6	315P 333P	Cooper-Oliver	38.5	51.5	1.63	6.45	84.2		.6	13	0	"
1141	11-10	420P 440P	Cooper	27.0	34.8	0.93	5.96	32.5		.6	10	0	"
1142	11-13	345P 400P	"	27.2	35.2	0.92	5.97	32.4		.6	9	0	"
1143	11-17	450P 506P	"	33.0	32.5	0.94	6.01	30.7		.6	9	0	"
1144	11-20	1140A 1158A	"	32.0	31.3	0.92	6.01	28.9		.6	10	0	"
1145	11-24	415P 431P	"	33.0	31.8	0.95	6.02	30.2		.6	10	0	"
1146	11-27	320P 335P	"	32.0	29.4	0.90	5.97	26.3		.6	10	0	"
1147	12-1	435P 450P	"	32.0	28.6	0.87	5.94	24.8		.6	10	0	"
1148	12-4	305P 320P	"	32.0	30.6	0.93	6.01	28.4		.6	10	0	"
1149	12-8	135P 150P	"	30.5	34.7	0.68	5.94	23.6		.6	10	0	"
1150	12-10	1010A 1032A	Ingram-Reilly	42.0	55.3	2.06	6.59	114.		.6	11	+.12	FC 2
1151	12-10	238P 254P	"	50.0	71.3	2.67	6.93	191.		.6	11	0	"
1152	12-10	648P 711P	"	52.0	84.2	3.09	7.23	260.		.6	13	+.02	"
1153	12-10	909P 928P	"	50.0	74.1	2.79	6.98	206.		.6	13	+.04	"
1154	12-11	350P 408P	Cooper	40.0	43.4	1.54	6.38	66.7		.6	10	0	FC 11
1155	12-15	110P 125P	Cooper	39.0	37.0	1.19	6.20	43.9		.6	10	0	FC 11
1156	12-18	335P 350P	"	36.0	34.8	1.13	6.14	39.5		.6	9	0	"
1157	12-22	1110A 1125A	"	35.0	33.6	1.05	6.11	35.2		.6	9	0	"
1158	12-26	120P 135P	"	38.0	38.0	1.29	6.24	49.1		.6	10	0	"
1159	12-28	817P 836P	Ingram-Reilly	44.0	53.2	1.97	6.58	105.		.6	11	+.06	FC 2
1160	12-28	1122P 1139P	"	50.0	70.9	2.60	6.96	184.		.6	11	+.09	"
1161	12-29	115A 135A	"	53.0	90.3	3.02	7.28	274.		.6	11	+.02	"
1162	12-29	238A 257A	"	53.0	93.1	3.04	7.30	283.		.6	12	-.01	"
1163	12-29	1205P 1220P	"	50.0	71.4	2.40	6.90	172.		.6	12	-.01	"
1164	12-30	206P 226P	Middleton	47.5	55.4	2.06	6.60	114.		.6	13	0	FC 36
1165	1-2	210P 225P	Cooper	41.0	42.4	1.47	6.34	62.5		.6	10	0	FC 11
1166	1-5	300P 315P	"	40.0	40.0	1.38	6.29	55.0		.6	10	0	"
1167	1-8	257P 312P	"	40.0	40.0	1.29	6.26	52.1		.6	10	0	"
1168	1-12	305P 320P	"	40.0	39.2	1.32	6.24	51.5		.6	10	0	"
1169	1-15	415P 430P	"	40.0	39.9	1.33	6.24	53.0		.6	10	0	"
1170	1-19	140P 155P	"	40.0	38.4	1.26	6.20	48.3		.6	10	0	"
1171	1-22	206P 222P	"	40.0	39.1	1.25	6.22	49.7		.6	10	0	"
1172	1-26	350P 405P	"	40.0	36.9	1.16	6.17	42.7		.6	10	0	"
1173	1-29	510P 525P	"	40.0	35.8	1.09	6.15	38.9		.6	10	0	"
1174	2-2	310P 325P	"	40.0	35.9	1.12	6.14	40.2		.6	10	0	"
1175	2-5	400P 416P	"	40.0	36.0	1.10	6.12	39.6		.6	9	0	"
1176	2-9	250P 305P	"	38.0	34.9	1.02	6.10	35.6		.6	9	0	"
1177	2-13	305P 320P	"	35.0	33.4	1.04	6.09	34.9		.6	9	0	"
1178	2-16	535P 550P	"	35.0	33.4	1.07	6.08	35.8		.6	9	0	"

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

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, 1942

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1179	2-19	305P 320P	Cooper	35.0	33.4	1.02	6.08	34.1		.6	9	0	FC 11
1180	2-26	525P 540P	"	36.0	35.3	1.09	6.14	38.5		.6	9	0	"
1181	3-2	415P 430P	"	35.0	34.3	1.04	6.11	35.8		.6	9	0	"
1182	3-5	450P 506P	"	35.0	33.6	1.06	6.09	35.5		.6	9	0	"
1183	3-9	505P 520P	"	35.0	33.2	1.06	6.08	35.3		.6	9	0	"
1184	3-12	250P 305P	"	35.0	33.9	1.12	6.10	38.0		.6	9	0	"
1185	3-16	448P 504P	"	40.0	36.8	1.24	6.18	45.6		.6	10	0	"
1186	3-19	445P 501P	"	36.0	36.0	1.17	6.15	42.2		.6	9	0	"
1187	3-23	330P 346P	"	35.0	34.8	1.13	6.11	39.3		.6	9	0	"
1188	3-26	440P 456P	"	35.0	34.0	1.07	6.09	36.5		.6	9	0	"
1189	3-30	505P 525P	"	35.0	33.1	1.04	6.06	34.3		.6	9	0	"
1190	4-2	445P 505P	"	35.0	33.2	1.01	6.06	33.4		.6	9	-.01	"
1191	4-6	310P 328P	"	40.0	35.9	1.20	6.14	43.0		.6	10	0	"
1192	4-9	450P 510P	"	39.0	34.8	1.14	6.10	39.8		.6	10	0	"
1193	4-13	438P 456P	"	36.0	35.6	1.16	6.14	41.1		.6	9	0	"
1194	4-16	245P 257P	Cooper-Whisler	36.0	35.6	1.19	6.15	42.5		.6	9	0	"
1195	4-20	555P 610P	Cooper	35.5	34.0	1.11	6.11	37.8		.6	9	0	"
1196	4-23	303P 315P	Cooper-Whisler	35.5	34.4	1.09	6.11	37.5		.6	9	0	"
1197	4-23	325P 340P	Whisler-Cooper	35.5	34.8	1.05	6.10	36.6		.6	10	0	"
1198	4-27	205P 220P	Cooper	35.5	34.2	1.12	6.09	38.2		.6	9	0	"
1199	4-30	432P 442P	Cooper-Whisler	35.0	33.4	1.07	6.07	35.7		.6	9	0	"
1200	5-4	518P 530P	Cooper	35.0	31.8	1.03	6.03	32.6		.6	9	0	"
1201	5-7	400P 422P	Whisler-Copper	34.0	32.5	0.98	6.03	31.9		.6	11	0	"
1202	5-14	407P 425P	Brown	34.0	32.3	1.08	6.06	35.0		.6	15	0	FC 32
1203	5-18	1022A 1042A	Middleton	35.5	32.2	1.09	6.04	35.2		.6	12	0	FC 36
1204	5-21	150P 210P	"	35.0	31.4	0.95	6.01	29.9		.6	12	0	"
1205	5-25	145P 203P	Brown	31.4	28.1	0.83	5.94	23.3		.6	14	-.02	FC 32
1206	5-28	242P 300P	"	32.5	29.2	0.90	5.98	26.4		.6	12	-.01	"
1207	6-1	124P 138P	"	32.5	29.4	0.94	5.99	27.7		.6	11	0	"
1208	6-4	910A 925A	Brown	32.5	29.3	0.91	5.98	26.8		.6	11	0	FC 32
1209	6-8	116P 130P	"	32.3	28.7	0.94	5.96	27.0		.6	11	0	"
1210	6-11	1233P 1255P	"	31.5	28.1	0.88	5.93	24.8		.6	11	0	"
1211	6-15	153P 212P	"	30.0	26.9	0.83	5.90	22.4		.6	15	0	"
1212	6-18	130P 148P	"	28.3	25.0	0.78	5.86	19.5		.6	14	+.01	"
1213	6-22	212P 228P	"	28.0	23.3	0.70	5.81	16.2		.6	13	+.01	"
1214	6-25	1148A 1208P	"	29.5	25.5	0.74	5.85	18.8		.6	14	+.02	"
1215	6-29	1110A 1125A	Cooper	29.5	25.4	0.75	5.84	19.2		.6	10	+.02	FC 11
1216	7-2	1020A 1035A	"	28.0	25.4	0.69	5.86	17.4		.6	9	0	"
1217	7-6	355P 410P	"	28.0	23.9	0.58	5.77	14.0		.6	9	0	"
1218	7-9	1105A 1120A	"	28.0	24.2	0.58	5.78	14.0		.6	9	0	"
1219	7-13	605P 620P	"	28.0	22.5	0.52	5.74	11.8		.6	9	0	"
1220	7-16	525P 537P	"	27.0	22.4	0.53	5.73	11.9		.6	9	0	"
1221	7-20	515P 530P	"	27.0	22.0	0.51	5.72	11.2		.6	9	0	"
1222	7-23	250P 305P	"	27.0	21.6	0.52	5.71	11.3		.6	9	0	"
1223	7-27	525P 540P	"	27.0	21.1	0.51	5.69	10.7		.6	9	0	"
1224	7-30	225P 240P	"	27.0	21.5	0.52	5.72	11.3		.6	9	0	"
1225	8-3	445P 500P	"	27.0	20.7	0.47	5.67	9.7		.6	9	0	"
1226	8-6	610P 625P	"	26.0	18.2	0.41	5.57	7.5		.6	9	0	"
1227	8-10	545P 600P	Cooper	30.0	26.0	0.67	5.83	17.3		.6	10	-.01	FC 11
1228	8-13	655P 710P	"	27.0	20.3	0.45	5.64	9.1		.6	9	0	"
1229	8-17	148P 203P	Brown	26.0	18.5	0.45	5.64	8.4		.6	13	0	FC 32
1230	8-20	227P 243P	"	26.0	18.5	0.43	5.63	8.0		.6	13	0	"
1231	8-24	107P 123P	"	25.6	17.9	0.42	5.62	7.6		.6	13	0	"
1232	8-26	125P 143P	"	26.0	18.6	0.41	5.62	7.7		.6	13	0	"
1233	8-31	115P 130P	Cooper	26.5	20.0	0.40	5.64	8.1		.6	9	0	FC 17
1234	9-3	1035A 1050A	"	26.5	20.4	0.43	5.64	8.7		.6	9	0	"
1235	9-8	1150A 1208P	Brown	25.8	18.0	0.41	5.62	7.3		.6	12	0	FC 32
1236	9-14	350P 405P	Cooper	29.0	25.5	0.74	5.86	19.0		.6	10	0	FC 11
1237	9-17	238P 253P	"	29.8	26.0	0.73	5.86	19.0		.6	10	0	"
1238	9-21	415P 430P	"	29.0	24.2	0.67	5.79	16.2		.6	10	0	"
1239	9-24	220P 240P	"	25.0	18.5	0.38	5.62	7.1		.6	9	0	"
1240	9-28	320P 335P	"	25.0	18.2	0.45	5.58	8.2		.6	9	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

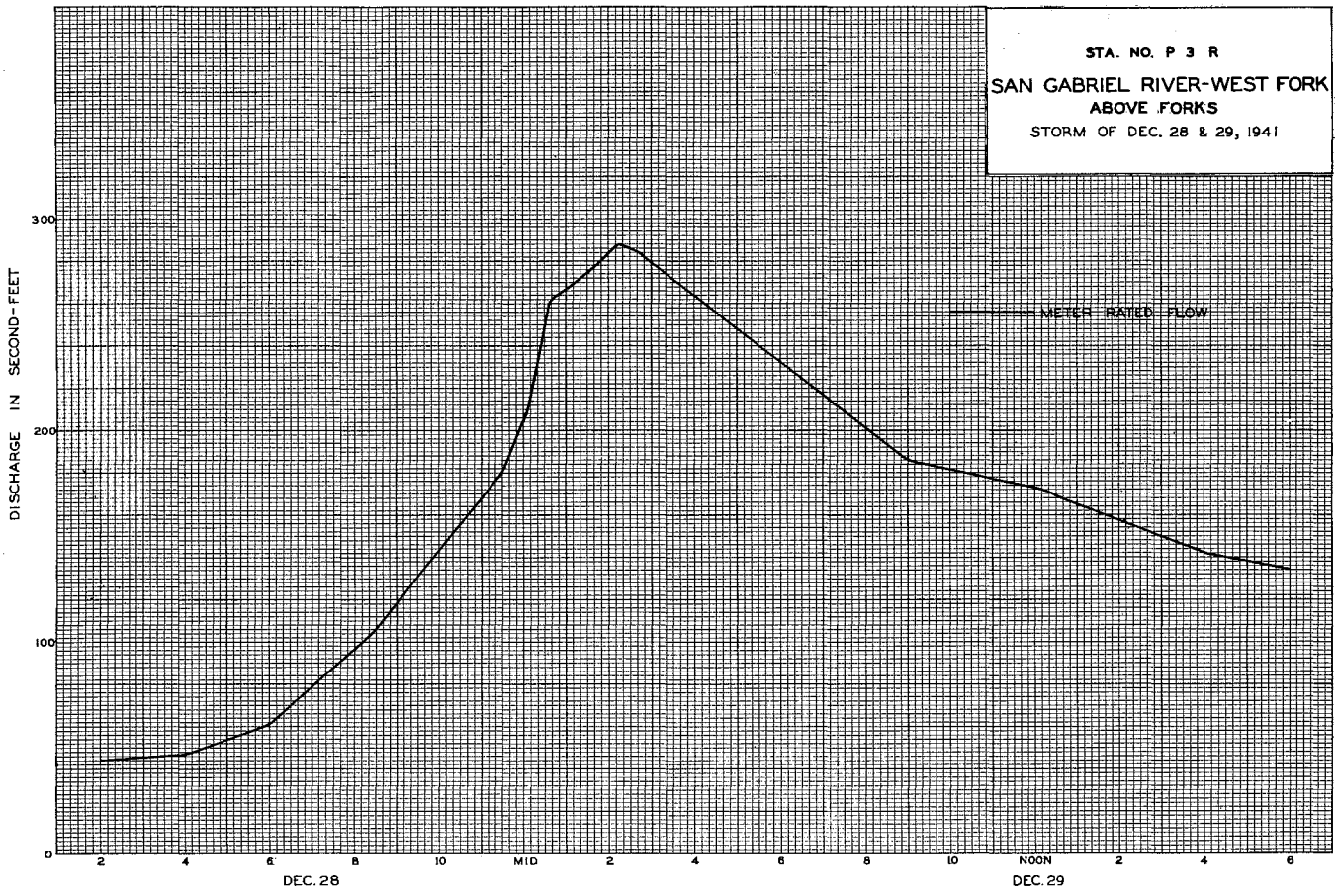
Sta. No P3-R

Daily discharge, in second-feet of SAN GABRIEL RIVER - WEST FORK above Forks, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	32	107	25	75	40	36	35	36	27	15	10	8.5
2	31	120	24	65	40	36	34	35	27	14	10	8.5
3	30	113	31	60	40	36	34	34	26	14	10	8.5
4	30	90	30	57	40	36	59	33	26	14	10	8.5
5	31	71	26	55	40	36	46	32	26	14	9.5	7.5
6	41	76	25	53	40	36	42	32	25	14	9	7
7	39	37	24	53	38	36	42	32	26	14	8	6.5
8	111	34	24	53	36	36	40	33	26	14	8	6.5
9	85	33	31	54	36	36	40	33	26	14	9	6.5
10	66	33	138	54	35	36	46	34	25	14	18	7.5
11	64	31	31	53	35	42	50	34	24	13	13	7.5
12	59	33	53	51	35	40	44	34	24	13	10	8.5
13	E 24	32	51	50	35	38	42	32	24	12	9.5	18
14	E 25	32	47	51	36	48	48	32	22	12	9.5	19
15	E 25	31	44	53	36	56	46	35	22	13	9	19
16	E 26	30	42	53	36	48	42	34	21	13	8.5	18
17	25	30	42	50	36	46	46	35	20	12	8	18
18	25	30	40	49	35	44	40	35	20	12	8	18
19	31	30	38	48	34	42	38	34	19	12	8	19
20	42	30	36	47	33	42	37	31	18	12	7.5	18
21	34	33	36	46	53	40	40	30	17	11	7.5	17
22	38	32	37	48	84	40	40	30	17	11	7.5	16
23	34	32	44	45	48	40	37	30	17	11	7.5	9.5
24	36	30	42	45	42	38	36	30	16	11	7	7
25	33	27	46	44	40	37	36	27	17	11	7	6.5
26	31	26	53	42	38	36	37	30	17	12	7.5	6.5
27	32	26	44	40	38	36	38	27	18	12	7.5	7.5
28	42	26	63	40	37	36	40	26	17	11	7.5	8
29	66	25	133	40		36	36	26	17	11	7.5	7.5
30	63	27	114	40		36	36	26	17	10	7.5	7.5
31	70		87	38		35		27		10	7.5	
	1371	1307	1601	1552	1116	1216	1227	979	644	386	274.0	331.5
Mean	44.2	43.6	51.6	50.1	39.8	39.2	40.9	31.6	21.5	12.5	8.84	11.0
Acre-Feet	2720.	2590.	3180.	3080.	2210.	2410.	2430.	1940.	1280.	766.	543.	658.

Remarks: E = estimated.

Year or Period Mean 32.9
Acre-Feet 23810.



STATION P4B-R

SAN GABRIEL RIVER-EAST FORK above Forks

LOCATION:

On the right (north) bank above the high water line of San Gabriel Dam No. 1, 2½ miles above the West Fork, and 8 miles northeast of Glendora. Former station P4R was about 1500 feet downstream.

DRAINAGE AREA:

88.2 square miles.

CHANNEL AND CONTROL:

Channel-sand, gravel and boulders.
Channel forms control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from cable car 23 feet above gage.

RECORDER:

Installed November 30, 1932 at Station P4R.
Moved to Station P4B-R December 10, 1938 and installed in a concrete house over a 4 ft. x 4 ft. concrete stilling well.
An Au continuous recorder was in service from October 1, 1941 to September 30, 1942.

REGULATION:

None.

DIVERSIONS:

Some water diverted for placer mining.

RECORDS AVAILABLE:

At Station P4R and P4B-R
November 30, 1932 to September 30, 1942.

EXTREMES OF DISHCARGE:

1941-1942
Maximum 349 second-feet, August 10.
Minimum est. 10.0 second-feet, September 30.
1932-1942
Maximum 46000 second-feet, estimated by U.S.G.S. March 2, 1938.
Minimum 1.5 second-feet October 1, 1934.

ACCURACY:

Good.

OPERATION:

Moved from a previous location by the District for the Pasadena Water Department.
The Station was later taken over, reconstructed and operated by the District in co-operation with the U.S.G.S. Water Resources Branch.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. P4B-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - EAST FORK

above Forks DURING THE YEAR ENDING SEPTEMBER 30, 1942

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
822	10-2	255P 310P	Cooper	24.3	23.0	1.43	6.07	32.9		.6	9	0	FC 11
823	10-6	240P 255P	Oliver-Cooper	24.0	23.4	1.43	6.10	33.4		.6	9	0	"
824	10-9	1235P 1250P	"	24.0	23.9	1.26	6.09	30.2		.6	9	0	"
825	10-16	1220P 1240P	Cooper-Oliver	24.0	23.0	1.32	6.07	30.3		.6	9	0	"
826	10-19	1240P 100P	Oliver-Cooper	24.0	25.0	1.39	6.16	34.6		.6	9	0	"
827	10-21	1135P 1149P	Middleton-Whisler	25.0	26.4	1.82	6.21	48.1		.6	10	0	FC 29
828	10-22	122A 133A	"	24.9	26.1	1.77	6.20	46.1		.6	10	0	"
829	10-23	1240P 1255P	Cooper-Oliver	24.7	24.8	1.40	6.15	34.7		.6	9	0	FC 11
830	10-27	305P 320P	Cooper	25.0	25.9	1.56	6.18	40.4		.6	9	+.01	"
831	10-30	1210P 1226P	Oliver-Cooper	24.0	24.5	1.44	6.13	35.2		.6	9	0	"
832	11-3	110P 126P	Cooper	24.0	23.9	1.37	6.10	32.8		.6	9	0	"
833	11-6	1250P 106P	Oliver-Cooper	24.0	23.1	1.26	6.09	29.2		.6	8	0	"
834	11-10	135P 150P	Cooper	24.0	22.7	1.36	6.08	30.8		.6	9	0	"
835	11-13	125P 140P	Oliver-Cooper	23.6	23.6	1.28	6.11	30.3		.6	9	0	"
836	11-17	245P 300P	Cooper	24.0	22.2	1.30	6.08	28.9		.6	9	0	"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. P4B-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - EAST FORK

at above Forks

DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METER OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
837	11-24	150P / 206P	Cooper	24.0	22.6	1.31	6.04	29.6		.6	9	0	FC 11
838	11-27	1215P / 1230P	"	24.0	22.7	1.29	6.05	29.3		.6	9	0	"
839	12-1	140P / 156P	"	24.0	22.8	1.30	6.07	29.7		.6	9	0	"
840	12-4	1200N / 1215P	"	24.5	24.4	1.46	6.13	35.5		.6	9	0	"
841	12-8	1025A / 1040A	"	21.8	13.7	2.19	6.08	30.0		.6	10	0	"
842	12-10	858A / 908A	Middleton-Whisler	27.0	28.1	1.89	6.29	53.2		.6	10	+.02	FC 29
843	12-10	1020A / 1036A	Whisler-Middleton	28.0	29.8	2.10	6.36	62.8		.6	10	+.02	"
844	12-10	1236P / 1246P	Middleton-Whisler	29.5	34.6	2.38	6.47	82.5		.6	10	+.01	"
845	12-10	327P / 335P	"	29.0	33.2	2.36	6.45	78.3		.6	10	0	"
846	12-10	638P / 649P	Middleton-Whisler	33.5	43.3	2.98	6.73	129.		.6	11	+.01	FC 29
847	12-11	120P / 135P	Cooper	26.0	28.7	1.93	6.30	55.4		.6	9	-.01	FC 11
848	12-15	1020A / 1035A	"	16.5	12.5	3.21	6.15	40.2		.6	9	0	"
849	12-18	1155A / 1215P	"	25.0	24.6	1.45	6.13	35.8		.6	9	0	"
850	12-22	225P / 240P	"	16.2	11.9	3.07	6.12	36.7		.6	8	0	"
851	12-26	1020A / 1035A	"	17.0	14.9	2.79	6.18	41.6		.6	9	0	"
852	12-28	635P / 650P	Middleton	26.0	29.6	1.79	6.27	53.1		.6	10	+.01	FC 29
853	12-28	835P / 850P	"	26.0	31.2	1.97	6.34	61.4		.6	10	+.01	"
854	12-28	1035P / 1050P	"	27.2	34.0	2.28	6.43	77.7		.6	10	+.02	"
855	12-29	107A / 122A	"	28.0	36.3	2.48	6.51	90.5		.6	10	+.01	"
856	12-29	402A / 416A	"	32.0	45.5	3.14	6.73	143.		.6	10	+.02	"
857	12-29	715A / 730A	"	32.0	45.1	3.22	6.75	145.		.6	10	-.01	"
858	12-29	1010A / 1025A	"	29.5	41.8	2.92	6.67	122.		.6	10	0	"
859	12-30	830A / 845A	"	29.0	37.6	2.45	6.52	92.1		.6	9	0	"
860	1-2	1115A / 1130A	Cooper	35.0	21.3	2.56	6.28	54.6		.6	11	0	FC 11
861	1-5	1235P / 1250P	"	26.0	27.3	1.62	6.22	44.3		.6	9	0	"
862	1-8	1015A / 1030A	"	28.5	17.4	2.54	6.21	44.1		.6	9	0	"
863	1-12	1135A / 1150A	"	28.5	18.8	2.58	6.22	48.4		.6	10	0	"
864	1-15	105P / 120P	"	26.0	27.3	1.63	6.22	44.5		.6	9	0	"
865	1-19	1005A / 1020A	"	29.0	18.6	2.41	6.19	44.8		.6	10	0	"
866	1-22	1020A / 1035A	"	28.5	17.9	2.41	6.19	43.3		.6	10	0	"
867	1-26	1240P / 1255P	"	25.0	25.4	1.63	6.17	41.5		.6	9	0	"
868	1-29	100P / 115P	"	26.0	26.0	1.60	6.18	41.6		.6	9	0	"
869	2-2	1035A / 1050A	"	28.5	17.3	2.24	6.15	38.8		.6	10	0	"
870	2-5	1155A / 1210P	Cooper	25.0	24.7	1.52	6.13	37.4		.6	9	0	FC 11
871	2-9	1042A / 1058A	"	27.5	16.8	2.15	6.11	36.1		.6	10	0	"
872	2-13	1155A / 1210P	"	24.5	23.9	1.48	6.09	35.4		.6	9	0	"
873	2-16	305P / 320P	"	24.5	23.4	1.34	6.08	31.3		.6	9	0	"
874	2-19	1215P / 1230P	"	24.5	23.7	1.40	6.07	33.2		.6	9	0	"
875	2-21	236P / 248P	Middleton-Whisler	25.4	25.1	1.51	6.13	37.9		.6	12	0	FC 36
876	2-21	502P / 512P	"	25.5	26.8	1.60	6.17	42.7		.6	9	0	"
877	2-21	711P / 722P	"	26.5	29.0	1.77	6.28	51.4		.6	10	+.02	"
878	2-21	855P / 910P	"	27.0	30.4	1.96	6.30	59.6		.6	9	0	"
879	2-21	1055P / 1108P	"	28.0	31.9	2.03	6.32	64.8		.6	9	0	"
880	2-22	1251A / 104A	"	29.5	35.3	2.33	6.46	82.1		.6	11	+.06	"
881	2-22	200A / 211A	"	30.5	37.6	2.37	6.55	89.4		.6	11	0	"
882	2-22	743A / 754A	"	27.5	32.3	2.05	6.38	66.3		.6	9	0	"
883	2-26	1215P / 1230P	Cooper	25.0	24.6	1.52	6.12	37.4		.6	9	0	FC 11
884	3-2	1255P / 110P	"	25.0	24.6	1.45	6.12	35.6		.6	9	0	"
885	3-5	130P / 145P	"	25.0	24.3	1.42	6.12	34.6		.6	9	0	"
886	3-9	125P / 140P	"	24.5	24.0	1.46	6.11	35.1		.6	9	0	"
887	3-12	1050A / 1105A	"	29.5	17.6	2.04	6.16	35.8		.6	9	0	"
888	3-14	420P / 430P	Middleton-Whisler	26.5	28.8	1.74	6.30	50.2		.6	10	+.01	FC 29
889	3-14	601P / 610P	"	27.5	32.0	1.96	6.37	62.6		.6	10	0	"
890	3-14	922P / 932P	"	26.5	30.7	1.91	6.33	58.6		.6	9	0	"
891	3-16	200P / 216P	Cooper	25.0	25.9	1.60	6.19	41.5		.6	9	0	FC 11
892	3-19	139P / 155P	"	26.0	26.7	1.68	6.21	44.9		.6	9	0	"
893	3-23	1125A / 1141A	"	25.5	26.0	1.58	6.17	41.0		.6	9	0	"
894	3-26	1235P / 1251P	Cooper	25.5	25.7	1.53	6.16	39.4		.6	9	0	FC 11
895	3-30	145P / 205P	"	25.5	25.4	1.53	6.14	38.8		.6	9	0	"
896	4-2	145P / 205P	"	25.5	25.8	1.53	6.17	39.6		.6	9	0	"
897	4-6	1225P / 1245P	"	27.0	30.7	2.02	6.35	62.0		.6	9	0	"
898	4-9	145P / 203P	"	26.0	28.1	1.79	6.27	50.3		.6	9	0	"
899	4-13	130P / 150P	"	27.0	32.5	2.10	6.41	68.4		.6	9	0	FC 29
900	4-16	1227P / 1240P	Cooper-Whisler	28.0	32.5	1.97	6.40	63.9		.6	9	0	"
901	4-16	1244P / 100P	Whisler-Cooper	28.0	32.1	1.95	6.40	62.5		.6	9	0	"
902	4-20	115P / 135P	Cooper	27.0	30.6	1.97	6.36	60.2		.6	9	0	"
903	4-23	1245P / 1258P	Cooper-Whisler	27.5	31.6	1.99	6.36	62.8		.6	9	0	"
904	4-23	105P / 120P	Whisler-Cooper	27.5	30.7	1.91	6.36	58.6		.6	9	0	"
905	4-30	220P / 240P	"	27.0	29.9	1.84	6.32	55.0		.6	10	-.01	"
906	5-4	210P / 225P	Cooper	26.0	28.4	1.81	6.26	51.4		.6	9	0	"
907	5-7	211P / 224P	Cooper-Whisler	26.0	28.4	1.69	6.27	48.1		.6	9	0	"
908	5-14	156P / 212P	Brown	25.6	27.2	1.49	6.23	40.6		.6	13	-.01	"
909	5-18	1212P / 1232P	Middleton	25.4	27.5	1.64	6.21	45.2		.6	12	0	"
910	5-21	1024A / 1044A	"	25.3	26.8	1.47	6.20	39.5		.6	12	0	"
911	5-25	1135A / 1150A	Brown	25.0	26.4	1.56	6.19	41.1		.6	12	0	"
912	5-28	1230P / 1245P	"	24.8	25.8	1.47	6.16	37.9		.6	12	0	"
913	6-1	1110A / 1127A	"	24.8	25.9	1.41	6.15	36.4		.6	12	0	"
914	6-4	1105A / 1120A	"	24.5	25.1	1.42	6.13	35.6		.6	12	0	"
915	6-8	1105A / 1121A	"	24.1	24.9	1.38	6.11	34.4		.6	12	0	"
916	6-11	252P / 306P	"	24.0	24.3	1.29	6.08	31.4		.6	12	0	FC 32
917	6-15	1110A / 1125A	"	24.0	24.3	1.40	6.06	33.9		.6	12	0	FC 29
918	6-18	335P / 351P	Brown	24.0	23.7	1.19	6.04	28.3		.6	12	0	FC 32
919	6-22	1152A / 1207P	"	23.9	23.7	1.22	6.04	28.8		.6	12	0	FC 29
920	6-25	230P / 245P	"	24.0	23.1	1.17	6.03	27.1		.6	12	0	FC 32
921	6-29	1217P / 1234P	Brown-Cooper	24.0	22.9	1.16	6.03	26.5		.6	12	0	FC 29
922	7-2	105P / 120P	Cooper	23.8	20.8	1.17	6.01	24.4		.6	9	0	"
923	7-6	1035A / 1050A	"	23.8	20.2	1.08	5.98	21.8		.6	9	0	"
924	7-9	845A / 900A	"	23.8	20.2	1.07	5.98	21.7		.6	9	0	"
925	7-13	1245P / 100P	"	23.5	19.9	1.11	5.97	22.0		.6	9	0	"
926	7-16	130P / 145P	"	23.5	19.8	1.09	5.96	21.5		.6	9	0	"
927	7-20	135P / 150P	"	23.5	19.5	1.01	5.95	19.7		.6	9	0	"
928	7-23	1235P / 1250P	"	23.5	19.3	0.98	5.94	19.0		.6	9	0	"
929	7-27	145P / 200P	"	23.5	18.7	0.92	5.92	17.1		.6	9	0	"
930	7-30	1215P / 1230P	"	23.5	18.8	0.90	5.92	17.0		.6	9	0	"
931	8-3	245P / 300P	"	23.5	19.1	0.96	5.91	18.3		.6	9	-.01	"
932	8-6	330P / 345P	"	23.3	18.3	0.86	5.89	15.7		.6	9	-.01	"
933	8-10	230P / 245P	"	23.6	23.2	2.12	6.26	49.1		.6	8	0	"
934	8-13	245P / 300P	"	22.5	19.4	1.39	6.00	26.9		.6	8	0	"
935	8-17	1143A / 1158A	Brown	22.0	18.0	1.11	5.96	20.0		.6	11	-.005	"
936	8-20	1230P / 1242P	"	22.0	17.2	1.15	5.94	19.8		.6	11	0	"
937	8-24	1157A / 1212P	"	21.7	17.5	1.06	5.93	18.5		.6	11	0	FC 32
938	8-26	1225P / 1238P	"	21.8	17.1	1.09	5.93	18.6		.6	11	0	"
939	8-31	1115A / 1130A	Cooper	21.5	17.8	1.04	5.93	18.6		.6	8	0	FC 29
940	9-3	1255P / 110P	"	21.8	17.1	1.04	5.92	17.8		.6	8	0	"
941	9-8	1051A / 1102A	Brown	21.3	17.3	0.94	5.90	16.2		.6	10	0	FC 32
942	9-14	225P / 240P	Cooper	21.4	15.9	0.94	5.88	15.0		.6	8	-.01	FC 29
943	9-17	1140A / 1155A	"	21.4	15.6	0.97	5.88	15.1		.6	8	0	"
944	9-21	250P / 305P	"	21.3	15.2	0.95	5.86	14.5		.6	8	0	"
945	9-24	120P / 135P	"	21.1	15.2	0.94	5.86	14.2		.6	8	0	"
946	9-28	215P / 230P	"	21.1	14.9	0.95	5.85	14.2		.6	8	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

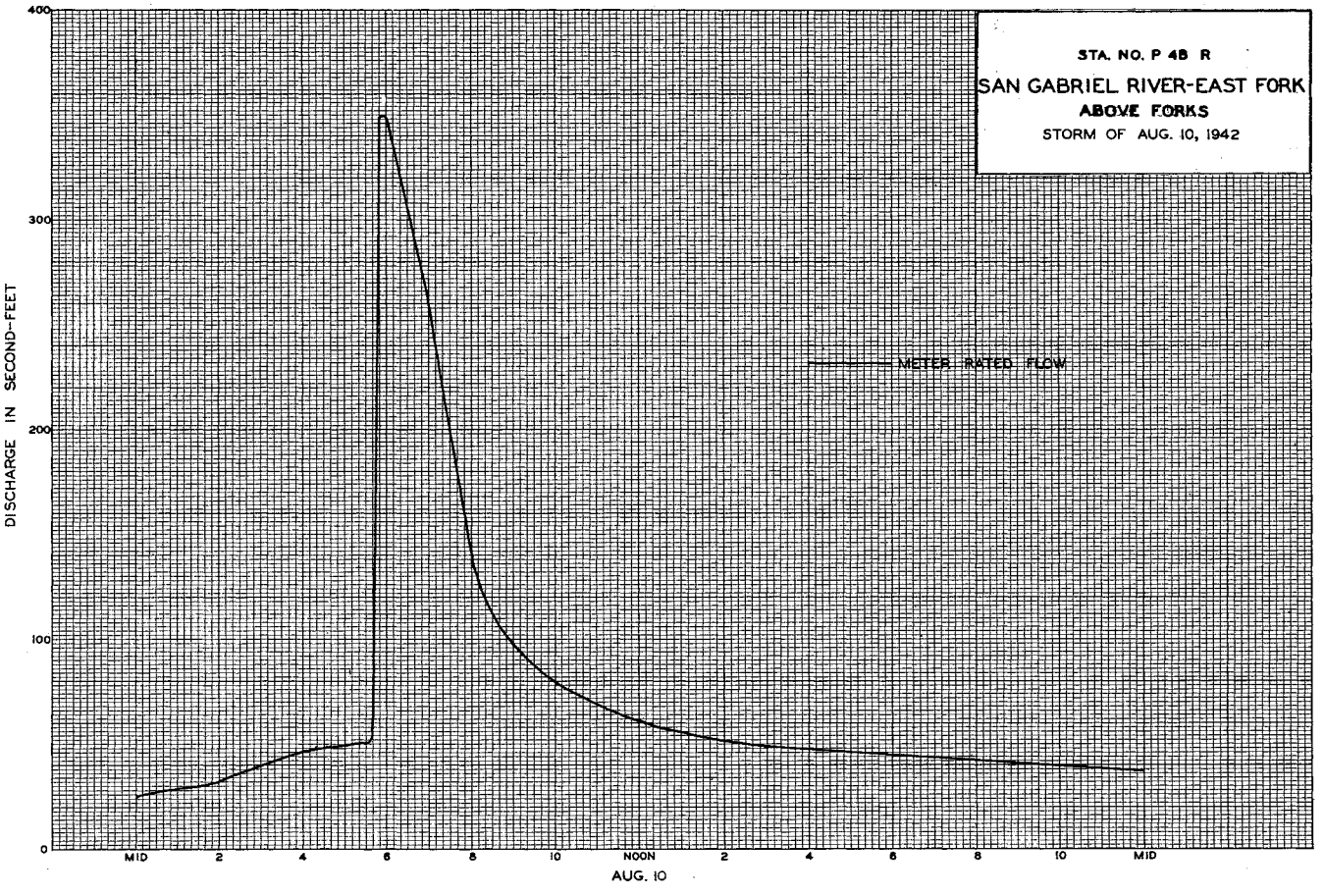
Sta. No. P4B-R

Daily discharge, in second-feet of SAN GABRIEL RIVER – EAST FORK above Forks, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	34	33	31	63	40	36	39	53	35	23	17	18
2	34	34	30	56	39	36	39	52	35	23	18	17
3	33	33	36	50	38	36	41	52	34	22	18	17
4	34	32	37	48	38	35	96	52	35	22	18	16
5	33	31	34	44	37	35	73	50	34	22	17	15
6	33	31	31	43	36	35	61	48	32	21	17	15
7	31	31	30	44	36	35	54	48	32	21	17	14
8	31	31	30	44	36	36	52	48	32	21	17	14
9	29	31	30	45	36	35	50	46	31	21	18	14
10	28	31	73	46	35	33	65	46	31	21	72	15
11	26	31	61	46	35	37	76	46	31	21	31	15
12	32	34	48	48	35	35	72	44	32	22	27	15
13	30	33	41	46	35	34	68	41	32	21	26	15
14	29	32	40	45	34	44	70	40	33	21	24	14
15	30	31	40	44	33	45	66	40	31	20	22	14
16	29	29	38	45	32	43	64	43	30	20	20	13
17	29	29	37	45	32	43	66	43	28	20	18	14
18	29	31	36	45	32	44	63	43	29	20	19	14
19	32	31	35	45	33	44	60	41	28	19	18	14
20	41	31	35	44	31	43	60	40	27	18	19	14
21	41	31	39	43	40	41	63	39	28	18	19	13
22	41	31	37	43	61	41	64	39	28	18	17	13
23	36	31	44	43	46	41	63	40	28	18	17	13
24	35	31	38	43	40	41	60	39	27	18	17	13
25	35	30	40	41	38	40	59	39	27	17	18	12
26	34	30	41	41	37	39	57	39	27	17	17	12
27	38	29	38	41	37	39	57	38	26	17	17	13
28	38	29	45	43	36	39	59	38	25	17	17	13
29	37	30	130	41		39	57	37	25	17	18	13
30	36	32	86	40		39	53	36	24	16	18	12
31	34		72	40		38		35		16	18	
	1032	934	1383	1395	1038	1201	1827	1335	897	608	646	424
Mean	33.3	31.1	44.6	45.0	37.1	38.7	60.9	43.1	29.9	19.6	20.8	14.1
Acre-Feet	2050.	1850.	2740.	2770.	2060.	2380.	3620.	2650.	1780.	1210.	1280.	841.

Remarks:

Year or Period: Mean 34.9; Acre-Feet 25230.



STATION F250R

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

LOCATION:

On the left (east) side of the sandbox on Azusa Conduit, 12 feet above the 25 foot weir and approximately 100 feet below the 30 foot outlet tunnel at San Gabriel Dam No. 1; approximately 2500 feet below the Old Edison Intake (abandoned), and approximately 3900 feet above Station F220R.

CHANNEL AND CONTROL:

Channel-concrete sandbox with sluice gates and a concrete by-pass channel. A secondary box with a Taintor gate and a 10 foot weir controls the flow into the conduit.
Control-25 foot sharp crested weir with two end contractions.
Station F250R gives a record of the head on the 25 foot weir; Station F220R gives a record of the flow down the Azusa Conduit below the Taintor gate.

RECORDER:

Installed February 14, 1935, over a 24 inch corrugated iron pipe stilling well.
An Au continuous recorder was in service from October 1, 1941 to September 30, 1942.

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, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 112 second-feet, August 27. (Peak flow discharged to river.)
Minimum no flow at various times.
1935-1942
Maximum 155 second-feet, April 8, 1935.
Minimum no flow at times each year.

ACCURACY:

Excellent.

OPERATION:

Located, constructed and operated by the Los Angeles County Flood Control District in co-operation with the Pasadena Water Department.

REMARKS:

Station F250R is a record of discharges from San Gabriel Dam No. 1 through the sand box only and does not necessarily reflect discharge to the Azusa Conduit (see Station F220R).

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No F250R

Daily discharge, in second-feet of SAN GABRIEL - AZUSA CONDUIT at Weir below San Gabriel Dam # 1, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	58	91	82	85	68	30	74	51	50	50
2	0	0	58	91	82	79	68	30	65	51	50	50
3	0	0	58	90	82	66	68	30	65	51	50	50
4	0	0	58	90	82	66	81	30	65	51	50	50
5	0	0	67	90	77	66	88	30	65	51	50	50
6	0	0	77	90	72	66	88	59	65	51	50	50
7	0	0	77	90	72	66	88	45	65	51	50	50
8	0	0	77	90	72	66	88	45	62	51	50	50
9	0	0	77	90	72	66	88	45	60	51	50	50
10	0	0	77	90	72	66	88	45	61	51	56	49
11	0	0	85	90	69	68	86	45	61	51	50	49
12	0	0	90	90	67	72	83	50	61	51	50	49
13	0	0	90	90	67	72	83	54	61	50	50	49
14	0	0	90	90	67	78	83	61	61	50	51	49
15	0	0	90	90	67	90	83	65	61	50	49	48
16	0	0	90	90	67	90	57	65	61	50	48	49
17	0	0	90	90	62	90	30	65	61	50	49	50
18	0	0	90	90	60	90	30	70	61	51	50	50
19	0	0	90	90	60	90	31	74	61	51	50	49
20	0	0	90	90	60	90	31	74	61	51	50	50
21	0	29	90	90	60	90	31	74	61	51	50	50
22	0	58	90	90	81	90	30	74	61	51	50	50
23	0	58	90	90	92	85	30	74	61	51	50	49
24	0	58	90	90	90	75	30	73	61	50	50	47
25	0	58	90	90	90	75	30	76	61	50	51	137
26	0	58	90	90	64	75	30	80	61	51	51	0
27	0	58	90	90	85	75	30	80	60	51	89	0
28	0	58	90	85	85	75	30	80	60	51	74	0
29	0	58	90	81		75	30	79	61	51	50	0
30	0	58	91	82		71	30	79	58	51	50	0
31	0		91	82		68		79		50	50	
	0	551	2571	2762	2058	2376	1711	1860	1862	1573	1618	1200.7
Mean	0	18.4	82.9	89.1	73.5	76.6	57.0	60.0	62.1	50.7	52.2	40.0
Acre-Feet	0	1090.	5100.	5480.	4080.	4710.	3390.	3690.	3690.	3120.	3210.	2380.

Remarks:

Year or Period — Mean 55.19 — Acre-Feet 39940.

STATION F220R

SAN GABRIEL - AZUSA CONDUIT at Garcia Canyon

LOCATION:

On the west side of opening in concrete conduit connecting tunnels 4-A and 4-B of the Azusa Conduit which diverts water from the San Gabriel River. The station is about 3/4 mile below San Gabriel Dam No. 1 and 2 miles above Morris Dam.

CHANNEL AND CONTROL:

Station located on short open section of concrete channel.
Channel walls straightened on December 19, 1936.
The flow over the 25 foot weir (Station F250R) may be spilled before reaching Station F220R.
Flow which reaches Station F220R may not pass over, but may be by-passed around the 25 foot weir at Station F250R.

DISCHARGE MEASUREMENTS:

From top of tunnel portal.

RECORDER:

Installed February 26, 1933 over a 21 inch diameter corrugated iron pipe stilling well.
An H.C.F. continuous recorder was in service from October 1, 1941 to September 30, 1942.

RECORDS AVAILABLE:

February 26, 1933 to September 30, 1942.
(See "Recorder") (See Remarks)

EXTREMES OF DISCHARGE:

1941-1942
Maximum 91 second-feet, various days.
Minimum + at various times.
1933-1942
Maximum 100 second-feet, April 11, 1935.
Minimum not determined.

NOTE:

Maximum capacity of the conduit is approximately 90 second-feet.

ACCURACY:

Excellent.

OPERATION:

Located, constructed and operated by the Los Angeles County Flood Control District in co-operation with the Pasadena Water Department.

REMARKS:

The Azusa Conduit was inoperative from March 2, 1938 to March 27, 1940. Intake to the Azusa Conduit was at Morris Dam from March 1, 1941 to November 19, 1941. Published herewith are the records of diversion from Morris Reservoir. These records together with Station F220R complete the records of the annual diversion through the conduit.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F220-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL - AZUSA CONDUIT

AT Garcia Canyon DURING THE YEAR ENDING SEPTEMBER 30, 1942

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAN SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
224	12-12	1240P 110P	Cooper	4.6	19.3	4.69	4.18	90.7		.2 .8	10	0	FC 11
225	12-19	235P 300P	"	4.6	19.3	4.68	4.17	90.1		.2 .8	10	0	"
226	1-9	1148A 1212P	"	4.6	19.2	4.54	4.16	87.3		.2 .8	10	0	"
227	1-16	1115A 1140A	"	4.6	19.2	4.60	4.16	88.5		.2 .8	10	0	"
228	1-23	145P 210P	"	4.6	19.2	4.65	4.15	89.3		.2 .8	10	0	"
229	1-30	1120A 1150A	"	4.6	17.8	4.58	3.84	81.3		.2 .8	10	0	"
230	2-6	1115A 1140A	"	4.6	15.7	4.59	3.40	72.2		.2 .8	10	0	"
231	2-16	1005A 1030A	"	4.6	15.1	4.56	3.26	68.8		.2 .8	10	0	"
232	2-20	1105A 1135A	"	4.6	13.7	4.47	2.97	61.3		.2 .8	10	0	"
233	2-27	1100A 1130A	"	4.6	18.3	4.66	3.96	85.2		.2 .8	10	0	"
234	3-3	1155A 1230P	"	4.6	14.7	4.47	3.18	65.7		.2 .8	10	0	"
235	3-13	1105A 1135A	"	4.6	15.9	4.61	3.44	73.2		.2 .8	10	0	"
236	3-20	1120A 1155A	"	4.6	19.2	4.61	4.17	88.6		.2 .8	10	0	"
237	3-27	145P 215P	"	4.6	16.6	4.79	3.59	75.9		.2 .8	10	0	"
238	4-3	1158A 1228P	"	4.6	15.2	4.50	3.28	68.3		.2 .8	10	0	"
239	4-10	1120A 1150A	"	4.6	19.1	4.60	4.15	88.0		.2 .8	10	0	"
240	4-17	1110A 1130A	"	4.6	8.07	3.75	1.74	30.3		.6	10	0	"
241	4-17	1135A 1205P	"	4.6	8.07	3.82	1.74	30.8		.2 .8	10	0	"
242	4-24	1110A 1130A	"	4.6	7.92	3.81	1.71	30.2		.6	10	0	"
243	4-30	1045A 1056A	Cooper-Whisler	4.6	8.05	3.94	1.74	31.7		.6	10	0	"
244	5-7	1039A 1103A	"	4.6	11.0	4.14	2.37	45.4		.2 .8	.0	0	"
245	5-14	1024A 1044A	Brown	4.6	14.6	4.53	3.16	66.2		.2 .8	10	0	FC 32
246	5-22	1030A 1052A	Middleton	4.6	16.3	4.74	3.51	77.2		.2 .8	10	0	FC 36
247	5-28	950A 1010A	Brown	4.6	17.4	4.75	3.77	82.7		.2 .8	10	0	FC 32
248	6-4	207P 230P	Brown	4.6	14.6	4.57	3.17	66.7		.2 .8	10	0	FC 32
249	6-4	237P 300P	"	4.6	14.6	4.57	3.17	66.7		.2 .8	10	0	FC 11
250	6-11	940A 1002A	"	4.6	14.0	4.53	3.05	63.4		.2 .8	10	0	FC 32
251	6-18	925A 948A	"	4.6	13.9	4.53	3.03	63.0		.2 .8	10	0	"
252	6-25	957A 1020A	"	4.6	14.0	4.35	3.04	60.9		.2 .8	10	0	"
253	7-3	1045A 1115A	Cooper	4.6	12.2	4.20	2.66	50.6		.2 .8	10	0	FC 11
254	7-10	1135A 1205P	"	4.6	12.3	4.10	2.68	49.8		.2 .8	10	0	"
255	7-17	1130A 1200N	"	4.6	12.2	4.16	2.66	50.7		.2 .8	10	0	"
256	7-24	1240P 110P	"	4.6	12.5	4.10	2.70	51.3		.2 .8	10	0	"
257	7-31	1115A 1145A	"	4.6	12.5	3.95	2.71	49.3		.2 .8	10	0	"
258	8-7	125P 155P	"	4.6	12.5	3.98	2.72	49.8		.2 .8	10	0	"
259	8-14	155P 215P	"	4.6	12.5	4.06	2.70	50.8		.2 .8	10	0	"
260	8-20	951A 1015A	Brown	4.6	12.4	4.10	2.71	50.8		.2 .8	10	0	FC 32
261	8-27	1135A 1157A	"	4.6	13.5	4.18	2.93	56.4		.2 .8	10	0	"
262	8-28	1224P 1244P	"	4.6	12.4	4.07	2.70	50.5		.2 .8	10	0	"
263	9-4	1105A 1135A	Cooper	4.6	12.4	4.05	2.70	50.2		.2 .8	10	0	FC 11
264	9-11	1110A 1140A	"	4.6	12.3	3.95	2.67	48.5		.2 .8	10	0	"
265	9-22	400P 430P	"	4.6	12.4	3.98	2.70	49.3		.2 .8	10	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No F220-R

Daily discharge, in second-feet of SAN GABRIEL – AZUSA CONDUIT at Garcia Canyon, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	+	91	83	86	69	30	75	51	50	50
2	+	+	+	90	83	80	69	31	66	51	50	50
3	+	+	+	90	83	66	69	31	66	51	50	50
4	+	+	+	90	83	66	80	31	66	51	50	50
5	+	+	42	90	78	66	86	31	66	51	50	50
6	+	+	77	90	72	66	86	59	66	51	50	50
7	+	+	77	90	72	67	86	46	66	51	50	50
8	+	+	76	90	72	67	86	46	63	51	50	49
9	+	+	76	90	72	67	86	46	60	52	50	49
10	+	+	77	90	72	67	86	46	61	52	50	49
11	+	+	85	90	70	69	84	46	61	52	50	49
12	+	+	91	90	68	73	83	51	61	52	50	48
13	+	+	91	90	68	73	83	55	61	52	50	48
14	+	+	91	90	68	73	83	62	61	51	51	48
15	+	+	91	90	68	90	83	66	61	51	49	47
16	+	+	91	90	68	90	56	66	61	51	48	49
17	+	+	91	90	64	90	30	66	61	52	49	50
18	+	+	91	90	61	90	30	70	61	52	51	50
19	+	+	91	90	61	90	30	74	61	52	51	49
20	+	+	91	90	61	90	30	74	61	52	51	49
21	+	+	91	90	61	90	30	74	61	52	51	50
22	+	+	91	90	80	90	30	74	61	51	51	49
23	+	+	91	90	90	85	30	74	61	51	50	48
24	+	+	91	90	90	75	30	74	61	50	50	47
25	+	+	91	90	90	75	30	76	61	50	51	14.2
26	+	+	90	90	64	75	30	79	61	51	51	0.2
27	+	+	90	90	85	76	30	79	61	51	54	0.2
28	+	+	90	84	85	76	30	79	60	51	53	0.2
29	+	+	90	81		76	30	79	62	50	51	0.2
30	+	+	91	82		72	30	79	59	50	51	0.2
31	+		91	83		69		79		50	51	
	+	+	2326	2761	2072	2390	1695	1873	1873	1586	1564	1193.2
Mean	+	+	75.0	89.1	73.9	77.1	56.5	60.4	62.4	51.2	50.5	39.8
Acre-Feet	+	+	4610.	5480.	4110.	4740.	3360.	3720.	3720.	3150.	3100.	2370.

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

Year or Period Mean 53.0
Acre-Feet 38360.

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No

Daily discharge, in second-feet of SAN GABRIEL – AZUSA CONDUIT DIVERSION from storage at Morris Dam, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	69	87	0	0	0	0	0	0	0	0	0	0
2	69	86	0	0	0	0	0	0	0	0	0	0
3	68	84	0	0	0	0	0	0	0	0	0	0
4	67	74	0	0	0	0	0	0	0	0	0	0
5	67	56	0	0	0	0	0	0	0	0	0	0
6	69	39	0	0	0	0	0	0	0	0	0	0
7	70	42	0	0	0	0	0	0	0	0	0	0
8	71	60	0	0	0	0	0	0	0	0	0	0
9	71	84	0	0	0	0	0	0	0	0	0	0
10	70	76	0	0	0	0	0	0	0	0	0	0
11	70	67	0	0	0	0	0	0	0	0	0	0
12	70	58	0	0	0	0	0	0	0	0	0	0
13	70	48	0	0	0	0	0	0	0	0	0	0
14	70	34	0	0	0	0	0	0	0	0	0	0
15	70	23	0	0	0	0	0	0	0	0	0	0
16	70	14.6	0	0	0	0	0	0	0	0	0	0
17	70	39	0	0	0	0	0	0	0	0	0	0
18	70	0	0	0	0	0	0	0	0	0	0	0
19	70	0	0	0	0	0	0	0	0	0	0	0
20	71	0	0	0	0	0	0	0	0	0	0	0
21	71	0	0	0	0	0	0	0	0	0	0	0
22	70	0	0	0	0	0	0	0	0	0	0	0
23	70	0	0	0	0	0	0	0	0	0	0	0
24	70	0	0	0	0	0	0	0	0	0	0	0
25	70	0	0	0	0	0	0	0	0	0	0	0
26	70	0	0	0	0	0	0	0	0	0	0	0
27	70	0	0	0	0	0	0	0	0	0	0	0
28	78	0	0	0	0	0	0	0	0	0	0	0
29	88	0	0	0		0	0	0	0	0	0	0
30	88	0	0	0		0	0	0	0	0	0	0
31	88		0	0		0		0		0	0	
	2225	936.5	0	0	0	0	0	0	0	0	0	0
Mean	71.8	31.2	0	0	0	0	0	0	0	0	0	0
Acre-Feet	4410	1860	0	0	0	0	0	0	0	0	0	0

Remarks:

Year or Period Mean 8.66
Acre-Feet 6270

STATION S100A-R

SAN GABRIEL RIVER - AZUSA DUARTE TUNNEL DIVERSION
near Mouth of San Gabriel Canyon

LOCATION:

At weir box at the downstream portal of the Azusa Duarte Tunnel about 250 feet south of the canyon road at the mouth of San Gabriel Canyon.

GENERAL:

This station measures all flow diverted by the San Gabriel River Water Committee at the mouth of San Gabriel Canyon.

CHANNEL AND CONTROL:

Concrete weir box with two broad crested weirs. These weirs divide the flow between the east side spreading grounds and the Duarte spreading grounds. Either side can be diverted for irrigation.

REGULATION:

River flow at the Canyon mouth is partially regulated by Morris Dam and San Gabriel Dams Nos. 1 and 2. The division of the diverted flow can be regulated at the weirs by inserting constrictions.

RECORDS AVAILABLE:

The tunnel was constructed in 1887. Records of diversion since 1918 are available at the office of the San Gabriel River Water Committee, 124 West Foothill Boulevard, Azusa.

ACCURACY:

Excellent.

OPERATION:

Located, constructed and operated by the San Gabriel River Water Committee.

REMARKS:

These records were furnished by Mr. Morgan Pierce, Water Master of the San Gabriel River Water Committee. Published herewith are the records from October 1, 1941 to September 30, 1942. Records prior to October, 1939 were published with the records of Station F100R which was abandoned November, 1940.

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. S100A-R

Daily discharge, in second-feet of SAN GABRIEL – AZUSA DUARTE TUNNEL DIVERSION near Mouth of Canyon, for the year ending September 30, 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.2	4.0	53.2	5.2	2.7	3.0	2.0	1.7	1.2	1.2	1.2	1.0
2	3.0	4.0	53.2	4.8	2.6	3.0	2.0	1.5	1.2	1.2	1.2	1.0
3	3.0	4.0	54.6	4.6	2.6	3.0	2.0	1.5	1.2	1.9	1.2	1.0
4	3.0	3.6	53.8	4.3	2.6	2.7	2.7	1.5	1.2	1.9	1.2	1.0
5	3.0	3.1	42.7	4.1	2.4	2.5	2.9	1.5	1.2	1.2	1.2	1.0
6	3.0	3.0	6.3	4.1	2.4	2.3	4.3	1.5	1.2	1.2	1.2	1.0
7	3.0	2.8	4.0	3.8	2.4	2.0	5.0	1.4	1.2	1.2	1.2	1.0
8	3.0	2.9	3.6	3.8	2.3	1.9	5.0	1.3	1.2	1.2	1.2	1.0
9	2.9	2.9	3.6	3.8	2.3	1.9	5.0	1.2	1.2	1.2	1.2	1.0
10	2.9	2.9	8.0	3.8	2.0	1.9	5.7	1.2	1.2	1.2	1.2	0.9
11	2.9	2.9	5.2	3.8	2.0	2.4	5.7	1.2	1.2	1.2	1.2	0.9
12	3.0	2.9	4.1	3.8	2.0	2.4	4.6	1.2	1.2	1.2	1.2	0.9
13	2.9	26.8	4.1	3.8	2.0	2.0	3.4	1.1	1.2	1.2	1.2	0.9
14	3.2	58.0	4.1	3.8	2.0	3.1	3.2	1.0	1.2	1.2	1.2	0.9
15	3.6	58.8	4.3	3.8	2.0	4.8	3.2	1.0	1.2	1.2	1.2	0.9
16	3.6	58.8	4.3	3.8	2.0	4.8	3.2	1.0	1.2	1.2	1.2	0.9
17	3.6	61.0	4.3	3.8	2.0	5.5	3.2	1.0	1.2	1.2	1.0	0.9
18	3.6	65.0	4.6	3.8	2.0	5.7	1.6	1.0	1.2	1.2	1.0	0.9
19	3.8	65.0	4.6	3.8	2.0	6.0	0	1.0	1.2	1.2	1.0	0.9
20	3.8	65.0	4.3	3.8	2.0	6.0	0	1.0	1.2	1.2	1.3	0.9
21	4.0	65.8	4.1	3.8	2.4	6.0	0	1.0	1.2	1.2	1.1	0.9
22	3.8	61.8	3.8	4.1	3.0	6.0	0	1.0	1.2	1.2	1.0	0.9
23	3.0	53.4	4.3	4.1	3.2	6.0	0	1.0	1.2	1.2	1.0	1.5
24	3.4	53.4	4.1	4.1	4.6	4.3	0	1.0	1.2	1.2	1.0	10.5
25	3.5	53.4	4.1	4.1	5.2	3.0	0	1.0	1.2	1.2	1.0	17.3
26	3.6	53.0	4.3	4.1	5.4	2.7	0	1.2	1.2	1.2	1.0	28.2
27	3.8	53.2	3.8	4.1	3.7	2.5	1.8	1.2	1.2	1.2	1.0	29.6
28	4.0	53.2	4.6	4.1	3.0	2.4	2.5	1.2	1.2	1.2	1.0	28.2
29	3.8	53.2	8.7	3.4		2.3	2.0	1.2	1.2	1.2	1.0	22.0
30	3.8	53.2	6.3	3.0		2.0	1.7	1.2	1.2	1.2	1.0	22.0
31	3.8		5.7	2.9		2.0		1.2		1.2	1.0	
	104.5	1051.0	380.7	122.1	74.8	106.1	72.7	37.0	36.0	38.6	34.6	180.0
Mean	3.37	35.0	12.3	3.94	2.67	3.42	2.42	1.19	1.20	1.25	1.12	6.00
Acre-Feet	207	2080	755	242	148	210	144	73	71	77	69	357

Remarks:

Year or Period — Mean 6.13 — Acre-Feet 4430

STATION F190R

SAN GABRIEL RIVER at Foothill Boulevard

LOCATION:

On the downstream side of the bridge, about 2 miles west of Azusa.

DRAINAGE AREA:

230 square miles.

CHANNEL AND CONTROL:

West side of channel is a concrete wall. Bottom is composed of sand, gravel and boulders. East side of channel is a rock and wire levee. Channel work was performed February 18 to re-establish communication. 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, 1941 to September 30, 1942.

REGULATION:

Flow partially regulated by San Gabriel Dams No. 1 and No. 2, and Morris Dam.

DIVERSIONS:

Pasadena diverts water for power development. Water diverted for irrigation and spreading near mouth of San Gabriel Canyon.

RECORDS AVAILABLE:

Stream measurements starting February 22, 1932. Recorder records April 25, 1932 to September 30, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 345 second-feet, April 20.
Minimum no flow at various times.
1932-1942
Maximum 62000 second-feet, estimated, March 2, 1938.
Minimum no flow at times each year.

ACCURACY:

Fair.
Flows estimated till February 20 due to lack of communication with well, accuracy was good following this date.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F190-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT Foothill Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
270	10-2	300P 310P	Haig	0.7	0.20	1.00		0.20		.6	3		FC 33
271	10-9	205P 207P	"	0.3	0.03	0.33		0.01	Float		1		
272	10-16	1030A 1033A	"	0.6	0.16	0.93		0.14		"	2		
273	10-23	842A 844A	Haig-Mellon	0.7	0.31	1.16		0.37		.6	2		FC 33
274	12-10	1040A 1045A	Haig	6.0	3.65	0.63		2.3		.6	4		"
275	12-10	722P 735P	Haig-Keim	18.0	22.9	1.24		28.3		.6	10		"
276	12-11	138P 147P	Haig	6.0	2.94	1.68		5.0		.6	7		"
277	12-18	1205P 1212P	"	5.0	2.26	1.77		4.0		.6	8		"
278	12-26	230P 240P	"	8.0	4.28	1.67		7.2		.6	9		"
279	12-28	728P 735P	"	7.0	3.20	2.88		9.2		.6	6		"
280	12-29	217P 230P	" "	Two Channels				24.5		.6	13		FC 28
281	12-31	150P 158P	"	9.0	5.19	2.30		12.0		.6	8		FC 33
282	1-8	247P 255P	"	10.0	5.16	1.87		9.7		.6	8		"
283	1-15	336P 345P	"	9.0	4.75	1.93		9.2		.6	9		"
284	1-22	735A 740A	"	8.0	4.46	1.73		7.7		.6	7		"
285	1-29	1250P 1258P	"	9.0	4.83	1.74		8.4		.6	7		"
286	2-5	1250P 1256P	"	7.7	4.33	2.22		9.6		.6	9		"
287	2-11	1035A 1042A	"	7.5	3.82	1.52		5.8		.6	6		"
288	2-17	1105A 1115A	Haig-Johnson	8.5	3.65	1.78		6.5		.6	9		"
289	2-18	1224P 1235P	Haig	Two Channels			5.38	6.6		.6	9		"
290	2-21	218P 225P	"	" "			5.41	6.8		.6	9		"
291	2-22	140P 150P	"	12.0	5.69	1.51	5.47	8.6		.6	8		"
292	2-26	1210P 1216P	"	12.0	4.07	0.86	5.30	3.5		.6	7		"
293	3-5	350P 400P	"	11.0	4.57	1.23	5.36	5.6		.6	7		"
294	3-12	100P 106P	Haig	11.0	4.70	1.24	5.36	5.8		.6	7		FC 33
295	3-14	406P 418P	"	12.0	5.92	1.62	5.47	9.6		.6	7		"
296	3-15	400P 406P	"	11.3	4.45	1.35	5.42	6.0		.6	6		"
297	3-19	150P 156P	"	12.5	5.24	1.15	5.39	6.0		.6	7		"
298	3-26	1042A 1048A	"	11.5	4.84	1.23	5.39	6.0		.6	7		"
299	4-2	1015A 1021A	"	12.0	4.37	1.03	5.33	4.5		.6	7		"
300	4-9	148P 155P	"	11.8	5.58	1.09	5.39	6.1		.6	7		"
301	4-12	135P 145P	"	11.3	4.11	1.36	5.38	5.6		.6	8		"
302	4-16	1218P 1225P	"	11.9	4.86	1.21	5.39	5.9		.6	9		"
303	4-20	734A 738A	"	11.0	2.05	0.54	5.14	1.1		.6	6		"
304	4-20	150P 206P	"	29.0	45.6	2.48	6.34	113.		.6	13		"
305	4-20	736P 758P	Haig-Ingram	100.0	158.	2.11	6.95	333.		.6	18		"
306	4-22	950A 1018A	Haig	101.0	146.	2.13	6.97	310.		.6	19		"
307	4-23	1033A 1058A	"	99.0	151.	2.15	6.98	324.		.6	18		"
308	4-24	935A 1004A	"	94.5	163.	1.86	6.95	303.		.6	19		"
309	4-25	718A 740A	"	96.0	145.	2.06	6.92	298.		.6	18		"
310	4-25	1118A 1128A	"	16.0	15.8	2.27	5.75	35.9		.6	9		"
311	4-25	1222P 1232P	"	15.5	14.2	1.77	5.55	25.2		.6	9		"
312	4-30	1220P 1226P	"	7.0	2.89	0.52	4.82	1.5		.6	6		"
313	8-12	1210P 1220P	"	3.5	1.30	0.38	4.64	0.50		.6	4		"
314	8-19	930A 935A	"	1.7	0.34	0.21	4.50	0.07		.6	3		"
315	9-10	1140A 1142A	"	2.0	0.34	0.15	4.47	0.05	Float		1		
316	9-17	205P 209P	"	2.0	0.60	0.32	4.56	0.19		.6	3		FC 33

F.C. Dist. Form 52 3-41

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 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	E 0.1	E 0	E 0	E 8	E 9	6	4.5	1.2	0	0	0	1.0
2	0.2	0	0	7	9	6	E 4.5	0.3	0	0	0	0.6
3	0.2	0	0.2	7.5	9.5	5.5	E 4.5	0.2	0	0	0	0
4	0.2	0	0.4	8	9.5	6	E 4.8	0	0	0	0	1.4
5	0.1	0	0.3	8.5	9.5	6	E 5	0	0	0	0	1.3
6	0.1	0	0.2	9	9	6	E 5.5	0.3	0	0	0	3.3
7	0.1	0	0.1	9	8.5	5.5	E 5.5	0	0	0	0	1.3
8	+	0	0.1	9.5	8	5.5	E 6	0	0	0	0	1.3
9	+	0	0.2	9	7	5.5	E 6	0	0	0	0	0
10	+	0	2.0	9	6.5	4.8	6	0	0	0	0	0.6
11	+	0	1.2	9	6	5	6	0	0	0	0.6	0.8
12	0.2	0.1	0.6	9	6	6	5.5	0	0	0	1.2	1.2
13	0.2	0	0.5	9	6	5.5	6	0	0	0	0.9	3.0
14	0.1	0	0.4	9	6	7	6.5	0	0	0	0.8	1.1
15	0.1	0	0.3	9	6.5	8	6.5	0	0	0	2.3	1.0
16	0.1	0	0.1	9	6.5	7	4.9	0	0	0	2.2	1.1
17	0.1	0	0.1	9	6.5	6.5	2.8	0	0	0	0.7	1.4
18	0.1	0	0.1	8.5	E 6.5	6	2.3	0	0	0	0.4	1.8
19	0.2	0	0.1	9.5	6.5	6	1.3	0	0	0	0.3	1.8
20	0.4	0	0.1	7.5	6	6	1.3		0	0	0	2.7
21	0.3	0	0.1	7.5	6.5	6	1.5	0	0	0	0	1.0
22	0.6	0	0.1	7.5	9.5	6.5	2.87	0	0	0	0.2	0.9
23	0.4	0	0.5	7.5	7	6.5	3.12	0	0	0	1.3	1.0
24	0.3	0	0.3	7.5	7	6.5	3.08	0	0	0	0	0
25	0.2	0	0.2	8	7	6	1.21	0	0	0	0	1.0
26	0.2	0	0.6	8	4.6	6	2.2	0	0	0	0	0
27	0.3	0	0.5	8.5	7	5	2.1	0	0	0	0	0
28	0.2	0	1.0	8.5	6.5	5.5	2.1	0	0	0	0	0
29	0.1	0	1.5	8.5		5.5	1.6	0	0	0	0.1	0
30	0	E 0	1.0	8.5		4.8	1.5	0	0	0	2.0	0
31	E 0		E 8	E 8.5		4.8		0		0	0.8	
	5.1	0.1	29.8	260.5	203.1	182.9	1285.6	2.0	0	0	13.8	30.6
Mean	0.16	+	0.96	8.40	7.25	5.90	42.9	0.06	0	0	0.45	1.02
Acre-Feet	10.	0.20	59.	517.	403.	363.	2550.	4.0	0	0	27.	61.

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

Year or Period: Mean 5.52; Acre-Feet 3990.

STATION F261B-R

SAN GABRIEL RIVER at Valley Boulevard

LOCATION:

On the right (west) abutment on the downstream side of the highway bridge about 1¾ miles southeast of El Monte.

DRAINAGE AREA:

Not determined.

CHANNEL AND CONTROL:

Shifting sand and gravel. Banks protected by piling and wire mesh.
Channel forms control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from Highway Bridge.

RECORDER:

Installed March 11, 1937 over a 21 inch diameter corrugated iron pipe well. A horizontal Lietz recorder was in service from January 26, 1942 to September 22, 1942.
A Horizontal Rational recorder was in service from September 22, 1942 to September 30, 1942.

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. Santa Fe Dam was under construction during this period but no regulation was affected. Spreading flows during April were diverted to the Rio Hondo by a temporary levee above Santa Fe Dam.

DIVERSIONS:

Water diverted for irrigation and spreading.
Pasadena diverts water for power development.

RECORDS AVAILABLE:

Station F261-R
March 11, 1937 to September 30, 1941.
Station F261B-R
October 1, 1941 to September 30, 1942.

EXTREMES OF DISCHARGE:

Maximum not determined.
Minimum no flow part of year.

ACCURACY:

Fair.
All flow was interpolated between measurements as flow was constant rising water. Recorder record was unreliable for low flows due to work in channel. Recorder showed no storm flows.

OPERATION:

Located and operated by the Los Angeles County Flood Control District in co-operation with the San Gabriel Valley Protective Association.

REMARKS:

Station established primarily to determine percolation losses in the main San Gabriel Basin..

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

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, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1	1-29	320P 330P	Brewster	10.0	3.60	1.11	1.40	4.0		.6	5	0	FC 12
2	2-5	250P 300P	"	10.0	3.60	0.97	1.41	3.5		.6	5	0	"
3	2-13	1210P 1220P	"	10.0	3.32	1.14	1.40	3.8		.6	5	0	"
4	2-19	325P 335P	"	10.0	3.36	1.04	1.40	3.5		.6	5	0	"
5	2-26	250P 300P	"	9.0	3.14	1.15	1.42	3.6		.6	5	0	"
6	3-5	227P 235P	"	9.0	3.13	1.05	1.42	3.3		.6	5	0	"
7	3-12	330P 340P	"	10.0	5.40	0.61	1.90	3.3		.6	5	0	"
8	3-19	250P 300P	"	7.0	3.69	0.92	1.88	3.4		.6	4	0	"
9	3-26	315P 325P	"	8.0	3.60	0.89	1.86	3.2		.6	4	0	"
10	4-2	320P 330P	"	9.0	3.96	0.83	1.87	3.3		.6	5	0	"
11	4-9	350P 400P	"	6.5	3.26	0.98	1.87	3.2		.6	5	0	"
12	4-16	330P 340P	"	9.0	3.37	0.92	1.87	3.1		.6	5	0	"
13	4-23	320P 330P	"	8.0	2.34	1.28	2.09	3.0		.6	5	0	"
14	4-30	405P 415P	"	8.0	2.16	1.39	1.85	3.0		.6	4	0	"
15	5-7	420P 430P	"	8.5	2.74	1.06	1.92	2.9		.6	5	0	"
16	5-14	430P 440P	"	10.0	2.97	0.94	1.70	2.8		.6	5	0	"
17	5-21	500P 510P	"	5.0	1.50	1.53	1.82	2.3		.6	4	0	"
18	5-28	449P 455P	"	9.0	1.95	1.03	1.74	2.0		.6	5	0	"
19	6-4	320P 328P	"	4.0	0.80	0.86	1.80	0.69		.6	4	0	"
20	6-11	410P 416P	"	4.0	0.72	0.71	1.80	0.51		.6	4	0	"
21	6-18	406P 412P	"	4.0	0.68	0.74	1.78	0.50		.6	4	0	"
22	6-25	424P 430P	"	3.0	0.46	0.72	1.77	0.33		.6	3	0	"
23	7-2	350P 355P	"	3.0	0.48	0.52	1.77	0.25		.6	3	0	"
24	7-9	240P 245P	"	3.0	0.46	0.57	1.78	0.26		.6	3	0	"
25	7-16	315P 318P	Brewster	0.5	0.12	1.08	1.77	0.13		.6	1	0	FC 12
26	7-23	240P 243P	"	0.5	0.12	0.75	1.67	0.09		.6	1	0	"
27	7-30	312P 315P	"	0.5	0.12	0.42	1.67	0.05		.6	1	0	"
28	8-6	236P 240P	Brewster-Haig	0.5	0.11	0.18	1.72	0.02		.6	1	0	"
29	8-13	125P 130P	Haig	0.5	0.05	0.10	1.63	0.00	Float		1	0	

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F261B-R

Daily discharge, in second-feet of SAN GABRIEL RIVER at Valley Boulevard, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.5	2.8	2.9	3.7	3.8	3.5	3.3	3.0	1.3	0.2	0.1	0
2	2.5	2.8	2.9	3.7	3.7	3.4	3.3	3.0	1.1	0.2	0.1	0
3	2.5	2.8	2.9	3.7	3.6	3.4	3.3	3.0	0.9	0.2	0.1	0
4	2.5	2.8	3.0	3.7	3.6	3.3	3.3	2.9	0.7	0.2	+	0
5	2.5	2.8	3.0	3.7	3.5	3.3	3.3	2.9	0.7	0.2	+	0
6	2.5	2.8	3.0	3.8	3.5	3.3	3.2	2.9	0.6	0.3	+	0
7	2.5	2.8	3.0	3.8	3.6	3.3	3.2	2.9	0.6	0.3	+	0
8	2.5	2.8	3.1	3.8	3.6	3.3	3.2	2.9	0.6	0.3	+	0
9	2.5	2.8	3.1	3.8	3.6	3.3	3.2	2.9	0.6	0.3	+	0
10	2.5	2.8	3.1	3.8	3.7	3.3	3.2	2.9	0.5	0.3	+	0
11	2.5	2.8	3.2	3.8	3.7	3.3	3.2	2.8	0.5	0.2	+	0
12	2.5	2.8	3.2	3.8	3.8	3.3	3.2	2.8	0.5	0.2	+	0
13	2.5	2.8	3.2	3.9	3.8	3.3	3.1	2.8	0.5	0.2	+	0
14	2.6	2.8	3.2	3.9	3.8	3.3	3.1	2.8	0.5	0.2	+	0
15	2.6	2.8	3.3	3.9	3.7	3.3	3.1	2.7	0.5	0.1	+	0
16	2.7	2.8	3.3	3.9	3.7	3.4	3.1	2.7	0.5	0.1	0	0
17	2.7	2.8	3.3	3.9	3.6	3.4	3.1	2.6	0.5	0.1	0	0
18	2.7	2.8	3.4	3.9	3.6	3.4	3.1	2.5	0.5	0.1	0	0
19	2.7	2.8	3.4	3.9	3.5	3.4	3.1	2.4	0.5	0.1	0	0
20	2.7	2.8	3.4	4.0	3.5	3.4	3.0	2.3	0.4	0.1	0	0
21	2.8	2.8	3.4	4.0	3.5	3.4	3.0	2.3	0.4	0.1	0	0
22	2.8	2.8	3.5	4.0	3.5	3.3	3.0	2.3	0.4	0.1	0	0
23	2.8	2.8	3.5	4.0	3.6	3.3	3.0	2.2	0.4	0.1	0	0
24	2.8	2.8	3.5	4.0	3.6	3.3	3.0	2.2	0.3	0.1	0	0
25	2.8	2.8	3.6	4.0	3.6	3.2	3.0	2.1	0.3	0.1	0	0
26	2.8	2.8	3.6	4.0	3.6	3.2	3.0	2.1	0.3	0.1	0	0
27	2.8	2.8	3.6	4.0	3.6	3.2	3.0	2.0	0.3	0.1	0	0
28	2.8	2.8	3.6	4.0	3.5	3.2	3.0	2.0	0.3	0.1	0	0
29	2.8	2.8	3.6	4.0		3.2	3.0	1.8	0.2	0.1	0	0
30	2.8	2.8	3.7	3.9		3.3	3.0	1.6	0.2	0.1	0	0
31	2.8		3.7	3.9		3.3		1.5		0.1	0	
	82.0	84.0	102.2	120.2	101.4	102.8	93.6	77.8	15.6	5.0	0.3	0
Mean	2.65	2.80	3.30	3.88	3.62	3.32	3.12	2.51	0.52	0.16	0.01	0
Acre-Feet	163.	167.	203.	238.	201.	204.	186.	154.	31.	9.9	0.60	0

Remarks: See accuracy.

Year or Period Mean 2.15
Acre-Feet 1560.

STATION F263R

SAN GABRIEL RIVER at Beverly Boulevard

LOCATION:

On the downstream side of the Beverly Boulevard bridge approximately ¼ mile northeast of Pico.

DRAINAGE AREA:

Not determined.

CHANNEL AND CONTROL:

Channel-sand and silt.
No artificial control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from cable car 145 feet above station.

RECORDER:

Installed on February 4, 1937 over a 21 inch diameter corrugated iron pipe stilling well. An Au continuous recorder was in service from October 1, 1941 to September 30, 1942.

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. Santa Fe Dam was under construction during this period but no regulation was affected. Spreading flows during April were diverted to the Rio Hondo by a temporary levee above Santa Fe Dam.

DIVERSIONS:

The City of Pasadena diverts water from the San Gabriel River for power development. There are also several diversions for irrigation and spreading.

RECORDS AVAILABLE:

February 4, 1937 to September 30, 1942. (For records prior to February 4, 1937 see Station F63R, San Gabriel River at Whittier Boulevard in previous reports. For records prior to 1929 see State Division of Water Rights Bulletins V and VI.)

EXTREMES OF DISCHARGE:

1941-1942
Maximum 412 second-feet, December 10.
Minimum no flow part of year.
1936-1942
Maximum 22700 second-feet, estimated, March 2, 1938.
Minimum no flow at various times. (For earlier years see Station F63R.)

ACCURACY:

Fair.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F263-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT Beverly Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
282	10-2	100P 120P	Brewster	Two Channels			4.43	17.5		.6	11	0	FC 12
283	10-9	1210P 1228P	"	" "			4.44	14.8		.6	10	0	"
284	10-16	150P 202P	"	" "			4.34	4.6		.6	7	0	"
285	10-23	108P 130P	"	" "			4.68	58.6		.6	13	-.01	"
286	10-30	120P 150P	"	" "			4.60	61.4		.6	13	0	"
287	11-6	150P 210P	"	" "			4.55	57.7		.6	12	0	"
288	11-13	130P 150P	"	82.0	39.0	1.50	4.57	58.4		.6	9	0	"
289	11-21	145P 205P	"	Two Channels			4.55	62.1		.6	10	0	"
290	11-27	1240P 100P	"	" "			4.51	53.1		.6	11	0	"
291	12-4	110P 130P	"	" "			4.50	53.8		.6	11	0	"
292	12-11	1255P 115P	"	80.0	63.0	1.52	4.60	95.8		.6	9	0	"
293	12-18	1220P 1250P	"	Two Channels			4.51	79.7		.6	11	0	"
294	12-26	115P 145P	"	" "			4.52	70.2		.6	12	0	"
295	12-29	318P 340P	"	" "			4.72	99.0		.6	12	0	"
296	1-2	200P 230P	"	76.0	45.4	1.84	4.50	83.5		.6	8	0	"
297	1-8	100P 120P	"	72.0	48.4	1.79	4.48	86.7		.6	8	0	"
298	1-15	1216P 1240P	"	Two Channels			4.45	80.4		.6	12	0	"
299	1-22	1210P 1230P	"	96.0	49.0	1.67	4.45	81.6		.6	10	0	"
300	1-29	1208P 1228P	"	Two Channels			4.36	85.2		.6	12	0	"
301	2-5	1211P 1232P	"	" "			4.33	75.5		.6	12	0	"
302	2-13	240P 300P	"	" "			4.29	70.8		.6	12	0	"
303	2-19	1220P 1240P	"	" "			4.31	71.3		.6	11	0	"
304	2-26	1203P 1225P	"	" "			4.29	75.0		.6	11	0	"
305	3-5	1130A 1145A	"	" "			4,30	75.0		.6	12	0	"
306	3-12	1135A 1155A	Brewster	Two Channels			4.27	65.0		.6	12	0	FC 12
307	3-19	1205P 1230P	"	" "			4.30	78.2		.6	12	0	"
308	3-26	1220P 1240P	"	71.0	41.6	1.77	4.25	73.6		.6	8	0	"
309	4-2	1202P 1224P	"	Two Channels			4.18	55.8		.6	12	0	"
310	4-9	1215P 1235P	"	" "			4.16	53.4		.6	11	0	"
311	4-16	1230P 100P	"	" "			4.20	64.0		.6	12	0	"
312	4-23	1220P 1240P	"	81.0	38.8	1.52	4.20	58.8		.6	9	0	"
313	4-30	1250P 110P	"	74.0	35.6	1.63	4.12	57.9		.6	8	0	"
314	5-7	115P 135P	"	Two Channels			3.79	21.3		.6	9	0	"
315	5-14	100P 120P	"	" "			3.77	19.9		.6	10	0	"
316	5-21	130P 150P	"	" "			3.52	9.1		.6	8	0	"
317	5-28	130P 140P	"	8.0	2.08	0.96	3.56	2.0		.6	4	0	"
318	6-11	1230P 1240P	"	12.0	2.98	1.07	3.58	3.2		.6	4	0	"
319	6-18	120P 130P	"	16.0	4.14	1.11	3.59	4.6		.6	5	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

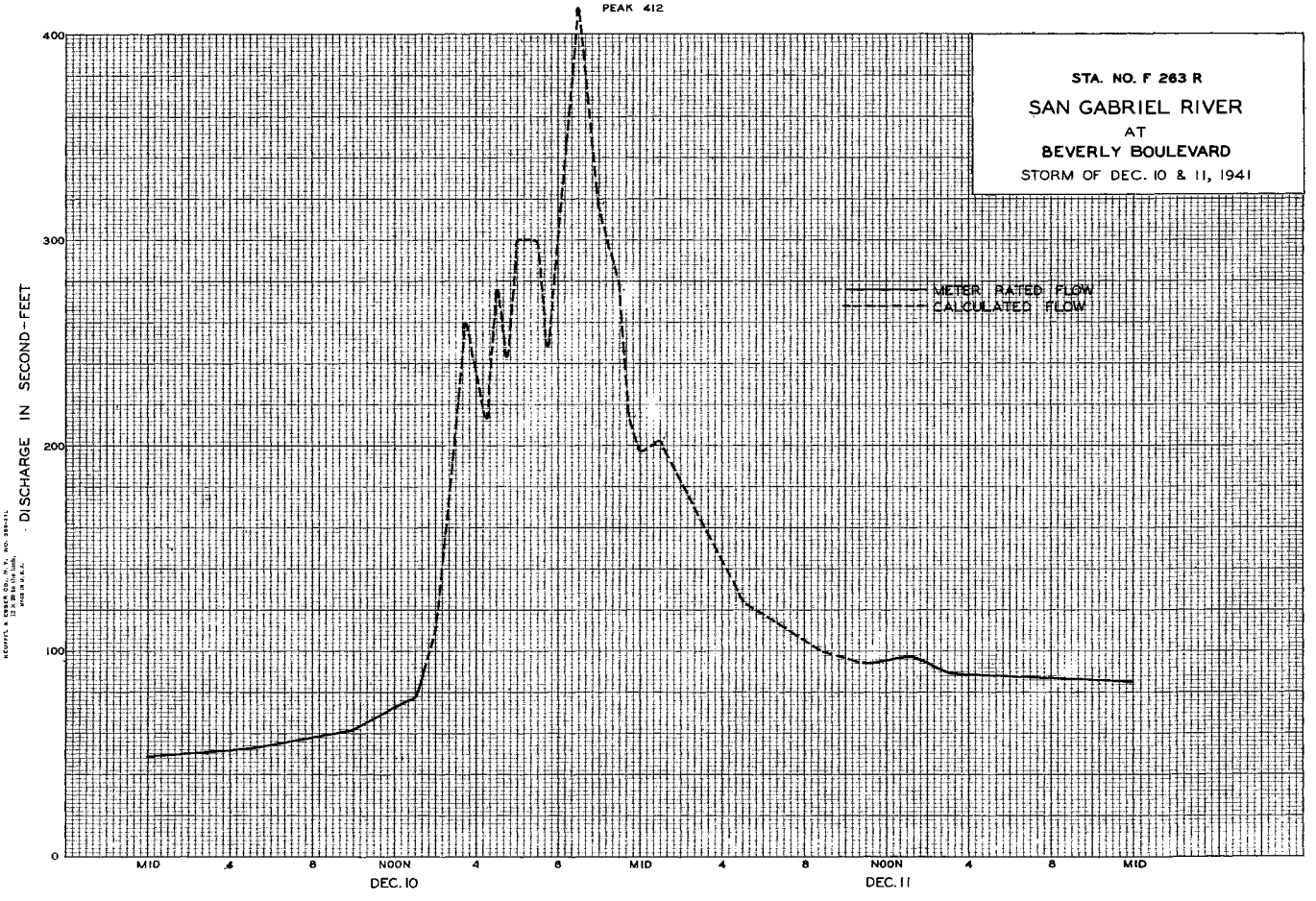
Sta. No F263-R

Daily discharge, in second-feet of SAN GABRIEL RIVER at Beverly Boulevard, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	21	64	50	83	83	78	58	57	0.3	0	0	0
2	18	62	49	83	75	80	56	56	+	0	0	0
3	13	62	55	85	74	78	56	53	1.0	0	0	0
4	13	62	53	85	75	75	58	51	1.2	0.2	0	0
5	15	62	50	86	75	75	58	47	0	0.6	0	0
6	13	60	50	86	72	75	58	45	+	0.3	0	0
7	13	60	47	88	72	75	58	31	0.3	0	0	0
8	15	58	49	86	72	71	57	23	0.2	+	0	0
9	14	55	47	85	71	72	55	23	0.2	+	0	0
10	14	52	149	85	71	71	59	21	0.6	+	0	0
11	13	55	111	83	68	71	71	20	7.5	0	0	0
12	13	57	85	80	71	66	66	20	8.5	0	0	0
13	13	57	85	80	71	63	63	21	6	0	0	0
14	14	58	85	81	74	79	71	20	6.5	0	0	0
15	8	57	85	80	71	96	67	20	5	0	0	0
16	5.5	60	85	80	75	86	63	20	4.7	0	0	0
17	7.5	58	87	80	74	86	67	23	3.7	0	0	0
18	8.5	58	82	80	72	83	63	15	3.7	0	0	0
19	11	60	78	81	71	78	60	9.5	3.7	0	0	0
20	13	60	79	81	71	78	59	11	5.5	0	0	0
21	25	62	76	77	83	77	57	11	7	0	0	0
22	50	58	76	80	93	77	60	11	6.5	0	0	0
23	57	58	71	83	86	77	57	3.2	4.8	0	0	0
24	52	53	64	81	81	75	56	2.0	3.2	0	0	0
25	53	50	66	86	79	75	56	0	0.4	0	0	0
26	55	52	71	90	77	74	57	2.3	0	0	0	0
27	55	52	66	90	85	72	57	9	0	0	0	0
28	57	52	71	85	81	66	57	0.3	2.6	0	0	0
29	60	52	114	86		63	57	0.2	1.1	0	0	0
30	62	52	97	88		62	58	0.2	0	0	0	0
31	60		95	86		60		0.2		0	0	
	846.5	1718	2327	2595	2122	2314	1795	625.9	84.2	1.3	0	0
Mean	27.3	57.3	75.1	83.7	75.8	74.6	59.8	20.2	2.81	0.04	0	0
Acre-Feet	1680.	3410.	4620.	5150.	4210.	4590.	3560.	1240.	167.	2.6	0	0

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

Year or Period — Mean 39.5 — Acre-Feet 28630.



STATION F262R

SAN GABRIEL RIVER at Florence Avenue

LOCATION:

On the downstream side of the Florence Avenue (formerly Easy Street) bridge about 2 miles east of Downey.

DRAINAGE AREA:

Not determined.

CHANNEL AND CONTROL:

Shifting sand bottom between earth levees. No artificial control.

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed on February 27, 1937 over an 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, 1941 to September 30, 1942.

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. Santa Fe Dam was under construction during this period but no regulation was affected. Spreading flows during April were diverted to the Rio Hondo by a temporary levee above Santa Fe Dam.

DIVERSIONS:

The City of Pasadena diverts water from the San Gabriel River. There are also several diversions for irrigation and spreading. Variable quantities of irrigation waste returns are recorded at the station.

RECORDS AVAILABLE:

February 27, 1937 to September 30, 1942. Recorder record lost from August 19, 1938 to November 23, 1938 due to theft of recorder. For earlier records see Station F237R, San Gabriel River at Telegraph Road.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 413 second-feet, December 10.
Minimum no flow at various times.
1937-1942
Maximum not determined, March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Poor.
Frequently estimated by comparison due to extreme control shifts or loss of communication.

OPERATION:

Located and constructed by the Los Angeles County Flood Control District; and operated in co-operation with the San Gabriel Valley Protective Association.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F262-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT ~~NEAR~~ Florence Avenue DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
217	11-6	332P 348P	Bonadiman	27.5	8.12	0.71	2.72	5.8		.6	7	0	FC 19
218	11-12	217P 245P	"	Three Channels			2.80	12.2		.6	17		"
219	11-13	352P 420P	"	"	"		2.80	11.6		.6	18		"
220	11-19	321P 336P	"	13.0	6.99	1.12	2.62	7.8		.6	6	0	"
221	11-27	352P 400P	"	17.0	6.41	1.01	2.52	6.5		.6	4	0	"
222	12-4	217P 225P	"	13.0	16.9	0.82	2.58	13.9		.6	4	0	"
223	12-10	338P 405P	Koch-Andrews	Two Channels			3.03	126.		.6	18		FC 43
224	12-10	915P 958P	"	"	"		3.21	368.	Surf.	.6	14		"
225	12-11	827A 840A	Bonadiman-Walton	Three Channels			2.77	132.		.6	12		FC 19
226	12-18	324P 350P	Bonadiman	"	"		2.70	35.5		.6	16		"
227	12-26	152P 222P	Bonadiman-Walton	"	"		2.79	47.3		.6	20		"
228	12-30	701A 730A	Walton-Bonadiman	Four Channels			2.95	112.		.6	13		"
229	12-31	354P 415P	"	Three Channels			2.86	58.0		.6	14		"
230	1-8	306P 338P	Bonadiman	Two Channels			2.97	43.4		.6	18		"
231	1-15	335P 358P	"	90.0	35.2	1.19	2.90	42.0		.6	15	0	"
232	1-22	350P 412P	"	91.0	33.7	1.20	2.87	40.4	Float	11	0		
233	1-29	442P 456P	"	40.0	23.9	1.32	2.69	31.7		.6	10	+.02	FC 19
234	2-3	1130A 1145A	Bonadiman-Ingram	58.0	30.9	1.37	2.67	42.2		.6	13	0	FC 2
235	2-5	1010A 1030A	Bonadiman	59.0	35.5	1.28	2.79	45.4		.6	17	0	FC 19
236	2-11	1014A 1030A	"	60.0	29.5	1.04	2.76	30.7		.6	14	0	"
237	2-19	1030A 1058A	"	59.0	31.8	0.96	2.86	30.6		.6	19	0	"
238	2-26	1020A 1046A	"	Three Channels			2.80	41.4		.6	17		"
239	3-5	1027A 1055A	"	72.0	30.9	1.33	2.76	41.1		.6	15	0	"
240	3-12	1032A 1100A	"	Three Channels			2.92	44.3		.6	24		"
241	3-15	902A 935A	Bonadiman-Walton	Three Channels			2.98	93.6		.6	29		FC 19
242	3-19	830A 900A	Bonadiman	"	"		2.87	45.1		.6	18		"
243	3-26	1001A 1040A	"	"	"		2.89	35.6		.6	27		"
244	4-2	1001A 1027A	"	"	"		2.87	18.4		.6	22		"
245	4-9	1003A 1029A	"	"	"		2.90	33.8		.6	17		"
246	4-16	1041A 1106A	"	Two Channels			2.97	49.3		.6	22		"
247	4-23	1002A 1025A	"	56.0	40.0	1.41	2.97	56.4		.6	13	+.02	"
248	4-30	1012A 1030A	"	47.0	28.0	1.44	2.86	40.2		.6	12	0	"
249	5-7	1023A 1032A	"	26.0	8.03	0.82	2.80	6.6		.6	6	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

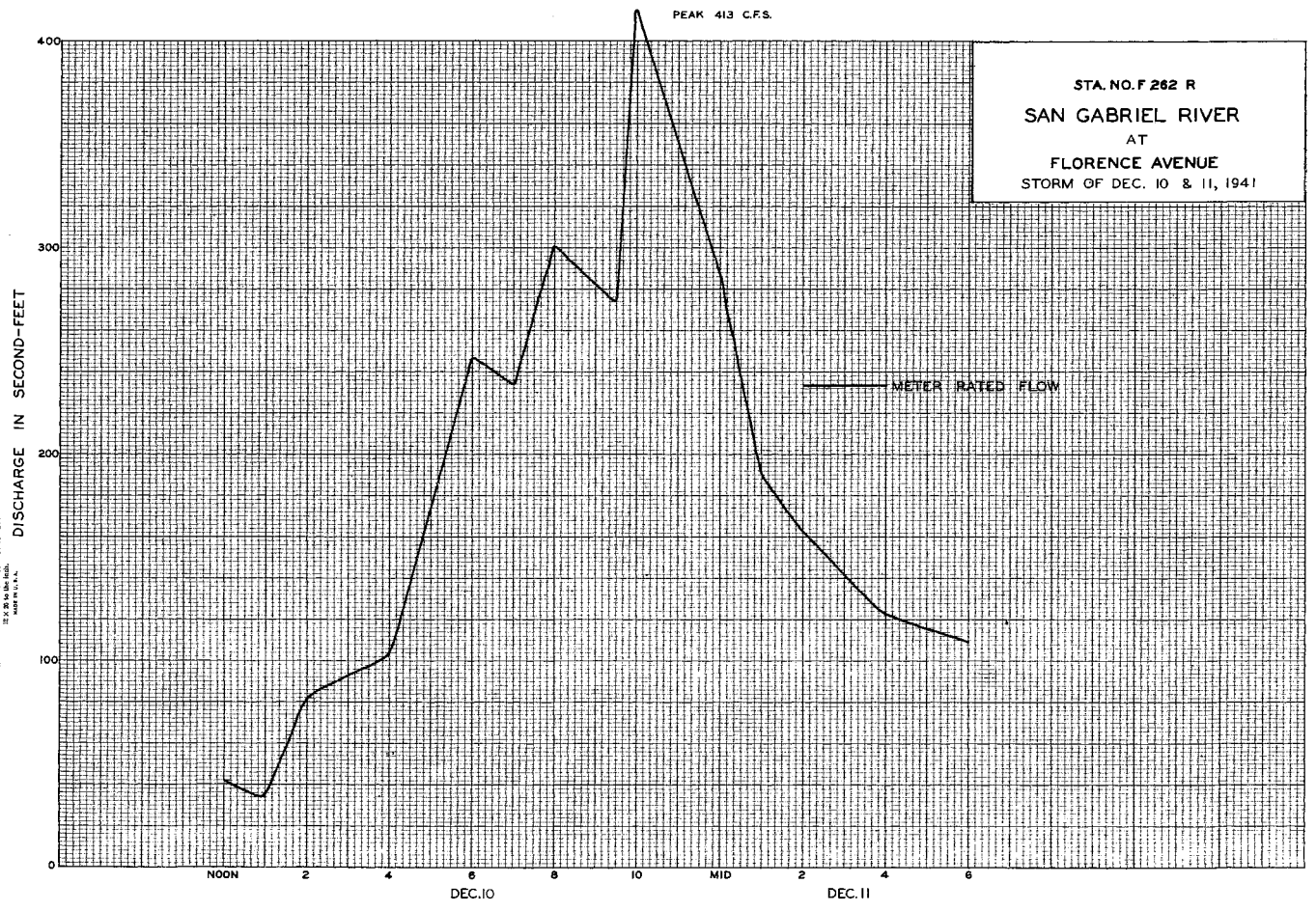
Sta. No. F262-R

Daily discharge, in second-feet of SAN GABRIEL RIVER at Florence Avenue for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	4.2	10	E 49	52	34	E 18	34	0	0	0	0
2	0	6.5	5.5	46	46	46	13	27	0	0	0	0
3	0	4.6	14	27	43	46	21	18	0	0	0	0
4	0	6	17	43	40	E 34	24	24	0	0	0	0
5	0	5.5	11	31	37	46	20	18	0	0	0	0
6	0	6.5	9.5	34	31	58	23	11	0	0	0	0
7	0	8	14	24	34	52	21	6.5	0	0	0	0
8	0	7	14	43	43	52	23	8	0	0	0	0
9	0	9.5	23	40	37	52	27	6.5	0	0	0	0
10	+	9	117	37	27	49	40	7	0	0	0	0
11	0	6.5	94	34	37	52	55	+	0	0	0	0
12	0	12	E 52	49	52	34	46	0	0	0	0	0
13	0	12	E 46	52	40	31	46	0	0	0	0	0
14	0	14	E 43	40	43	71	55	+	0	0	0	0
15	0	13	43	43	46	90	52	0	0	0	0	0
16	0	20	52	46	37	71	49	0	0	0	0	0
17	0	17	46	49	27	77	49	0	0	0	0	0
18	0	12	31	40	28	58	37	0	0	0	0	0
19	0	8	34	E 40	25	49	43	0	0	0	0	0
20	0	4.6	40	E 40	25	46	46	0	0	0	0	0
21	0	7	31	E 40	55	43	55	0	0	0	0	0
22	0	5.5	43	40	90	49	58	0	0	0	0	0
23	0	9	49	40	58	40	55	0	0	0	0	0
24	0	E 6.5	43	E 56	58	37	43	0	0	0	0	0
25	0	E 6.5	43	E 70	37	37	40	0	0	0	0	0
26	0	E 6.5	52	E 76	28	31	49	0	0	0	0	0
27	0	E 7	25	E 78	20	23	37	0	0	0	0	0
28	0	9.5	40	E 70	37	23	43	0	0	0	0	0
29	0	9.5	109	E 56		E 25	43	0	0	0	0	0
30	+	11	96	40		E 20	43	0	0	0	0	0
31	+		52	46		E 16		0		0	0	
	+	263.9	1299.0	1419	1133	1392	1174	160.0	0	0	0	0
Mean	+	8.80	41.9	45.8	40.5	44.9	39.1	5.16	0	0	0	0
Acre-Feet	+	523.	2580.	2810.	2250.	2760.	2330.	317.	0	0	0	0

Remarks: + = 0.05 c.f.s. or less.
E = Estimated or interpolated.

Year or Period — Mean 18.7 — Acre-Feet 13570.



STATION F42R

SAN GABRIEL RIVER at Spring Street, Long Beach

LOCATION:

On downstream side of Spring Street bridge about 4 miles east of Signal Hill, near Long Beach. This station is at, or near, the location of the station operated in 1924 by the State Division of Water Rights.

DRAINAGE AREA:

Not determined.

CHANNEL AND CONTROL:

Channel-sand and silt over adobe with earth levees protected by wire mesh.
No artificial control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from cat-walk on upstream side of bridge.

RECORDER:

Installed February 6, 1928 over a 21 inch diameter corrugated iron pipe stilling well. An Am continuous recorder in service October 1, 1941 to September 30, 1942.

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. Santa Fe Dam was under construction during this period but no regulation was affected. Spreading flows during April were diverted to the Rio Hondo by a temporary levee above Santa Fe Dam.

DIVERSION:

The City of Pasadena diverts water from the San Gabriel River. There are also several diversions for irrigation and spreading.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 277 second-feet, December 11.
Minimum no flow most of year.
1927-1942
Maximum 27000 second-feet, estimated, March 2, 1938.
Minimum no flow most of each year.

RECORDS AVAILABLE:

February 6, 1928 to September 30, 1942.
(For periods prior to February, 1928 see State Division of Water Rights Bulletins.)

ACCURACY:

Fair.
Low flows occasionally interpolated or estimated by comparison due to communication being obstructed by sand.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F42-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT Spring Street, Long Beach DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
173	12-10	705P 725P	Bonadiman-Walton	108.0	67.6	1.33	5.19	90.0		.6	10	+.03	FC 19
174	12-11	951A 1005A	"	51.0	49.4	2.93	5.23	145.		.6	8	-.01	"
175	12-18	140P 152P	Bonadiman	31.5	20.9	1.65		34.6		.6	6		"
176	12-26	800A 810A	Bonadiman-Walton	31.5	24.2	1.65		40.0		.6	5		"
177	12-29	515A 530A	Walton-Bonadiman	45.0	53.5	1.94	4.83	104.		.6	7	0	"
178	12-29	1255P 105P	"	50.0	50.7	2.35	4.59	119.		.6	7	0	"
179	12-30	901A 914A	"	63.0	40.8	2.60	4.46	106.		.6	7	0	"
180	12-31	232P 250P	"	61.0	29.0	1.93	4.25	56.0		.6	9	0	"
181	1-8	150P 210P	Bonadiman	39.0	17.9	2.07	3.86	37.0		.6	9	0	"
182	1-15	217P 240P	"	51.0	21.2	1.64	3.48	34.8		.6	11	0	"
183	1-22	301P 316P	"	Two Channels			3.32	42.2		.6	6	0	"
184	1-29	240P 252P	"	51.0	25.4	1.79	3.20	45.6		.6	7	0	"
185	2-3	323P 338P	Bonadiman-Ingram	Two Channels			3.22	26.9		.6	12	0	FC 2
186	2-5	1137A 1200N	Bonadiman	" "			3.25	29.5		.6	13	0	FC 19
187	2-11	1125A 1140A	"	23.0	14.5	1.75		25.4		.6	8		"
188	2-19	1158A 1210P	"	Two Channels			2.63	19.6		.6	9	0	"
189	2-26	1140A 1200N	"	" "			2.55	32.0		.6	12	0	"
190	3-5	1211P 1231P	"	" "			2.58	28.9		.6	16	0	"
191	3-12	1150A 1214P	"	" "			2.78	31.5		.6	20	0	"
192	3-14	1133P 1144P	Bonadiman-Walton	71.0	61.5	2.03	3.03	125.		.6	8	0	"
193	3-15	1037A 1050A	"	71.0	60.4	2.34	2.99	141.		.6	8	0	"
194	3-19	952A 1015A	Bonadiman	Two Channels			2.98	49.4		.6	21	0	"
195	3-26	1126A 1150A	"	" "			2.96	26.0		.6	17	0	"
196	4-2	1131A 1155A	"	Three Channels			2.94	22.7		.6	17	0	"
197	4-9	1127A 1150A	Bonadiman	Three Channels			2.97	24.0		.6	18	0	FC 19
198	4-16	1157A 1220P	"	" "			3.12	41.7		.6	18	0	"
199	4-23	1120A 1140A	"	Two Channels			3.17	40.9		.6	16	0	"
200	4-30	1137A 1203P	"	" "			3.13	29.1		.6	21	0	"
201	5-7	1142A 1149A	"	11.0	3.87	0.34	2.83	1.3		.6	4	0	"

F.C. Dist. Form St 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

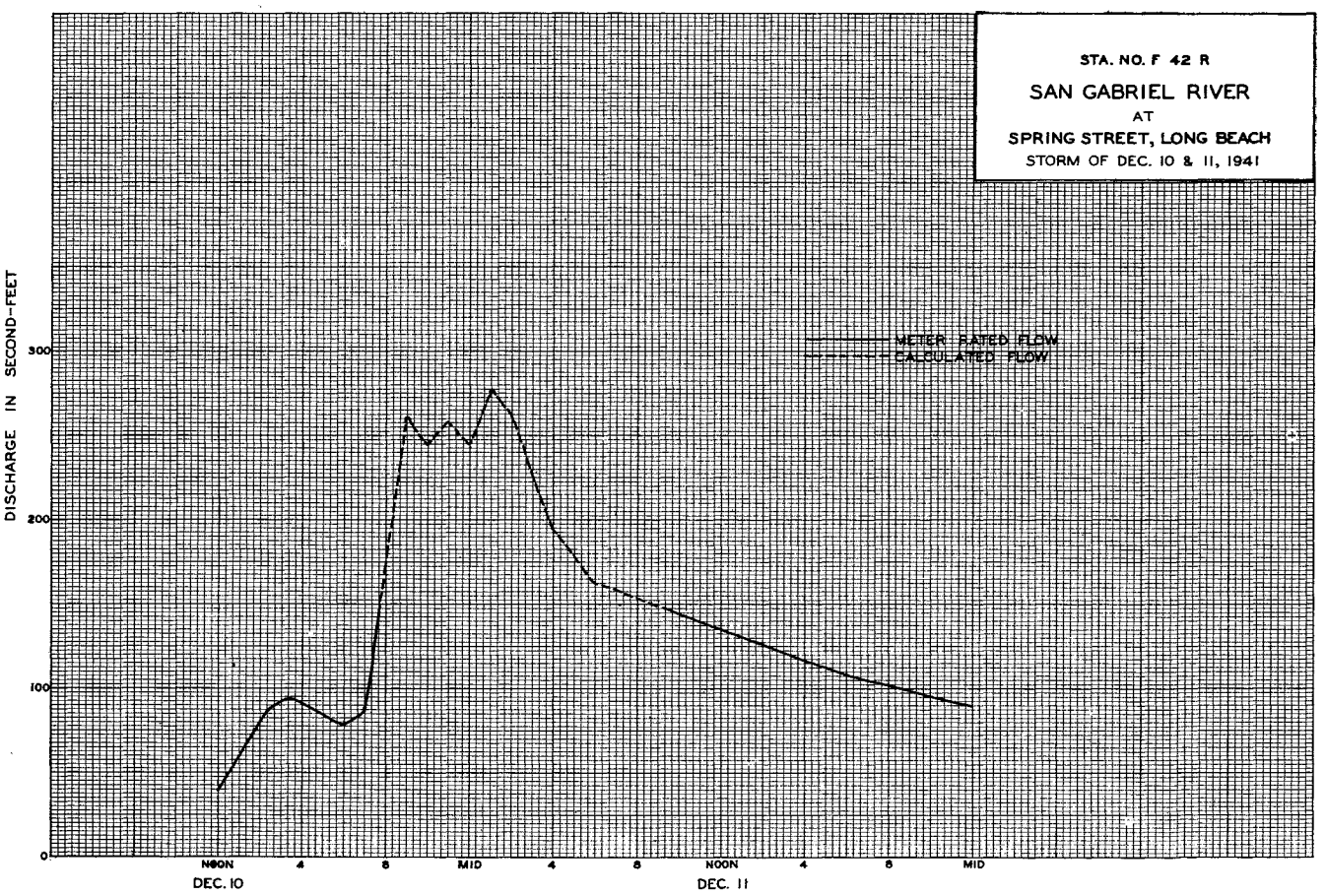
Sta. No. F42-R

Daily discharge, in second-feet of SAN GABRIEL RIVER at Spring Street, Long Beach, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	E 49	31	19	20	29	0	0	0	0
2	0	0	0	43	29	23	21	25	0	0	0	0
3	0	0	0	21	26	20	20	22	0	0	0	0
4	0	0	0	37	28	26	28	21	0	0	0	0
5	0	0	0	25	29	27	23	17	0	0	0	0
6	0	0	0	28	30	33	28	13	0	0	0	0
7	0	0	0	18	E 23	36	26	22	0	0	0	0
8	0	0	+	37	E 32	33	23	18	0	0	0	0
9	0	0	+	34	E 27	34	22	15	0	0	0	0
10	0	0	71	31	E 19	37	26	15	0	0	0	0
11	0	0	148	28	E 25	42	44	22	0	0	0	0
12	0	0	90	43	E 39	31	43	+	0	0	0	0
13	0	0	E 50	45	E 30	25	43	0	0	0	0	0
14	0	0	35	33	E 32	60	48	0	0	0	0	0
15	0	0	34	35	30	111	48	0	0	0	0	0
16	0	0	41	38	29	62	40	0	0	0	0	0
17	0	0	38	40	20	49	43	0	0	0	0	0
18	0	0	35	32	21	50	44	0	0	0	0	0
19	0	0	24	34	19	47	43	0	0	0	0	0
20	0	0	30	36	18	43	42	0	0	0	0	0
21	0	0	21	E 39	37	39	44	0	0	0	0	0
22	0	0	33	42	75	38	49	0	0	0	0	0
23	0	0	38	37	42	33	40	0	0	0	0	0
24	0	0	33	50	39	29	37	0	0	0	0	0
25	0	0	33	58	33	26	36	0	0	0	0	0
26	0	0	40	69	31	24	34	0	0	0	0	0
27	0	0	21	70	25	25	34	0	0	0	0	0
28	0	0	E 40	58	23	24	33	0	0	0	0	0
29	0	0	109	47		20	30	0	0	0	0	0
30	0	0	94	34		20	29	0	0	0	0	0
31	0		57	32		17		0		0	0	
	0	0	1115	1223	842	1102	1041	1372	0	0	0	0
Mean	0	0	36.0	39.5	30.1	35.5	34.7	4.43	0	0	0	0
Acre-Feet	0	0	2210.	2430.	1670.	2190.	2060.	272.	0	0	0	0

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

Year or Period: Mean 15.0; Acre-Feet 10830.



STATION F48R

SAN JOSE CREEK at Workman Mill Road

LOCATION:

On downstream side of highway bridge, about 3 miles north of Whittier. This Station is at, or near, the location of the Station operated from 1923 to 1929 by the State Division of Water Rights.

DRAINAGE AREA:

85.0 square miles.

CHANNEL AND CONTROL:

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

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from cable car 150 feet below station.

RECORDER:

Installed January 2, 1929 over an 18 inch diameter corrugated iron pipe stilling well. An H.C.F. continuous recorder was in service from October 1, 1941 to September 30, 1942.

REGULATION:

Flow partially regulated by Thompson Creek Dam.

DIVERSIONS:

Small diversion for spreading. (See Station F276R.)

RECORDS AVAILABLE:

January 2, 1929 to September 30, 1942.
(For records prior to January 2, 1929 see State Division of Water Rights Bulletins.)

EXTREMES OF DISCHARGE:

1941-1942
Maximum 180 second-feet, December 10.
Minimum 0.7 second-foot, August 12.
1928-1942
Maximum 13100 second-feet, January 1, 1954.
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 U.S.G.S. Water Resources Branch.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F48-R

DISCHARGE MEASUREMENTS OF SAN JOSE CREEK

AT Workman Mill Road DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
418	10-2	210P 220P	Brewster	9.0	2.54	0.83	0.99	2.1		.6	4	0	FC 12
419	10-9	105P 115P	"	8.0	2.80	0.79	1.00	2.2		.6	4	0	"
420	10-16	220P 230P	"	8.0	2.48	0.85	0.99	2.1		.6	4	0	"
421	10-23	150P 200P	"	12.0	4.36	0.99	1.06	4.3		.6	6	0	"
422	10-30	200P 210P	"	10.0	2.72	0.85	0.98	2.3		.6	5	0	"
423	11-6	235P 245P	"	9.0	2.98	0.94	0.98	2.8		.6	5	0	"
424	11-13	205P 215P	"	9.0	3.49	1.15	0.99	4.0		.6	5	0	"
425	11-21	230P 240P	Brewster	8.0	3.13	1.08	0.99	3.4		.6	5	0	FC12
426	11-27	135P 145P	"	9.0	3.59	1.11	1.00	4.0		.6	5	0	"
427	12-4	145P 155P	"	9.0	4.22	1.33	1.03	5.6		.6	5	0	"
428	12-11	140P 150P	"	16.0	6.50	1.31	1.01	8.5		.6	5	0	"
429	12-18	115P 125P	"	15.0	5.91	1.10	0.94	6.5		.6	4	0	"
430	12-26	155P 205P	"	16.0	6.40	1.30	0.96	8.3		.6	4	0	"
431	12-29	1045A 1055A	"	30.0	20.1	1.54	1.40	30.9		.6	5	-.01	"
432	12-30	125P 135P	"	16.0	8.60	1.49	1.08	12.8		.6	5	0	"
433	1-2	240P 250P	"	13.0	6.00	1.27	0.94	7.6		.6	4	0	"
434	1-8	140P 150P	"	16.0	6.56	1.30	0.94	8.5		.6	4	0	"
435	1-15	145P 155P	"	16.0	6.70	1.19	0.92	8.0		.6	5	0	"
436	1-22	135P 145P	"	16.0	7.20	1.33	0.96	9.6		.6	5	0	"
437	1-29	140P 150P	"	18.0	7.92	1.05	0.95	8.3		.6	5	0	"
438	2-5	120P 130P	"	15.0	7.18	1.20	0.96	8.6		.6	5	0	"
439	2-13	345P 355P	"	16.0	6.80	1.10	0.96	7.5		.6	4	0	"
440	2-19	145P 155P	"	16.0	7.18	1.03	0.96	7.4		.6	5	0	"
441	2-21	533P 545P	Brewster-Smith	24.0	12.0	1.58	1.18	18.9		.6	6	0	"
442	2-26	120P 130P	Brewster	16.0	7.20	1.29	1.00	9.3		.6	4	0	FC 12
443	3-5	115P 125P	"	16.0	6.90	1.29	0.99	8.9		.6	5	0	"
444	3-12	200P 210P	"	12.0	6.70	1.27	1.00	8.5		.6	4	0	"
445	3-14	630P 640P	Brewster-Smith	28.0	15.3	1.52	1.26	23.2		.6	5	-.01	"
446	3-19	125P 135P	Brewster	16.0	7.80	1.18	1.01	9.2		.6	5	0	"
447	3-26	140P 150P	"	14.0	6.28	1.23	1.00	7.7		.6	5	0	"
448	4-2	150P 200P	"	14.0	6.90	1.14	1.02	7.9		.6	4	0	"
449	4-9	150P 200P	"	16.0	7.72	1.10	1.09	8.5		.6	5	0	"
450	4-16	145P 155P	"	16.0	8.80	1.11	1.10	9.8		.6	4	0	"
451	4-23	140P 150P	"	18.0	10.8	0.94	1.13	10.2		.6	5	0	"
452	4-30	230P 240P	"	20.0	10.4	0.83	1.15	8.6		.6	5	0	"
453	5-7	250P 300P	"	16.0	9.50	0.72	1.14	6.8		.6	5	0	"
454	5-14	250P 300P	"	16.0	8.80	0.69	1.12	6.1		.6	4	0	"
455	5-21	250P 300P	"	16.0	8.40	0.48	1.12	4.0		.6	4	0	"
456	5-28	155P 205P	"	14.0	6.00	0.62	1.10	3.7		.6	4	0	"
457	6-4	130P 140P	"	8.0	3.80	1.05	1.12	4.0		.6	4	0	"
458	6-11	215P 225P	"	6.0	3.11	1.09	1.00	3.4		.6	4	0	"
459	6-18	240P 250P	"	6.0	2.16	1.30	0.97	2.8		.6	6	0	"
460	6-25	140P 148P	"	6.0	2.23	1.52	1.03	3.4		.6	4	0	"
461	7-2	222P 230P	"	6.0	2.20	1.36	1.05	3.0		.6	4	0	"
462	7-9	1250P 100P	"	6.0	2.14	1.31	1.07	2.8		.6	4	0	"
463	7-16	110P 120P	"	6.0	1.85	1.84	1.13	3.4		.6	4	0	"
464	7-23	1230P 1240P	"	6.0	2.14	1.40	1.00	3.0		.6	4	0	"
465	7-30	120P 130P	"	5.0	1.46	1.37	0.97	2.0		.6	5	0	"
466	8-6	1235P 1242P	Brewster-Haig	6.0	1.95	1.44	1.02	2.8		.6	4	0	FC 12
467	8-13	1224P 1230P	Haig	5.0	1.37	0.95	1.08	1.3		.6	6	0	FC 33
468	8-20	1142A 1150A	"	5.0	1.35	1.41	1.09	1.9		.6	5	0	"
469	8-27	120P 130P	Brewster	6.0	1.65	1.39	1.06	2.3		.6	4	0	FC 12
470	9-3	1255P 105P	"	8.0	2.48	0.89	1.11	2.2		.6	4	0	"
471	9-10	115P 125P	"	8.0	2.32	0.95	1.20	2.2		.6	4	-.01	"
472	9-17	135P 145P	"	8.0	2.00	0.95	1.12	1.9		.6	4	0	"
473	9-24	1244P 1253P	"	8.0	2.20	1.00	1.05	2.2		.6	4	0	"

F.C. Dist. Form 82 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

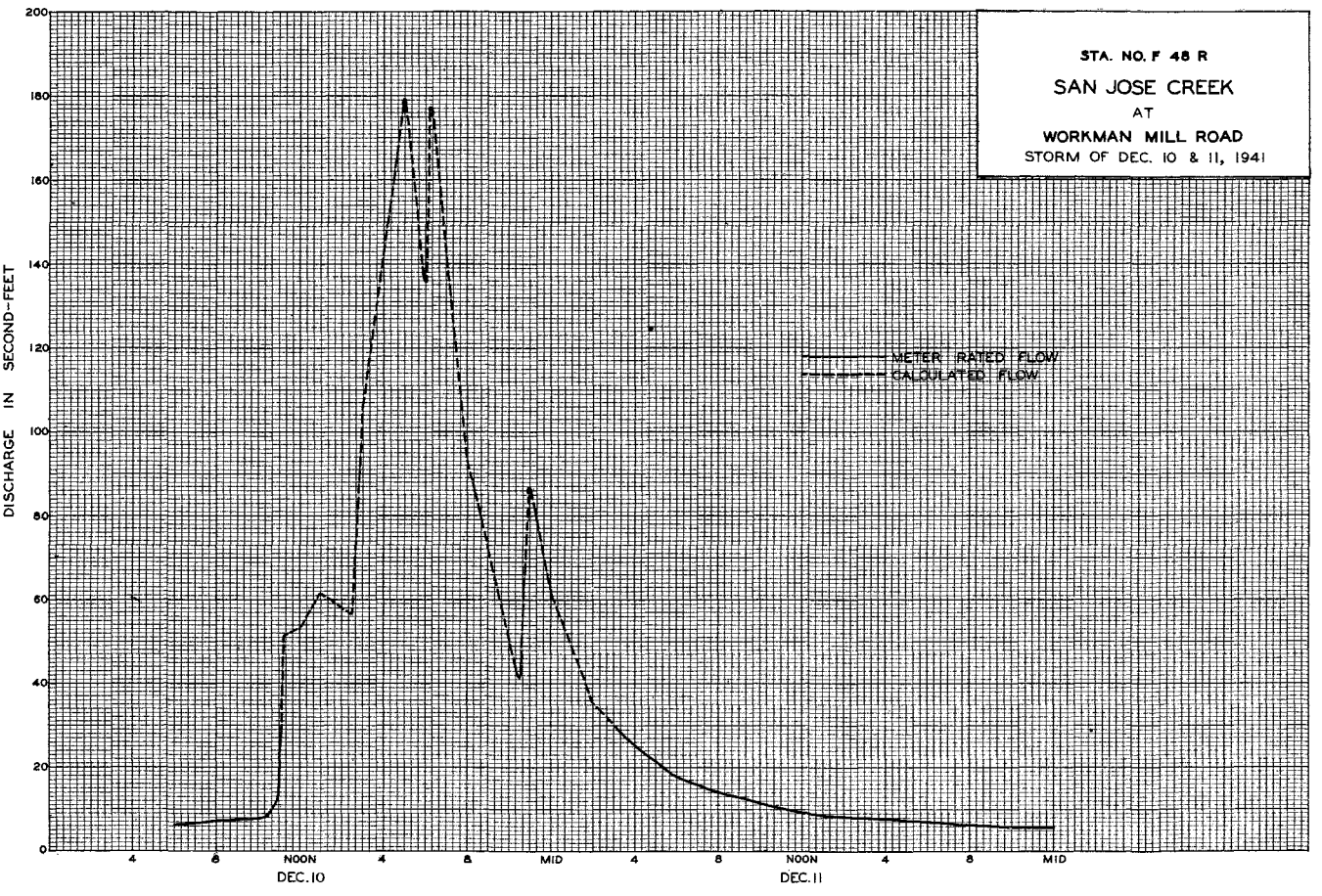
Sta. No. F48-R

Daily discharge, in second-feet of SAN JOSE CREEK at Workman Mill Road, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.3	2.5	5	8	10	7	7.5	8	2.7	2.7	2.3	2.3
2	2.1	2.7	5	7	9.5	7	7.5	8	2.9	2.3	2.3	2.3
3	2.1	2.7	6.5	6.5	9.5	8.5	6.5	7	3.9	2.3	2.0	2.1
4	2.3	2.7	6.5	7	9	8	9	7	3.7	2.3	2.5	2.0
5	2.5	2.9	5	7	8.5	8.5	7.5	7	4.2	2.1	2.3	1.6
6	2.1	2.5	5	8	9	8	8	7.5	3.9	2.0	2.5	1.6
7	2.5	2.7	5	8	8.5	7	7.5	6.5	3.7	1.8	2.0	1.2
8	3.2	2.5	5	8	8.5	7	7.5	6.5	3.7	2.1	2.1	1.8
9	2.1	2.7	5	8	8.5	7	8	7	4.5	2.9	2.1	2.3
10	2.0	3.2	54	7.5	9	8	9	7	3.7	2.3	1.6	2.0
11	2.1	3.4	15	7.5	8	8.5	15	8	3.7	2.1	1.2	2.0
12	2.1	3.9	6	7	8	8.5	9.5	8.5	3.2	2.1	0.8	2.0
13	2.3	3.9	5.5	7.5	7.5	8	8	8.5	2.7	1.8	1.4	2.3
14	2.3	3.9	5.5	7	8	16	12	7.5	2.7	2.5	2.1	1.6
15	2.1	3.7	5	7.5	8	20	10	7	2.3	2.3	2.7	2.1
16	2.3	3.7	5	8	8	8	9.5	8	2.3	2.7	2.9	2.7
17	2.3	3.7	6	8.5	7.5	8	12	8	2.5	2.1	2.9	2.1
18	2.3	3.7	6.5	8.5	7.5	8.5	9.5	7	2.7	2.7	2.5	2.0
19	2.5	3.4	6.5	8	7.5	8.5	8	6	2.9	2.5	2.7	2.1
20	2.7	3.4	7	8	7.5	8	8	5.5	2.9	2.3	1.8	1.2
21	3.7	3.4	7	8	16	8	10	4.5	2.9	2.7	1.8	1.0
22	5	3.7	6.5	9	19	8	12	5	2.9	2.9	1.6	0.9
23	3.7	3.7	6.5	9.5	8	7.5	10	5	2.9	2.7	1.4	2.0
24	2.7	3.7	6.5	9	8	8	8.5	4.2	2.7	2.5	1.8	2.5
25	2.7	3.7	6.5	9	8	7.5	8	3.7	3.4	2.5	2.0	2.7
26	2.5	3.9	8	9	8	7.5	8.5	4.2	3.2	2.5	2.0	2.9
27	2.7	3.9	6.5	10	7.5	7.5	9	4.2	4.5	2.0	1.8	2.9
28	2.5	4.2	9.5	9.5	7.5	7	9.5	3.7	4.2	1.8	1.6	2.0
29	2.5	4.5	32	9		6.5	9.5	3.7	2.7	2.1	1.8	1.8
30	2.3	4.5	13	10		6.5	8.5	3.7	2.7	2.0	1.6	2.0
31	2.3		10	10		7.5		3.7		1.6	1.8	
	78.8	103.0	282.0	254.5	249.5	259.5	273.0	191.1	96.9	71.4	62.1	60.0
Mean	2.54	3.43	9.10	8.21	8.91	8.37	9.10	6.16	3.23	2.30	2.00	2.00
Acre-Feet	156.	204.	559.	505.	495.	515.	541.	379.	192.	142.	123.	119.

Remarks:

Year or Period — Mean 5.43 — Acre-Feet 3930.



STATION F260B-R

SANTA ANITA WASH at Foothill Boulevard

LOCATION:

On the downstream side on left (east) end of Foothill Boulevard bridge, about one mile north of Arcadia, and approximately ½ mile below the confluence of Santa Anita Creek and Little Santa Anita Creek.
The former Station F260R was about 3/8 mile upstream.

DRAINAGE AREA:

17.2 square miles.

CHANNEL AND CONTROL:

Channel-sand, gravel, and boulders; banks protected with wire and rock.
No artificial control.

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed April 22, 1938 over an 18 inch diameter corrugated iron pipe stilling well.
An H.C.F. continuous recorder was in service from October 1, 1941 to September 30, 1942.

REGULATION:

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

DIVERSIONS:

Some water diverted for irrigation at mouth of Big Santa Anita Canyon.
Flow occasionally diverted for spreading from Little Santa Anita Creek at Sierra Madre Spreading Grounds.
Maximum known irrigation diversion about 2.0 second-feet.

RECORDS AVAILABLE:

April 22, 1938 to September 30, 1942.
For records prior to April, 1938, see Station F260R and F21R.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 65 second-feet, December 29.
Minimum no flow at various times.
1936-1942 (Stations F260R and F260B-R)
Maximum not determined, March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Good.
Low flows occasionally estimated due to sand obstructing communication.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F260B-R

DISCHARGE MEASUREMENTS OF SANTA ANITA CREEK

AT Foothill Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAN SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
222	10-2	1020A 1029A	Haig	6.8	0.95	1.04	3.89	0.99		.6	8	0	FC 33
223	10-9	1230P 1238P	"	6.5	1.01	1.09	3.97	1.1		.6	7	-.01	"
224	10-16	1227P 1235P	"	4.5	0.85	0.94	3.91	0.80		.6	5	0	"
225	10-22	1118A 1125A	"	11.0	1.94	0.98	4.02	1.9		.6	8	0	"
226	10-30	144P 150P	Haig-Middleton	12.0	1.84	0.98	4.00	1.8		.6	8	-.01	"
227	11-6	1138A 1142A	Haig	4.1	0.46	0.59	3.84	0.27		.6	5	0	"
228	11-13	1110A 1118A	Middleton	6.0	1.59	0.88	3.94	1.4		.6	6	0	FC 36
229	11-19	1029A 1036A	Haig	4.8	0.98	1.33	3.95	1.3		.6	5	0	FC 33
230	12-3	428P 435P	"	12.0	2.67	0.90	4.05	2.4		.6	7	0	"
231	12-4	1205P 1215P	"	10.0	1.85	1.46	4.06	2.7		.6	8	0	"
232	12-10	1137A 1145A	"	11.5	5.50	1.33	4.29	7.3		.6	9	0	"
233	12-10	303P 312P	"	Two Channels			4.82	35.0		.6	10	-.16	"
234	12-11	1225P 1233P	"	10.0	3.19	1.07	4.09	3.4		.6	6	0	"
235	12-18	1038A 1045A	"	8.4	2.68	1.38	4.08	3.7		.6	6	0	"
236	12-26	1220P 1228P	"	12.5	3.85	1.27	4.13	4.9		.6	8	+.05	"
237	12-28	622P 635P	"	16.0	8.51	1.79	4.45	15.2		.6	7	-.10	"
238	12-29	1215A 1225A	Haig-Mellon	17.0	10.5	2.28	4.53	23.9		.6	9	-.05	FC 28
239	12-29	315P 325P	Haig	13.0	8.05	1.91	4.48	15.4		.6	8	+.05	"
240	12-30	356P 406P	Mayer-Haig	Two Channels			4.51	24.9		.6	7	-.01	FC 33
241	1-8	350P 400P	Haig	8.5	2.85	0.91	3.94	2.6		.6	6	-.01	"
242	1-15	102P 108P	"	5.0	0.82	0.52	3.88	0.43		.6	6	0	"
243	1-22	1039A 1045A	"	4.0	1.30	0.65	3.93	0.85		.6	5	0	"
244	1-29	257P 301P	"	2.5	0.24	0.79	3.69	0.19		.6	5	0	"
245	2-5	1150A 1155A	"	6.5	1.24	0.69	3.88	0.86		.6	6	0	"
246	2-11	330P 334P	Haig	8.0	2.31	0.95	3.96	2.2		.6	7	0	FC 33
247	2-18	1022A 1028A	"	5.5	1.25	0.50	3.78	0.62		.6	5	0	"
248	2-21	305P 311P	"	9.0	2.87	0.97	3.98	2.8		.6	6	-.04	"
249	2-22	1248P 1253P	"	11.0	2.32	0.95	3.92	2.2		.6	7	0	"
250	2-26	340P 344P	"	10.5	1.52	0.72	3.89	1.1		.6	6	0	"
251	3-5	120P 126P	"	3.0	0.47	0.89	3.82	0.42		.6	4	+.02	"
252	3-12	308P 312P	"	4.2	0.96	0.67	3.82	0.64		.6	5	0	"
253	3-14	252P 300P	"	11.0	6.48	1.58	4.24	10.2		.6	7	0	"
254	3-14	620P 630P	"	11.5	3.51	1.00	4.06	3.5		.6	6	0	"
255	3-15	248P 255P	"	4.1	1.27	0.69	3.83	0.88		.6	5	0	"
256	3-19	1210P 1212P	"	0.5	0.04	0.75	3.59	0.03		Surf.	2	0	"
257	3-26	205P 210P	"	2.0	0.32	0.50	3.63	0.16		.6	3	0	"
258	4-10	626P 630P	Haig-Mayer	4.0	1.12	0.45	3.79	0.51		.6	5	0	"
259	4-14	915A 926A	Haig	3.2	0.99	1.61	3.94	1.6		.6	5	0	"

F.C. Dist. Form 82 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F260B-R

Daily discharge, in second-feet of SANTA ANITA WASH at Foothill Boulevard, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.2	1.5	0.7	15	0.4	0.5	0.4	0	0	0	0	0
2	1.0	1.6	0.8	6.5	0.3	0.3	0.4	0	0	0	0	0
3	1.0	1.0	2.5	4.8	0.5	0.3	1.0	0	0	0	0	0
4	0.9	0.5	2.6	4.8	0.4	0.4	1.6	0	0	0	0	0
5	1.0	0.4	1.8	4.1	0.9	0.4	0.4	0	0	0	0	+
6	0.9	0.3	1.7	3.7	0.8	0.1	0.4	0	0	0	0	0.1
7	1.0	0.3	1.3	3.2	0.8	0.1	0	0	0	0	0	0.1
8	1.1	0.4	1.3	2.9	0.7	0.1	0	+	0	0	0	0
9	1.2	0.4	1.4	2.2	0.7	0.2	0	+	0	0.1	+	0
10	1.3	0.5	8.5	1.8	0.7	0.3	0.3	0	0	0	+	0
11	1.2	0.9	4.2	1.4	1.6	0.9	0.4	+	0	0	0	0
12	2.3	1.4	4.3	1.0	0.9	0.6	0	0.2	0	0	0	0
13	1.7	1.4	4.1	0.7	1.0	0.5	0	0.1	0	0	0	0
14	1.6	1.2	4.1	0.6	1.2	4.0	0.2	0.2	0	0	0	0
15	1.2	1.0	3.9	0.4	1.2	1.6	0.1	0.2	0	0	0	0
16	1.0	1.1	3.9	0.4	1.0	0.7	0	0.2	0	0	0	0
17	1.0	1.4	3.7	0.4	0.8	0.5	0.3	0.1	0	0	0	0.1
18	1.0	1.1	3.5	0.4	0.7	0.4	0	+	0	0	0	+
19	1.3	1.2	2.2	0.4	1.1	0.2	0	0.1	0	0	0	0
20	2.1	0.8	1.7	0.4	1.1	0.3	0	0	0	0	0	0
21	2.4	0.8	1.4	0.4	4.4	0.4	0.4	0	0	0	0	0
22	2.2	0.6	1.0	0.8	2.9	0.4	0	0	0	0	0	0
23	2.4	0.2	2.3	E 0.5	1.7	0.4	0	0	0	0	0	0
24	2.1	0.8	1.3	E 0.5	1.7	0.4	0	0.1	0.1	0	0	0
25	2.0	0.6	2.3	E 0.5	1.3	0.5	0	0	0	0	0	0
26	1.8	0.8	4.2	E 0.5	1.1	0.8	0	0	0	0.1	0	0
27	2.2	0.7	6	E 0.5	1.1	0.5	0	0	0	0	+	0
28	2.1	0.8	12	E 0.5	0.8	0.4	0	0	0	0	0	0
29	2.0	1.0	17	E 0.5		0.6	0	0	0	0	0	0
30	1.8	1.1	26	0.5		0.5	0	0	0	0	+	0
31	1.5		26	0.5		0.6		0		0	0	
	47.5	25.8	157.7	60.8	31.8	17.9	5.9	1.2	0.1	0.2	+	0.3
Mean	1.53	0.86	5.09	1.96	1.14	0.58	0.20	0.04	+	0.01	+	0.01
Acre-Feet	94.	51.	313.	121.	63.	36.	12.	2.4	0.20	0.40	+	0.60

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

Year or Period — Mean 0.96 — Acre-Feet 694.

STATION F92B-R

SANTA CLARA RIVER at Highway 99

LOCATION:

On the downstream side of the highway bridge about 4 miles west of Saugus.
The former Station F92R was about 1000 feet downstream.

DRAINAGE AREA:

355 square miles.

CHANNEL AND CONTROL:

Channel-fine to coarse sand and gravel.
No artificial control.

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed January 18, 1930 at Station F92R.
Removed September 21, 1938.
Installed at Station F92B-R September 30, 1938 over a 24 inch corrugated iron pipe stilling well.
An Au continuous recorder was in service from October 1, 1941 to September 30, 1942.

REGULATION:

Partially regulated by Bouquet Canyon and Dry Canyon Reservoirs. Flows occasionally originate from Los Angeles City Aqueduct blowoff at Santa Clara River crossing.

DIVERSIONS:

Some flow diverted for irrigation near Lang.

RECORDS AVAILABLE:

At Station F92R
Recorder records available from January 18, 1930 to March 28, 1938. Some weekly stream measurements were taken prior to January 18, 1930 and subsequent to March 28, 1938.
At Station F92B-R
Recorder records available from October 1, 1938 to September 30, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 443 second-feet, December 28.
Minimum 0.4 second-foot, August 11.
1930-1942 (Stations F92R and F92B-R)
Maximum 24000 second-feet, estimated, March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Good.
Flows occasionally estimated or interpolated due to recorder clock failure or loss of communication.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F92B-R

DISCHARGE MEASUREMENTS OF SANTA CLARA RIVER

AT Highway 99 DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
154	10-2	1045A 1055A	Luce	Two Channels			5.82	2.8		.6	9	-.01	FC 39
155	10-9	1230P 1245P	"	" "			5.76	2.6		.6	8	0	"
156	10-15	1136A 1142A	Luce-Van der Goot	" "			5.74	3.8		.6	7	0	"
157	10-23	1250P 102P	Luce	14.0	2.75	2.35	5.77	6.5		.6	8	-.01	"
158	10-30	1202P 1208P	"	12.0	3.15	1.89	5.61	6.0		.6	7	0	"
159	11-6	1220P 1230P	"	11.5	3.05	1.61	5.55	4.9		.6	6	0	"
160	11-13	820A 828A	"	11.0	3.05	2.03	5.64	6.2		.6	7	0	"
161	11-19	940A 950A	"	9.5	3.65	1.87	5.64	6.8		.6	6	0	"
162	12-5	905A 920A	"	9.5	3.49	2.30	5.53	8.0		.6	6	0	"
163	12-10	435P 440P	Luce-Pardeick	17.0	7.38	3.19	5.55	23.5		.6	8	0	"
164	12-18	347P 358P	Luce	11.3	3.46	1.76	5.23	6.1		.6	8	-.03	"
165	12-27	145P 155P	"	13.5	4.31	1.72	5.08	7.4		.6	8	0	"
166	12-28	1042P 1058P	Luce-Pardeick	56.5	32.5	4.03	5.85	131.		.6	13	-.06	"
167	12-29	754A 804A	"	35.0	14.2	2.66	5.48	37.9		.6	11	+.01	"
168	1-1	305P 325P	Luce	30.5	21.2	4.90	5.85	104.		.6	12	+.02	"
169	1-8	415P 430P	"	25.5	20.3	4.90	5.71	99.3		.6	10	-.06	"
170	1-15	250P 302P	"	37.5	23.2	4.30	5.77	99.8		.6	12	+.01	"
171	1-29	300P 315P	"	31.5	23.4	4.96	6.02	116.		.6	12	0	"
172	2-5	150P 205P	"	41.0	25.0	4.03	5.76	101.		.6	13	0	"
173	2-12	140P 155P	"	39.0	27.4	3.95	5.90	108.		.6	15	0	"
174	2-20	930A 945A	"	Two Channels			6.21	107.		.6	18	+.02	"
175	2-21	358P 410P	Luce-Pardeick	59.5	30.9	3.85	6.22	119.		.6	17	0	"
176	2-26	125P 138P	Luce	51.0	28.9	3.66	6.22	105.		.6	14	0	"
177	3-5	235P 255P	"	57.5	30.4	3.72	6.32	113.		.6	14	0	"
178	3-12	405P 420P	Luce	Two Channels			6.36	116.		.6	17	0	FC 39
179	3-19	245P 300P	"	" "			6.22	114.		.6	16	0	"
180	3-26	1155A 1210P	"	" "			6.38	110.		.6	19	0	"
181	3-27	1015A 1020A	Luce-B. Luce	Two Channels			6.35	104.		.6	18	0	FC 39
182	4-3	810A 820A	Luce	" "			6.01	13.5		.6	13	0	"
183	4-9	205P 215P	"	" "			5.97	13.3		.6	12	+.01	"
184	4-14	355P 405P	Luce-Truitt	" "			5.88	20.0		.6	12	0	"
185	4-16	1150A 1215P	Luce	" "			5.83	13.7		.6	12	-.01	"
186	4-23	240P 250P	"	" "			5.64	13.0		.6	9	0	"
187	4-30	1130A 1140A	"	" "			5.53	13.4		.6	11	0	"
188	5-7	1250P 1255P	Luce-B. Luce	8.5	5.06	2.20	5.25	11.1		.6	6	0	"
189	5-15	1245P 1250P	Luce	9.5	5.28	1.86	5.26	9.8		.6	6	0	"
190	5-21	1225P 1235P	"	9.8	4.36	1.74	5.12	7.6		.6	8	0	"
191	5-28	1130A 1140A	"	9.5	3.47	1.52	5.03	5.3		.6	9	0	"
192	6-3	352P 400P	Bollinger	9.1	3.47	1.58	4.99	5.5		.6	8	0	FC 6
193	6-11	130P 140P	Luce	9.5	3.10	1.42	4.94	4.4		.6	9	0	FC 39
194	6-17	450P 500P	"	10.0	3.14	1.62	4.96	5.1		.6	8	0	"
195	6-24	430P 440P	"	8.2	2.61	1.30	4.91	3.4		.6	6	0	"
196	7-2	135P 145P	"	8.0	2.65	1.32	4.92	3.5		.6	8	0	"
197	7-9	740A 750A	"	8.0	2.75	1.45	4.94	4.0		.6	9	0	"
198	7-16	200P 210P	"	8.5	2.51	1.04	4.89	2.6		.6	9	0	"
199	7-22	115P 125P	"	8.5	2.14	1.12	4.88	2.4		.6	9	0	"
200	7-29	1225P 1235P	"	8.0	1.87	0.86	4.85	1.6		.6	8	0	"
201	8-6	135P 140P	"	4.4	1.47	1.43	5.03	2.1		.6	5	0	"
202	8-13	1050A 1058A	Luce	8.5	2.07	0.98	5.02	2.0		.6	6	0	FC 39
203	8-20	130P 140P	"	5.5	1.41	0.85	4.94	1.2		.6	6	0	"
204	8-26	1155A 1205P	Turner	5.5	1.84	0.92	4.97	1.7		.6	7	0	FC 5
205	9-3	222P 228P	Luce	6.5	1.96	1.22	4.98	2.4		.6	7	0	FC 39
206	9-17	445P 450P	"	7.5	1.66	0.90	4.96	1.5		.6	7	0	"
207	9-22	100P 105P	"	5.1	1.45	1.17	4.95	1.7		.6	6	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

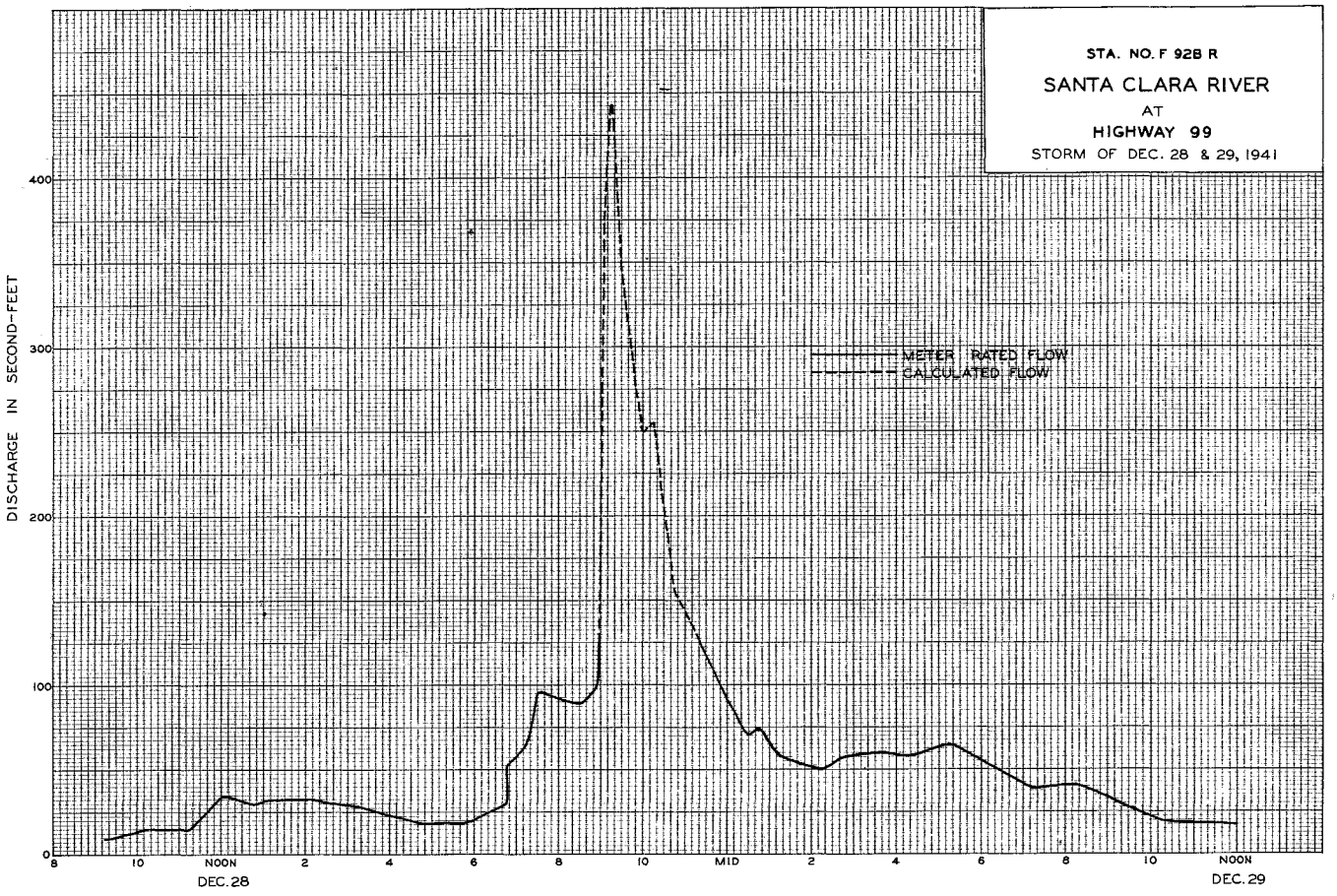
Sta. No F92B-R

Daily discharge, in second-feet of SANTA CLARA RIVER at Highway 99, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.0	5	9.5	120	71	86	22	12	8.5	4.5	2.0	1.5
2	3.5	5.5	8.5	112	73	102	14	13	8.5	3.5	4.0	1.5
3	1.5	5	8.5	142	73	98	13	21	8	2.5	3.5	2.0
4	2.0	5	8.5	96	76	102	13	20	7	4.0	5	2.0
5	1.0	4.5	8.5	120	102	112	12	15	9.5	3.5	3.0	2.0
6	1.5	5	8	116	105	112	13	11	8	2.0	2.0	1.0
7	1.5	4.5	8	108	108	112	12	11	6	3.0	1.5	0.8
8	2.0	4.5	8	109	92	120	12	10	5	2.5	0.6	0.8
9	2.5	5	8	105	105	120	13	8	7	3.0	0.7	0.8
10	3.0	6	15	102	92	120	18	9.5	9.5	3.0	0.8	0.8
11	3.5	7	8.5	98	82	120	12	10	7	3.0	0.6	0.8
12	5	6	9.5	108	105	116	13	7	5	4.0	0.9	0.8
13	4.0	6	9.5	112	132	124	10	6	5.5	4.0	2.0	0.7
14	4.5	6	8.5	116	132	148	18	7	5.5	4.5	3.0	0.8
15	4.5	6	8	108	112	E116	15	7	4.5	3.5	2.5	0.8
16	5	5.5	8	98	116	E116	14	8	5	3.0	2.5	0.9
17	6	6	8.5	120	120	E115	10	9.5	5.5	3.0	1.0	2.0
18	5.5	6	8	128	136	E115	8	8.5	5.5	4.0	0.9	1.5
19	6	6	6	144	120	E114	13	10	5	4.5	0.9	1.5
20	7	7	7	124	112	95	12	8	5	4.5	1.0	1.5
21	7	8	8	98	120	95	14	9.5	6	5	1.5	1.5
22	8	8.5	8	95	116	82	15	8.5	6	5	1.5	1.0
23	7	8.5	9	120	116	120	15	9.5	8	4.5	2.5	1.0
24	8	8.5	8.5	148	105	116	8.5	8.5	6	2.0	2.5	1.5
25	8	8.5	8.5	167	120	102	7	8	4.5	3.5	1.5	1.5
26	5.5	9.5	8	144	108	112	6	6	4.5	4.5	1.5	1.0
27	11	8.5	8	132	89	116	16	11	4.0	3.0	3.5	1.5
28	9.5	9.5	49	128	98	112	16	7	5	4.0	2.0	1.5
29	8	9.5	28	116		102	15	9.5	4.0	2.0	1.0	1.5
30	6	9.5	41	132		59	14	9.5	4.0	2.0	0.9	1.5
31	5.5		117	89		24		7		1.5	1.0	
	156.0	200.0	465.0	3654	2936	3303	393.5	305.5	182.5	106.5	57.8	38.0
Mean	5.03	6.67	15.0	118.	105.	106.	13.1	9.85	6.08	3.44	1.86	1.27
Acre-Feet	309.	397.	922.	7250.	5820.	6550.	780.	606.	362.	211.	115.	75.

Remarks: E = estimated.

Year or Period Mean 32.3 Acre-Feet 23400



STATION F278R

SAWPIT CREEK below Sawpit Dam

LOCATION:

On the right (north) side of the stream, about 150 feet downstream from Sawpit Dam and about 2½ miles north of Monrovia.

DRAINAGE AREA:

3.3 square miles.

CHANNEL AND CONTROL:

Channel-sand and gravel above and below flume. Control-a 2 foot "San Dimas Type" timber flume with a concrete cutoff wall and timber wings.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured in flume throat.

RECORDER:

Installed February 6, 1942 over a 14 inch diameter corrugated iron pipe stilling well.
A horizontal rational recorder was in service from February 6, 1942 to September 30, 1942.

REGULATION:

Flow regulated by Sawpit Dam. Station F278R measures outlet discharge only, spillway discharge enters below station.

DIVERSIONS:

City of Monrovia diverts flow above Sawpit Dam. Spillway discharge from Sawpit Dam is diverted past station.

RECORDS AVAILABLE:

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

EXTREMES OF DISCHARGE:

1941-1942
Maximum 2.6 second-feet, March 13.
Minimum no flow most of year.

ACCURACY:

Good.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F278-R

DISCHARGE MEASUREMENTS OF SAWPIT CREEK

at below Sawpit Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1	10-7	350P 355P	Green	2.0	0.32	0.31		0.10		.6	4		FC 30
2	3-14	828P 840P	Haig	4.3	1.36	1.55	0.23	2.1		.6	7	0	FC 33
3	3-15	310P 320P	"	2.7	0.54	1.65	0.16	0.89		.6	5	0	"
4	3-19	1258P 105P	"	2.1	0.25	1.04	0.06	0.26		.6	5	0	"
5	3-26	140P 145P	"	1.6	0.21	0.67	0.05	0.14		.6	4	0	"
6	4-2	100P 105P	"	1.6	0.18	0.44	0.05	0.08		.6	4	0	"
7	4-9	1140A 1144A	"	1.5	0.19	0.68	0.06	0.13		.6	4	0	"
8	4-16	1105A 1110A	"	Two Channels			0.08	0.26		.6	6	0	"
9	4-23	1250P 1253P	"	1.6	0.24	0.75	0.06	0.18		.6	2	0	"
10	4-30	1120A 1125A	"	1.6	0.19	0.68	0.04	0.13		.6	4	0	"
11	5-28	1150A 1205P	"				°	0.06		Vol.		0	
12	6-4	1215P	"				°	0.03		"			
13	6-11	1155A	"				°	0.01		"			
14	6-18	1240P	"				°	0.01		"			
15	6-25	150P	"				°	0.01		"			
16	7-2	110P	"				°	+		"			

° Flow does not reach gage plate.

F.C. Dist. Form 52 3-41

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, 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0	0	0	0	0	0.2	0.1	+	0	0	0
2	0.1	0	0	0	0	0	0.1	0.1	0	0	0	0
3	0.1	0	0	0	0	0	0.2	0.1	0	0	0	0
4	0.1	0	0	0	0	0	0.3	0.1	0	0	0	0
5	0.1	0	0	0	0	0	0.2	0.1	+	0	0	0
6	0.1	0	0	0	0	0	0.3	0.1	0	0	0	0
7	0.1	0	0	0	0	0	0.3	0.1	0	0	0	0
8	0.1	0	0	0	0	0	0.2	0.1	0	0	0	0
9	0.1	0	0	0	0	0	0.2	0.1	0	0	0	0
10	0.1	0	+	0	0	0	0.2	+	0	0	0	0
11	0.1	0	0	0	0	+	0.5	+	0	0	0	0
12	0.1	0	0	0	0	0	0.5	+	0	0	0	0
13	0.1	0	0	0	0	0	0.5	+	0	0	0	0
14	0.1	0	0	0	0	0.6	0.6	+	0	0	0	0
15	0.1	0	0	0	0	1.3	0.4	+	0	0	0	0
16	0.1	0	0	0	0	0.6	0.2	+	0	0	0	0
17	0.1	0	0	0	0	0.5	0.2	+	0	0	0	0
18	0.1	0	0	0	0	0.2	0.2	+	+	0	0	0
19	0	0	0	0	0	0.2	0.1	+	0	0	0	0
20	0	0	0	0	0	0.2	0.1	0	0	0	0	0
21	0	0	0	0	+	0.1	0.2	0	0	0	0	0
22	0	0	0	0	+	0.1	0.2	0	0	0	0	0
23	0	0	0	0	+	0.1	0.2	0	0	0	0	0
24	0	0	0	0	+	0.1	0.2	0	0	0	0	0
25	0	0	0	0	0	0.2	0.2	+	0	0	0	0
26	0	0	0	0	0	0.3	0.2	+	0	0	0	0
27	0	0	0	0	0	0.2	0.1	+	0	0	0	0
28	0	0	+	0	0	0.2	0.1	+	0	0	0	0
29	0	0	+	0		0.2	0.1	+	0	0	0	0
30	0	0	0	0		0.2	0.1	+	0	0	0	0
31	0		0	0		0.2		+		0	0	
	1.8	0	+	0	+	5.5	7.1	0.9	+	0	0	0
Mean	0.06	0	+	0	+	0.18	0.24	0.03	+	0	0	0
Acre-Feet	3.6	0	+	0	+	11.	14.	1.8	+	0	0	0

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

Year or Period — Mean 0.04; Acre-Feet 30.4

STATION F185R

SEPULVEDA CREEK at Charnock Road

LOCATION:

On the left (east) wing wall of the downstream side of the Charnock Road bridge, about 1200 feet west of Sawtelle Boulevard and approximately 2 miles southwest of Culver City.

DRAINAGE AREA:

25.7 square miles.

CHANNEL AND CONTROL:

Channel-adobe and some sand.
No artificial control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from footbridge 100 feet below the station.

RECORDER:

Installed September 15, 1932; removed March 3, 1937 on account of bridge construction; reinstalled August 11, 1937; removed March 3, 1938 due to the stilling well being washed out; reinstalled July 7, 1938, over 20 inch corrugated iron pipe stilling well.
An H.C.F. recorder was in operation from October 1, 1941 to September 30, 1942.

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, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 2200 second-feet, December 28.
Minimum + flow at various times.
1932-1942
Maximum 3100 second-feet, estimated, March 2, 1938.
Minimum no flow at times each year.

ACCURACY:

Fair.
Flows occasionally estimated due to sand obstructing communication and recorder failure.

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F185-R

DISCHARGE MEASUREMENTS OF SEPULVEDA CREEK

AT Charnock Road DURING THE YEAR ENDING SEPTEMBER 30, 1942

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
361	10-2	1045A 1051A	Moon	4.5	0.67	0.67	3.76	0.45		.6	5	0	FC 22
362	10-8	851A 856A	Moon-Van der Goot	3.5	0.34	0.62	3.72	0.21		.6	4	0	"
363	10-12	402P 405P	Moon	2.5	0.25	1.04	3.71	0.26		.6	2	0	"
364	10-16	1117A 1118A	"	2.5	0.25	0.80	3.71	0.20		.6	2	0	"
365	10-21	525P 532P	"	15.0	10.5	1.63	4.55	17.1		.6	5	+.30	"
366	10-21	850P 902P	Moon-Andren	30.0	24.9	2.54	4.95	63.2		.6	11	0	"
367	10-23	847A 853A	Moon	20.0	20.2	1.66	4.67	33.5		.6	7	-.01	"
368	10-27	307P 315P	"	12.0	7.20	1.26	4.25	9.1		.6	6	-.05	"
369	10-30	1026A 1030A	"	3.0	0.33	1.12	3.69	0.37		.6	4	0	"
370	11-6	440P 443P	"	3.0	0.36	0.72	3.69	0.26		.6	3	0	"
371	11-13	955A 1000A	"	3.0	0.31	0.94	3.69	0.29		.6	3	0	"
372	11-19	1104A 1109A	"	2.5	0.28	0.82	3.67	0.23		.6	4	0	"
373	11-27	1104A 1105A	"	3.0	0.30	0.80	3.67	0.24		.6	2	0	"
374	12-3	1210P 1222P	Moon-Eckert	33.0	71.8	4.53	6.50	325.		.6	8	-.20	"
375	12-3	314P 320P	"	12.5	15.2	1.62	4.55	24.6		.6	7	-.04	"
376	12-4	1147A 1148A	Moon	3.0	0.36	0.78	3.62	0.28		.6	2	0	"
377	12-10	409A 418A	Moon-Eckert	24.0	28.6	2.45	5.08	70.1		.6	7	-.06	"
378	12-10	1003A 1014A	"	28.5	52.9	3.23	5.65	171.		.6	8	+.08 -.03	"
379	12-10	450P 500P	"	25.0	24.0	1.59	4.74	38.2		.6	8	-.15	"
380	12-11	1150A 1151A	Moon	2.4	0.32	0.97	3.45	0.31		.6	2	0	"
381	12-18	325P 335P	"	4.0	0.70	0.84	3.47	0.59		.6	4	0	"
382	12-26	957A 1003A	"	9.5	3.92	1.05	4.06	4.1		.6	6	-.02	"
383	12-28	1135P 1142P	Moon-Eckert	16.0	13.4	2.57	4.35	34.5		.6	6	-.04	"
384	12-29	831A 837A	"	16.5	13.1	2.75	4.32	36.0		.6	7	-.06	"

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

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, 19 42

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
385	12-29	338P / 344P	Moon-Eckert	5.0	2.24	0.80	3.47	1.8		.6	5	0	FC 22
386	12-30	100P / 107P	"	16.5	14.4	3.05	4.45	43.9		.6	8	-.06	"
387	12-31	1021A / 1025A	Moon	3.3	0.54	0.78	3.64	0.42		.6	4	0	"
388	1-8	1140A / 1141A	"	2.5	0.45	1.11	3.97	0.50		.6	2	0	"
389	1-15	955A / 956A	"	2.0	0.30	1.13	3.92	0.34		.6	2	0	"
390	1-22	807A / 812A	"	4.5	0.87	0.91	3.95	0.79		.6	5	0	"
391	1-29	1056A / 1100A	"	2.5	0.40	0.98	3.86	0.39		.6	3	0	"
392	2-5	926A / 927A	"	2.2	0.28	1.25	3.89	0.35		.6	2	0	"
393	2-11	1031A / 1032A	"	2.5	0.25	1.24	3.88	0.31		.6	2	0	"
394	2-19	947A / 950A	"	2.5	0.30	1.27	3.88	0.38		.6	2	0	"
395	2-21	354P / 404P	Moon-Eckert	30.0	27.5	3.27	5.30	89.9		.6	9	-.10	"
396	2-22	950A / 954A	"	4.0	0.57	1.10	3.98	0.63		.6	4	0	"
397	2-26	920A / 925A	Moon	5.0	0.94	1.17	4.01	1.1		.6	5	-.04	"
398	3-5	1014A / 1015A	"	2.5	0.42	0.86	3.92	0.36		.6	2	0	"
399	3-11	729A / 736A	Moon-Eckert	17.0	10.1	1.71	4.52	17.3		.6	8	-.04	"
400	3-12	1018A / 1020A	Moon	2.0	0.30	0.93	3.96	0.28		.6	2	0	"
401	3-14	447P / 455P	Moon-Eckert	26.0	23.5	3.25	5.04	76.4		.6	9	-.10	"
402	3-14	737P / 742P	"	9.0	3.58	1.93	4.13	6.9		.6	5	-.01	"
403	3-15	1049A / 1053A	"	4.0	0.81	0.68	3.78	0.55		.6	4	0	"
404	3-19	1009A / 1014A	Moon	4.5	1.00	0.95	3.80	0.95		.6	5	0	"
405	3-26	1012A / 1016A	"	4.0	0.66	0.76	3.72	0.50		.6	4	0	"
406	4-2	1042A / 1047A	"	4.5	0.80	0.80	3.75	0.64		.6	4	0	"
407	4-4	751A / 755A	Moon-Eckert	4.0	1.04	1.25	3.94	1.3		.6	4	-.02	"
408	4-9	853A / 858A	Moon	3.0	0.47	0.79	3.77	0.37		.6	4	0	"
409	4-10	315P / 335P	Moon	31.0	65.2	4.13	5.93	269.		.6	9	+.33	FC 22
410	4-11	922A / 927A	Moon-Eckert	4.0	2.10	1.43	4.15	3.0		.6	4	0	"
411	4-14	1049A / 1058A	"	30.0	34.7	3.31	5.38	115.		.6	11	-.13	"
412	4-14	342P / 349P	"	5.5	1.76	1.42	4.01	2.5		.6	6	0	"
413	4-16	1107A / 1115A	Moon	3.0	0.56	1.07	3.88	0.60		.6	3	0	"
414	4-21	814P / 824P	Moon-Eckert	14.0	12.6	1.92	4.31	24.2		.6	8	-.08	"
415	4-22	1037A / 1043A	Moon	4.5	0.81	0.94	3.74	0.76		.6	5	0	"
416	4-30	1214P / 1218P	"	3.0	0.51	0.76	3.65	0.39		.6	3	0	"
417	5-7	1003A / 1007A	"	4.0	0.53	0.74	3.66	0.39		.6	4	0	"
418	5-14	1020A / 1028A	"	13.5	7.57	1.97	4.15	14.9		.6	7	0	"
419	5-21	1036A / 1046A	"	12.0	5.45	1.50	4.01	8.2		.6	8	+.02	"
420	5-28	1102A / 1106A	"	4.0	0.70	0.89	3.68	0.62		.6	4	0	"
421	6-4	1035A / 1040A	"	4.0	0.60	0.90	3.69	0.54		.6	4	0	"
422	6-11	1120A / 1125A	"	4.5	0.72	0.86	3.71	0.62		.6	5	0	"
423	6-18	1027A / 1030A	"	3.0	0.51	0.59	3.63	0.30		.6	3	0	"
424	6-25	1116A / 1120A	"	4.0	0.56	0.61	3.63	0.34		.6	4	0	"
425	7-2	1012A / 1015A	"	3.0	0.37	0.59	3.64	0.22		.6	3	0	"
426	7-9	1041A / 1050A	"	7.5	1.60	0.56	3.77	0.89		.6	6	0	"
427	7-16	958A / 1005A	"	6.5	1.62	0.60	3.79	0.98		.6	6	-.01	"
428	7-23	1016A / 1021A	"	4.0	0.81	0.89	3.80	0.72		.6	4	0	"
429	7-30	932A / 937A	"	4.5	0.95	0.80	3.80	0.76		.6	5	0	"
430	8-5	1031A / 1036A	Bonadiman	7.0	1.85	0.45	3.82	0.84		.6	3	0	FC 19
431	8-10	1102A / 1112A	"	6.5	1.85	0.65	3.77	1.2		.6	4	0	"
432	8-12	1021A / 1030A	"	8.0	1.85	0.41	3.72	0.76		.6	4	0	"
433	8-20	1009A / 1013A	Moon	3.5	0.51	1.10	3.73	0.56		.6	4	0	FC 22
434	8-26	1015A / 1020A	"	4.0	0.73	0.79	3.74	0.58		.6	3	0	"
435	9-2	1030A / 1035A	"	4.0	0.79	0.91	3.76	0.72		.6	4	-.01	"
436	9-10	1020A / 1025A	"	3.8	0.48	0.96	3.73	0.46		.6	4	0	"
437	9-17	1004A / 1008A	"	2.0	0.18	0.56	3.62	0.10		.6	3	0	"
438	9-24	1102A / 1105A	"	2.0	0.12	0.58	3.59	0.07		.6	3	0	"

F.C. Dist. Form 82 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

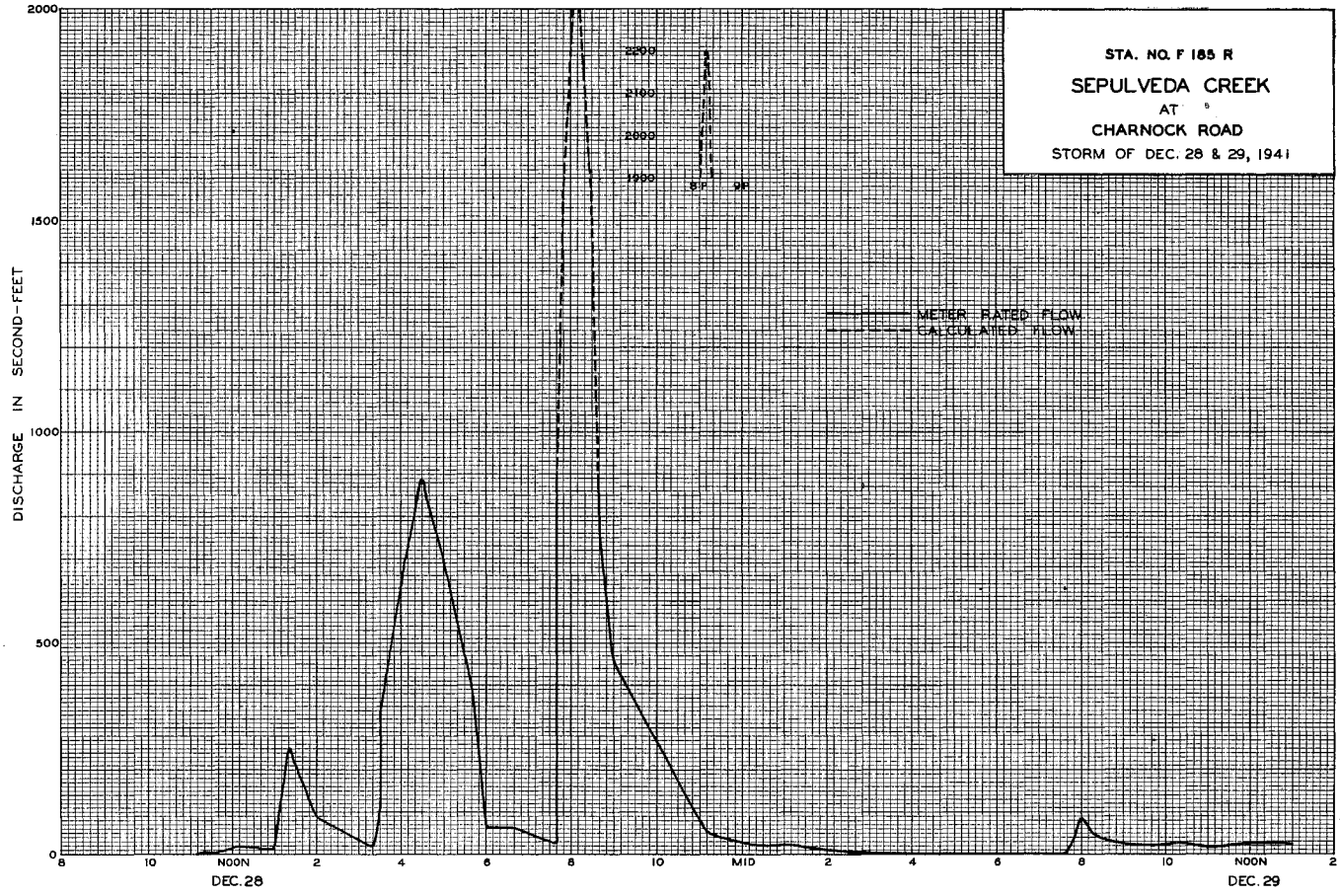
Sta. No. F185-R

Daily discharge, in second-feet of SEPULVEDA CREEK at Charnock Road, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	0.3	0.8	17	0.4	0.6	0.6	2.3	0.8	0.9	0.8	E 0.6
2	0.4	0.3	0.5	0.6	0.3	0.5	0.7	0.4	0.5	0.4	0.6	E 0.5
3	0.5	0.2	30	0.5	0.3	0.5	7	0.5	0.5	0.3	0.8	0.6
4	0.4	0.2	E 0.3	0.5	0.3	0.5	7	2.8	0.5	0.4	0.8	0.7
5	0.3	0.2	0.3	0.7	0.3	0.5	2.6	3.3	0.7	0.7	0.7	0.7
6	0.2	0.2	0.3	0.5	0.3	0.4	2.8	3.0	0.5	0.8	0.6	0.5
7	0.2	0.3	0.3	0.4	0.3	0.4	0.6	1.5	0.5	0.9	0.6	0.5
8	0.2	0.3	0.3	0.4	0.3	0.4	0.5	2.7	0.5	0.9	0.5	0.5
9	0.2	0.3	3.3	0.5	0.3	0.7	0.5	0.6	0.7	0.9	5.5	0.9
10	0.2	0.4	77	0.6	0.3	0.4	E 41	0.9	0.6	0.9	2.1	0.5
11	0.2	0.3	E 0.3	0.4	0.3	16	E 12	2.4	0.6	0.9	0.7	0.6
12	16	0.3	0.3	0.4	0.2	0.3	0.9	1.2	0.6	0.8	1.8	0.6
13	0.3	0.3	0.3	0.4	0.3	0.3	0.9	3.1	0.7	0.9	0.6	0.3
14	0.2	1.6	0.3	0.3	1.0	61	43	3.1	0.7	0.9	0.6	0.1
15	0.2	0.3	0.6	0.4	0.4	0.9	0.6	2.3	0.7	0.9	0.5	0.2
16	0.2	0.2	0.3	0.5	0.3	0.6	0.6	0.5	1.2	0.9	0.6	0.3
17	0.2	0.2	0.3	0.5	0.3	0.6	17	0.5	0.6	0.8	0.6	0.2
18	0.2	0.3	1.2	0.4	0.3	0.7	0.6	2.4	0.3	0.9	0.6	0.7
19	0.2	0.2	0.5	1.4	0.4	0.8	0.6	2.9	0.4	0.8	0.6	0.7
20	5.5	0.3	0.5	1.2	0.3	0.6	0.6	2.7	0.5	0.8	0.6	0.7
21	24	0.3	0.5	1.2	E 97	0.6	15	3.7	0.6	0.8	0.6	0.5
22	6	0.4	0.5	3.9	E 10	0.6	1.2	2.4	0.4	0.7	0.7	0.1
23	13	0.2	13	0.4	0.5	0.6	0.6	0.6	0.2	0.6	0.8	0.2
24	0.4	0.5	0.8	0.4	0.6	0.6	0.6	0.6	0.6	0.8	0.6	0.1
25	0.3	0.3	26	0.4	0.6	0.6	0.8	1.1	0.3	0.8	0.6	0.8
26	0.3	0.2	4.0	0.3	0.7	0.6	0.5	0.8	0.3	0.7	0.6	0.5
27	5.5	0.3	0.7	0.9	0.6	0.6	0.5	0.6	0.3	0.8	0.6	0.3
28	0.4	0.3	177	0.4	0.5	0.7	1.3	0.5	0.4	0.9	0.6	0.5
29	0.3	0.3	10	0.4		0.8	1.0	0.5	0.4	0.8	0.6	0.5
30	0.3	0.3	18	0.5		0.6	1.2	0.5	3.0	0.7	0.5	0.5
31	0.3		1.4	0.5		0.6		0.5		0.9	0.5	
	76.9	9.8	369.6	36.9	117.4	93.6	162.8	50.9	18.6	24.2	26.9	14.4
Mean	2.48	0.33	11.9	1.19	4.19	3.02	5.43	1.64	0.62	0.78	0.87	0.48
Acre-Feet	153.	19.	733.	73.	233.	186.	323.	101.	37.	48.	53.	29.

Remarks: E = estimated.

Year or Period Mean 2.75
Acre-Feet 1990.



STATION F43R

SYCAMORE UPPER STORM DRAIN above Solway Street

LOCATION:

Right (north) side of concrete drain, approximately 80 feet above Solway Street and about 3 miles northeast of Glendale.

DRAINAGE AREA:

2.7 square miles.

CHANNEL AND CONTROL:

Channel-rectangular concrete, 8.0 feet wide and 8.0 feet deep. Invert is 0.1 foot below bottom of vertical side walls.
Channel forms control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from footbridge about 80 feet below station.

RECORDER:

Installed January 30, 1928 in a 3 foot by 4.0 foot concrete house and stilling well combined.
Recorder removed April 16, 1932.
Recorder reinstalled October 1, 1935.
Stevens type L recorder was in service from October 1, 1941 to September 30, 1942.

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, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 119 second-feet, December 10.
Minimum no flow at various times.
1928-1942
Maximum not determined.
Minimum no flow at various times.

ACCURACY:
Fair.
Low flows interpolated between weekly measurements or estimates due to loss of communications.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F43-R

DISCHARGE MEASUREMENTS OF SYCAMORE UPPER STORM DRAIN

at above Solway Street DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	Q. HT. CHANGE TOTAL	METER NO.
21	1-19	909A 912A	Bollinger	1.8	0.10	2.80	0.04	0.28	Float		2		
22	3-5	808A 812A	"	1.2	0.11	1.93	0.03	0.21	Float		1		
23	3-26	900A 903A	"	0.9	0.04	3.41	0.04	0.12	Float		1		
24	4-23	812A 817A	"	1.5	0.14	2.36	0.06	0.33	Float		1		
25	5-7	800A 804A	"	1.3	0.10	1.70	0.15	0.17	Float		1		
26	6-18	340P 345P	"	1.0	0.05	1.40	0.01	0.07	Float		1		

F.C. Dist. Form 52 3-41

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, 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	+	0.2	0.3	0.3	0.1	0.2	0.1	0.1	0	0
2	+	+	+	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0	0
3	+	+	+	0.3	0.3	0.2	0.2	0.2	0.1	+	0	0
4	+	+	+	0.4	0.3	0.2	0.1	0.2	0.1	+	0	0
5	+	+	+	0.4	0.3	0.2	0.1	0.2	0.1	+	0	0
6	+	+	+	0.4	0.3	0.2	0.1	0.2	0.1	+	0	0
7	+	+	+	0.4	0.2	0.2	0.1	0.2	0.1	+	0	0
8	+	+	+	0.4	0.2	0.2	0.1	0.2	0.1	+	0	0
9	+	+	+	0.3	0.2	0.2	0.1	0.2	0.1	+	0.2	0
10	+	+	9.5	0.3	0.2	0.2	0.3	0.2	0.1	+	+	0
11	+	+	0.1	0.3	0.2	0.2	0.2	0.2	0.1	+	0	0
12	+	+	0.1	0.3	0.2	0.2	0.2	0.2	0.1	+	0	0
13	+	+	0.1	0.3	0.2	0.2	0.2	0.2	0.1	+	0	0
14	+	+	0.1	0.3	0.2	0.8	0.4	0.2	0.1	+	0	0
15	+	+	+	0.3	0.2	0.2	0.2	0.2	0.1	+	0	0
16	+	+	+	0.3	0.2	0.2	0.3	0.2	0.1	+	0	0
17	+	+	+	0.3	0.2	0.2	1.2	0.2	0.1	+	0	0
18	+	+	+	0.3	0.2	0.2	0.2	0.2	0.1	+	0	0
19	+	+	+	0.3	0.2	0.2	0.4	0.2	0.1	+	0	0
20	+	+	+	0.3	0.2	0.3	0.2	0.2	0.1	+	0	0
21	+	+	0.2	0.3	1.4	0.1	0.5	0.2	0.1	+	0	0
22	+	+	0.5	0.3	0.3	0.2	0.4	0.2	0.1	+	0	0
23	+	+	0.3	0.2	0.3	0.5	0.4	0.2	0.1	0	0	0
24	+	+	0.2	0.2	0.3	0.3	0.4	0.2	0.1	0	0	0
25	+	+	0.2	0.2	0.3	0.2	0.4	0.2	0.1	0	0	0
26	+	+	0.1	0.2	0.3	0.1	0.4	0.2	0.1	0	0	0
27	+	+	0.1	0.2	0.3	0.1	0.3	0.2	0.1	0	0	0
28	+	+	1.1	0.2	0.3	0.1	0.3	0.2	0.1	0	0	0
29	+	+	0.2	0.2		0.1	0.3	0.1	0.1	0	0	0
30	+	+	0.2	0.3		0.1	0.3	0.1	0.1	0	0	0
31	+		0.2	0.3		0.1		0.1		0	0	
	+	+	13.2	9.0	8.1	6.7	8.6	5.9	3.0	0.2	0.2	0
Mean	+	+	0.43	0.29	0.29	0.22	0.29	0.19	0.10	+	+	0
Acre-Feet	+	+	26.	18.	16.	13.	17.	12.	6.0	0.4	0.4	0

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

Year or Period: Mean 0.15; Acre-Feet 110.

STATION F44R

SYCAMORE LOWER STORM DRAIN at Adams Square

LOCATION:

In man-hole in yard of Union Oil Company Service Station at southwest corner of Adams Street and Chevy Chase Drive, on the left (south) side of the drain, about 30 feet west of west curb of Adams Street about 1 mile southeast of Glendale.

DRAINAGE AREA:

6.2 square miles.

CHANNEL AND CONTROL:

Channel-closed rectangular concrete drain, 9.0 feet wide and 10.0 feet deep. Invert is 0.1 foot below bottom of vertical side walls. Channel forms control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from footbridge in open channel below station.

RECORDER:

Installed December 15, 1928 underground in a 3.0 foot by 4.0 foot concrete house and stilling well combined.
An H.C.F. continuous recorder was in service from October 1, 1941 to September 30, 1942.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

December 15, 1927 to September 30, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 434 second-feet, December 10.
Minimum + flow at various times.
1927-1942
Maximum 2800 second-feet, estimated, March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Poor.
Low flows estimated or interpolated between weekly measurements due to sand and debris obstructing communication.

OPERATION:

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

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

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, 1942

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METER CO.	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
41	1-29	905A 910A	Bollinger	4.0	0.19	1.33	0.09	0.25	Float		3		
42	2-5	815A 820A	"	4.0	0.20	1.70	0.08	0.34		"	3		
43	2-26	900A 903A	"	4.0	0.18	1.70	0.08	0.31		"	3		
44	4-9	903A 909A	"	3.8	0.17	1.65	0.08	0.28		"	3		
45	4-16	921A 927A	"	9.0	0.77	2.34	0.10	1.8		"	6		
46	4-23	910A 917A	"	4.0	0.19	1.52	0.07	0.29		"	3		
47	5-21	827A 833A	"	5.5	0.31	1.42	0.09	0.44		"	4		
48	6-11	800A 806A	"	2.5	0.04	0.75		0.03		"	3		

F.C. Dist. Form 58 3-41

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, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	+	1.0	0.2	0.3	0.1	0.3	0.1	+	+	+
2	+	+	+	0.4	0.3	0.2	0.1	0.3	0.1	+	+	+
3	+	+	3.5	0.4	0.3	0.2	2.2	0.3	0.1	+	+	+
4	+	+	+	0.4	0.3	0.2	2.9	0.2	0.1	+	+	+
5	+	+	+	0.4	0.3	0.2	0.6	0.2	0.1	+	+	+
6	+	+	+	0.4	0.3	0.2	0.8	0.2	0.1	+	+	+
7	+	+	+	0.4	0.3	0.2	0.2	0.2	0.1	+	+	+
8	+	+	+	0.4	0.3	0.2	0.3	0.2	0.1	+	+	+
9	+	+	+	0.4	0.2	0.2	0.3	0.2	+	+	4.1	+
10	0.3	+	5.8	0.4	0.2	0.2	4.5	0.2	+	+	+	+
11	+	+	0.1	0.4	0.2	0.2	2.0	0.2	+	+	+	+
12	3.0	+	0.1	0.3	0.2	0.2	0.3	0.2	+	+	+	+
13	0.3	+	0.1	0.3	0.2	0.2	0.3	0.2	+	+	+	+
14	0.4	+	0.1	0.3	0.2	15	5	0.2	+	+	+	+
15	0.3	+	0.1	0.3	0.2	0.2	0.3	0.2	+	+	+	+
16	0.3	+	0.1	0.3	0.2	0.2	1.1	0.2	+	+	+	+
17	0.2	+	0.1	0.3	0.2	0.2	5.5	0.3	+	+	+	+
18	0.2	+	0.1	0.3	0.2	0.2	0.3	0.3	+	+	+	+
19	0.2	+	0.1	0.3	0.2	0.2	0.3	0.4	+	+	+	+
20	0.2	+	0.1	0.3	0.2	0.2	0.3	0.4	+	+	+	+
21	3.3	+	0.1	0.4	20	0.2	3.7	0.4	+	+	+	+
22	0.3	+	0.1	3.1	2.2	0.2	0.3	0.4	+	+	+	+
23	3.6	+	1.0	0.3	0.3	0.2	0.3	0.3	+	+	+	+
24	+	+	0.1	0.3	0.3	0.1	0.3	0.3	+	+	+	+
25	+	+	7.5	0.3	0.3	0.1	0.3	0.2	+	+	+	+
26	+	+	0.7	0.2	0.3	0.1	0.3	0.2	+	+	+	+
27	0.6	+	0.1	0.2	0.3	0.1	0.3	0.1	+	+	+	+
28	+	+	26	0.2	0.3	0.1	0.3	0.1	+	+	+	+
29	+	+	4.7	0.2		0.1	0.3	0.1	+	+	+	+
30	+	+	3.9	0.2		0.1	0.3	0.1	+	+	+	+
31	+		0.4	0.2		0.1		0.1		+	+	
	13.2	+	112.1	13.3	28.7	20.3	33.8	7.2	0.8	+	4.1	+
Mean	0.42	+	3.62	.43	1.02	0.65	1.13	0.23	+	+	0.13	+
Acre-Feet	26.	+	223.	26.	57.	40.	67.	14.	1.6	+	8.1	+

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

Year or Period — Mean 0.64 — Acre-Feet 463.

STATION F276R

THOMPSON CREEK SPREADING GROUNDS INTAKE
at Thompson Creek Dam

LOCATION:

On the left (east) side at the downstream side of the 3 foot x 3 foot diversion outlet thru Thompson Creek Dam.

DRAINAGE AREA:

3.7 square miles.

CHANNEL AND CONTROL:

Channel-3 foot x 3 foot concrete, covered outlet with a transition into a 5 foot diameter semi-circular flume.
Control-transition into semicircular flume acts as control at gage.

DISCHARGE MEASUREMENTS:

All flows measured by wading.

RECORDER:

Installed January 14, 1941 over a 24 inch corrugated iron pipe. A Horizontal Rational recorder was in service from October 1, 1941 to September 30, 1942.

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, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 0.05 second-feet, December 29.
Minimum no flow most of year.
1940-1942
Maximum 18.6 second-feet, April 1, 1941.
Minimum no flow most of each year.

ACCURACY:

Good.

OPERATION:

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

REMARKS:
+ flow for 1941 - 42 season.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F276-R

DISCHARGE MEASUREMENTS OF THOMPSON CREEK SPREADING GROUNDS INTAKE

AT Thompson Creek Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
21	12-29	1247P 1250P	Brewster	0.5	0.12	0.33	0.17	0.04		.6	1		FC 12

STATION F54B-R and F54R

TOPANGA CREEK above Mouth of Canyon

LOCATION:

F54B-R
On right (west) canyon wall about 400 feet upstream from the highway bridge 2 miles above mouth of canyon and about 6 miles northwest of Santa Monica.

F54R
On right (west) downstream abutment of the concrete bridge 2 miles above mouth of the canyon and about 6 miles northwest of Santa Monica.

DRAINAGE AREA:

18.0 square miles.

CHANNEL AND CONTROL:

Channel-rock and gravel.
No artificial control.

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed January 1, 1930 at Station F54R. Removed June 4, 1940. Installed June 5, 1940 at Station F54B-R over a 21 inch diameter corrugated iron pipe stilling well. Removed December 9, 1941. Reinstalled December 9, 1941 at the approximate former location of Station F54R in a new concrete house and well constructed in the abutment of the concrete bridge.
An H.C.F. recorder was in service from October 1, 1941 to September 30, 1942.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

January 1, 1930 to September 30, 1942.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 385 second-feet, December 28.
Minimum 0.05 second-foot at various times.
1930-1942
Maximum 9300 second-feet, estimated, March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Fair.
Records occasionally estimated due to loss of communication.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F54B-R / F54R

DISCHARGE MEASUREMENTS OF TOPANGA CREEK

~~NEAR~~ above Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
332	10-2	1242P / 1245P	Moon	1.3	0.29	0.86	4.18	0.25		.6	2	0	FC 22
333	10-8	1124A / 1126A	"	1.3	0.31	1.03	4.22	0.32		.6	2	0	"
334	10-23	1234P / 1238P	"	4.0	0.74	0.69	4.29	0.51		.6	4	0	"
335	11-6	1030A / 1031A	"	2.0	0.20	0.80	4.17	0.16		.6	2	0	"
336	11-19	216P / 217P	"	1.5	0.20	0.75	4.15	0.15		.6	2	0	"
337	11-27	201P / 202P	"	1.8	0.26	0.69	4.10	0.18		.6	2	0	"
338	12-4	118P / 119P	Moon	2.0	0.26	1.19	4.21	0.31		.6	2	0	FC 22
339	12-10	823A / 827A	"	3.0	0.80	1.01	4.72	0.81		.6	4	0	"
340	12-10	358P / 405P	"	5.0	1.90	3.00	4.80	5.7		.6	5	0	"
341	12-11	200P / 205P	"	4.5	1.14	1.14	4.67	1.3		.6	4	0	"
342	12-18	935A / 940A	"	4.0	0.82	0.73	4.60	0.60		.6	5	0	"
343	12-26	1140A / 1145A	"	4.0	1.23	1.30	4.72	1.6		.6	5	0	"
344	12-28	640P / 647P	"	11.0	9.30	5.23	4.97	48.6		.6	6	0	"
345	12-28	908P / 919P	Moon-Eckert	40.0	42.8	3.53	5.27	151.		.6	9	-.10	"
346	12-29	1111A / 1120A	"	21.0	10.8	2.47	4.63	26.7		.6	8	-.01	"
347	12-31	210P / 218P	Moon	Two Channels			4.09	2.5		.6	7	0	"
348	1-8	127P / 130P	"	3.0	0.94	0.85	3.94	0.80		.6	3	0	"
349	1-15	252P / 257P	"	2.6	0.78	0.67	3.88	0.52		.6	3	0	"
350	1-22	133P / 137P	"	4.0	1.02	1.37	4.12	1.4		.6	4	0	"
351	1-29	301P / 305P	"	2.5	0.75	1.33	4.02	1.0		.6	3	0	"
352	2-5	109P / 113P	"	2.2	0.61	1.11	3.96	0.68		.6	2	0	"
353	2-11	210P / 211P	"	2.2	0.56	1.02	3.90	0.57		.6	2	0	"
354	2-19	156P / 157P	"	2.2	0.54	0.96	3.93	0.52		.6	2	0	"
355	2-21	450P / 458P	Moon Eckert	11.0	5.05	1.33	4.39	6.7		.6	7	+.01	"
356	2-26	200P / 204P	Moon	3.5	0.59	1.05	4.11	0.62		.6	4	0	FC 22
357	3-5	247P / 250P	"	3.3	0.46	0.91	4.07	0.42		.6	4	0	"
358	3-12	141P / 146P	"	3.7	0.62	1.03	4.10	0.64		.6	5	0	"
359	3-14	544P / 554P	Moon-Eckert	24.0	15.8	2.78	4.84	44.0		.6	10	0	"
360	3-15	1155A / 1200N	"	10.0	4.29	0.84	4.23	3.6		.6	6	0	"
361	3-19	125P / 131P	Moon	5.0	0.89	0.96	4.11	0.85		.6	5	0	"
362	3-26	137P / 142P	"	4.5	0.70	0.80	4.07	0.56		.6	5	0	"
363	4-2	200P / 205P	"	4.6	0.66	0.79	4.12	0.52		.6	5	0	"
364	4-9	1258P / 105P	"	5.0	0.79	0.86	4.13	0.68		.6	5	0	"
365	4-11	1014A / 1020A	Moon-Eckert	5.0	1.50	1.40	4.25	2.1		.6	6	0	"
366	4-14	1215P / 1223P	"	23.0	12.0	2.48	4.71	29.5		.6	8	0	"
367	4-16	157P / 202P	Moon	5.0	1.26	0.95	4.21	1.2		.6	5	0	"
368	4-21	930P / 936P	Moon-Eckert	5.5	1.52	1.25	4.22	1.9		.6	6	0	"
369	4-30	940A / 945A	Moon	5.0	0.84	0.74	4.13	0.62		.6	5	0	"
370	5-7	115P / 119P	"	5.0	0.74	0.76	4.11	0.56		.6	5	0	"
371	5-14	153P / 159P	"	4.8	0.70	0.60	4.10	0.42		.6	5	0	"
372	5-21	130P / 135P	"	4.8	0.62	0.52	4.05	0.32		.6	4	0	"
373	5-28	222P / 230P	"	3.0	0.48	0.56	4.04	0.27		.6	5	0	"
374	6-4	200P / 206P	"	2.7	0.42	0.55	4.02	0.23		.6	5	0	"
375	6-11	125P / 129P	"	3.0	0.40	0.42	4.02	0.17		.6	4	0	"
376	6-18	127P / 130P	"	2.9	0.39	0.62	4.02	0.24		.6	3	0	"
377	6-25	237P / 242P	"	2.8	0.37	0.41	4.00	0.15		.6	4	0	"
378	7-2	122P / 127P	"	2.8	0.38	0.37	3.99	0.14		.6	5	0	"
379	7-9	146P / 150P	"	2.7	0.35	0.29	3.94	0.10		.6	4	0	"
380	7-16	155P / 159P	Moon	2.6	0.47	0.32	3.95	0.15		.6	4	0	FC 22
381	7-23	210P / 214P	"	2.6	0.31	0.26	3.93	0.08		.6	4	0	"
382	7-30	100P / 105P	"	2.6	0.26	0.27	3.92	0.07		.6	4	0	"
383	8-5	200P / 202P	Bonadiman	1.5	0.25	0.24	3.91	0.06		.6	2	0	FC 19
384	8-10	146P / 150P	"	2.0	0.22	0.54	3.92	0.12		.6	2	0	"
385	8-12	206P / 210P	"	4.0	0.48	0.21	3.90	0.10		.6	2	0	"
386	8-20	422P / 425P	Moon	2.6	0.24	0.21	3.89	0.05		.6	3	0	FC 22
387	8-26	1250P / 1253P	"	2.5	0.25	0.24	3.89	0.06		.6	3	0	"
388	9-2	130P / 133P	"	2.5	0.26	0.19	3.90	0.05		.6	2	0	"
389	9-10	103P / 105P	"	2.4	0.20	0.30	3.90	0.06		.6	2	0	"
390	9-24	128P / 130P	"	2.4	0.24	0.25	3.90	0.06		.6	2	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY.
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

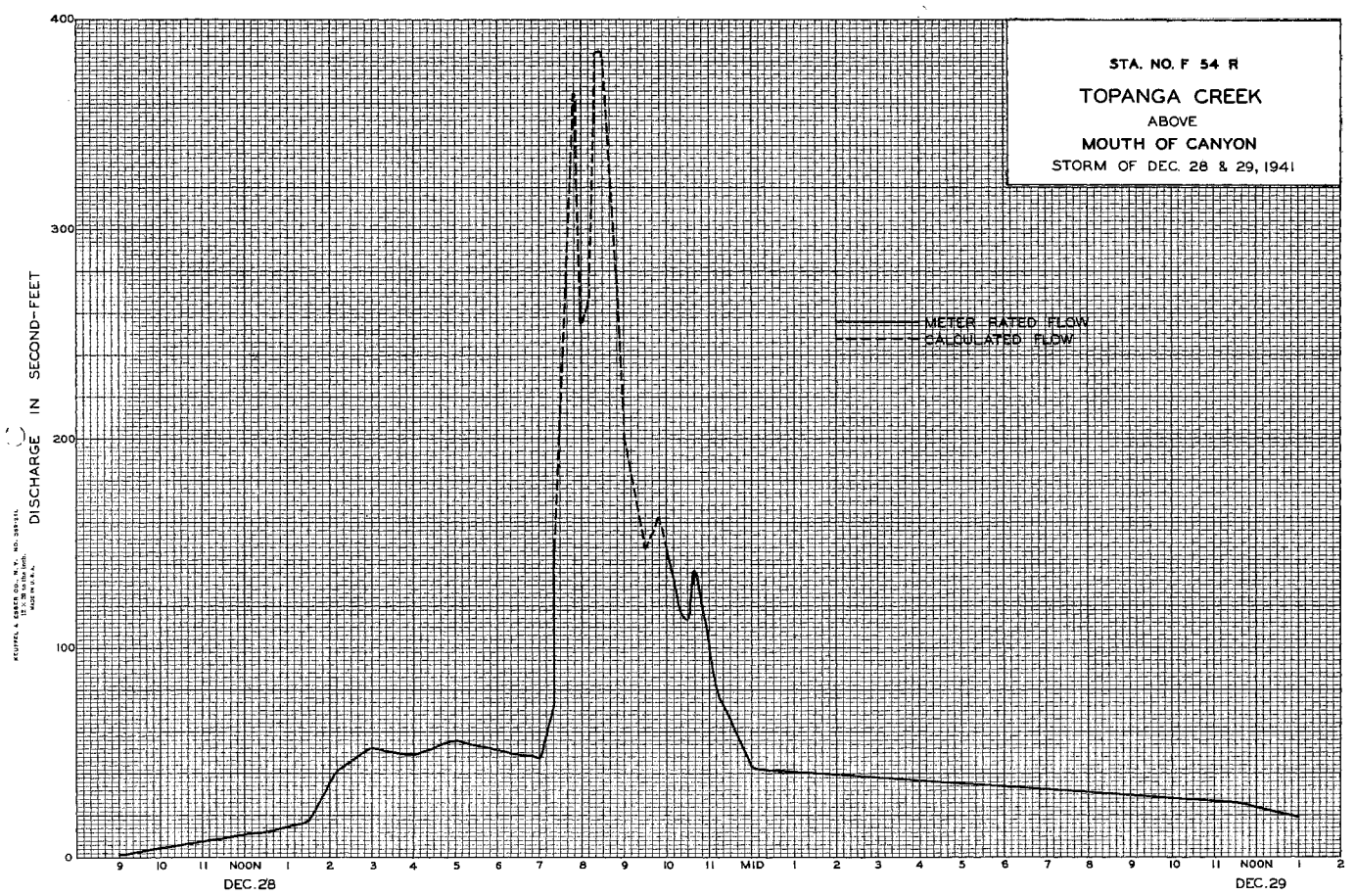
Sta. No. F54B-R / F54R

Daily discharge, in second-feet of TOPANGA CREEK above Mouth of Canyon, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	0.3	0.3	2.5	1.1	0.6	0.4	0.6	0.2	0.1	0.1	0.05
2	0.3	0.4	0.2	2.1	1.1	0.5	0.5	0.6	0.2	0.1	0.1	0.05
3	0.3	0.3	0.4	1.7	1.0	0.5	0.6	0.6	0.2	0.2	0.1	0.05
4	0.4	0.2	0.4	1.4	0.9	0.4	1.5	0.6	0.2	0.1	0.1	0.05
5	0.4	0.2	0.3	1.3	0.7	0.4	1.1	0.6	0.2	0.1	0.1	0.05
6	0.4	0.2	0.2	1.0	0.7	0.3	1.3	0.6	0.2	0.1	0.1	0.05
7	0.3	0.2	0.2	0.9	0.8	0.3	0.9	0.6	0.2	0.1	0.05	0.05
8	0.3	0.2	0.2	0.8	0.6	0.2	0.7	0.6	0.2	0.1	0.05	0.05
9	0.2	0.2	0.2	0.7	0.6	0.3	0.7	0.5	0.2	0.1	0.05	0.05
10	0.2	0.2	3.0	0.6	0.5	0.3	2.0	0.5	0.2	0.1	0.1	0.05
11	0.2	0.2	1.7	0.6	0.6	1.5	2.1	0.5	0.2	0.1	0.1	0.05
12	1.1	0.2	1.2	0.6	0.6	0.7	1.3	0.4	0.2	0.1	0.1	0.05
13	0.4	0.2	1.1	0.6	0.6	0.6	1.0	0.4	0.2	0.2	0.1	0.05
14	0.4	0.2	1.0	0.6	0.6	8.5	11	0.4	0.2	0.2	0.1	0.05
15	0.2	0.1	0.8	0.5	0.6	4.1	2.0	0.5	0.2	0.2	0.1	0.05
16	0.2	0.2	0.8	0.6	0.6	1.9	1.3	0.4	0.2	0.2	0.1	0.05
17	0.2	0.2	0.7	0.6	0.6	1.3	2.2	0.4	0.2	0.2	0.05	0.05
18	0.2	0.2	0.6	0.5	0.6	1.0	1.6	0.4	0.2	0.2	0.05	0.05
19	0.3	0.1	0.6	0.5	0.5	0.8	1.5	0.4	0.2	0.1	0.05	0.05
20	0.4	0.1	0.6	0.4	0.5	0.6	1.3	0.3	0.2	0.1	0.05	0.05
21	0.5	0.1	0.6	0.5	3.3	0.6	1.6	0.3	0.2	0.1	0.05	0.05
22	0.9	0.2	0.6	1.9	3.1	0.6	1.7	0.3	0.2	0.1	0.05	0.05
23	0.5	0.2	0.6	0.5	1.1	0.6	1.4	0.3	0.2	0.1	0.05	0.05
24	0.3	0.2	0.6	0.3	0.8	0.6	1.1	0.4	0.2	0.1	0.05	0.05
25	0.3	0.2	0.9	0.3	0.7	0.6	0.9	0.4	0.2	0.1	0.05	0.05
26	0.2	0.2	1.6	1.5	0.6	0.6	0.9	0.4	0.2	0.1	0.05	0.05
27	0.5	0.2	0.9	1.4	0.6	0.5	0.6	0.3	0.2	0.1	0.05	0.05
28	0.5	0.3	47	1.2	0.6	0.5	0.7	0.3	0.2	0.1	0.05	0.05
29	0.4	0.3	22	1.0		0.4	0.6	0.3	0.2	0.1	0.05	0.05
30	0.3	0.3	E 6	1.0		0.4	0.6	0.2	0.2	0.1	0.05	0.05
31	0.3		E 3.0	1.0		0.5		0.2		0.1	0.05	
	11.4	6.3	98.3	28.9	24.6	30.7	45.3	13.3	6.0	3.8	2.2	1.5
Mean	0.37	0.21	3.17	0.93	0.88	0.99	1.51	0.43	0.20	0.12	0.07	0.05
Acre-Feet	23.	12.	195.	57.	49.	61.	90.	26.	12.	7.5	4.4	3.0

Remarks: E = estimated.

Year or Period — Mean 0.75 — Acre-Feet 540.



STATION F252R

VERDUGO CHANNEL at Estelle Avenue

LOCATION:

On the right (north) side of channel at Estelle Avenue, 800 feet east of San Fernando Road, and about 2 miles northwest of Glendale.

DRAINAGE AREA:

22.4 square miles.

CHANNEL AND CONTROL:

Channel-rectangular concrete, 87 feet wide by 11 feet deep to bottom of invert. Invert is 1.0 foot below bottom of vertical side walls.
Channel forms control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from cable car 40 feet above station.

RECORDER:

Installed December 2, 1935 over a 20 inch x 30 inch concrete well. An H.C.F. continuous recorder was in service from October 1, 1941 to September 30, 1942.

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, 1942.
For earlier records see Stations F9R, Verdugo at Glen Oaks Boulevard, and F244R, Verdugo at Don Carlos Street.

EXTREMES OF DISCHARGE:

1941-1942
Maximum 440 second-feet, December 10.
Minimum 0.6 second-feet, December 7.
1935-1942
Maximum 4400 second-feet, estimated, March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Fair.

OPERATION:

Located, and constructed by United States Engineer Department and operated by Los Angeles County Flood Control District in co-operation with the United States Engineer Department.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F252-R

DISCHARGE MEASUREMENTS OF VERDUGO CHANNEL

AT Estelle Avenue DURING THE YEAR ENDING SEPTEMBER 30, 1942

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
27	10-27	305P 315P	Bollinger	12.0	1.49	5.44	0.24	8.1		.6 Surf.	7	-.02	FC 6
28	1-19	955A 1000A	"	5.3	0.77	3.09	0.16	2.4	Float		4	0	
29	4-2	920A 923A	"	6.5	0.54	2.41	0.16	1.3		"	3	0	
30	4-30	435P 440P	"	4.5	0.30	3.07	0.14	0.92		"	3	0	
31	5-25	1058A 1105A	"	5.5	0.48	2.29	0.18	1.1		"	6	0	
32	6-18	308P 313P	"	5.0	0.36	3.06	0.15	1.1		"	4	+.01	
33	7-9	433P 438P	"	5.0	0.37	2.22	0.15	0.82		"	4	0	
34	7-23	1020A 1025A	Luce	5.0	0.40	3.20	0.16	1.3		.6	5		FC 39
35	8-13	438P 443P	Bollinger	5.0	0.33	3.03	0.16	1.0	Float		3	0	
36	8-27	423P 428P	"	4.7	0.30	2.47	0.15	0.74		"	4	0	
37	9-10	527P 532P	"	5.0	0.31	2.42	0.15	0.75		"	4	0	

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

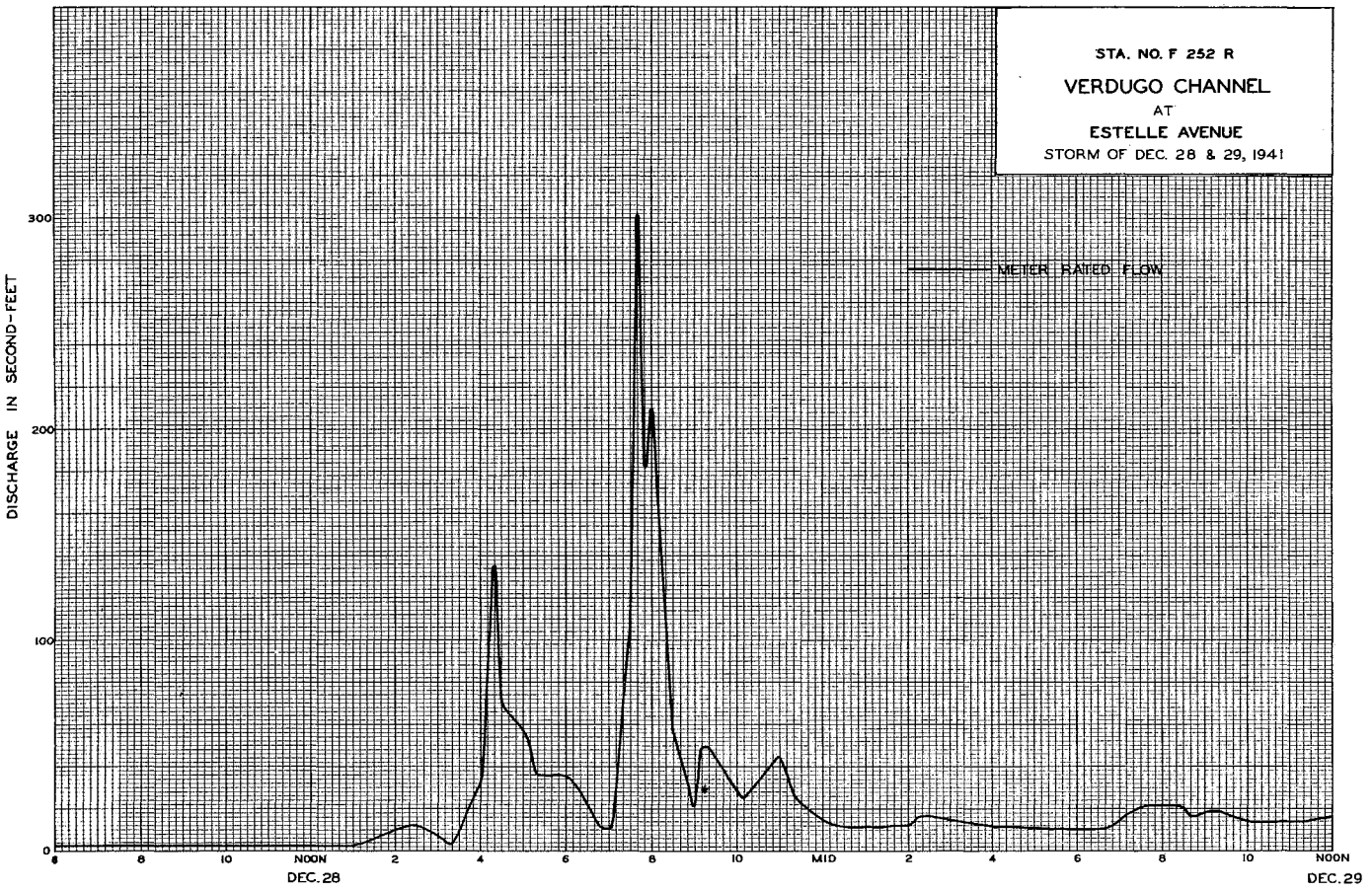
Sta. No. F252-R

Daily discharge, in second-feet of VERDUGO CHANNEL at Estelle Avenue, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.7	1.7	3.0	2.1	2.5	2.5	1.7	2.1	2.5	2.5	3.0	1.7
2	0.8	1.7	2.1	1.7	3.0	2.5	2.1	1.7	3.0	2.5	3.0	1.7
3	1.1	1.7	13	1.7	3.0	2.5	4.5	1.7	2.5	2.5	3.6	1.7
4	1.4	1.7	1.1	1.7	3.0	2.5	5	1.7	2.1	2.5	3.0	2.1
5	1.4	1.4	1.4	1.7	2.5	2.5	2.1	1.7	2.5	3.0	3.0	2.1
6	1.4	1.4	1.1	1.7	2.5	2.5	3.0	2.1	3.0	2.5	2.5	1.7
7	1.4	1.4	0.8	1.7	2.5	2.1	2.5	2.5	3.0	2.5	2.1	1.7
8	1.4	1.1	1.1	2.1	2.1	1.7	2.5	2.5	3.0	3.0	2.5	1.7
9	1.4	1.7	2.1	1.7	2.1	2.5	2.1	3.0	3.0	2.1	12	1.7
10	1.4	1.7	81	1.7	1.7	3.0	7	3.0	3.0	2.5	3.0	1.7
11	1.4	1.7	7.5	2.1	1.7	10	3.0	3.0	3.0	3.0	2.1	1.7
12	2.5	2.5	3.0	2.1	2.1	2.1	3.0	2.5	4.2	3.0	2.1	1.7
13	2.5	1.7	2.1	2.1	2.5	1.7	2.1	2.5	4.9	3.0	2.1	1.7
14	2.1	1.4	2.1	2.1	3.0	33	8	2.1	4.9	2.5	2.1	1.7
15	1.1	1.4	3.0	2.1	3.6	5.5	1.7	2.1	3.6	2.1	1.7	1.7
16	1.1	1.7	2.5	2.5	3.0	2.5	2.1	2.5	3.0	2.5	1.7	1.7
17	1.7	2.1	2.1	2.5	3.0	1.7	11	2.1	2.5	2.5	1.7	1.7
18	2.1	2.1	2.1	2.1	3.0	1.7	2.5	2.1	3.0	2.5	1.7	1.7
19	3.0	1.7	2.5	2.1	2.5	1.7	1.7	1.7	3.0	2.5	1.7	1.7
20	3.6	1.7	2.5	1.7	3.0	2.1	1.7	1.1	3.0	2.5	1.7	1.7
21	4.9	2.5	2.1	2.1	20	1.7	5	2.1	3.0	2.5	1.7	1.4
22	4.2	3.6	2.1	9	12	1.7	2.5	2.5	2.5	2.5	2.1	1.4
23	5.5	1.4	3.0	2.1	2.5	2.1	1.7	2.5	2.5	2.1	1.7	1.7
24	4.2	1.4	2.1	2.1	2.5	2.1	1.7	2.1	2.5	2.1	1.7	1.7
25	4.2	1.1	6	2.1	2.5	2.1	1.7	2.1	2.5	3.0	1.7	1.7
26	4.2	1.4	3.0	2.1	2.5	1.7	2.5	2.1	3.0	3.0	1.7	1.7
27	5.5	1.7	2.5	3.0	3.0	1.7	3.0	2.1	3.6	3.0	1.7	1.7
28	3.0	2.1	31	2.5	2.5	1.7	3.0	2.1	3.0	3.0	1.7	1.7
29	2.5	2.5	16	2.5		1.7	2.1	1.7	3.0	3.6	1.7	1.7
30	1.7	3.0	11	2.1		1.7	2.1	2.1	3.0	3.0	2.1	1.7
31	1.7		2.1	2.1		1.7		2.1		3.0	2.1	
	76.1	54.2	217.0	70.9	99.8	106.2	94.6	67.2	91.3	82.5	76.2	51.2
Mean	2.45	1.81	7.00	2.29	3.56	3.43	3.15	2.17	3.04	2.66	2.46	1.71
Acre-Feet	151.	108.	430.	141.	198.	211.	188.	133.	181.	164.	151.	102.

Remarks:

Year or Period — Mean 2.98 — Acre Feet 2160.



STATION F47R

WALNUT CREEK at Covina Boulevard

LOCATION:

On downstream side of highway bridge, about 2 miles southwest of Baldwin Park. This station is at or near the location of the station operated from 1923 to 1928 by the State Division of Water Rights.

DRAINAGE AREA:

99.0 square miles.

CHANNEL AND CONTROL:

Channel-sand and gravel.
No artificial control.

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed December 15, 1928 in a standard F.C. type house over an 18 inch diameter corrugated iron pipe stilling well.
An H.C.F. continuous recorder was in service from October 1, 1941 to September 30, 1942.

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 and Big Dalton channels.

DIVERSIONS:

Some water diverted for irrigation.

RECORDS AVAILABLE:

December 15, 1928 to September 30, 1942.
(For records prior to December 15, 1928, see State Division of Water Rights Bulletins.)

EXTREMES OF DISCHARGE:

1941-1942
Maximum 223 second-feet, December 10.
Minimum no flow most of year.
1928-1942
Maximum 8060 second-feet, January 1, 1934.
Minimum no flow most of each year.

ACCURACY:

Fair.
Communication occasionally poor due to shifting sand control.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F47-R

DISCHARGE MEASUREMENTS OF WALNUT CREEK

AT Covina Boulevard

DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
192	12-3	1107A 1130A	Brewster-Pollard	25.0	15.9	2.26	2.65	35.9		.6	7	0	FC 12
193	12-29	1020A 1030A	Brewster	34.0	12.7	1.48	2.52	18.8		.6	5	+.01	"
194	12-29	413P 425P	"	40.0	15.2	1.47	2.59	22.4		.6	5	0	"
195	3-14	555P 605P	Brewster-Smith	52.0	35.1	3.33	2.90	117.		.6	6	-.01	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

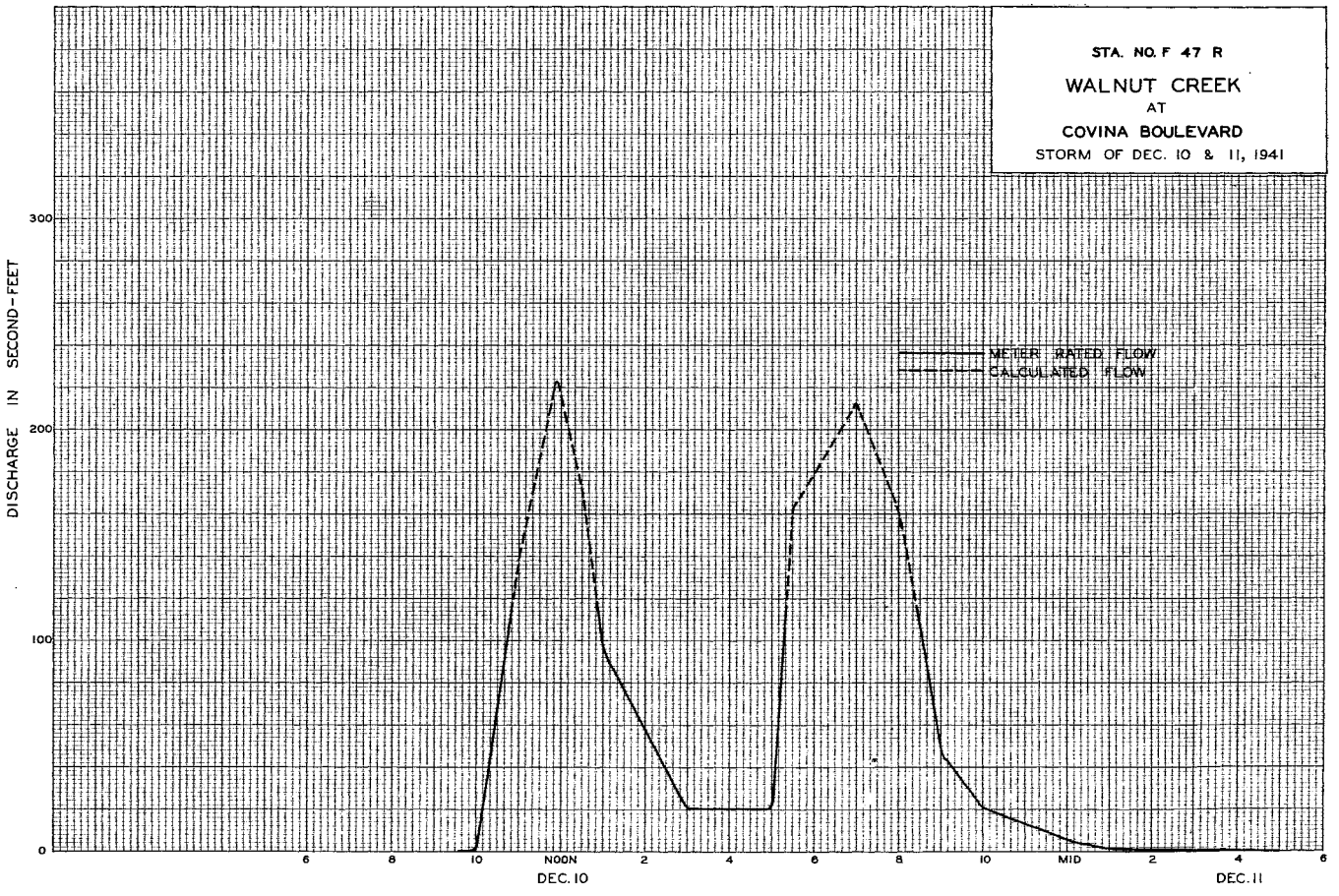
Sta. No F47-R

Daily discharge, in second-feet of WALNUT CREEK at Covina Boulevard, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	15	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	52	0	0	0	0	0	0	0	0	0
11	0	0	03	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	11	0	0	0	0	0	0
15	0	0	0	0	0	03	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	26	0	0	0	0	0	0	0
22	0	0	0	0	25	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	+	0	0	0	0	0	0	0	0	0
26	0	0	06	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	5	0	0	0	0	0	0	0	0	0
29	0	0	19	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	929	0	51	113	0	0	0	0	0	0
Mean	0	0	3.00	0	0.18	0.36	0	0	0	0	0	0
Acre-Feet	0	0	184.	0	10.	22.	0	0	0	0	0	0

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

Year or Period Mean 0.30
Acre Feet 216.



THE FOLLOWING RECORDS ARE PUBLISHED THRU THE COURTESY OF THE U.S.G.S. WATER RESOURCES BRANCH-LOS ANGELES OFFICE

STATION U1R

LOS ANGELES RIVER BASIN Arroyo Seco near Pasadena

LOCATION:

Water-stage recorder and broad-crested weir control, lat. 34°13'20", long. 118°10'40", near north line of sec. 31, T. 2 N., R. 12 W., 1½ miles upstream from Millard Canyon and 5½ miles northwest of Pasadena. Altitude of gage, about 1400 feet.

DRAINAGE AREA:

16.4 square miles.

RECORDS AVAILABLE:

December, 1910 to September, 1942.

AVERAGE DISCHARGE:

28 years (1913-15, 1916-42), 10.1 second-feet.

EXTREMES:

Maximum discharge during year, 146 second-feet, December 10 (gage height, 6.57 feet); minimum daily, 0.4 second-foot, September 30.

1910-42

Maximum discharge, 8620 second-feet, March 2, 1938, by slope-area method; practically no flow for several months in most years.

REMARKS:

Records good. No diversions above station.

COOPERATION:

Results of 28 discharge measurements furnished by Los Angeles County Flood Control District, through H. E. Hedger, chief engineer, and M. E. Salsbury, acting chief engineer during the war emergency.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U1R

DISCHARGE MEASUREMENTS OF ARROYO SECO

AT NEAR Pasadena DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	BATHIM	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1273	9-16		U.S.G.S.				4.86	3.7		.6	11	0	
1274	10-2	730A 738A	Haig	2.9	0.86	2.79	4.78	2.4		.6	6	0	FC 33
1275	10-2		U.S.G.S.				4.78	3.0		.6	11	0	
1276	10-23	218P 325P	Haig	2.9	0.96	3.85	4.85	3.7		.6	5	0	FC 33
1277	10-24		U.S.G.S.				4.93	6.9		.6	14	0	
1278	11-6	850A 900A	Haig	2.9	0.97	3.30	4.82	3.2		.6	6	0	FC 33
1279	11-17		U.S.G.S.				4.84	3.9		.6	21	0	
1280	11-19	750A 758A	Haig	2.9	1.03	3.30	4.82	3.4		.6	5	0	FC 33
1281	11-28	830A 840A	"	2.9	0.80	4.00	4.78	3.2		.6	5	0	"
1282	12-4	910A 918A	"	2.9	1.03	4.95	4.95	5.1		.6	5	0	"
1283	12-11	940A 953A	"	14.5	6.56	2.22	5.27	14.5		.6	9	0	"
1284	12-11		U.S.G.S.				5.22	14.6		.6	21	-.01	
1285	12-18	840A 848A	Haig	2.9	0.95	4.84	4.82	4.6		.6	6	0	FC 33
1286	12-18		U.S.G.S.				4.82	4.6		.6	22	0	
1287	12-26	945A 955A	Haig	2.9	1.16	5.86	4.85	6.8		.6	5	0	FC 33
1288	12-29		U.S.G.S.				5.81	33.0		.6	19	-.02	
1289	1-5		"				4.92	6.6		.6	21	0	
1290	1-15	805A 815A	Haig	9.8	4.76	0.94	4.81	4.5		.6	9	0	FC 33
1291	1-22	114P 122P	"	9.8	4.75	0.99	4.81	4.7		.6	8	0	"
1292	1-27		U.S.G.S.				4.79	4.4		.6	20	0	
1293	2-5	835A 842A	Haig	9.8	4.45	0.85	4.79	3.8		.6	9	0	FC 33
1294	2-7		U.S.G.S.				4.79	3.9		.6	21	0	
1295	2-18	847A 855A	Haig	9.8	4.44	0.83	4.80	3.7		.6	8	0	FC 33
1296	2-21		U.S.G.S.				4.83	3.6		.6	17	0	
1297	2-22		U.S.G.S.				5.31	15.0		.6	20	-.01	
1298	3-3		"				4.90	4.2		.6	17	0	
1299	3-5	905A 916A	Haig	10.0	5.03	0.79	4.91	4.0		.6	9	0	FC 33
1300	3-11		U.S.G.S.				5.04	6.1		.6	17	-.01	
1301	3-15	124P 130P	Haig	10.0	6.10	1.20	5.08	7.3		.6	8	0	FC 33
1302	3-15		U.S.G.S.				5.08	6.0		.6	16	0	
1303	3-18		"				4.97	4.8		.6	19	0	
1304	3-31		"				4.95	3.3		.6	16	0	
1305	4-2	320P 330P	Haig	10.5	4.72	0.69	4.96	3.3		.6	7	0	
1306	4-11		U.S.G.S.				5.03	5.5		.6	19	0	
1307	4-16	825A 835A	Haig	9.9	5.51	1.01	5.00	5.6		.6	10	0	FC 33
1308	4-20		U.S.G.S.				4.95	5.2		.6	16	0	
1309	4-30	828A 837A	Haig	9.7	5.03	0.88	4.89	4.4		.6	8	0	FC 33
1310	5-4		U.S.G.S.				4.89	3.3		.6	18	0	
1311	5-14	512P 522P	Cole	9.8	3.99	0.60	4.85	2.4		.6	6	0	FC 24
1312	5-18		U.S.G.S.				4.85	2.9		.6	18	0	
1313	5-28	827A 835A	Haig	8.5	3.55	0.65	4.80	2.3		.6	7	0	FC 33
1314	6-4		U.S.G.S.				4.77	1.9		.6	15	0	
1315	6-11	912A 922A	Haig	8.0	4.03	0.52	4.72	2.1		.6	8	0	FC 33
1316	6-17		U.S.G.S.				4.71	1.6		.6	15	0	
1317	6-18	900A 908A	Haig	8.1	4.04	0.49	4.72	2.0		.6	7	0	FC 33
1318	6-30		U.S.G.S.				4.70	1.4		.6	13	0	
1319	7-8	300P 314P	Haig-Brewster	4.8	2.68	0.31	4.66	0.84		.6	5	0	FC 33
1320	7-11		U.S.G.S.				4.70	1.0		.6	17	0	
1321	7-22	430P 442P	Brewster	4.0	1.16	0.78	4.65	0.90		.6	4	0	FC 12
1322	7-30		U.S.G.S.				4.65	0.59		.6	13	0	
1323	8-5	848A 856A	Haig	3.6	0.80	0.63	4.64	0.50		.6	5	0	FC 33
1324	8-10		U.S.G.S.				4.72	1.8		.6	20	-.01	
1325	8-19	450P 455P	Haig	3.5	1.07	0.74	4.64	0.79		.6	4	0	
1326	8-29		U.S.G.S.				4.64	0.67		.6	14	0	
1327	9-3	920A 930A	Haig	3.4	1.10	0.74	4.64	0.81		.6	4	0	FC 33
1328	9-11		U.S.G.S.				4.65	0.75		.6	7	0	
1329	9-17	806A 813A	Haig	3.3	0.93	0.80	4.63	0.74		.6	4	0	FC 33
1330	10-1		U.S.G.S.				4.64	0.38		.6	7	0	

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U1R

Daily discharge, in second-feet of ARROYO SECO near Pasadena, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.2	3.9	3.2	8	4.0	4.1	3.0	4.1	2.2	1.2	0.6	0.8
2	3.0	3.7	2.9	7	4.0	4.1	3.1	4.1	2.2	1.1	0.5	0.8
3	3.0	3.6	4.0	7	3.9	4.1	3.4	3.6	2.2	1.1	0.5	0.8
4	3.2	3.4	3.6	7	3.9	4.1	3	3.3	2.0	1.1	0.5	0.8
5	3.2	3.3	3.2	6.5	3.7	4.0	5	3.3	1.9	1.1	0.5	0.8
6	3.3	3.3	3.0	6	3.7	3.8	5	3.3	1.9	0.9	0.5	0.8
7	3.2	3.2	2.9	6	3.9	3.6	4.7	3.0	2.0	1.1	0.5	0.8
8	3.0	3.3	3.0	5.5	3.7	3.6	4.5	2.8	2.0	0.8	0.5	0.8
9	2.9	3.3	3.0	5.5	3.7	3.6	4.5	2.8	2.2	0.8	1.3	0.7
10	2.8	3.4	3.9	5	3.4	3.6	6	3.0	2.2	0.8	2.6	0.7
11	2.6	3.6	1.6	4.9	3.6	5	6	3.0	2.2	0.8	1.2	0.7
12	3.2	3.7	7	4.8	3.6	4.3	5.5	2.8	2.2	0.8	1.1	0.7
13	3.2	3.7	5	4.6	3.6	4.1	5	2.7	2.0	0.8	1.1	0.7
14	2.9	3.9	4.8	4.6	3.6	8	10	2.6	1.8	0.8	1.0	0.7
15	2.6	3.7	4.6	4.4	3.6	8.5	7	2.6	1.8	0.7	1.0	0.7
16	2.6	3.7	4.8	4.4	3.6	5.5	5.5	2.7	1.7	0.8	0.9	0.8
17	2.6	3.7	4.6	4.3	3.7	5	9.5	2.8	1.7	0.8	0.8	0.8
18	2.6	3.7	4.6	4.3	3.7	4.9	6.5	2.8	1.9	0.8	0.8	0.8
19	2.8	3.6	4.6	4.3	3.7	4.7	5.5	2.6	1.9	0.8	0.8	0.8
20	3.9	3.3	4.8	4.3	3.7	4.5	5	2.4	1.8	0.8	0.8	0.7
21	4.1	3.0	4.9	4.3	6	4.1	6.5	2.3	1.7	0.8	0.8	0.7
22	4.6	3.0	5	4.6	20	4.1	6	2.3	1.6	0.9	0.8	0.6
23	4.6	3.0	6	4.3	6	4.0	5	2.4	1.5	0.8	0.8	0.6
24	7	3.0	6	4.3	4.5	4.0	4.5	2.6	1.5	0.8	0.8	0.6
25	5.5	3.0	6	4.4	4.1	3.8	4.3	2.7	1.5	0.8	0.8	0.5
26	4.9	3.0	7	4.4	4.0	3.6	4.5	2.6	1.5	0.8	0.8	0.5
27	5	3.0	6.5	4.4	4.1	3.4	4.5	2.3	1.5	0.7	0.7	0.5
28	4.9	3.2	11	4.3	4.1	3.3	4.9	2.3	1.4	0.7	0.7	0.5
29	4.4	3.2	32	4.3		3.1	4.5	2.3	1.3	0.6	0.7	0.5
30	4.1	3.2	21	4.1		3.1	4.3	2.3	1.3	0.6	0.8	0.4
31	4.0		10	4.1		3.0		2.3		0.6	0.8	
	112.9	101.6	244.2	155.9	127.1	132.6	161.7	86.7	54.6	26.0	26.0	20.6
Mean	3.64	3.39	7.88	5.03	4.54	4.28	5.39	2.80	1.82	0.84	0.84	0.69
Acre-Feet	224.	202.	484.	309.	252.	263.	321.	172.	108.	52.	52.	41.

Remarks:

Year or Period — Mean 3.42 — Acre Feet 2480.

STATION U9R

SAN GABRIEL RIVER BASIN Dalton Creek near Glendora

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., a quarter of a mile upstream from mouth of canyon, and 2½ miles northeast of Glendora. Altitude of gage, about 1125 feet (from topographic map).

DRAINAGE AREA:

7.5 square miles.

RECORDS AVAILABLE:

December, 1919 to September, 1942.

AVERAGE DISCHARGE:

22 years (1920-42), 1.23 second-feet.

EXTREMES:

Maximum daily discharge during year, 1.6 second-feet, October 2, July 25; no flow for several periods.

1919-1942

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

REMARKS:

Records good except those for the period of no gage-height record, which are fair. Glendora Irrigation Company diverts water above gage through a 10 inch pipe line. Storage at flood-control dam about 1 mile upstream.

COOPERATION:

Results of 48 discharge measurements furnished by Los Angeles County Flood Control District, through H. E. Hedger, chief engineer, and M. E. Salsbury, acting chief engineer during the war emergency.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U9R

DISCHARGE MEASUREMENTS OF DALTON CREEK

AT NEAR Glendora DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
692	10-3		U.S.G.S.				0.61	2.6		.6	12	0	
693	10-8	1114A 1120A	Brewster	1.5	0.48	0.60	0.21	0.29		.6	3	0	FC 12
694	10-15	500P 503P	"	1.0	0.12	0.17	0.03	0.02		.6	2	0	"
695	10-22	1115A 1120A	"	1.5	0.52	0.79	0.25	0.41		.6	3	0	"
696	10-29	1045A 1050A	"	1.5	0.54	0.61	0.20	0.33		.6	3	0	"
697	11-5	1126A 1131A	"	1.0	0.26	0.23	0.07	0.06		.6	2	0	"
698	11-12	1030A 1035A	"	1.0	0.44	0.86	0.21	0.38		.6	2	0	"
699	11-18	435P 440P	"	1.0	0.34	0.68	0.14	0.23		.6	2	0	"
700	11-26	1030A 1035A	"	1.0	0.39	0.85	0.20	0.33		.6	2	0	"
701	11-27		U.S.G.S.				0.18	0.27	Float			0	
702	12-5	955A 1000A	Brewster	1.0	0.37	0.78	0.20	0.29		.6	2	0	FC 12
703	12-10	940A 950A	"	5.0	2.26	0.58	0.57	1.3		.6	5		"
704	12-11		U.S.G.S.				0.36	0.61		.6	5	0	
705	12-12		"				0.29	0.41		.6	10	0	
706	12-17	1113A 1118A	Brewster	1.0	0.34	0.74	0.16	0.25		.6	2	0	FC 12
708	12-23	318P 323P	"	1.0	0.38	0.87	0.20	0.33		.6	2	0	"
709	12-29		U.S.G.S.				0.44	0.76		.6	5	0	
710	12-31	1005A 1012A	Brewster	3.0	1.27	0.57	0.34	0.73		.6	4	0	FC 12
711	1-7	1015A 1020A	"	1.0	0.39	0.69	0.20	0.27		.6	2	0	"
712	1-7		U.S.G.S.				0.20	0.21		.6	4	0	
713	1-14	1225P 1230P	Brewster	1.5	0.60	0.37	0.17	0.22		.6	3	0	FC 12
714	1-21	430P 436P	"	1.5	0.50	0.52	0.15	0.26		.6	3	0	"
715	1-26		U.S.G.S.				0.15	0.22		.6	3	0	
716	1-28	1010A 1015A	Brewster	1.5	0.55	0.42	0.16	0.23		.6	3	0	FC 12

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U9R

DISCHARGE MEASUREMENTS OF DALTON CREEK

AT NEAR Glendora DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
741	5-20		U.S.G.S.				0.07	0.027		.2	6	0	
742	5-27	1014A / 1017A	Brewster	0.5	0.13	0.46	0.07	0.06		.6	1	0	FC 12
743	6-2		U.S.G.S.				0.04	0.06	F.Vel.				
744	6-3	952A / 955A	Brewster	0.5	0.13	0.54	0.04	0.07		.6	1	0	FC 12
745	6-10	1002A / 1005A	"	0.5	0.13	0.31	0.03	0.04		.6	1	0	"
746	6-15		U.S.G.S.				0.02	0.012	F.Vel.				
747	6-17	928A / 931A	Brewster	0.5	0.12	0.25	0.02	0.03		.6	1	0	FC 12
748	6-29		U.S.G.S.				0.03	0.03	F.Vel.				
749	7-1	946A / 950A	Brewster	1.0	0.12	0.08	0.02	0.01		.6	2	0	FC 12
750	7-27		U.S.G.S.				0.14	0.15	F. Vel.				
751	7-29	1042A / 1045A	Brewster	0.5	0.12	0.33	0.03	0.04		.6	1	0	FC 12
752	8-5	925A / 930A	"	1.0	0.36	0.69	0.16	0.25		.6	2	0	"
753	8-10		U.S.G.S.				0.02	0.015	F.Vel.				
754	8-11	1138A / 1142A	Haig	0.50	0.10	0.20	0.03	0.02		.6	1	0	FC 33
755	8-18	140P	"	0.4	0.03	0.10	0.03	0.003	Float			0	
756	8-24		U.S.G.S.				0.24	0.39		.6	10	-.01	
757	8-26	331P / 335P	Brewster	0.5	0.14	0.29	0.13	0.04		.6	1	0	FC 12
758	9-2	1050A / 1055A	"	1.0	0.12	0.50	0.10	0.06		.6	2	0	"
759	9-8	1026A / 1030A	"	1.0	0.12	0.42	0.08	0.05		.6	2	0	"
760	9-15		U.S.G.S.				0.07	0.05	F. Vel.				
761	9-16	1058A / 1102A	Brewster	1.0	0.12	0.33	0.07	0.04		.6	2	0	FC 12
762	9-23	1146A / 1150A	"	1.0	0.16	0.12	0.06	0.02		.6	2	0	"
763	9-30	936A / 940A	"	1.0	0.14	0.14	0.04	0.02		.6	2	0	"
764	10-2		U.S.G.S.				0.03	0.04	F.Vel.				

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
717	2-4	145P / 150P	Brewster	1.0	0.34	0.38	0.14	0.13		.6	2	0	FC 12
718	2-6		U.S.G.S.				0.14	0.14		.6	6	0	
719	2-11	1045A / 1050A	Brewster	1.0	0.36	0.36	0.13	0.13		.6	2	0	FC 12
720	2-18	408P / 412P	"	1.0	0.34	0.29	0.11	0.10		.6	2	0	"
721	2-20		U.S.G.S.				0.11	0.07		.6	6	0	
722	2-25	1035A / 1040A	Brewster	1.0	0.41	0.73	0.19	0.30		.6	2	0	FC 12
723	3-4		U.S.G.S.				0.15	0.13		.6	6	0	
724	3-4	1140A / 1145A	Brewster	1.0	0.39	0.44	0.15	0.17		.6	2	0	FC 12
725	3-11	952A / 957A	"	1.0	0.43	0.58	0.19	0.25		.6	2	0	"
726	3-12		U.S.G.S.				0.19	0.20		.6	9	0	
727	3-18	335P / 340P	Brewster	1.0	0.39	0.82	0.22	0.32		.6	2	0	FC 12
728	3-25	1000A / 1005A	"	1.0	0.36	0.56	0.17	0.20		.6	2	0	"
729	4-1	1040A / 1045A	"	1.0	0.32	0.38	0.13	0.12		.6	2	0	"
730	4-1		U.S.G.S.				0.12	0.09		.6	8	0	
731	4-8	1000A / 1015A	Brewster	1.0	0.32	0.44	0.14	0.14		.6	2	0	FC 12
732	4-11		U.S.G.S.				0.20	0.21	Float				
733	4-15	947A / 952A	Brewster	1.0	0.33	0.76	0.20	0.25		.6	2	0	FC 12
734	4-21		U.S.G.S.				0.18	0.19		.6	6	+.01	
735	4-22	942A / 947A	Brewster	1.0	0.36	0.78	0.19	0.28		.6	2	0	FC 12
736	4-29	1030A / 1035A	"	1.0	0.34	0.53	0.16	0.18		.6	2	0	"
737	5-5		U.S.G.S.				0.09	0.06		.6	6	0	
738	5-6	1006A / 1012A	Brewster	1.0	0.32	0.31	0.10	0.10		.6	2	0	FC 12
739	5-13	320P / 325P	"	0.5	0.16	0.38	0.08	0.06		.6	1	0	"
740	5-20	955A / 1000A	"	0.5	0.16	0.38	0.07	0.06		.6	1	0	"

F.C. Dist. Form 62 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No U9R

Daily discharge, in second-feet of DALTON CREEK near Glendora, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.2	0.3	0.6	0.2	0.2	0.1	0.1	0.1	0	0	0.1
2	1.6	0.2	0.3	0.5	0.2	0.2	0.1	0.1	0.1	0	0	0.1
3	1.5	0.1	0.5	0.4	0.2	0.2	0.1	0.1	0.1	0	0	0.1
4	0.6	0.1	0.4	0.3	0.1	0.2	0.2	0.1	0.1	0	0.3	0.1
5	0.7	0.2	0.3	0.5	0.1	0.1	0.2	0.1	0.1	0	0.2	0.1
6	0.9	0.2	0.3	0.5	0.2	0.1	0.2	0.1	0.1	0	0	0.1
7	0.4	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0	0	0.1
8	0.3	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0	0	0.1
9	0.2	0.1	0.3	0.2	0.2	0.1	0.1	0.1	0	0	0	0.1
10	0.1	0.2	1.5	0.2	0.2	0.1	0.2	0.1	0	0	0	0.1
11	0.1	0.2	0.6	0.2	0.1	0.2	0.2	0.1	0	0	0	0.1
12	0.1	0.3	0.4	0.3	0.1	0.2	0.2	0.1	0	0	0	0.1
13	0.2	0.3	0.4	0.3	0.1	0.2	0.2	0.1	0	0	0.2	0.1
14	0.1	0.3	0.4	0.2	0.1	0.9	0.2	0.1	0	0	0.4	0.1
15	0	0.3	0.4	0.3	0.1	0.5	0.2	0.1	0	0	0.3	0.1
16	0	0.3	0.3	0.3	0.1	0.4	0.2	0.1	0	0	0.3	0
17	0.1	0.3	0.2	0.3	0.1	0.4	0.3	0.1	0	0	0	0
18	0.2	0.3	0.2	0.3	0.1	0.4	0.2	0.1	0	0	0	0
19	0.2	0.3	0.2	0.3	0.1	0.3	0.2	0	0	0	0.2	0
20	0.2	0.3	0.2	0.3	0.1	0.3	0.2	0	0	0	0.3	0
21	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0	0	0.3	0
22	0.4	0.3	0.2	0.2	0.4	0.2	0.2	0.1	0	0	0.4	0
23	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.1	0	0	0.4	0
24	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.1	0	0.6	0.4	0
25	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.1	0	1.6	0.2	0
26	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0	0.6	0.2	0
27	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0	0.2	0.2	0
28	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0	0.1	0.2	0
29	0.3	0.3	0.8	0.2		0.1	0.2	0.1	0.1	0	0.1	0
30	0.2	0.3	0.7	0.2		0.1	0.1	0.1	0	0	0.1	0
31	0.2		0.7	0.2		0.1		0.1		0	0.1	
	10.5	7.4	11.7	8.3	4.5	7.1	5.5	3.0	0.9	3.1	4.8	1.5
MEAN	0.34	0.25	0.38	0.27	0.18	0.23	0.18	0.10	0.03	0.10	0.15	0.05
ACRE-FEET	21.	15.	23.	16.	9.7	14.	11.	6.0	1.8	6.1	9.5	3.0

Remarks:

YEAR OR PERIOD MEAN 0.19 ACRE FEET 136.

STATION U2R

LOS ANGELES RIVER BASIN Eaton Creek near Pasadena

LOCATION:

Water-stage recorder and broad-crested weir control, lat. 34°11'40", long. 118°06'15", in SE¼ sec. 2, T. 1 N., R. 12 W., at mouth of canyon, just upstream from new bridge on old Mount Wilson toll road, and 4 miles northeast of Pasadena. Altitude of gage, about 1230 feet (from topographic map).

DRAINAGE AREA:

6.5 square miles.

RECORDS AVAILABLE:

March, 1918 to September, 1942.

AVERAGE DISCHARGE:

24 years, 2.60 second-feet. Average combined discharge of creek and diversion, 24 years, 3.72 second-feet.

REMARKS:

Records good.

EXTREMES:

Maximum discharge during year, 54 second-feet, December 10 (gage height, 1.33 feet); no flow for several months.

1918-42

Maxium discharge, 2400 second-feet, March 2, 1938, from record of inflow to Eaton flood-control reservoir; no flow for some periods in each year.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U2R

DISCHARGE MEASUREMENTS OF EATON CREEK

~~near~~ Pasadena DURING THE YEAR ENDING SEPTEMBER 30, 1942

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	DATUM	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
360	10-24		U.S.G.S.				0.11	0.40		.6	8	0	
361	12-11		"				0.10	0.44		.6	5	+.01	
362	12-29		"				0.70	10.8		.6	22	-.01	
363	2-22		"				0.41	4.9		.6	21	0	

F.C. Dist. Form 52 2-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No U2R

Daily discharge, in second-feet of EATON CREEK near Pasadena for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0		0	0.2	0	0	0					
2	0		0	1.5	0	0	0					
3	0		0.1	0	0	0	0					
4	0		0.1	0	0	0	0.9					
5	0		0	0	0	0	0					
6	0		0	0	0	0	0					
7	0		0	0	0	0	0					
8	0		0	0	0	0	0					
9	0		0	0	0	0	0					
10	0		12	0	0	0	0					
11	0		2.6	0	0	0.1	0					
12	0	No flow	0.1	0	0	0	0	No flow	No flow	No flow	No flow	No flow
13	0		0	0	0	0	0					
14	0		0	0	0	1.5	0					
15	0		0	0	0	1.1	0					
16	0		0	0	0	0	0					
17	0		0	0	0	0	0					
18	0		0	0	0	0	0					
19	0		0	0	0	0	0					
20	0		0	0	0	0	0					
21	0		0	0	0.7	0	0					
22	E 0.8		0	0	7	0	0.1					
23	E 2.5		0.1	0	1.4	0	1.4					
24	E 1.4		0	0	0	0	0.1					
25	0		0.3	0	0	0	0					
26	0		0.2	0	0	0	0					
27	0		0	0	0	0	0					
28	0		3.1	0	0	0	0					
29	0		13	0		0	0					
30	0		9	0		0	0					
31	0		1.9	0		0						
	4.7		42.5	1.7	9.1	2.7	2.5					
Mean	0.15	0	1.37	0.05	0.32	0.09	0.08	0	0	0	0	0
Acre-Feet	9.3	0	8.4	3.4	18.	5.4	5.0	0	0	0	0	0

Remarks: E = estimated.

Year or Period — Mean 0.17 — Acre Feet 125

Diversion by city of Pasadena. Records furnished by city of Pasadena.

Mean												
Acre-Feet	142	126	145	159	102	127	149	102	72	45	38	34

Remarks:

Year or Period — Mean — Acre Feet 1,240

STATION U7R

SAN GABRIEL RIVER BASIN Fish Creek near Duarte

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 1000 feet (from topographic map).

DRAINAGE AREA:

6.5 square miles.

RECORDS AVAILABLE:

July to September, 1916, July, 1917 to September, 1942.

AVERAGE DISCHARGE:

25 years (1917-42), 4.23 second-feet.

EXTREMES:

Maximum discharge during year, 44 second-feet, December 10 (gage height, 1.41 feet); minimum daily discharge, 0.1 second-foot many days in July, August, and September.

1916-42

Maximum discharge, about 2180 second-feet, April 4, 1925; no flow during periods in 1919-21, 1924, 1929-30.

REMARKS:

Records fair. No diversions or regulation above station.

COOPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U7R

DISCHARGE MEASUREMENTS OF FISH CREEK

AT OR NEAR Duarte DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1414	9-19		U.S.G.S.				0.31	1.4		.6	10	0	
1415	10-3		"				0.25	0.87		.6	9	0	
1416	10-9	127P 135P	Haig	7.5	5.02	0.28	0.30	1.4		.6	7	0	FC 33
1417	10-24		U.S.G.S.				0.35	2.0		.6	11	0	
1418	10-30	1223P 1230P	Haig-Middleton	11.5	2.90	0.48	0.33	1.4		.6	6	0	FC 33
1419	11-3		U.S.G.S.				0.32	1.8		.6	18	0	
1420	11-13	937A 946A	Middleton	12.0	3.44	0.70	0.30	2.4		.6	6	0	FC 36
1421	11-27		U.S.G.S.				0.26	1.3		.6	11	0	
1422	12-4	145P 158P	Haig	7.5	1.95	0.87	0.27	1.7		.6	7	0	FC 33
1423	12-12		U.S.G.S.				0.35	2.8		.6	19	0	
1424	12-19		"				0.28	0.78		.6	10	0	
1425	12-29		"				1.28	17.5		.6	15	-.01	
1426	1-8		"				0.41	3.0		.6	14	0	
1427	1-15	300P 310P	Haig	8.0	2.54	0.94	0.33	2.4		.6	7	0	FC 33
1428	1-17		U.S.G.S.				0.31	1.0		.6	5	0	
1429	1-26		"				0.34	1.6		.6	18	0	
1430	1-29	145P 150P	Haig	6.0	3.70	0.36	0.33	1.3		.6	6	0	FC 33
1431	2-6		U.S.G.S.				0.34	1.4		.6	19	0	
1432	2-11	110P 120P	Haig	6.0	1.84	0.81	0.34	1.5		.6	7	0	FC 33
1433	2-20		U.S.G.S.				0.34	1.3		.6	16	0	
1434	2-22		"				0.53	3.6		.6	24	0	
1435	2-26	1248P 1253P	Haig	9.2	2.34	0.69	0.37	1.6		.6	7	0	FC 33
1436	3-3		U.S.G.S.				0.35	1.5		.6	19	0	
1437	3-11		"				0.46	2.2		.6	20	-.02	
1438	3-12	143P 149P	Haig	9.1	2.45	0.82	0.38	2.0		.6	7	0	FC 33
1439	3-19		U.S.G.S.				0.40	2.4		.6	17	0	
1440	3-26	1240P 1250P	Haig	8.5	2.43	0.87	0.33	2.1		.6	6	0	FC 33
1441	3-31		U.S.G.S.				0.30	1.4		.6	16	0	
1442	4-9	1240P 1246P	Haig	7.3	1.96	0.87	0.32	1.7		.6	8	0	FC 33
1443	4-11		U.S.G.S.				0.43	2.5		.6	21	0	
1444	4-21		"				0.44	2.6		.6	13	0	
1445	5-5		"				0.29	1.2		.6	13	0	
1446	5-14	1107A 1120A	Cole	7.0	1.73	0.58	0.30	1.0		.6	8	0	FC 24
1447	5-20		U.S.G.S.				0.26	1.0		.6	16	0	
1448	6-4		"				0.26	1.0		.6	13	0	
1449	6-4	138P 147P	Haig	6.3	1.34	0.57	0.25	0.76		.6	7	0	FC 33
1450	6-16		U.S.G.S.				0.23	0.83		.6	14	0	
1451	6-25	1255P 103P	Haig	5.3	1.21	0.46	0.20	0.56		.6	7	0	FC 33
1452	6-29		U.S.G.S.				0.17	0.48		.6	11	0	
1453	7-8	1042A 1048A	Haig-Brewster	1.5	0.33	0.58	0.10	0.19		.6	3	0	FC 33
1454	7-14		U.S.G.S.				0.11	0.13		.6	18	0	
1455	7-22	1110A 1118A	Brewster	1.5	0.36	0.72	0.10	0.26		.6	3	0	FC 12
1456	7-29		U.S.G.S.				0.08	0.07	Vol.			)	
1457	8-5	1245P 1250P	Haig	1.2	0.17	0.30	0.06	0.05		.6	2	0	FC 33
1458	8-11		U.S.G.S.				0.12	0.20		.6	8	0	
1459	8-19	1201P 1205P	Haig	1.3	0.26	0.50	0.08	0.13		.6	2	0	FC 33
1460	8-29		U.S.G.S.				0.05	0.12		.6	5	0	
1461	9-3	1250P 1259P	Haig	1.5	0.30	1.03	0.10	0.31		.6	3	0	FC 33
1462	9-17		U.S.G.S.				0.06	0.07		.6	7	0	
1463	10-2		"				0.08	0.09		.6	8	0	

F.C. Dist. Form 82 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U7R

Daily discharge, in second-feet of FISH CREEK near Duarte, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	1.7	1.2	4.9	1.2	1.5	1.4	1.6	1.0	0.5	0.1	0.3
2	0.9	1.7	1.2	4.1	1.2	1.4	1.4	1.6	1.0	0.4	0.1	0.3
3	0.8	1.7	2.8	3.5	1.2	1.5	1.5	1.5	1.0	0.4	0.1	0.3
4	0.9	1.6	1.7	3.4	1.3	1.4	4.7	1.3	0.9	0.4	0.1	0.3
5	1.0	1.6	1.4	3.3	1.3	1.3	2.0	1.2	0.8	0.3	0.1	0.2
6	1.2	1.5	1.3	3.2	1.4	1.3	1.9	1.3	0.8	0.2	0.1	0.2
7	1.2	1.5	1.3	2.9	1.4	1.2	1.8	1.2	0.8	0.2	0.1	0.2
8	1.5	1.5	1.3	2.9	1.4	1.2	1.7	1.2	0.9	0.2	0.1	0.1
9	1.3	1.5	1.4	2.7	1.4	1.2	1.7	1.2	0.9	0.2	0.1	0.1
10	1.1	1.5	2.3	2.6	1.4	1.2	2.1	1.2	0.8	0.2	0.2	0.1
11	1.1	1.5	4.6	2.3	1.5	1.7	2.1	1.1	0.8	0.3	0.2	0.2
12	1.5	1.8	3.0	2.3	1.5	2.1	1.8	1.0	0.9	0.3	0.2	0.2
13	1.8	1.6	2.4	2.3	1.5	2.0	1.7	1.0	0.9	0.3	0.2	0.2
14	1.7	1.6	2.1	2.4	1.4	5	4.2	0.9	0.8	0.3	0.2	0.1
15	1.6	1.5	1.8	2.4	1.4	6	2.7	0.9	0.8	0.3	0.2	0.1
16	1.5	1.5	1.6	2.2	1.4	3.7	2.2	1.0	0.8	0.3	0.2	0.1
17	1.5	1.6	1.5	2.2	1.4	2.8	2.9	1.0	0.8	0.3	0.2	0.1
18	1.5	1.5	1.4	2.0	1.4	2.6	2.2	1.0	0.7	0.3	0.1	0.1
19	2.1	1.5	1.2	1.8	1.3	2.3	1.9	0.9	0.7	0.2	0.1	0.2
20	2.3	1.5	1.2	1.7	1.3	2.2	1.8	0.8	0.6	0.2	0.1	0.1
21	2.2	1.4	1.2	1.6	2.8	2.1	2.4	0.8	0.5	0.2	0.1	0.1
22	3.2	1.4	1.2	1.9	8.5	2.1	2.2	1.0	0.5	0.2	0.1	0.1
23	2.1	1.4	2.6	1.6	2.4	2.1	1.9	1.0	0.5	0.2	0.1	0.1
24	2.1	1.3	1.6	1.6	1.9	2.1	1.6	1.0	0.4	0.1	0.1	0.1
25	1.9	1.2	1.6	1.5	1.7	2.1	1.6	1.0	0.5	0.1	0.1	0.1
26	1.8	1.2	2.7	1.5	1.6	2.0	1.6	1.0	0.5	0.1	0.1	0.1
27	2.2	1.1	1.6	1.4	1.6	1.9	1.6	1.0	0.6	0.1	0.1	0.1
28	2.1	1.0	5	1.4	1.5	1.7	1.8	0.9	0.6	0.1	0.1	0.1
29	1.9	1.3	1.8	1.4		1.6	1.6	0.9	0.5	0.1	0.2	0.1
30	1.8	1.3	1.0	1.3		1.5	1.6	1.0	0.5	0.1	0.2	0.1
31	1.7		7	1.2		1.4		1.0		0.1	0.2	
	50.5	44.0	109.9	71.5	49.3	64.2	61.6	33.5	21.8	7.2	4.2	4.5
MEAN	1.63	1.47	3.55	2.31	1.76	2.07	2.05	1.08	0.73	0.23	0.14	0.15
ACRE-FEET	100.	87.	218.	142.	98.	127.	122.	66.	43.	14.	8.3	8.9

Remarks:

YEAR OR PERIOD MEAN 1.43 ACRE-FEET 1030.

STATION U12R

LOS ANGELES RIVER BASIN Haines Creek near Tujunga

LOCATION:

Water-stage recorder and broad-crested weir control, lat. 34°15'50", long. 118°16'15", in NW¼NW¼ sec. 17, T. 2 N., R. 13 W., half a mile upstream from mouth of canyon and 1½ miles northeast of Tujunga. Altitude of gage, about 2430 feet (from topographic map).

DRAINAGE AREA:

1.2 square miles.

RECORDS AVAILABLE:

February, 1917 to September, 1934, October, 1935 to September, 1942.

AVERAGE DISCHARGE:

24 years, 0.163 second-foot.

EXTREMES:

Maximum discharge during year, 9 second-feet, December 28 (gage height, 2.04 feet); practically no flow at times in July, August, and September.

1917-34, 1935-42

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

REMARKS:

Records good.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U12R

DISCHARGE MEASUREMENTS OF HAINES CREEK

AT NEAR Tujunga DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
293	9-16		U.S.G.S.				1.13	0.21	Vol.				
294	10-2		"				1.12	0.11		.6	7	0	
295	10-24		"				1.12	0.12		.6	10	0	
296	11-17		"				1.10	0.07		.6	2	0	
297	12-11		"				1.14	0.09		.6	4	0	
298	12-18		"				1.10	0.11		.6	3	0	
299	12-29		"				1.28	0.15		.6	3	0	
300	1-5		"				1.12	0.15		.6	3	0	
301	1-27		"				1.11	0.05		.6	1	0	
302	2-7		"				1.10	0.06		.6	7	0	
303	2-21		"				1.11	0.06		.6	10	0	
304	2-22		"				1.10	0.04		.6	1	0	
305	3-3		"				1.08	0.025		.6	10	0	
306	3-11		"				1.08	0.04		.6	10	0	
307	3-15		"				1.07	0.03		.6	1	0	
308	3-18		"				1.07	0.05	Vol.				
309	3-31		"				1.06	0.03	Vol.				
310	4-11		"				1.07	0.06	Vol.				
311	4-20		"				1.07	0.05	Vol.				
312	5-4		"				1.06	0.03	Vol.				
313	5-18		"				1.06	0.03	Vol.				
314	6-1		"				1.05	0.02	Vol.				
315	6-18		"				1.04	0.011	Vol.				
316	6-30		"				1.04	0.007	Vol.				
317	7-11		U.S.G.S.				1.03	0.008	Vol.				
318	7-30		"				1.14	0.004	Vol.				
319	8-10		"				1.03	0.005	Vol.				
320	9-10		"				1.09	0.004	Vol.				

F.C. Dist. Form 22 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No U12R

Daily discharge, in second-feet of HAINES CREEK near Tujunga for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.09	0.09	0.09	0.15	0.05	0.03	0.03	0.03	0.02	0.01		
2	0.11	0.09	0.09	0.15	0.05	0.03	0.03	0.03	0.02	0.01		
3	0.13	0.09	0.12	0.15	0.05	0.03	0.04	0.03	0.02	0.01		
4	0.13	0.09	0.13	0.15	0.06	0.03	0.05	0.03	0.02	0.01	E 0.005	
5	0.13	0.09	0.13	0.15	0.06	0.03	0.05	0.03	0.01	0.01		
6	0.13	0.09	0.13	0.13	0.06	0.03	0.05	0.04	0.02	0.01		
7	0.13	0.09	0.13	0.13	0.06	0.04	0.05	0.04	0.02	0.01		
8	0.11	0.09	0.13	0.11	0.06	0.04	0.05	0.04	0.02	0.01		
9	0.11	0.09	0.15	0.09	0.06	0.04	0.05	0.05	0.02	0.01	0.02	
10	0.11	0.09	0.13	0.09	0.06	0.04	0.06	0.05	0.02	0.01		
11	0.09	0.09	E 0.15	0.09	0.06	0.04	0.06	0.04	0.01			
12	0.11	0.08	0.13	0.09	0.06	0.04	0.06	0.04	0.01			
13	0.11	0.09	0.13	0.09	0.06	0.03	0.06	0.04	0.01			
14	0.09	0.08	0.13	0.09	0.06	0.05	0.08	0.04	0.01			
15	0.09	0.06	0.13	0.09	0.06	0.04	0.06	0.04	0.01			E 0.003
16	0.09	0.06	0.13	0.09	0.06	0.04	0.05	0.03	0.01			
17	0.09	0.06	0.13	0.09	0.06	0.04	0.06	0.03	0.01			
18	0.09	0.06	0.11	0.09	0.06	0.05	0.04	0.03	0.01			
19	0.13	0.06	0.11	0.08	0.06	0.04	0.04	0.02	0.01	E0.005		
20	0.13	0.06	0.11	0.08	0.06	0.04	0.04	0.01	0.01		E0.003	
21	0.13	0.06	0.11	0.08	0.08	0.04	0.05	0.01	0.01			
22	0.13	0.06	0.11	0.09	0.05	0.04	0.05	0.01	0.01			
23	0.13	0.06	0.13	0.11	0.03	0.04	0.05	0.02	0.01			
24	0.15	0.06	0.13	0.09	0.03	0.04	0.04	0.02	0.01			
25	0.13	0.06	0.13	0.08	0.03	0.04	0.04	0.02	0.01			
26	0.11	0.06	0.13	0.06	0.03	0.04	0.04	0.01	0.01			
27	0.13	0.06	0.11	0.05	0.03	0.04	0.04	0.02	0.01			
28	0.11	0.06	0.81	0.05	0.03	0.03	0.04	0.01	0.01			
29	0.11	0.09	0.21	0.05		0.04	0.03	0.02	0.01			
30	0.11	0.09	0.17	0.05		0.04	0.03	0.02	0.01			
31	0.11		0.17	0.05		0.04		0.02				
	3.55	2.26	5.40	2.94	1.48	1.18	1.42	0.87	0.39	E.205	E.120	E.090
Mean	0.115	0.075	0.174	0.095	0.053	0.038	0.047	0.028	0.013	0.066	0.004	0.003
Acre-Feet	7.0	4.5	11.	5.8	2.9	2.3	2.8	1.7	0.8	0.4	0.2	0.2

Remarks: E = estimated.

Year or Period Mean 0.055 Acre Feet 40.

STATION U3R

LOS ANGELES RIVER BASIN Little Santa Anita Creek near Sierra Madre

LOCATION:

Water-stage recorder and control, lat. 34°11'15", long. 118°02'35", near center of NW¼ sec. 9, T. 1 N., R 11 W., 2 miles northeast of Sierra Madre. Altitude of gage, about 2200 feet (from topographic map).

DRAINAGE AREA:

1.9 square miles.

RECORDS AVAILABLE:

April, 1916 to September, 1942.

AVERAGE DISCHARGE:

25 years (1916-25, 1926-42), 0.90 second-foot (24 years 0.92 second-foot; figure published in Water-Supply Paper 931 in error).

EXTREMES:

Maximum discharge during year, 8.6 second-feet, December 10 (gage height, 1.16 feet); minimum daily, 0.1 second-foot, July 21 to August 9, August 11-29, September 6 to 30.

1916-42

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

REMARKS:

Records good. No diversions above station.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U3R

DISCHARGE MEASUREMENTS OF LITTLE SANTA ANITA CREEK

NEAR Sierra Madre DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
676	9-12		U.S.G.S.				0.71	0.58		.6	9	0	
677	10-2		"				0.68	0.54		.6	11	0	
678	11-3		"				0.68	0.58		.6	12	0	
679	12-2		"				0.80	0.46		.6	10	0	
680	12-11		"				0.74	0.93		.6	15	0	
681	12-18		"				0.68	0.58		.6	10	0	
682	12-29		"				0.89	1.8		.6	8	0	
683	1-5		"				0.72	0.73		.6	8	0	
684	1-27		"				0.66	0.47		.6	9	0	
685	2-7		"				0.66	0.45		.6	11	0	
686	2-20		"				0.65	0.38		.6	11	0	
687	3-3		"				0.65	0.45		.6	10	0	
688	3-12		"				0.68	0.45		.6	11	0	
689	3-18		"				0.68	0.55		.6	12	0	
690	3-31		"				0.64	0.31		.6	8	0	
691	4-11		"				0.69	0.59		.6	11	0	
692	4-20		"				0.68	0.51		.6	7	0	
693	5-4		"				0.66	0.41		.6	7	0	
694	5-18		"				0.63	0.39		.6	10	0	
695	6-4		"				0.63	0.33		.6	10	0	
696	6-17		"				0.61	0.35		.6	7	0	
697	6-30		"				0.60	0.25		.6	10	0	
698	7-14		"				0.56	0.17		.6	7	0	
699	7-29		"				0.53	0.08		.6	9	0	
700	8-11		U.S.G.S.				0.56	0.16		.6	9	0	
701	8-24		"				0.52	0.11		.6	10	0	
702	9-11		"				0.54	0.13		.6	10	0	
703	10-2		"				0.50	0.06		.6	7	0	

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No U3R

Daily discharge, in second-feet of LITTLE SANTA ANITA CREEK near Sierra Madre, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	0.6	0.5	1.0	0.5	0.5	0.3	0.5	0.4	0.2	0.1	0.2
2	0.6	0.6	0.5	0.9	0.4	0.4	0.3	0.4	0.4	0.2	0.1	0.2
3	0.6	0.6	0.8	0.8	0.4	0.4	0.5	0.4	0.4	0.2	0.1	0.2
4	0.6	0.6	0.6	0.8	0.4	0.4	0.7	0.4	0.4	0.2	0.1	0.2
5	0.6	0.6	0.6	0.7	0.4	0.4	0.3	0.4	0.4	0.2	0.1	0.2
6	0.7	0.6	0.5	0.7	0.4	0.4	0.3	0.4	0.4	0.2	0.1	0.1
7	0.7	0.6	0.5	0.6	0.4	0.4	0.3	0.4	0.4	0.2	0.1	0.1
8	0.7	0.6	0.5	0.6	0.4	0.4	0.3	0.4	0.4	0.2	0.1	0.1
9	0.6	0.6	0.5	0.6	0.4	0.4	0.3	0.4	0.4	0.2	0.1	0.1
10	0.6	0.6	2.5	0.6	0.4	0.4	0.6	0.4	0.4	0.2	0.2	0.1
11	0.6	0.6	1.1	0.6	0.4	0.5	0.6	0.4	0.4	0.2	0.1	0.1
12	0.8	0.6	0.9	0.5	0.4	0.4	0.6	0.4	0.4	0.2	0.1	0.1
13	0.7	0.6	0.8	0.5	0.4	0.4	0.5	0.4	0.4	0.2	0.1	0.1
14	0.6	0.6	0.7	0.5	0.4	0.6	0.9	0.4	0.4	0.2	0.1	0.1
15	0.6	0.6	0.6	0.5	0.4	0.8	0.6	0.4	0.4	0.2	0.1	0.1
16	0.6	0.6	0.6	0.5	0.4	0.6	0.6	0.4	0.4	0.2	0.1	0.1
17	0.6	0.6	0.6	0.5	0.4	0.6	0.7	0.4	0.4	0.2	0.1	0.1
18	0.6	0.6	0.6	0.5	0.4	0.6	0.6	0.4	0.4	0.2	0.1	0.1
19	0.7	0.5	0.6	0.5	0.4	0.5	0.5	0.4	0.4	0.2	0.1	0.1
20	0.8	0.5	0.6	0.5	0.4	0.5	0.5	0.4	0.3	0.2	0.1	0.1
21	0.8	0.5	0.6	0.5	0.7	0.5	1.0	0.4	0.3	0.1	0.1	0.1
22	0.9	0.5	0.6	0.6	0.9	0.4	0.8	0.4	0.3	0.1	0.1	0.1
23	0.9	0.5	0.6	0.5	0.5	0.4	0.7	0.4	0.3	0.1	0.1	0.1
24	0.9	0.5	0.6	0.5	0.5	0.4	0.6	0.4	0.3	0.1	0.1	0.1
25	0.8	0.5	0.6	0.5	0.5	0.4	0.6	0.4	0.3	0.1	0.1	0.1
26	0.7	0.5	0.7	0.5	0.5	0.4	0.6	0.4	0.3	0.1	0.1	0.1
27	0.8	0.5	0.6	0.5	0.5	0.4	0.6	0.4	0.3	0.1	0.1	0.1
28	0.8	0.5	1.4	0.5	0.5	0.4	0.6	0.4	0.3	0.1	0.1	0.1
29	0.7	0.5	2.2	0.5		0.3	0.5	0.4	0.3	0.1	0.1	0.1
30	0.7	0.5	1.6	0.5		0.3	0.5	0.4	0.2	0.1	0.2	0.1
31	0.6		1.4	0.5		0.3		0.4		0.1	0.2	
	21.5	16.8	25.5	18.0	12.7	13.8	16.5	12.5	10.8	5.1	3.4	3.5
Mean	0.69	0.56	0.82	0.58	0.45	0.45	0.55	0.40	0.36	0.16	0.11	0.12
Acre-Feet	43.	33.	51.	36.	25.	27.	33.	25.	21.	10.	6.7	6.9

Remarks:

Year or Period Mean 0.44
Acre Feet 318.

STATION U14R

ANTELOPE VALLEY BASIN Rock Creek near Valyermo

LOCATION:

Water-stage recorder, lat. 34°25'10", long. 117°50'25", in NE¼ sec. 20, T. 4 N., R. 9 W., 1¾ 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, 1942.

AVERAGE DISCHARGE:

18 years (1923-37, 1938-42), 14.5 second-feet.

EXTREMES:

Maximum discharge during year, 175 second-feet, August 10 (gage height, 2.90 feet); minimum 3.5 second-feet, September 25-30.

1923-42
Maximum discharge 8300 second-feet, March 2, 1938, by slope-area method; minimum 1.2 second-feet, August 22, 1925.

REMARKS:

Records good. No diversions above station.

COOPERATION:

Results of 12 discharge measurements furnished by Los Angeles County Flood Control District, through H. E. Hedger, chief engineer, and M. E. Salsbury, acting chief engineer during the war emergency.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U14R

DISCHARGE MEASUREMENTS OF ROCK CREEK

AT NEAR Valyermo DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
573	9-26	133P	Luce-van der Goot	16.	11.10	1.46	1.77	15.9		.6	10	0	FC 39
574	10-2		U.S.G.S.				1.76	12.0		.6	12	0	
575	10-14		"				1.75	12.6		.6	10	0	
576	10-23		"				1.77	12.0		.6	9	0	
577	11-4		U.S.G.S.				1.76	11.2		.6	9	0	
578	11-18		"				1.76	10.7		.6	10	0	
579	11-28	520P 535P	Luce	15.5	10.17	0.99	1.74	10.1		.6	8	0	FC 39
580	12-2		U.S.G.S.				1.73	10.5		.6	9	0	
581	12-18		"				1.78	12.1		.6	10	0	
582	12-20	230P 243P	Luce	15.5	10.27	1.11	1.77	11.4		.6	8	0	FC 39
583	12-29	455P 501P	Luce-Pardieck	17.5	11.15	1.25	1.81	13.9		.6	9	0	"
584	1-6		U.S.G.S.				1.76	11.2		.6	10	0	
585	1-20		"				1.77	11.0		.6	11	0	
586	1-23	315P 325P	Luce	15.0	10.0	1.06	1.77	10.6		.6	9	0	FC 39
587	2-3		U.S.G.S.				1.78	10.7		.6	10	0	
588	2-17		"				1.72	9.4		.6	10	0	
589	2-20	435P 445P	Luce	15.3	9.53	0.83	1.70	7.9		.6	9	0	FC 39
590	3-3		U.S.G.S.				1.72	8.7		.6	10	0	
591	3-18		"				1.72	9.2	Int.	.6	10	0	
592	3-20	115P 123P	Luce	15.5	9.79	1.12	1.72	11.0		.6	8	0	FC 39
593	3-31		U.S.G.S.				1.69	8.7	Int.	.6	10	0	
594	4-16	420P 430P	Luce	16.5	11.9	1.48	1.87	17.7		.6	9	0	FC 39
595	4-21		U.S.G.S.				1.86	16.1	Int.	.6	9	0	
596	5-5		"				1.77	11.5		.6	9	0	
597	5-15	325P 335P	Luce	15.2	9.64	1.26	1.74	12.1		.6	9	0	FC 39
598	5-26		U.S.G.S.				1.73	9.6		.6	10	0	
599	6-12		"				1.66	7.2		.6	9	0	
600	6-12	250P 300P	Luce	14.0	7.67	0.98	1.65	7.5		.6	8	0	FC 39
601	7-2		U.S.G.S.				1.67	6.8		.6	10	0	
602	7-10	250P 300P	Luce	13.0	7.44	0.84	1.65	6.2		.6	10	0	FC 39
603	7-29		U.S.G.S.				1.63	5.4		.6	8	0	
604	8-14	615P 625P	Luce	15.3	7.09	0.95	1.63	6.8		.6	9	0	FC 39
605	8-20		U.S.G.S.				1.64	6.9		.6	11	0	
606	8-20		"				1.64	6.2		.6	19	0	
607	9-2		"				1.63	5.6		.6	9	0	
608	9-11	250P 300P	Luce	14.7	6.32	0.70	1.58	4.4		.6	8	0	FC 39
609	9-15		U.S.G.S.				1.57	3.7		.6	9	0	

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U14R

Daily discharge, in second-feet of ROCK CREEK near Valyermo, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13	12	10	12	11	8	9	12	8.5	6.5	5	5
2	13	12	10	12	11	8.5	9.5	12	8.5	6.5	5	5
3	14	12	12	12	11	8.5	10	12	8.5	6.5	4.7	5
4	13	11	12	12	11	8.5	23	12	8.5	6.5	4.4	5
5	12	11	12	11	11	8.5	18	12	8.5	6.5	4.4	5
6	12	11	12	11	11	8.5	15	12	8.5	6.5	4.4	4.7
7	13	11	12	11	11	8.5	13	12	8.5	6.5	4.4	4.7
8	12	11	12	11	11	8	12	12	8.5	6.5	4.4	4.7
9	12	11	12	11	11	8	12	12	8.5	6.5	4.7	E 4.7
10	13	10	17	12	10	8	15	12	8.5	6.5	24	E 4.7
11	12	10	14	12	10	8.5	21	12	8	6.5	10	E 4.4
12	12	10	12	12	10	8.5	20	12	E 7.5	6.5	8.5	E 4.4
13	12	10	12	11	10	8.5	19	12	E 7.5	6.5	E 7.5	E 4.4
14	12	10	12	11	10	9	19	12	E 7	6.5	E 7	E 4.1
15	12	10	12	11	9.5	9.5	19	11	E 7	6.5	7	E 4.1
16	12	10	12	12	9.5	10	17	11	E 7	6.5	6.5	4.1
17	12	10	12	12	9	10	17	11	E 7	6.5	6.5	4.1
18	12	10	12	12	8.5	10	16	11	E 6.5	6.5	6.5	4.1
19	12	11	12	11	8.5	10	15	10	E 6.5	6	6.5	4.1
20	12	11	12	11	9	10	15	10	6.5	6	6.5	4.1
21	12	11	12	11	9	10	17	10	6.5	6	6.5	4.1
22	12	11	12	11	11	10	17	11	6.5	6	6.5	4.1
23	13	11	12	11	9	9.5	16	10	6.5	6	6.5	4.1
24	14	11	12	10	8.5	9.5	15	10	6.5	5.5	6	4.1
25	12	10	12	9	8.5	9.5	14	10	6.5	5.5	5.5	4.1
26	12	10	12	9.5	8.5	9.5	14	10	6.5	5.5	5.5	4.1
27	12	10	12	11	8.5	9.5	14	9.5	6.5	5.5	6	4.1
28	12	10	13	12	9.5	9	14	9.5	6.5	5.5	6	4.1
29	12	10	15	12		8.5	14	9.5	6.5	5	5.5	4.1
30	12	10	13	12		8.5	13	9	6.5	5	5.5	4.1
31	12		12	12		8.5		9		5	5.5	
	382	319	380	350.5	273.5	279.0	462.5	339.5	220.5	189.5	202.9	131.4
Mean	12.3	10.6	12.3	11.3	9.77	9.00	15.4	11.0	7.35	6.11	6.55	4.38
Acre-Feet	758.	631.	754.	695.	542.	553.	917.	673.	437.	376.	402.	261.

Remarks: E = estimated.

Year or Period Mean 9.67
Acre Feet 7000.

STATION U6R

SAN GABRIEL RIVER BASIN Rogers Creek near Azusa

LOCATION:

Water-stage recorder, lat. 34°09'55", long. 117°54'20", in NW¼NW¼ sec. 23, T. 1 N., R. 10 W., half a mile upstream from mouth and 2½ miles north of Azusa. Altitude of gage, about 800 feet.

DRAINAGE AREA:

6.4 square miles.

RECORDS AVAILABLE:

May, 1916 to June, 1917 (discharge measurments only), October, 1917 to September, 1942.

AVERAGE DISCHARGE:

25 years, 3.09 second-feet.

EXTREMES:

Maximum discharge during year, 32 second-feet, December 29 (gage height, 4.23 feet); no flow for part of year.

1917-42
Maximum discharge, about 2600 second-feet, April 7, 1926; no flow for parts of each year.

REMARKS:

Records good. Entire flow diverted above station at times.

COOPERATION:

Results of 17 discharge measurements furnished by Los Angeles County Flood Control District, through H. E. Hedger, chief engineer, and M. E. Salsbury, acting chief engineer during the war emergency.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U6R

DISCHARGE MEASUREMENTS OF ROGERS CREEK

AT NEAR Azusa DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1059	9-19		U.S.G.S.				3.49	0.21		.6	7	0	
1060	10-3		"				3.55	0.34		.6	7	-.02	
1061	10-9	335P 346P	Haig	2.0	0.32	0.38	3.54	0.12		.6	4	0	FC 33
1062	10-20	958A 1002A	Haig-Middleton	5.0	1.40	0.56	3.59	0.79		.6	5	0	"
1063	11-3		U.S.G.S.				3.58	0.72		.6	18	0	
1064	11-13	735A 743A	Middleton	4.0	1.38	0.46	3.57	0.63		.6	5	0	FC 36
1064A	11-27	230P 240P	Haig	3.9	1.22	0.39	3.57	0.48		.6	5	0	FC 33
1065	11-27		U.S.G.S.				3.57	0.45		.6	8	0	
1066	12-4	240P 248P	Haig	4.0	1.62	0.68	3.63	1.1		.6	5	0	FC 33
1067	12-11		U.S.G.S.				3.66	3.6		.6	10	0	
1068	12-12		"				3.57	1.6		.6	12	0	
1069	12-18	220P 225P	Haig	5.3	2.34	0.47	3.53	1.1		.6	8	0	FC 33
1070	12-19		U.S.G.S.				3.53	0.10		.6	11	0	
1071	12-26	418P 425P	Haig	6.0	2.90	0.83	3.60	2.4		.6	7	0	FC 33
1072	12-29		U.S.G.S.				4.00	15.5		.6	14	0	
1073	12-29		"				3.90	10.4		.6	13	0	
1074	12-31	302P 310P	Haig	8.1	5.23	0.91	3.74	4.8		.6	7	0	FC 33
1075	1-8		U.S.G.S.				3.48	1.4		.6	11	0	
1076	1-22	850A 857A	Haig	5.6	2.48	0.39	3.38	0.97		.6	5	0	FC 33
1077	1-26		U.S.G.S.				3.54	0.89		.6	11	0	
1078	2-6		"				3.53	0.92		.6	16	0	
1079	2-11	1140A 1144A	Haig	3.0	0.70	0.96	3.51	0.67		.6	4	0	FC 33
1080	2-20		U.S.G.S.				3.53	0.56		.6	13	0	
1081	2-22		"				3.61	2.4		.6	19	0	
1082	2-26	1110A 1115A	Haig	4.3	1.11	0.81	3.53	0.90		.6	6	0	FC 33
1083	3-4		U.S.G.S.				3.52	0.79		.6	15	0	
1084	3-12	1208P 1213P	Haig	4.4	1.32	1.06	3.60	1.4		.6	6	0	FC 33
1085	3-12		U.S.G.S.				3.57	1.2		.6	16	0	
1086	3-15		"				3.69	3.0		.6	14	-.01	
1087	3-19		"				3.57	1.2		.6	16	0	
1088	3-26	1143A 1148A	Haig	4.3	1.05	1.05	3.54	1.1		.6	6	0	FC 33
1089	4-1		U.S.G.S.				3.45	0.24		.6	9	0	
1090	4-9	324P 329P	Haig	4.2	0.72	0.55	3.48	0.40		.6	5	0	FC 33
1091	4-11		U.S.G.S.				3.60	1.5		.6	15	0	
1092	4-21		"				3.59	1.3		.6	14	0	
1093	4-23		"				3.57	1.3		.6	15	0	
1094	5-5		"				3.42	0.22		.6	10	0	
1095	5-14	952A 1000A	Cole	4.0	0.38	0.32	3.38	0.12		.6	5	0	FC 24
1096	5-20		U.S.G.S.				3.33	0.03		.6	4	0	
1097	6-1		"				3.33	0.03		.6	11	0	
1098	6-15		"				3.29	0.03		.6	10	0	
1099	6-25	1150A 1154A	Haig	0.8	0.06	0.33	3.26	0.02		.6	3	0	
1100	7-8	920A 923A	Haig-Brewster	0.4	0.02	0.50	3.21	0.01	Float			0	

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No U6R

Daily discharge, in second-feet of ROGERS CREEK near Azusa, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.7	0.4	4.2	1.0	0.5	0.2	0.7				
2	0	0.7	0.2	3.0	1.0	0.8	0.2	0.7				
3	0.2	0.7	0.7	2.2	0.9	0.8	0.2	0.7				
4	0.1	0.7	1.2	1.7	0.9	0.8	1.8	0.4				
5	0.1	0.6	1.0	1.5	0.9	0.8	0.7	0.2				
6	0.1	0.6	1.0	1.5	0.9	0.8	0.6	0.2				
7	0.1	0.5	1.0	1.4	0.8	0.7	0.6	0.2				
8	0.1	0.4	1.1	1.4	0.7	0.6	0.5	0.2				
9	0.1	0.3	1.2	1.4	0.6	0.5	0.5	0.2				
10	0.1	0.3	0	1.1	0.7	0.5	0.8	0.2				
11	0.1	0.3	3.7	1.1	0.7	1.0	1.5	0.2	E 0.02	No flow	No flow	No flow
12	0.2	0.5	1.8	1.1	0.7	1.2	1.1	0.2				
13	0.3	0.6	1.5	1.0	0.6	1.1	1.0	0.1				
14	0.4	0.6	1.4	0.9	0.6	3.2	2.0	0.1				
15	0.3	0.4	1.2	0.9	0.5	3.2	1.8	0.1				
16	0.3	0.4	1.2	0.8	0.6	2.2	1.2	0.1				
17	0.3	0.4	1.2	0.9	0.7	1.7	1.7	0.1				
18	0.4	0.4	1.2	0.8	0.7	1.4	1.2	0.1				
19	0.6	0.3	1.1	0.8	0.6	1.2	1.1					
20	1.2	0.4	1.1	0.8	0.5	1.1	1.1					
21	0.9	0.5	1.1	0.9	1.4	1.1	1.2		0			
22	1.8	0.5	1.1	1.0	3.7	1.1	1.2		0			
23	1.2	0.5	2.2	1.0	1.4	1.0	1.2		0			
24	0.9	0.5	1.7	0.9	1.1	1.0	1.0					
25	0.8	0.5	1.5	0.9	1.0	1.1	1.0	E 0.04	E 0.01			
26	0.9	0.5	2.8	0.9	0.9	0.9	1.0					
27	1.0	0.5	2.0	0.9	0.9	0.8	1.0					
28	0.9	0.4	3.1	1.0	1.0	0.3	1.1		0			
29	0.8	0.5	17	0.9		0.3	1.1		0			
30	0.8	0.5	7.5	0.9		0.2	0.8		0			
31	0.7		5.5	0.8		0.2						
	15.7	14.7	77.7	33.6	26.0	32.0	30.4	E5.22	E0.44	0	0	0
Mean	0.51	0.49	2.51	1.25	0.93	1.03	1.01	0.168	0.015	0	0	0
Acre-Feet	31.	29.	154.	77.	52.	63.	60.	10.	.87	0	0	0

Remarks: E.= estimated.

Year or Period Mean 0.660
Acre Feet 477.

STATION U15R

SAN ANTONIO CREEK near Claremont

LOCATION:

Water-stage recorder and broad-crested weir control, lat. 34°12'50", long. 117°40'00", in NW¼SE¼ sec. 36, T. 2 N., R 8 W., at highway bridge, half a mile upstream from Southern California Edison Company's Sierra power plant and 8 miles northeast of Claremont. Altitude of gage, about 3400 feet.

DRAINAGE AREA:

16.9 square miles.

RECORDS AVAILABLE:

March, 1901 to September, 1942.

AVERAGE DISCHARGE:

25 years (1917-42), 10.8 second-feet. Average combined discharge of creek and conduit, 25 years (1917-42), 23.5 second-feet.

EXTREMES:

Maximum discharge during year, 22 second-feet, December 10 (gage height, 1.79 feet); minimum, 1.1 second-feet, September 25 and 26.

1917-42

Maximum discharge 21,400 second-feet, March 2, 1938, by rainfall run-off studies; minimum, less than 0.1 second-foot for several days in October, 1934.

REMARKS:

Records good. Southern California Edison Companies conduit diverts water above station. (see p. ——).

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U15R

DISCHARGE MEASUREMENTS OF SAN ANTONIO CREEK

AT NEAR Claremont DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
854	8-27		U.S.G.S.				1.26	5.0		.6	12	0	
855	10-13		"				1.31	7.0		.6	18	0	
856	10-28		U.S.G.S.				1.11	3.1		.6	12	0	
857	11-14		"				1.08	2.8		.6	13	0	
858	11-26		"				1.06	3.2		.6	12	0	
859	12-11		"				1.32	6.0		.6	10	0	
860	12-19		"				1.10	2.4		.6	12	0	
861	12-29		"				1.28	5.6		.6	23	0	
862	1-7		"				1.10	3.1		.6	14	0	
863	1-16		"				1.10	3.0		.6	11	0	
864	1-28		"				1.07	3.2		.6	7	0	
865	2-6		"				1.07	2.9		.6	9	0	
866	2-24		"				1.10	2.9		.6	9	0	
867	3-6		"				1.07	3.0		.6	8	0	
868	3-13		"				1.08	3.0		.6	9	0	
869	3-25		"				1.10	2.8		.6	8	0	
870	4-7		"				1.11	2.8		.6	8	0	
871	4-14		"				1.19	4.0		.6	9	0	
872	4-24		"				1.19	3.8		.6	8	0	
873	5-1		"				1.18	3.5		.6	19	0	
874	5-19		"				1.09	2.1		.6	20	0	
875	6-3		"				1.04	2.2		.6	20		
876	6-4		"				1.06	2.6		.6	20	0	
877	6-15		"				1.03	2.0		.6	14	0	
878	6-30		U.S.G.S.				1.00	1.8		.6	14	+.01	
879	7-13		"				1.03	1.8		.6	14	0	
880	7-27		"				1.01	1.5		.6	14	0	
881	8-10		"				1.05	1.5		.6	12	0	
882	8-24		"				1.01	1.2		.6	16	0	
883	9-15		"				1.04	1.4		.6	17	0	

F.C. Dist. Form SI 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U15R

Daily discharge, in second-feet of SAN ANTONIO CREEK near Claremont, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.9	2.8	3.2	4.1	3.1	2.8	2.8	3.4	2.2	2.0	1.6	1.6
2	2.9	2.8	3.2	3.6	3.1	2.8	2.6	3.3	2.2	1.9	1.5	1.6
3	6	2.6	3.7	3.4	3.1	2.6	2.6	2.9	2.2	1.9	1.5	1.5
4	8	2.7	3.6	3.3	2.9	2.9	3.3	2.9	2.4	1.9	1.5	1.5
5	8	2.7	3.4	3.2	2.9	2.9	2.9	2.7	2.2	2.0	1.5	1.4
6	7.5	2.7	3.3	3.1	2.9	2.9	2.9	2.6	2.2	2.0	1.4	1.4
7	7.5	2.7	3.3	3.1	2.9	2.9	2.6	2.6	2.2	1.9	1.3	1.4
8	7.5	2.7	3.2	3.1	2.9	2.9	3.2	2.5	2.2	1.9	1.4	1.4
9	7.5	2.7	3.4	3.1	2.8	2.9	3.4	2.4	2.2	1.8	1.4	1.5
10	7	2.7	8	3.1	2.7	2.9	5	2.5	2.2	1.9	1.6	1.6
11	7	2.7	6	3.1	2.6	2.9	4.0	2.5	2.2	1.9	1.6	1.6
12	7.5	2.9	4.8	3.1	2.6	2.9	4.1	2.4	2.3	1.8	1.6	1.5
13	7	2.9	3.8	3.1	2.7	2.9	3.8	2.4	2.2	1.9	1.5	1.4
14	5.5	2.6	3.3	3.1	2.7	3.3	3.7	2.4	2.1	1.9	1.5	1.3
15	3.3	2.7	3.1	3.1	2.6	3.4	3.6	2.3	2.1	1.9	1.5	1.3
16	3.2	2.7	2.8	2.9	2.6	3.3	3.7	2.4	2.1	1.9	1.4	1.3
17	3.2	2.8	2.7	2.9	2.6	3.2	3.6	2.4	2.0	2.0	1.4	1.3
18	3.1	2.9	2.7	3.1	2.7	3.1	3.8	2.2	2.0	1.9	1.3	1.4
19	3.3	4.7	2.7	2.9	2.7	3.1	3.7	2.2	2.0	1.8	1.4	1.3
20	3.7	3.1	2.7	2.9	2.7	3.1	3.7	2.2	2.0	1.6	1.3	1.3
21	3.4	2.9	2.7	2.9	3.4	2.8	3.7	2.2	2.0	1.8	1.4	1.3
22	3.4	2.9	2.7	3.2	4.0	2.8	3.6	2.2	2.0	1.7	1.4	1.3
23	3.6	3.1	2.9	3.2	3.2	2.8	3.8	2.3	2.0	1.7	1.4	1.3
24	3.3	3.1	2.8	3.2	2.9	2.8	3.7	2.3	2.0	1.7	1.3	1.4
25	3.2	3.1	2.8	3.2	2.6	2.8	3.7	2.3	2.0	1.7	1.4	1.3
26	3.2	3.2	2.8	3.1	2.8	2.8	3.6	2.3	2.0	1.7	1.4	1.3
27	3.3	3.2	2.8	3.2	2.8	2.8	3.6	2.3	2.1	1.7	1.4	1.4
28	3.1	3.2	4.0	3.2	2.8	2.8	3.8	2.3	2.1	1.7	1.5	1.4
29	2.9	3.3	5.5	3.2		2.8	3.7	2.3	2.0	1.6	1.5	1.5
30	2.9	3.3	5.5	5.5		2.6	3.3	2.3	1.9	1.6	1.5	1.5
31	2.8		4.5	3.1		2.8		2.3		1.6	1.6	
	146.7	88.8	111.9	100.3	80.5	90.7	106.5	76.3	63.3	56.5	45.0	42.3
Mean	4.73	2.96	3.61	3.24	2.87	2.93	3.55	2.46	2.11	1.82	1.45	1.41
Acre-Feet	291.	176.	222.	199.	160.	180.	211.	151.	126.	112.	89.	84.

Remarks:

Year or Period Mean 2.76
Acre-Feet 2000.

F.C. Dist. Form 82 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U15R

Daily discharge, in second-feet of SAN ANTONIO CREEK AND SOUTHERN CALIF. EDISON CO.'S CONDUIT near Claremont, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19	17	14	16	14	14	14	22	16	13	10	10
2	19	17	14	16	14	14	14	22	16	13	10	10
3	19	17	17	15	14	13	14	21	16	13	10	10
4	19	17	16	14	14	13	14	21	16	13	10	10
5	19	16	14	14	14	14	14	21	16	13	10	10
6	18	16	14	15	14	14	14	21	16	13	10	10
7	18	16	14	15	14	14	14	21	15	12	10	10
8	18	16	14	15	14	14	14	20	15	12	10	10
9	18	16	14	15	14	14	14	19	15	12	11	10
10	18	16	23	14	14	14	17	20	15	12	13	10
11	18	16	18	14	14	14	17	20	15	12	12	10
12	18	15	17	14	14	14	18	19	15	12	12	10
13	18	16	16	14	14	14	19	19	15	12	11	10
14	18	15	14	14	14	14	19	19	14	12	10	9.5
15	17	15	15	14	14	14	20	19	14	12	10	9.5
16	17	15	15	14	14	14	21	19	14	12	10	9.5
17	17	15	14	14	14	14	22	19	14	12	10	9.5
18	16	15	14	14	14	14	22	18	14	12	10	9.5
19	17	15	14	14	14	14	22	18	14	12	10	9.5
20	18	15	14	14	14	14	22	18	14	12	10	9.5
21	17	15	14	14	14	14	23	18	14	11	10	9.5
22	17	14	14	14	15	14	24	18	13	11	10	9.5
23	18	14	14	14	14	14	23	18	13	11	10	9.5
24	17	14	14	14	14	14	23	17	13	11	10	9
25	17	14	14	14	14	14	23	17	13	11	10	9
26	17	14	14	14	14	14	23	17	13	11	10	9
27	17	14	14	14	14	14	23	17	13	11	10	9
28	17	14	15	14	14	14	23	17	12	10	10	9
29	17	14	18	14		14	23	17	12	11	10	9
30	17	14	18	14		14	22	17	13	11	10	9
31	16		16	14		14		17		10	10	
	546	457	470	443	393	432	574	586	428	365	319	268.0
Mean	17.6	15.2	15.2	14.3	14.0	13.9	19.1	18.9	14.3	11.8	10.3	9.60
Acre-Feet	1080.	906.	932.	879.	780.	857.	1140.	1160.	849.	724.	633.	571

Remarks:

Year or Period — Mean 14.5 — Acre-Feet 10510.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U10R

DISCHARGE MEASUREMENTS OF SAN DIMAS CREEK

NEAR San Dimas DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1340	9-19		U.S.G.S.				0.68	7.1		.6	12	0	
1342	10-1	440P 455P	Brewster	11.0	6.88	1.00	0.67	6.9		.6	11	0	FC 12
1343	10-3		U.S.G.S.				0.63	6.5		.6	12	0	
1344	10-8	1220P 1240P	Brewster	11.0	6.78	0.97	0.64	6.6		.6	11	0	FC 12
1345	10-15	254P 310P	"	11.0	6.98	0.95	0.63	6.6		.6	11	0	"
1346	10-22	1140A 1150A	"	4.0	1.26	0.63	0.19	0.80		.6	5	0	"
1347	10-29	145P 153P	"	4.0	0.97	0.33	0.10	0.32		.6	5	0	"
1348	11-3		U.S.G.S.				0.10	0.22		.6	7	0	
1349	11-5	1230P 1236P	Brewster	4.0	1.04	0.30	0.10	0.31		.6	5	0	FC 12
1350	11-12	1155A 1202P	"	4.0	1.11	0.56	0.13	0.62		.6	5	-.01	"
1351	11-18	340P 400P	"	11.0	6.83	0.94	0.60	6.4		.6	8	0	"
1352	11-26	1130A 1150A	"	11.0	6.72	0.92	0.59	6.2		.6	9	0	"
1353	11-27		U.S.G.S.				0.59	5.2		.6	13	0	
1354	12-5	1105A 1125A	Brewster	11.0	6.61	0.91	0.59	6.0		.6	8	0	FC 12
1355	12-10	1105A 1125A	"	11.0	6.66	0.95	0.61	6.3		.6	11	0	"
1356	12-11		U.S.G.S.				0.60	5.8		.6	11	0	
1357	12-12		"				1.19	20.9		.6	25	0	
1358	12-17	1235P 1243P	Brewster	3.0	0.67	0.52	0.10	0.35		.6	4	0	FC 12
1359	12-19		U.S.G.S.				0.10	0.42		.6	7	0	
1360	12-23	435P 445P	Brewster	4.0	1.17	0.62	0.13	0.73		.6	5	0	FC 12
1361	12-26	315P 320P	Green	11.5	9.42	1.75	1.02	16.5		.6	8	0	FC 30
1362	12-29		U.S.G.S.				0.87	14.1		.6	12	0	
1363	12-31	1120A 1130A	Brewster	4.0	1.16	0.66	0.15	0.76		.6	5	0	FC 12
1364	1-7	1130A 1138A	"	4.0	1.00	0.58	0.11	0.58		.6	5	0	"

STATION U10R

SAN GABRIEL RIVER BASIN San Dimas Creek near San Dimas

LOCATION:

Water-stage recorder and broad-crested weir control, lat. 34°08'45", long. 117°46'35", 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 1245 feet.

DRAINAGE AREA:

18.3 square miles.

RECORDS AVAILABLE:

April to September, 1916 (discharge measurements only), December, 1916 to September, 1942.

AVERAGE DISCHARGE:

25 years (1917-42), 4.60 second-feet.

EXTREMES:

Maximum discharge during year, 24 second-feet, December 12 (gage height 1.20 feet); minimum daily discharge, 0.2 second-foot many days.

1916-42

Maximum discharge, about 4250 second-feet, March 2, 1938, from records of release at flood-control reservoir; no flow for several months during most years.

REMARKS:

Records good. Flow regulated by flood-control dam above station. San Dimas Water Company diverts water just below gage for irrigation.

COOPERATION:

Results of 55 discharge measurements furnished by Los Angeles County Flood Control District, through H. E. Hedger, chief engineer, and M.E. Salsbury, acting chief engineer during the war emergency.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U10R

DISCHARGE MEASUREMENTS OF SAN DIMAS CREEK

AT NEAR San Dimas DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1365	1-7		U.S.G.S.				0.11	0.24		.6	4	0	
1366	1-14	200P 220P	Brewster	11.0	9.02	1.42	0.84	12.8		.6	11	0	FC 12
1367	1-16	235P 245P	Green	11.0	6.93	1.54	0.83	10.6		.6	7	0	FC 30
1368	1-17		U.S.G.S.				0.82	7.3		.6	9	0	
1369	1-21	335P 345P	Brewster	2.0	0.60	0.78	0.11	0.47		.6	4	0	FC 12
1370	1-26		U.S.G.S.				0.11	0.21		.6	6	0	
1371	1-28	1108A 1115A	Brewster	3.0	0.63	0.59	0.10	0.37		.6	4	0	FC 12
1372	2-4	1210P 1217P	"	4.0	0.91	0.66	0.13	0.60		.6	5	0	"
1373	2-6		U.S.G.S.				0.13	0.36		.6	23	0	
1374	2-11	1235P 1252P	Brewster	11.0	7.56	1.28	0.77	9.7		.6	11	0	FC 12
1375	2-18	300P 315P	"	11.0	6.36	1.05	0.64	6.7		.6	11	0	"
1376	2-20		U.S.G.S.				0.39	2.6		.6	18	0	
1377	2-25	1202P 1210P	Brewster	4.0	0.94	0.60	0.14	0.56		.6	4	0	FC 12
1378	3-4		U.S.G.S.				0.15	0.37		.6	14	0	
1379	3-4	1105A 1115A	Brewster	4.0	1.16	0.66	0.21	0.77		.6	4	0	FC 12
1380	3-11	1116A 1125A	"	4.0	1.22	0.75	0.27	0.91		.6	4	0	"
1381	3-12		U.S.G.S.				0.17	0.38		.6	12	0	
1382	3-18	250P 300P	Brewster	4.0	0.90	0.58	0.17	0.52		.6	4	0	FC 12
1383	3-19		U.S.G.S.				0.17	0.34		.6	11	+.01	
1384	3-25	1055A 1105A	Brewster	4.0	0.86	0.71	0.18	0.61		.6	4	0	FC 12
1385	4-1		U.S.G.S.				0.17	0.32		.6	10	0	
1386	4-1	120P 130P	Brewster	2.5	0.70	0.76	0.17	0.53		.6	5	0	FC 12
1387	4-8	1122A 1130A	"	2.0	0.55	0.84	0.13	0.46		.6	4	0	"
1388	4-11		U.S.G.S.				0.15	0.42		.6	7	0	
1389	4-15	1105A 1115A	Brewster	2.0	0.62	1.00	0.15	0.62		.6	4	0	FC 12
1390	4-21		U.S.G.S.				0.14	0.46		.6	7	0	
1391	4-22	1045A 1055A	Brewster	2.0	0.60	0.98	0.14	0.59		.6	4	-.01	FC 12
1392	4-29	1204P 1210P	"	2.0	0.58	0.86	0.13	0.50		.6	4	0	"
1393	5-5		U.S.G.S.				0.11	0.19		.6	8	0	
1394	5-6	1125A 1135A	Brewster	2.0	0.55	0.73	0.13	0.40		.6	4	0	FC 12
1395	5-13	235P 250P	"	9.0	3.98	0.70	0.37	2.8		.6	9	0	"
1396	5-19		U.S.G.S.				0.38	2.9		.6	16	0	
1397	5-20	1140A 1158A	Brewster	10.0	4.96	0.67	0.39	3.3		.6	10	0	FC 12
1398	5-27	1138A 1152A	"	9.0	4.22	0.57	0.44	2.4		.6	9	-.02	"
1399	6-2		U.S.G.S.				0.49	2.7		.6	14	-.01	
1400	6-3	1106A 1121A	Brewster	10.0	4.78	0.65	0.49	3.1		.6	10	0	FC 12
1401	6-10	1202P 1220P	"	10.0	4.96	0.65	0.50	3.2		.6	10	0	"
1402	6-15		U.S.G.S.				0.45	2.9		.6	20	0	
1403	6-17	1050A 1105A	Brewster	9.0	3.94	0.63	0.45	2.5		.6	9	0	FC 12
1404	6-24	1225P 1240P	"	9.0	4.54	0.57	0.43	2.6		.6	9	0	"
1405	6-30		U.S.G.S.				0.20	0.71		.6	18	0	
1406	7-1	1112A 1128A	Brewster	5.0	2.04	0.47	0.20	0.96		.6	5	0	FC 12
1407	7-8	517P 530P	"	4.0	1.38	0.67	0.21	0.93		.6	4	0	"
1408	7-13		U.S.G.S.				0.21	0.84		.6	19	0	
1409	7-15	313P 325P	Brewster	4.0	1.66	0.78	0.28	1.3		.6	4	+.01	FC 12
1410	7-21	225P 240P	"	8.0	3.84	0.57	0.33	2.2		.6	8	0	"
1411	7-27		U.S.G.S.				0.36	2.3		.6	20	0	
1412	7-29	1250P 106P	Brewster	7.0	3.42	0.67	0.37	2.3		.6	7	0	FC 12
1413	8-5	1110A 1120A	Brewster	5.0	1.68	0.65	0.23	1.1		.6	5	0	FC 12
1414	8-10		U.S.G.S.				0.24	0.95		.6	8	0	
1415	8-11	1032A 1042A	Haig	10.0	5.39	0.56	0.40	3.0		.6	7	+.01	FC 33
1416	8-18	1030A 1040A	"	3.2	1.77	1.47	0.37	2.6		.6	5	+.01	"
1417	8-24		U.S.G.S.				0.31	2.5		.6	17	0	
1418	8-26	215P 230P	Brewster	6.0	2.18	0.45	0.19	0.99		.6	6	0	FC 12
1419	9-2	1201P 1212P	"	6.0	2.30	0.48	0.21	1.1		.6	6	0	"
1420	9-8	1133A 1150A	"	6.0	2.72	0.81	0.28	2.2		.6	6	0	"
1421	9-15		U.S.G.S.				0.24	1.8		.6	12	0	
1422	9-16	116P 128P	Brewster	6.0	2.68	0.71	0.23	1.9		.6	6	0	FC 12
1423	9-23	117P 140P	"	3.5	2.05	0.88	0.24	1.8		.6	7	0	"
1424	9-23		U.S.G.S.				0.24	1.6		.6	15	0	
1425	9-30	1107A 1128A	Brewster	10.0	5.08	0.79	0.47	4.0		.6	10	0	FC 12
1426	10-1		U.S.G.S.				0.47	4.0		.6	16	0	

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No U10R

Daily discharge, in second-feet of SAN DIMAS CREEK near San Dimas, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.5	0.3	5	0.7	0.2	0.3	0.2	0.4	3.0	0.7	2.1	1.4
2	.7	0.3	5	0.5	0.3	0.3	0.2	0.4	3.0	0.7	1.3	1.5
3	6.5	0.3	5	0.5	0.3	0.4	0.2	0.4	2.9	0.6	1.0	1.5
4	6.5	0.3	5	0.4	0.4	0.6	0.4	0.3	3.0	1.0	1.0	2.0
5	6.5	0.3	5	0.3	0.4	0.9	0.2	0.3	3.1	1.0	1.0	2.1
6	6.5	0.3	5	0.3	0.4	1.0	0.2	0.3	3.3	0.9	1.0	2.1
7	6.5	0.3	5	0.3	0.4	1.0	0.2	2.0	3.4	0.9	1.0	2.2
8	6.5	0.3	5	0.2	0.4	1.0	0.2	2.6	3.4	0.9	1.0	2.3
9	6.5	0.3	5	0.2	3.3	1.2	0.2	2.6	3.4	0.9	1.0	2.2
10	6.5	1.1	5.5	0.2	8	2.1	0.4	2.6	3.4	1.1	1.4	2.1
11	6.5	2.5	5.5	0.2	8	1.3	0.4	2.7	3.3	1.6	2.3	2.1
12	6.5	1.3	17	5.5	8	0.4	0.4	2.6	3.3	1.2	3.0	2.1
13	6.5	0.8	22	9.5	8	0.4	0.4	2.6	3.1	0.9	4.5	2.0
14	6.5	2.2	21	9.5	8	0.7	0.4	2.7	3.0	1.0	3.0	1.9
15	6.5	3.0	8.5	9.5	8	0.7	0.5	2.7	3.0	1.5	1.4	1.9
16	6.5	3.0	0.4	9	8	0.5	0.5	2.8	2.9	1.5	1.3	1.8
17	6.5	4.6	0.4	8.5	8	0.5	0.5	2.8	2.9	1.5	1.4	1.6
18	6.5	5.5	0.4	8.5	7	0.4	0.5	2.9	2.8	1.7	2.2	1.7
19	6.5	5.5	0.4	8.5	5	0.4	0.5	2.9	2.8	2.0	2.7	1.8
20	6.5	5.5	0.5	3.5	3.5	0.4	0.5	3.0	2.8	2.0	2.6	1.6
21	6.5	5.5	0.5	0.2	1.6	0.4	0.5	3.1	2.8	2.0	2.7	1.8
22	3.1	5.5	0.5	0.2	1.3	0.4	0.5	3.1	2.8	2.0	2.7	1.9
23	0.5	5.5	0.6	0.2	0.4	0.4	0.4	3.3	2.8	2.1	2.6	1.7
24	0.4	5.5	0.5	0.2	0.4	0.4	0.4	3.3	2.8	2.1	2.4	1.7
25	0.4	5.5	0.5	0.2	0.4	0.4	0.4	3.1	2.6	2.2	2.2	1.6
26	0.4	5.5	8	0.2	0.4	0.3	0.4	3.1	2.7	2.2	1.2	1.9
27	0.4	5	17	0.2	0.4	0.3	0.4	3.0	2.6	2.3	1.2	3.3
28	0.4	5	16	0.2	0.4	0.2	0.4	2.9	2.6	2.3	1.2	4.0
29	0.4	5	14	0.2		0.2	0.4	2.9	2.6	2.3	1.2	4.1
30	0.3	5	5.5	0.2		0.2	0.4	2.9	1.7	2.3	1.2	4.1
31	0.3		0.7	0.2		0.2		3.0		2.4	1.3	
	143.6	90.7	190.4	78.0	91.1	17.9	11.2	73.3	83.0	48.2	56.3	64.4
Mean	4.63	3.02	6.14	2.52	3.25	.58	.37	2.36	2.93	1.55	1.82	2.15
Acre-Feet	285.	180.	378.	155.	181.	36.	22.	145.	175.	96.	112.	128.

Remarks:

Year or Period — Mean 2.61 — Acre-Feet 1890.

STATION U8R

SAN GABRIEL RIVER BASIN San Gabriel River near Azusa

LOCATION:

Water-stage recorder, lat. 34°10'10", long. 117°53'16", in SW¼ sec. 13, T. 1 N., R.10 W., 1 mile downstream from Morris Dam and 3 miles northeast of Azusa. Altitude of gage, about 870 feet.

DRAINAGE AREA:

211 square miles.

RECORDS AVAILABLE:

1894 to September, 1942.

AVERAGE DISCHARGE:

46 years (1896-1942), 113 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, 47 years (1895-1942), 162 second-feet.

EXTREMES:

Maximum discharge during year, 422 second-feet April 20 (gage height, 4.94 feet); minimum daily, 2.5 second-feet, September 14 to 22.

1894-1942

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, 1940-1941.

REMARKS:

Records good. 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 highwater line of Morris reservoir at point about 3 miles above station.

COOPERATION:

Results of 54 discharge measurements and figures of runoff of Azusa Canal furnished by Los Angeles County Flood Control District, through H. E. Hedger, chief engineer, and M. E. Salsbury, acting chief engineer during the war emergency.

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	4,600
November	4,010
December	7,280
January	6,130
February	4,490
March	5,110
April	6,740
May	4,530
June	2,950
July	1,960
August	1,880
September	1,340
Water year 1941-1942	51,020

REVISIONS:

Revised figures of runoff in acre-feet of combined flow of San Gabriel River and Azusa canal in the water year 1941 and superseding those published in Water-Supply Paper 931 are given herein.

August, 1941	7,050
September, 1941	4,710
Water year, 1940-41	316,230

Station owned and operated by the U.S.G.S. Water Resources Branch. The Los Angeles County Flood Control District cooperates with the U.S.G.S. to the extent of making measurements at various times.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U8R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT NEAR Azusa DURING THE YEAR ENDING SEPTEMBER 30, 1942

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1485	9-19		U.S.G.S				3.44	10.8		.6	14	0	
1486	9-25	940A 950A	Mayer-Haig	14.5	9.13	1.14	3.36	10.4		.6	9	0	FC 33
1486A	10-2	150P 205P	Haig	15.0	10.7	0.70	3.37	7.5		.6	12	0	"
1487	10-3		U.S.G.S.				3.37	7.8		.6	16	0	
1488	10-9	412P 425P	Haig	8.0	7.85	0.99	3.37	7.8		.6	9	0	FC 33
1489	10-16	1115A 1120A	"	7.8	6.92	1.13	3.36	7.8		.6	9	0	"
1490	10-23	950A 1002A	"	7.8	7.89	1.19	3.35	9.4		.6	9	0	"
1491	10-30	933A 944A	Haig-Middleton	7.9	7.75	1.10	3.33	8.5		.6	10	0	"
1492	11-3		U.S.G.S.				3.32	6.1		.6	19	0	
1493	11-6	155P 205P	Haig	8.1	7.21	0.93	3.29	6.7		.6	10	0	FC 33
1494	11-13	710A 718A	Middleton	11.5	10.6	1.51	3.34	16.0		.6	7	0	FC 36
1495	11-19	1252P 120P	Haig	42.0	40.2	1.76	4.03	70.6		.6	16	0	FC 33
1496	11-27		U.S.G.S.				3.92	67.0		.6	22	0	
1497	11-27	156P 220P	Haig	31.0	42.2	1.45	3.92	61.4		.6	16	0	FC 33
1498	12-4	210P 230P	"	34.0	36.8	1.53	3.92	56.3		.6	13	0	"
1499	12-11	330P 340P	"	7.9	6.58	1.12	3.25	7.4		.6	8	0	"
1500	12-13		U.S.G.S.				3.27	5.6		.6	20	0	
1501	12-18	150P 158P	Haig	7.2	6.72	1.15	3.29	7.7		.6	10	0	FC 33
1502	12-19		U.S.G.S.				3.29	7.1		.6	21	0	
1503	12-26	355P 408P	Haig	8.0	7.17	1.06	3.27	7.6		.6	11	0	FC 33
1504	12-31	240P 247P	"	8.8	6.81	1.19	3.28	8.1		.6	9	0	"
1505	1-7		U.S.G.S.				3.26	7.7		.6	16	0	
1506	1-8	1245P 1250P	Haig	8.0	7.14	1.15	3.26	8.2		.6	9	0	FC 33
1507	1-15	430P 438P	"	7.9	6.49	1.02	3.27	6.6		.6	10	0	"
1508	1-17		U.S.G.S.				3.27	5.2		.6	7	0	
1509	1-22	911A 925A	Haig	7.8	6.04	1.26	3.28	7.6		.6	10	0	FC 33
1510	1-26		U.S.G.S.				3.29	7.9		.6	21	0	
1511	1-29	1225P 1235P	Haig	7.7	5.79	1.17	3.25	6.8		.6	9	0	FC 33
1512	2-5	145P 152P	"	7.7	6.10	0.85	3.22	5.2		.6	10	0	"
1513	2-6		U.S.G.S.				3.22	3.9		.6	22	0	
1514	2-11	1118A 1126A	Haig	8.0	4.94	0.97	3.20	4.8		.6	8	0	FC 33
1515	2-18	210P 220P	"	8.0	5.52	0.94	3.20	5.2		.6	10	0	"
1516	2-26	1046A 1055A	"	7.8	6.40	1.29	3.33	8.3		.6	11	0	"
1517	3-4		U.S.G.S				3.24	4.4		.6	20	0	
1518	3-5	318P 324P	Haig	7.5	5.17	0.83	3.24	4.3		.6	9	0	FC 33
1519	3-12	1144A 1150A	"	7.5	5.07	0.84	3.22	4.3		.6	10	0	"
1520	3-12		U.S.G.S.				3.22	3.8		.6	17	0	
1521	3-19	317P 326P	Haig	7.8	7.43	1.36	3.37	10.1		.6	9	0	FC 33
1522	3-19		U.S.G.S.				3.37	10.0		.6	20	0	
1523	3-26	1122A 1130A	Haig	7.4	5.35	1.05	3.25	5.6		.6	9	0	FC 33
1524	4-1		U.S.G.S.				3.23	4.7		.6	19	0	
1525	4-2	1130A 1140A	Haig	Two Channels			3.23	6.2		.6	9	0	FC 33
1526	4-9	420P 430P	"	"			3.35	6.3		.6	9	0	"
1527	4-16	150P 205P	"	"			3.26	5.9		.6	10	0	"
1528	4-20	1105A 1135A	Haig-Ingram	44.3	82.8	2.38	4.48	197.		.6	17	0	"
1529	4-21		U.S.G.S.				3.25	4.4		.6	15	0	
1530	4-23		"				4.85	370.		.8 .6	22	0	
1531	4-30	155P 203P	Haig	Two Channels			3.17	5.3	Est.	.6	9	0	FC 33

F. C. 9 FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U8R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

NEAR Azusa DURING THE YEAR ENDING SEPTEMBER 30, 1942

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1532	5-5		U.S.G.S.				3.16	3.6		.6	14	0	
1533	5-20		"				3.16	3.3		.8 .6	20	0	
1534	5-21	820A 837A	Cole	11.1	6.84	0.47	3.16	3.2		.6	12	0	FC 24
1535	5-22	135P	Haig	7.8	5.76	0.76	3.16	4.4		.6	9	0	FC 33
1536	5-22	240P 253P	"	9.0	4.53	1.28	3.16	5.8		.6	9	0	"
1537	5-28	205P 215P	"	10.0	5.15	1.04	3.18	5.4		.6	10	0	"
1538	6-2		U.S.G.S.				3.18	3.6		.6	16	0	
1539	6-3	1005A 1015A	Haig-van der Goot	11.0	5.23	0.92	3.16	4.8		.6	8	0	FC 33
1540	6-3	1100A 1113A	"	Two Channels			3.16	4.0		.6	8	0	"
1541	6-10	1055A	Haig-Sheehy	5.9	4.40	0.77	3.16	3.4		.6	8	0	"
1542	6-15		U.S.G.S.				3.15	3.9		.6	22	0	
1543	6-18	300P 315P	Haig	10.5	5.69	0.95	3.15	5.4		.6	9	0	FC 33
1544	6-25	1100A 1112A	"	10.3	5.45	1.05	3.16	5.7		.6	9	0	"
1545	6-29		U.S.G.S.				3.16	3.6		.6	15	0	
1546	7-2	150P 205P	Haig	10.1	5.60	0.95	3.16	5.3		.6	11	0	FC 33
1547	7-8	836A 850A	Haig-Brewster	10.1	5.79	0.95	3.15	5.5		.6	12	0	FC 33
1548	7-14		U.S.G.S.				3.15	4.0		.6	20	0	
1549	7-15	840A 855A	Brewster	10.0	6.11	0.90	3.16	5.5		.6	10	0	FC 12
1550	7-22	830A 840A	"	10.0	6.20	0.90	3.16	5.6		.6	10	0	"
1551	7-27		U.S.G.S.				3.15	3.4		.6	17	0	
1552	7-29	210P 227P	Haig	9.3	5.81	0.91	3.16	5.3		.6	10	0	FC 33
1553	8-5	218P 230P	"	9.3	5.68	0.92	3.16	5.2		.6	10	0	"
1554	8-11		U.S.G.S.				3.16	3.5		.6	17	0	
1555	8-12	210P 228P	Haig	9.4	5.61	0.87	3.16	4.9		.6	10	0	FC 33
1556	8-19	1026A 1040A	Haig	9.3	5.63	0.89	3.15	5.0		.6	8	0	FC 33
1557	8-24		U.S.G.S.				3.15	3.3		.6	23	0	
1558	8-27	100P 115P	Haig	9.6	6.02	0.88	3.15	5.3		.6	9	0	FC 33
1559	9-3	220P 235P	"	9.4	5.91	0.81	3.16	4.8		.6	8	0	"
1560	9-10	1255P 105P	"	9.4	5.54	0.82	3.14	4.6		.6	9	0	"
1561	9-15		U.S.G.S.				3.13	2.7		.6	15	0	
1562	9-17	325P 335P	Haig	9.2	5.47	0.80	3.13	4.4		.6	10	0	FC 33
1563	9-24	235P 245P	"	10.7	10.1	1.90	3.59	19.2		.6	9	0	"
1564	9-24		U.S.G.S.				3.54	18.1		.6	23	-.01	

F. C. Dist. Form 32 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U8R

Daily discharge, in second-feet of SAN GABRIEL RIVER near Azusa for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.5	7	6.1	7.5	5.5	5	4.9	3.2	3.6	3.8	3.6	3.0
2	7.5	7	6.1	7	5.5	5	4.9	3.4	3.4	3.8	3.6	3.0
3	8	6.5	6.2	7	5	4.9	5	3.4	3.4	3.8	3.6	3.0
4	8	6	6.1	7	5	4.7	6	3.4	3.4	3.8	3.6	2.9
5	8	6	3.6	7	5	4.5	7.5	3.6	3.4	3.8	3.6	2.9
6	8	5.5	4.9	7	5	4.2	8.5	3.6	3.4	3.8	3.4	2.7
7	8	5	4.7	7	4.9	4.2	9	3.6	3.4	3.6	3.4	2.7
8	8	6	4.7	7	4.9	4.0	9	3.6	3.4	3.8	3.4	2.7
9	7.5	6	5	7.5	4.7	4.0	9	3.6	3.4	3.6	3.4	2.7
10	7.5	6	8	7.5	4.7	4.0	9.5	3.6	3.4	3.6	3.4	2.7
11	7.5	6	5.5	7.5	4.7	4.2	8.5	3.6	3.4	3.6	3.4	2.7
12	7.5	6	5.5	7.5	4.5	4.0	6	3.6	3.4	3.6	3.4	2.7
13	7.5	4.4	6	7.5	4.5	4.0	6	3.4	3.4	3.6	3.2	2.7
14	7.5	7.1	6.5	7.5	4.7	4.7	6	3.4	3.4	3.8	3.2	2.5
15	7	7.1	6.5	7.5	4.7	7	5	3.4	3.4	3.6	3.2	2.5
16	7	7.3	7	7.5	4.7	7.5	5	3.4	3.4	3.6	3.2	2.5
17	7	7.7	7	7.5	4.5	8.5	4.7	3.4	3.6	3.6	3.2	2.5
18	7	8.0	7	7.5	4.2	8.5	4.5	3.2	3.6	3.8	3.2	2.5
19	7	7.9	7	7.5	4.2	9	4.7	3.2	3.6	3.8	3.0	2.5
20	7	7.9	7	7.5	4.2	9	210	3.2	3.6	3.8	3.0	2.5
21	7.5	7.7	7	7.5	4.7	9	25	3.2	3.6	3.6	3.0	2.5
22	7.5	6.9	7	8	4.7	9.5	370	3.2	3.8	3.8	3.0	2.5
23	7	5.9	7	9	6.5	10	370	3.4	3.6	3.8	3.0	9.5
24	7	5.9	6.5	8	8	7	370	3.4	3.8	3.8	3.0	17
25	7	5.9	7	8	8.5	6	106	3.4	3.8	3.8	3.0	27
26	7	5.9	7	8	7.5	5.5	3.4	3.4	3.8	3.8	3.0	33
27	7	5.9	7	8	5.5	5	3.0	3.4	3.8	3.8	3.0	33
28	7	5.9	7.5	7.5	5	5	3.0	3.6	3.8	3.8	3.0	29
29	7	5.9	9.5	6.5		4.9	3.0	3.6	3.8	3.8	3.2	24
30	7	5.9	8.5	6		4.9	3.2	3.6	3.8	3.6	3.2	24
31	7		7.5	5.5		4.9		3.6		3.6	3.2	
	228.0	1265.0	454.8	227.5	145.5	182.6	1590.3	106.6	107.2	116.0	100.6	255.4
MEAN	7.35	42.2	14.7	7.34	5.20	5.89	53.0	3.44	3.57	3.74	3.25	8.51
ACRE-FEET	452.	2510.	902.	451.	289.	362.	3150.	211.	213.	230.	200.	507.

Remarks:

YEAR OR PERIOD MEAN 13.1
ACRE FEET 9480.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U4R

DISCHARGE MEASUREMENTS OF SANTA ANITA CREEK

NEAR Sierra Madre DURING THE YEAR ENDING SEPTEMBER 30, 1942

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
826	9-23		U.S.G.S.				0.59	2.6		.6	14	0	
827	10-2		"				0.60	2.2		.6	14	0	
828	10-24		"				0.69	4.6		.6	16	0	
829	11-17		"				0.62	3.0		.6	14	0	
830	12-11		"				0.78	6.2		.6	19	0	
831	12-19		"				0.62	3.1		.6	16	0	
832	12-29		"				1.29	22.6		.6	14	-.01	
833	1-5		"				0.70	4.9		.6	20	-.01	
834	1-16		"				0.62	2.9		.6	17	0	
835	1-26		"				0.61	3.0		.6	16	0	
836	2-6		"				0.59	2.3		.6	18	0	
837	2-20		"				0.57	2.3		.6	13	0	
838	3-3		"				0.58	2.9		.6	14	0	
839	3-11		"				0.64	3.8		.6	14	0	
840	3-19		"				0.63	3.6		.6	18	0	
841	4-1		"				0.56	2.2	.2	.6 .8	13	0	
842	4-11		"				0.64	3.7		.6	17	0	
843	4-21		"				0.74	5.2		.6	15	0	
844	5-5		"				0.56	2.3	.2	.6 .8	15	0	
845	5-18		"				0.55	2.3		.6	14	0	
846	6-4		"				0.52	1.9		.6	14	-.01	
847	6-17		"				0.51	1.9		.6	15	0	
848	6-30		"				0.44	1.2		.6	14	0	
849	7-14		"				0.38	0.74		.6	14	0	
850	7-29		U.S.G.S.				0.36	0.55		.6	6	0	
851	8-11		"				0.36	0.65		.6	7	0	
852	8-29		"				0.35	0.61		.6	12	0	
853	9-17		"				0.34	0.53		.6	6	0	
854	10-2		"				0.32	0.46		.6	6	0	

STATION U4R

LOS ANGELES RIVER BASIN Santa Anita Creek near Sierra Madre

LOCATION:

Water-stage recorder, lat. 34°11'30", long. 118°01'00", in SW¼NE¼ sec. 10, T. 1 N., R. 11 W., at head of Hermita Falls, 4 miles northeast of Sierra Madre, Altitude of gage, about 1460 feet (from topographic map).

DRAINAGE AREA:

10.5 square miles.

RECORDS AVAILABLE:

July, 1916 to September, 1942.

AVERAGE DISCHARGE:

26 years, 5.86 second-feet.

EXTREMES:

Maximum discharge during year, 42 second-feet, December 28 (gage height 1.71 feet); minimum daily 0.3 second-foot, September 23-27.

1916-1942

Maximum discharge, about 5200 second-feet, March 2, 1938, based on inflow to flood-control reservoir; practically no flow August 18 to September 14, 1929.

REMARKS:

Records good. No diversions above station.

F.C. Dist. Form 92 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No U4R

Daily discharge, in second-feet of SANTA ANITA CREEK near Sierra Madre for the year ending September 30, 1942

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.0	3.5	3.1	8	2.5	3.0	2.2	2.9	1.9	1.1	0.5	0.7
2	1.9	3.5	3.1	6.5	2.5	2.9	2.4	2.7	1.9	1.1	0.4	0.7
3	1.6	3.4	4.1	6	2.4	2.9	2.7	2.5	1.9	1.0	0.4	0.7
4	2.0	3.4	3.5	5	2.4	2.9	4.9	2.4	1.8	1.0	0.4	0.7
5	2.2	3.4	3.1	4.6	2.4	2.7	3.2	2.4	1.7	0.8	0.4	0.6
6	2.4	3.2	3.0	4.4	2.2	2.7	3.2	2.4	1.7	0.8	0.4	0.5
7	2.5	3.2	3.0	4.2	2.1	2.7	3.1	2.4	1.7	0.7	0.4	0.4
8	2.6	3.2	2.9	3.9	2.1	2.7	3.0	2.2	1.6	0.7	0.4	0.4
9	2.6	3.1	2.9	3.8	2.1	2.7	3.0	2.2	1.7	0.7	0.5	0.4
10	2.4	3.1	2.0	3.6	2.1	2.7	3.5	2.4	1.7	0.7	0.9	0.5
11	2.2	3.1	5.5	3.5	2.1	3.6	3.6	2.4	1.8	0.8	0.7	0.6
12	3.2	3.1	4.6	3.2	2.1	3.6	3.5	2.4	1.9	0.8	0.6	0.6
13	3.0	3.1	4.1	3.2	2.1	3.4	3.4	2.4	1.8	0.8	0.6	0.5
14	2.9	3.1	3.8	3.1	2.1	5	5.5	2.4	1.7	0.8	0.6	0.4
15	2.7	3.0	3.5	3.0	2.1	5.5	4.6	2.4	1.7	0.8	0.6	0.4
16	2.6	3.0	3.4	2.9	2.1	4.6	3.9	2.4	1.7	0.8	0.6	0.4
17	2.7	3.0	3.4	2.9	2.2	4.1	4.9	2.4	1.6	0.8	0.5	0.5
18	2.7	3.0	3.2	2.9	2.2	3.8	3.8	2.2	1.6	0.8	0.5	0.5
19	3.4	3.0	3.1	3.0	2.2	3.6	3.5	2.0	1.6	0.8	0.5	0.5
20	4.4	2.9	3.1	2.9	2.2	3.5	3.4	1.8	1.5	0.7	0.5	0.4
21	4.1	2.9	3.1	2.7	4.2	3.2	4.8	1.8	1.3	0.7	0.4	0.4
22	4.8	2.9	3.1	3.0	7.5	3.2	4.4	2.0	1.2	0.6	0.4	0.4
23	4.6	2.9	3.5	2.9	4.1	3.1	3.8	2.0	1.2	0.6	0.4	0.3
24	4.8	2.9	3.4	3.0	3.5	3.0	3.5	2.1	1.2	0.5	0.4	0.3
25	4.2	2.9	3.6	3.0	3.5	3.0	3.4	2.1	1.2	0.5	0.4	0.3
26	4.1	2.9	4.8	3.0	3.2	2.9	3.4	2.1	1.3	0.5	0.5	0.3
27	4.1	2.9	3.9	2.9	3.2	2.6	3.4	2.0	1.4	0.5	0.4	0.3
28	4.1	2.9	8.5	2.7	3.1	2.5	3.4	1.9	1.3	0.5	0.5	0.4
29	3.8	3.0	23	2.7		2.5	3.1	2.0	1.1	0.4	0.5	0.4
30	3.6	3.2	13	2.7		2.4	3.0	2.0	1.1	0.4	0.6	0.4
31	3.5		9.5	2.6		2.2		1.9		0.4	0.7	
	97.9	92.7	166.8	112.0	76.5	99.4	107.7	69.2	47.0	22.1	15.6	13.9
Mean	3.16	3.09	5.38	3.61	2.73	3.21	3.59	2.23	1.57	0.71	0.50	0.46
Acre-Feet	194.	184.	331.	222.	152.	197.	214.	137.	93.	44.	31.	28.

Remarks:

Year or Period Mean 2.52 Acre-Feet 1830.

STATION U5R

SAN GABRIEL RIVER BASIN Sawpit Creek near Monrovia

LOCATION:

Water-stage recorder and broad-crested weir control, lat. 34°10'25", long 117°59'20", in NE¼SW¼ sec. 13, T. 1 N., R. 11 W., 0.1 mile downstream from natural channel of Monrovia Creek (channel formed by road construction diverts most of Monrovia Creek flow around the station). Altitude of gage, about 1100 feet (from topographic sheet).

DRAINAGE AREA:

5.3 square miles, including that of Monrovia Creek.

RECORDS AVAILABLE:

November, 1916 to September, 1942.

AVERAGE DISCHARGE:

25 years (1917-42), 1.27 second-feet; including diversion by Monrovia pipe line, 25 years, 2.63 second-feet.

EXTREMES:

Maximum daily discharge during year 2.0 second-feet, March 15; no flow during several periods.

1916-42

Maximum discharge, about 2000 second-feet, April 7, 1926, estimated from flow of Rogers Creek; no flow during parts of most years.

REMARKS:

Records fair. Figures herein are sum of flow over control plus that portion of Monrovia Creek discharge which by-passes the station. By-pass flow computed on basis of 7 discharge measurements and records of Monrovia Creek. Regulation at flood-control dam above station and diversions by city of Monrovia.

COOPERATION:

Records of discharge of Monrovia Creek and results of 13 discharge measurements of Sawpit Creek furnished by Los Angeles County Flood Control District, through H. E. Hedger, chief engineer, and M. E. Salsbury, acting chief engineer during the war emergency.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U5R

DISCHARGE MEASUREMENTS OF SAWPIT CREEK

AT NEAR Monrovia DURING THE YEAR ENDING SEPTEMBER 30, 1942

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
617	9-16		U.S.G.S.				0.35	1.4		.6	10	0	
618	9-18	1239P 1245P	Haig	5.0	1.20	1.08	0.35	1.3		.6	5	0	FC 28
619	10-2	1050A 1055A	"	1.7	0.15	0.40	0.03	0.06		.6	4	0	FC 33
620	10-2		U.S.G.S.				0.03	0.08	Float			0	
621	10-22	1230P 1232P	Haig	1.0	0.04	2.00	0.03	0.08	Float			0	
622	10-24		U.S.G.S.				0.03	0.09	Float			0	
623	10-30	132P	Haig-Middleton	1.0	0.03	2.66	0.02	0.08	Float		2	0	
624	11-3		U.S.G.S.				0.01	0.04	Float		2	0	
625	12-3	405P 408P	Haig	1.0	0.1	2.40	0.06	0.24	Float			0	
626	12-11		U.S.G.S.				0.01	0.03		.6	2	0	
627	12-29		"				0.06	0.14		.6	5	0	
628	12-31	132P 134P	Haig	1.0	0.02	2.00	0.00	0.04	Float			0	
629	1-7		U.S.G.S.				0.00	0.03		.6	3	0	
630	1-8	340P 342P	Haig	1.0	0.02	1.43	0.00	0.03	Float		2	0	
631	1-26		U.S.G.S.				-0.01	.02	Float			0	
632	2-22		"				0.01	0.03		.6	1	0	
633	2-26	140P 142P	Haig	1.0	0.02	1.50	0.00	0.03	Float		2	0	
634	3-11		U.S.G.S.				0.15	0.56		.6	8	0	
635	3-26	200P 202P	Haig	1.0	0.06	2.17	0.05	0.13	Float			0	
636	3-31		U.S.G.S.				0.02	0.06		.6	8	0	
637	4-11		"				0.12	0.54		.6	8	0	
638	4-11		"				0.11	0.52		.6	8	0	
639	4-16	1200N 1201P	Haig	1.0	0.09	2.78	0.08	0.25	Float		1	0	
640	4-21		U.S.G.S.				0.07	0.24		.6	8	0	
641	4-30	1130A 1132A	Haig	1.0	0.07	1.71	0.04	0.12	Float		1	0	
642	5-5		U.S.G.S.				0.01	0.04		.6	4	0	
643	5-7	1200N 1215P	Cole	0.9	0.09	0.45	0.01	0.04		.6	3	0	FC 24
644	5-18		U.S.G.S.				0.00	0.01	Float			0	

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U5R

Daily discharge, in second-feet of SAWPIT CREEK near Monrovia, for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.1	0	0.4	0	0	0.1	0.1				
2	0.1	0	0	0.4	0	0	0.1	0.1				
3	0.1	0	0.1	0.1	0	0	0.2	0.1				
4	0.1	0	0.1	0	0	0	1.0	0.1				
5	0.1	0	0.1	0	0	0	0.9	0				
6	0	0	0	0	0	0	0.8	0				
7	0	0	0	0	0	0	0.6	0				
8	0	0	0	0	0	0	0.2	0				
9	0	0	0.2	0	0	0	0.2	0				
10	0	0	1.2	0	0	0	0.6	0				
11	0	0.1	0.5	0	0	0.4	1.0	0	No flow	No flow	No flow	No flow
12	0.2	0.2	0.3	0	0	0.7	1.0	0				
13	0.2	0	0.2	0	0	0.9	0.8	0				
14	0	0	0.1	0	0	1.5	1.6	0				
15	0	0	0	0	0	2.0	0.7	0				
16	0	0	0	0	0	1.1	0.2	0				
17	0	0	0	0	0	0.8	0.5	0				
18	0	0	0	0	0	0.3	0.2	0				
19	0.2	0	0	0	0	0.3	0.2	0				
20	0.4	0	0	0	0	0.1	0.1	0				
21	0.5	0	0	0	0.4	0.1	0.3	0				
22	0.4	0	0	0.1	1.0	0.1	0.3	0				
23	0.4	0	0.3	0.1	0.6	0	0.2	0				
24	0.4	0	0.2	0.1	0.4	0	0.2	0				
25	0.1	0	0.1	0.4	0.4	0	0.2	0				
26	0.1	0	0.4	0.3	0.1	0.1	0.1	0				
27	0.5	0	0.1	0.1	0.1	0.1	0.1	0				
28	0.4	0	0.7	0.1	0	0	0.1	0				
29	0.1	0	1.9	0		0	0.2	0				
30	0.1	0	1.4	0		0	0.1	0				
31	0.1		0.7	0		0.1		0				
	4.6	0.4	8.6	2.1	3.0	3.6	12.8	0.4				
Mean	0.15	0.01	0.28	0.07	0.11	0.28	0.43	0.01	0	0	0	0
Acre-Feet	9.1	0.8	17.	4.2	6.0	17.	25.	0.8	0	0	0	0

Remarks:

Year or Period — Mean 0.11 — Acre Feet 80.

Diversion to Monrovia pipe line. Records furnished by city of Monrovia.

Mean												
Acre-Feet	145	147	111	122	120	119	110	120	104	88	79	77

Remarks:

Year or Period — Mean — Acre Feet 1,340

STAFF GAGE STATIONS

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F116S

DISCHARGE MEASUREMENTS OF ARROYO DITCH

NEAR below headgate DURING THE YEAR ENDING SEPTEMBER 30, 1942

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
273	10/2	1230P 1240P	Brewster	7.5	8.30	2.55		21.2		.6	4		FC 12
274	10/9	1150A 1158A	Laverty Brewster	7.5	8.97	2.04		18.3		.6	4		FC 12
275	10/16	1220P 1230P	Brewster	7.5	9.38	2.54		23.8		.6	4		FC 12
276	10/23	1230P 1236P	Brewster	4.0	0.68	0.50		0.34		.6	4		FC 12
277	10/30	100P	Brewster					No flow					
278	11/6	115P 125P	Brewster	7.5	5.71	1.77		10.1		.6	4		FC 12
279	11/13	100P 110P	Brewster	7.5	5.29	1.34		7.1		.6	4		FC 12
280	11/21	120P 130P	Brewster	7.5	3.79	0.79		3.0		.6	4		FC 12
281	11/27	1210P 1220P	Brewster	7.5	7.09	2.14		15.2		.6	4		FC 12
282	12/4	1230P 1240P	Brewster	7.5	6.42	1.64		10.5		.6	4		FC 12
283	12/11	1230P	Brewster					No flow					
292	2/13	340P	Brewster					No flow					
293	2/19	120P 130P	Brewster	7.5	6.96	2.08		14.5		.6	4		FC 12
294	2/26	100P	Brewster					No flow					
295	3/5	1245P 1255P	Brewster	7.5	11.8	1.06		12.5		.6	4		FC 12
296	3/12	1240P 1250P	Brewster	7.5	11.2	1.05		11.8		.6	4		FC 12
297	3/19	115P	Brewster					No flow					
299	4/2	130P	Brewster					No flow					
300	4/9	120P 130P	Brewster	7.5	10.8	1.02		11.0		.6	4		FC 12
301	4/16	130P	Brewster					No flow					
302	4/23	125P	Brewster					No flow					
303	4/23	402P 405P	Haig	4.0	0.40	1.30		0.52	Surf.	2			FC 33
304	4/30	150P 200P	Brewster	7.5	11.8	1.30		15.3		.6	4		FC 12
305	5/7	230P 240P	Brewster	7.5	12.1	1.91		23.1		.6	4		FC 12
306	5/14	215P 225P	Brewster	7.5	13.6	1.58		21.5		.6	4		FC 12
307	5/21	230P 240P	Brewster	7.5	14.1	1.64		23.1		.6	4		FC 12
308	5/28	305P 315P	Brewster	7.5	15.8	1.47		23.2		.6	4		FC 12
309	6/4	105P 115P	Brewster	7.5	15.5	1.57		24.3		.6	4		FC 12
310	6/11	120P 130P	Brewster	8.0	16.4	1.53		25.1		.6	4		FC 12
311	6/18	215P 225P	Brewster	7.5	16.7	1.59		26.6		.6	4		FC 12
312	6/25	115P 125P	Brewster	7.5	16.2	1.74		28.2		.6	4		FC 12
313	7/2	100P 110P	Brewster	7.5	15.0	1.68		25.2		.6	4		FC 12
314	7/9	1155A 1205P	Brewster	7.5	14.9	1.76		26.2		.6	4		FC 12
315	7/16	1154A 1206P	Brewster	7.5	14.4	1.76		25.3		.6	4		FC 12
316	7/23	1150A 1202P	Brewster	7.5	13.2	1.65		21.8		.6	4		FC 12
317	7/30	1230P 1240P	Brewster	7.5	13.9	1.57		21.8		.6	4		FC 12
318	8/6	1135A 1140A	Brewster-Haig	7.5	12.2	1.70		20.8		.6	4		FC 12
319	8/13	1155A 1203P	Haig	7.0	14.6	1.32		19.3		.6	6		FC 33
320	8/20	1125A 1130A	Haig	6.8	12.8	1.62		20.7		.6	5		FC 33
321	8/27	1230P 1240P	Brewster	7.5	13.8	1.59		22.0		.6	4		FC 12
322	9/3	1215P 1225P	Brewster	7.5	14.2	1.49		21.1		.6	4		FC 12
323	9/10	1240P 1250P	Brewster	7.5	14.4	1.31		18.9		.6	4		FC 12
324	9/17	1255P 105P	Brewster	7.5	16.0	1.37		21.9		.6	4		FC 12
325	9/24	1210P 1220P	Brewster	7.5	14.8	1.56		23.1		.6	4		FC 12

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F277S

DISCHARGE MEASUREMENTS OF ARROYO SECO

NEAR below Devil's Gate Dam DURING THE YEAR ENDING SEPTEMBER 30, 1942

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1	12/3	515P 525P	Haig	5.5	0.54	1.78	0.30	0.96		.6	5	0	FC 33
2	12/9	832A 850A	Haig	13.0	3.28	8.94	0.40	29.3		.6	10	0	FC 33
3	12/9	135P 145P	Haig	12.0	2.40	7.82	0.35	18.8		.6	7	0	FC 33
4	12/11	850A 855A	Haig	12.0	2.64	7.71	0.35	20.3		.6	6	0	FC 33
5	12/18	750A 800A	Haig	10.5	1.78	7.80	0.32	14.0		.6	7	0	FC 33
6	1/15	720A 725A	Haig	5.0	0.56	3.05	0.20	1.7		.6	5	0	FC 33
7	2/5	805A 808A	Haig	5.0	0.43	3.95	0.20	1.7		.6	4	0	FC 33
8	3/5	820A 826A	Haig	5.0	0.51	2.95		1.5	Surf.	4			FC 33
9	4/16	745A 750A	Haig	5.0	0.44	2.09		0.92		.6	5		FC 33
10	4/30	750A 754A	Haig	4.5	0.42	3.33	0.25	1.4		.6	4	0	FC 33
11	5/28	801A 805A	Haig	4.0	0.38	2.13	0.20	0.81		.6	4	0	FC 33
12	6/11	810A 814A	Haig	4.0	0.40	1.50	0.20	0.[illegible]		.6	4	0	FC 33
13	6/25	430P 435P	Haig	3.0	0.29	2.10	0.20	0.61		.6	4	0	FC 33
14	7/2	815A 820A	Haig	3.5	0.33	1.21		0.40		.6	4		FC 33
15	7/8	235P 241P	Haig-Brewster	1.0	0.18	0.89	0.16	0.16		.6	2	0	FC 33
16	7/22	340P 345P	Brewster	0.5	0.11	0.73	0.10	0.08		.6	1	0	FC 12
17	7/29	820A	Haig	0.4	0.02	0.35		0.004	Float	1			

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F58S

DISCHARGE MEASUREMENTS OF ARROYO SECO

NEAR Avenue 26 DURING THE YEAR ENDING SEPTEMBER 30, 1942

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
17	10/9	1128A 1135A	Bollinger	6.4	1.03	1.94		2.0		.6	5		FC 6
18	10/16	1052A 1100A	Bollinger	6.5	1.53	1.96		3.0		.6	6		FC 6
19	10/22	945A 953A	Bollinger	9.0	2.47	3.00		7.4		.6	7		FC 6
20	10/30	1030A 1036A	Bollinger	8.0	1.65	1.82		3.0		.6	6		FC 6
21	11/6	1027A 1035A	Bollinger	8.0	1.51	1.52		2.3		.6	6		FC 6
22	11/13	108P 115P	Bollinger	7.5	1.58	1.65		2.6		.6	6		FC 6
23	11/19	1115A 1122A	Bollinger	7.5	1.57	1.02		1.6		.6	6		FC 6
24	11/27	1111A 1120A	Bollinger	7.3	1.58	1.52		2.4		.6	6		FC 6
25	12/4	1040A 1047A	Bollinger	7.5	1.60	1.81		2.9		.6	6		FC 6
26	12/8	1000A 1010A	Bollinger	7.0	1.29	1.94		2.5		.6	7		FC 6
27	12/11	237P 255P	Bollinger	14.5	5.98	4.77		28.5		.6	8		FC 6
28	12/18	1110A 1122A	Bollinger	13.5	4.27	3.14		13.4		.6	9		FC 6
29	12/26	1005A 1013A	Bollinger	11.0	2.79	2.90		8.1		.6	7		FC 6
30	12/31	933A 940A	Bollinger	9.3	2.31	2.39		5.5		.6	7		FC 6
31	1/8	927A 935A	Bollinger	8.0	1.59	1.89		3.0		.6	7		FC 6
32	1/15	838A 846A	Bollinger	7.9	1.72	1.80		3.1		.6	7		FC 6
33	1/22	1025A 1033A	Bollinger	9.0	2.17	2.20		4.8		.6	6		FC 6
34	1/29	955A 1003A	Bollinger	8.0	1.97	2.03		4.0		.6	7		FC 6
35	2/2	932A 938A	Bollinger	6.3	1.47	2.79		4.1		.6	5		FC 6
36	2/11	1023A 1030A	Bollinger	5.5	1.27	2.28		2.9		.6	6		FC 6
37	2/19	1020A 1027A	Bollinger	4.0	0.62	1.77		1.1		.6	5		FC 6
38	2/26	1020A 1028A	Bollinger	7.5	1.59	1.82		2.9		.6	6		FC 6
39	3/5	1037A 1043A	Bollinger	5.5	1.29	2.02		2.6		.6	5		FC 6

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F58S

DISCHARGE MEASUREMENTS OF ARROYO SECO

AT NEAR Avenue 26 DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
40	3/9	935A / 942A	Bollinger	5.8	1.24	2.26		2.8		.6	5		FC 6
41	3/12	1110A / 1115A	Bollinger	6.0	1.55	2.12		3.3		.6	5		FC 6
42	3/19	905A / 912A	Bollinger	7.0	1.65	1.88		3.1		.6	5		FC 6
43	3/26	1135A / 1140A	Bollinger	6.0	1.25	1.84		2.3		.6	5		FC 6
44	4/2	1100A / 1106A	Bollinger	6.5	1.52	2.44		3.7		.6	6		FC 6
45	4/9	1027A / 1032A	Bollinger	5.5	1.14	2.11		2.4		.6	4		FC 6
46	4/16	1042A / 1047A	Bollinger	5.5	1.25	1.52		1.9		.6	5		FC 6
47	4/23	1055A / 1101A	Bollinger	5.5	1.18	1.86		2.2		.6	4		FC 6
48	4/30	1053A / 1058A	Bollinger	5.0	1.26	1.59		2.0		.6	5		FC 6
49	5/7	1115A / 1122A	Bollinger	7.5	2.27	1.85		4.2		.6	5		FC 6
50	5/14	939A / 945A	Bollinger	4.2	0.89	1.57		1.4		.6	5		FC 6
51	5/21	1005A / 1010A	Bollinger	4.7	0.83	1.45		1.2		.6	5		FC 6
52	5/28	935A / 940A	Bollinger	4.5	0.88	1.25		1.1		.6	4		FC 6
53	6/4	945A / 952A	Bollinger	4.5	0.90	1.11		1.0		.6	4		FC 6
54	6/8	905A / 910A	Bollinger	4.5	0.98	1.43		1.4		.6	4		FC 6
55	6/11	915A / 920A	Bollinger	4.0	0.70	1.17		0.82		.6	4		FC 6
56	6/15	155P / 200P	Bollinger	4.5	1.00	1.20		1.2		.6	4		FC 6
57	6/18	911A / 919A	Bollinger	3.5	0.60	1.17		0.70		.6	4		FC 6
58	6/22	910A / 915A	Bollinger	4.0	0.64	0.89		0.57		.6	4		FC 6
59	7/2	425P / 433P	Bollinger	4.0	0.87	1.02		0.89		.6	3		FC 6
60	7/9	905A / 910A	Bollinger	3.1	0.38	1.60		0.61		.6	4		FC 6
61	7/29	450P / 455P	Luce	3.7	0.47	1.43		0.67		.6	5		FC 39
62	8/6	940A / 945A	Bollinger	3.5	0.45	1.42		0.64		.6	3		FC 6
63	8/27	1013A / 1018A	Bollinger	3.5	0.54	1.24		0.67		.6	4		FC 6

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F87S

DISCHARGE MEASUREMENTS OF BANTA DITCH

AT NEAR head of pipe line DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
248	10/2	1208P / 1217P	Brewster	10.0	13.4	1.54		20.6		.6	5		FC 12
249	10/9	1120A / 1130A	Brewster-~~Laverty~~	9.0	15.2	1.45		22.0		.6	5		FC 12
250	10/16	1135A / 1145A	Brewster	10.0	15.6	1.51		23.6		.6	5		FC 12
251	10/23	1206P / 1214P	Brewster	4.5	4.66	2.92		13.6		.6	4		FC 12
252	10/30	1225P / 1235P	Brewster	10.0	10.6	1.21		12.8		.6	5		FC 12
253	11/6	1230P / 1240P	Brewster	9.0	9.50	1.16		11.0		.6	5		FC 12
254	11/13	1210P / 1220P	Brewster	10.0	10.2	1.10		11.2		.6	5		FC 12
255	11/21	1250P / 100P	Brewster	9.0	8.60	1.08		9.3		.6	4		FC 12
256	11/27	1145A / 1155A	Brewster	9.0	9.80	1.26		12.3		.6	5		FC 12
257	12/4	1205P / 1215P	Brewster	4.5	6.15	2.13		13.1		.6	4		FC 12
258	12/11	1205P / 1211P	Brewster	4.5	1.41	0.70		0.98		.6	4		FC 12
259	12/18	1150A / 1155A	Brewster	3.0	0.76	0.42		0.32		.6	3		FC 12
260	12/26	1240P / 1250P	Brewster	4.5	6.71	1.97		13.2		.6	4		FC 12
261	1/2	135P	Brewster					No flow		.			
262	1/8	1210P / 1220P	Brewster	7.0	5.10	0.80		4.1		.6	4		FC 12
263	1/15	110P / 120P	Brewster	10.0	7.68	0.89		6.8		.6	5		FC 12
264	1/22	1250P / 100P	Brewster	8.0	8.40	0.63		5.3		.6	4		FC 12
265	1/29	1245P / 1255P	Brewster	9.0	7.15	0.95		6.8		.6	5		FC 12
266	2/5	1243P / 1251P	Brewster	9.0	8.80	1.07		9.4		.6	5		FC 12
267	2/13	310P / 318P	Brewster	9.0	8.35	1.22		10.2		.6	4		FC 12
268	2/19	1255P / 105P	Brewster	8.0	6.40	0.92		5.9		.6	4		FC 12
269	2/26	1235P / 1245P	Brewster	8.0	5.00	0.64		3.2		.6	4		FC 12
270	3/5	1210P / 1220P	Brewster	8.0	7.60	0.87		6.6		.6	4		FC 12
271	3/12	1215P / 1225P	Brewster	9.0	6.95	0.96		6.7		.6	5		FC 12
272	3/19	1250P / 100P	Brewster	9.0	7.20	0.94		6.8		.6	5		FC 12
273	3/26	1255P / 105P	Brewster	8.0	5.20	0.63		3.3		.6	4		FC 12
274	4/2	102P / 114P	Brewster	10.0	12.6	1.07		13.5		.6	5		FC 12
275	4/9	1250P / 100P	Brewster	10.0	10.4	1.20		12.5		.6	5		FC 12
276	4/16	110P / 120P	Brewster	8.0	8.20	1.57		12.9		.6	4		FC 12
277	4/23	100P / 110P	Brewster	9.0	8.50	1.78		15.1		.6	5		FC 12
278	4/30	130P / 140P	Brewster	9.0	8.65	1.70		14.7		.6	5		FC 12
279	5/7	200P / 210P	Brewster	10.0	15.4	2.21		34.1		.6	5		FC 12
280	5/14	140P / 150P	Brewster	11.0	15.6	2.08		32.5		.6	5		FC 12
281	5/21	200P / 210P	Brewster	10.0	13.2	1.84		24.3		.6	5		FC 12
282	5/28	225P / 235P	Brewster	10.0	15.0	1.55		23.2		.6	5		FC 12
283	6/4	1240P / 1250P	Brewster	11.0	16.6	1.45		24.1		.6	5		FC 12
284	6/11	100P / 110P	Brewster	4.5	7.17	3.39		24.3		.6	4		FC 12
285	6/18	140P / 150P	Brewster	10.0	17.2	1.82		31.3		.6	5		FC 12
286	6/25	1230P / 1240P	Brewster	8.5	13.3	1.65		22.0		.6	5		FC 12
287	7/2	1230P / 1240P	Brewster	10.0	12.8	1.66		21.3		.6	5		FC 12
288	7/9	1120A / 1130A	Brewster	10.0	12.4	1.52		18.8		.6	5		FC 12
289	7/16	1130A / 1140A	Brewster	9.0	15.8	1.14		18.0		.6	4		FC 12
290	7/23	1130A / 1140A	Brewster	11.0	14.8	1.22		18.0		.6	6		FC 12
291	7/30	1206P / 1218P	Brewster	11.0	15.6	1.15		17.9		.6	6		FC 12
292	8/6	1110A / 1118A	Brewster-Haig	11.0	15.4	1.14		17.5		.6	6		FC 12
293	8/13	1130A / 1140A	Haig	8.5	11.9	1.36		16.2		.6	7		FC 33
294	8/20	1055A / 1102A	Haig	9.0	12.4	1.44		17.9		.6	7		FC 33
295	8/27	1205P / 1217P	Brewster	11.0	15.7	1.16		18.2		.6	6		FC 12
296	9/3	1145A / 1155A	Brewster	13.0	17.4	1.08		18.8		.6	6		FC 12
297	9/10	1217P / 1229P	Brewster	13.0	15.4	1.13		17.4		.6	6		FC 12
298	9/17	1230P / 1242P	Brewster	11.0	16.1	1.43		23.0		.6	6		FC 12
299	9/24	1145A / 1155A	Brewster	10.0	15.4	1.25		19.3		.6	6		FC 12

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F202S

DISCHARGE MEASUREMENTS OF BIG DALTON CREEK

AT NEAR above Sierra Madre Ave. DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
50	12/10	1030A	Brewster					No flow					

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F143S

DISCHARGE MEASUREMENTS OF BIG ROCK CREEK

AT NEAR above Pallette Creek DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
54	11/28	410P / 415P	Luce	12.0	7.65	2.20		16.8		.6	7		FC 39
55	12/20	300P / 312P	Luce	11.8	9.17	1.93		17.7		.6	8		FC 39
56	1/23	210P / 225P	Luce	11.0	7.63	2.05		15.6		.6	8		FC 39
57	2/20	405P / 415P	Luce	12.0	7.41	1.38		10.2		.6	8		FC 39
58	3/20	1155A / 1210P	Luce	11.5	7.13	1.42		10.1		.6	10		FC 39
59	4/16	350P / 355P	Luce	11.4	6.69	1.21		8.1		.6	7		FC 39
60	5/15	205P / 215P	Luce	11.5	4.88	0.92		4.5		.6	8		FC 39
61	6/12	350P / 400P	Luce	11.0	4.44	0.86		3.8		.6	7		FC 39
62	7/10	135P / 145P	Luce	11.3	3.98	0.95		3.7		.6	8		FC 39
63	8/14	650P / 700P	Luce	12.0	4.38	0.96		4.2		.6	9		FC 39
64	9/11	220P / 227P	Luce	10.2	4.68	0.81		3.8		.6	6		FC 39

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F183S

DISCHARGE MEASUREMENTS OF BIG ROCK CREEK

AT Palmdale-Victorville Road DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
20	12/20	410P 420P	Luce	9.5	6.65	1.81		12.0		.6	6		FC 39
21	1/23	430P 440P	Luce	10.5	6.50	1.31		8.5		.6	7		FC 39
22	2/20	300P 310P	Luce	9.7	5.67	1.28		7.3		.6	6		FC 39
23	3/20	1015A 1025A	Luce	9.0	3.48	0.46		1.6		.6	6		FC 39

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F141S

DISCHARGE MEASUREMENTS OF ELIZABETH LAKE CREEK

AT above Dry Gulch DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
39	10/15	1255P 105P	Luce van der Goot	6.7	2.21	0.63	2.22	1.4		.6	7	0	FC 39
40	11/13	940A 945A	Luce	8.5	3.11	0.90		2.8		.6	5		FC 39
41	12/18	220P 230P	Luce	8.0	2.61	1.61	2.34	4.2		.6	6	0	FC 39
42	1/15	1248P 1255P	Luce	10.5	4.22	1.35	2.34	5.7		.6	7	0	FC 39
43	2/5	245P 250P	Luce	7.0	2.79	1.47	2.32	4.1		.6	7	0	FC 39
44	3/12	325P 332P	Luce	10.4	3.64	1.46	2.38	5.3		.6	7	0	FC 39
45	4/23	150P 200P	Luce	7.0	3.08	2.14	2.39	6.6		.6	7	0	FC 39
46	6/11	230P 235P	Luce	5.0	1.36	0.98	2.10	1.33		.6	5	0	FC 39

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F100S

DISCHARGE MEASUREMENTS OF MAIN SPREADING CANAL

AT mouth of San Gabriel Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
99	10/30	1024A 1032A	Haig-Middleton	13.3	21.3	1.78	1.96	38.0		.6	9	0	FC 33
100	11/13	820A 828A	Middleton	12.5	15.0	1.33	1.51	19.9		.6	7	0	FC 36
101	1/22	808A 820A	Haig	13.0	23.9	2.22	2.23	53.0		.6	9	0	FC 33
102	2/18	130P 140P	Haig	12.0	11.2	0.78	1.26	8.8		.6	9	0	FC 33
103	2/26	1012A 1018A	Haig	4.0	0.89	0.75	0.72	0.67		.6	5	0	FC 33

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F112S

DISCHARGE MEASUREMENTS OF MILL CREEK above BIG TUJUNGA CREEK

AT Highway Bridge DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1	10/2	1100A 1110A	Turner	5.3	3.31	0.70		2.3		.6	6		FC 5
2	11/4	100P 110P	Turner	8.5	4.47	0.47	1.14	2.1		.6	8	0	FC 5
3	11/13	1240P 1250P	Turner	5.5	3.53	0.74	1.16	2.6		.6	7		FC 5
4	11/19	905A 915A	Turner	6.0	3.51	0.71	1.12	2.5		.6	7	0	FC 5
5	11/27	1135A 1145A	Turner	5.5	3.51	0.74	*1.08	2.6		.6	7	0	FC 5
		*Raised Gage Plate; Gage height 1.08 = previous datum 1.15.											
6	12/4	300P 310P	Turner	6.0	3.76	0.69	1.13	2.6		.6	7	0	FC 5
7	12/18	1125A 1135A	Turner	6.0	3.95	0.84	1.14	3.3		.6	7	0	FC 5
8	12/29	225P 235P	Turner	9.0	7.22	1.11	1.40	8.0		.6	10	0	FC 5
9	12/31	950A 1000A	Turner	8.8	6.51	0.94	1.32	6.1		.6	10	0	FC 5
10	1/8	1155A 1205P	Turner	8.6	5.39	0.78	1.20	4.2		.6	9	0	FC 5
11	1/15	1240P 1250P	Turner	8.5	5.05	0.71	1.16	3.6		.6	8	0	FC 5
12	1/22	1155A 1205P	Turner	8.4	5.04	0.73	1.16	3.7		.6	9	0	FC 5
13	1/29	1205P 1210P	Turner-Blakely	8.4	5.14	0.58	1.14	3.0		.6	9	0	FC 5
14	2/5	935A 945A	Turner	8.5	4.91	0.57	1.12	2.8		.6	9	0	FC 5
15	2/11	405P 415P	Turner	8.4	4.65	0.56	1.10	2.6		.6	9	0	FC 5
16	2/19	1115A 1125A	Turner	8.4	4.91	0.65	1.11	3.2		.6	9	0	FC 5
17	2/26	125P 135P	Turner	8.5	5.12	0.68	1.14	3.5		.6	9	0	FC 5
18	3/5	900A 910A	Turner	8.4	4.95	0.61	1.12	3.0		.6	9	0	FC 5
19	3/11	320P 330P	Turner	8.4	4.98	0.58	1.13	2.9		.6	9	0	FC 5
20	3/17	945A 955A	Turner	8.5	5.39	0.67	1.16	3.6		.6	9	0	FC 5
21	3/26	1045A 1055A	Turner	8.4	4.97	0.56	1.12	2.8		.6	9	0	FC 5
22	4/2	1140A 1150A	Turner	8.3	4.64	0.60	1.10	2.8		.6	9	0	FC 5
23	4/9	825A 835A	Turner	8.4	4.76	0.55	1.12	2.6		.6	9	0	FC 5
24	4/14	450P 500P	Turner	8.5	5.62	0.69	1.21	3.9		.6	9	0	FC 5
25	4/22	255P 305P	Turner	8.4	4.75	0.55	1.11	2.6		.6	9	0	FC 5
26	4/30	1200N 1210P	Turner	8.4	4.91	0.57	1.12	2.8		.6	9	0	FC 5
27	5/7	1030A 1040A	Turner	8.0	4.77	0.50	1.10	2.4		.6	10	0	FC 5
28	5/14	925A 935A	Turner	4.9	3.66	0.68	1.10	2.5		.6	6	0	FC 5
29	5/21	355P 405P	Turner	4.3	2.90	0.45	0.99	1.3		.6	6	0	FC 5
30	5/27	935A 945A	Turner	4.8	3.31	0.60	1.06	2.0		.6	7	0	FC 5
31	6/4	1215P 1225P	Blakely	4.9	2.73	0.55	1.00	1.5		.6	6	0	FC 44
32	6/11	1130A 1140A	Blakely	5.0	3.12	0.45	1.00	1.4		.6	7	0	FC 44
33	6/18	1025A 1035A	Luce	5.2	3.13	0.48	0.98	1.5		.6	6	0	FC 39
34	6/26	845A 855A	Luce	4.3	2.48	0.33	0.91	0.83		.6	5	0	FC 39
35	7/9	1255P 100P	Turner	3.9	1.92	0.22	0.83	0.42	Surf float		4	0	FC 5
36	7/16	905A 915A	Turner	3.5	0.72	0.60	0.86	0.43		.6	6	0	FC 5
37	7/23	1010A 1020A	Turner	2.7	0.61	0.54	0.84	0.33		.6	5	0	FC 5
38	7/30	855A 900A	Turner	3.0	0.58	0.40	0.82	0.23		.6	6	0	FC 5
39	8/6	1035A 1040A	Turner	3.0	0.57	0.40	0.81	0.23		.6	6	0	FC 5
40	8/13	230P 240P	Turner	3.1	0.61	0.54	0.88	0.33		.6	6	0	FC 5
41	8/20	915A 920A	Turner	3.0	0.55	0.42	0.82	0.23		.6	6	0	FC 5
42	9/3	950A 1000A	Turner	3.3	0.72	0.65	0.88	0.47		.6	6	0	FC 5
43	9/10	930A 940A	Turner	3.3	0.68	0.62	0.87	0.42		.6	6	0	FC 5
44	9/17	310P 315P	Turner	3.2	0.52	0.40	0.80	0.21		.6	6	0	FC 5
45	9/24	1025A 1030A	Turner	3.1	0.54	0.50	0.84	0.27		.6	6	0	FC 5

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F197-S

DISCHARGE MEASUREMENTS OF PACOIMA WASH

AT NEAR Arleta Street, above Spreading Grounds DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
32	6-25	245P 300P	Luce	21.0	13.9	1.71		23.8		.6	11		FC 39
33	7-15	1130A 1140A	"	19.5	11.9	1.45		17.2		.6	11		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F121S

DISCHARGE MEASUREMENTS OF PALLETTE CREEK

AT above Big Rock Creek DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
43	11/28	335P 345P	Luce	4.5	1.37	1.39		1.9		.6	5		FC 39
44	12/20	330P 335P	Luce	5.5	1.43	1.26		1.8		.6	5		FC 39
45	1/23	130P 135P	Luce	5.3	1.54	1.04		1.6		.6	5		FC 39
46	2/20	330P 335P	Luce	4.5	1.55	1.22		1.9		.6	5		FC 39
47	3/20	1105A 1110A	Luce	5.0	1.58	1.50		2.37		.6	5		FC 39
48	4/16	330P 335P	Luce	4.5	1.38	1.31		1.8		.6	5		FC 39
49	5/15	130P 135P	Luce	4.0	1.43	1.12		1.6		.6	5		FC 39
50	7/10	1235P 1240P	Luce	4.0	1.42	0.84		1.2		.6	5		FC 39
51	9/11	140P 145P	Luce	3.4	0.61	1.28		0.78		.6	6		FC 39

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F122S

DISCHARGE MEASUREMENTS OF PALLETTE CREEK

AT NEAR Big Rock Creek DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
51	11/28	440P 450P	Luce	6.0	1.49	0.94		1.4		.6	6		FC 39
52	12/20	315P 325P	Luce	6.0	1.73	1.10		1.9		.6	6		FC 39
53	1/23	235P 245P	Luce	5.5	1.48	0.88		1.3		.6	5		FC 39
54	2/20	340P 345P	Luce	5.2	1.18	1.02		1.2		.6	5		FC 39
55	3/20	1130A 1140A	Luce	5.0	1.44	1.05		1.5		.6	5		FC 39
56	4/16	340P 345P	Luce	4.4	1.07	0.83		0.89		.6	5		FC 39
57	5/15	150P 155P	Luce	4.5	1.71	0.64		1.1		.6	5		FC 39
58	7/10	115P 120P	Luce	3.5	0.65	0.92		0.60		.6	6		FC 39
59	9/11	200P 205P	Luce	4.5	0.72	0.70		0.50		.6	5		FC 39

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F93S

DISCHARGE MEASUREMENTS OF SANTA CLARA RIVER

AT NEAR above Lang R. R. Station DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
15	11/3	1035A 1045A	Luce	8.0	2.97	1.38		4.1		.6	6		FC 39
16	12/18	130P 140P	Luce	Two channels				7.2		.6	11		FC 39
17	1/15	1145A 1155A	Luce	8.0	3.97	2.44		9.7		.6	6		FC 39
18	2/5	110P 115P	Luce	10.7	4.27	1.63		7.0		.6	6		FC 39
19	3/12	220P 228P	Luce	9.0	3.65	1.40		5.1		.6	7		FC 39
20	4/23	1225P 1235P	Luce	5.0	2.17	1.52		3.3		.6	6		FC 39
21	6/17	400P 405P	Luce	5.0	1.14	0.63		0.72		.6	6		FC 39
22	7/22	1205P 1210P	Luce	2.8	0.45	0.67		0.30		.6	5		FC 41
23	8/6	1240P 1245P	Luce	3.8	0.60	0.63		0.38		.6	4		FC 39
24	8/26	130P 135P	Turner	3.5	0.66	0.53		0.35		.6	5		FC 5

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F137B-S

DISCHARGE MEASUREMENTS OF SANTA CLARA RIVER

AT NEAR 8 miles west of Castiac Junction DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
21	10-15	130P	Luce van der Goot	13.7	7.69	2.42		18.6		.6	9		FC 39
22	11-13	855A 910A	Luce	17.0	7.71	2.50		19.32		.6	9		"
23	4-30	105P 115P	"	19.5	11.7	4.21		49.2		.6	7		"
24	7-29	115P 125P	"	11.5	5.67	1.69		9.6		.6	8		"
25	8-13	1235P 1245P	"	11.8	5.61	1.82		10.2		.6	8		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F272S

DISCHARGE MEASUREMENTS OF SANTA MONICA CREEK

AT NEAR above Rustic Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
53	10/2	358P 405P	Moon	6.0	1.21	1.40		1.7		.6	4		FC 22
54	10/8	1037A 1044A	Moon van der Goot	6.0	1.08	1.00		1.1		.6	6		FC 22
55	10/16	--	Moon	-	-	--		0.79		-	-		- -
56	10/23	237P 240P	Moon	3.5	0.57	2.10		1.2		.6	3		FC 22
57	10/30	410P 415P	Moon	4.0	0.68	2.06		1.4		.6	4		FC 22
58	11/6	1244P 1249P	Moon	4.0	0.77	1.82		1.4		.6	4		FC 22
59	11/13	338P	Moon	4.0	0.79	2.02		1.6		.6	4		FC 22
60	11/19	409P	Moon	3.5	0.63	1.90		1.2		.6	4		FC 22
61	11/27	429P	Moon	3.5	0.55	2.18		1.2		.6	3		FC 22
62	12/4	330P	Moon	4.5	0.97	1.34		1.3		.6	4		FC 22
63	12/10	910A 915A	Moon-Eckert	5.0	0.92	1.09		1.0		.6	5		FC 22
64	12/11	351P	Moon	6.0	0.88	1.36		1.2		.6	6		FC 22
65	12/18	1235P 1240P	Moon	2.0	0.58	1.90		1.1		.6	4		FC 22
66	12/26	157P 202P	Moon	5.0	0.89	1.35		1.2		.6	5		FC 22
67	12/29	1215P 1217P	Moon-Eckert	5.0	0.38	0.53		2.0		.6	4		FC 22
68	12/31	342P 347P	Moon	4.0	1.02	1.76		1.8		.6	4		FC 22
69	1/8	326P 332P	Moon	5.0	0.34	3.82		1.3		.6	5		FC 22
70	1/15	430P 434P	Moon	Two channels				1.0		.6 & Est	3		FC 22
71	1/22	345P 348P	Moon	1.7	0.76	1.71		1.3		.6	2		FC 22
72	1/29	445P	Moon	1.5	0.72	1.39		1.0		.6	2		FC 22
73	2/5	328P 329P	Moon	1.5	0.72	1.39		1.0		.6	2		FC 22
74	2/11	425P	Moon	1.5	0.72	1.53		1.1		.6	2		FC 22
75	2/19	404P 405P	Moon	1.5	0.68	1.76		1.2		.6	2		FC 22
76	2/26	348P 352P	Moon	2.5	0.54	2.59		1.4		.6	3		FC 22
77	3/5	338P 340P	Moon	4.0	0.28	3.36		0.94		.6	2		FC 22
78	3/11	847A 852A	Moon-Eckert	4.5	0.99	1.42		1.4		.6	4		FC 22
79	3/12	405P 406P	Moon	2.2	0.50	1.70		0.85		.6	2		FC 22
80	3/19	410P 414P	Moon	4.0	0.59	1.42		0.84		.6	4		FC 22
81	3/26	345P 350P	Moon	4.5	0.47	1.47		0.69		.6	4		FC 22
82	4/2	348P 353P	Moon	4.0	0.48	1.17		0.56		.6	4		FC 22
83	4/9	340P 345P	Moon	5.0	0.60	0.93		0.56		.6	4		FC 22
84	4/16	1258P 1242P	Moon	3.5	0.62	1.26		0.78		.6	4		FC 22
85	4/22	230P 235P	Moon	4.0	0.90	1.22		1.1		.6	4		FC 22
86	4/30	1040A 1044A	Moon	4.0	0.78	0.91		0.71		.6	4		FC 22
87	5/7	335P 340P	Moon	4.0	0.72	0.94		0.68		.6	4		FC 22
88	5/14	321P 328P	Moon	4.0	0.72	0.88		0.63		.6	4		FC 22
89	5/21	228P	Moon	4.0	0.84	0.95		0.80		.6	4		FC 22
90	5/28	337P 342P	Moon	4.0	0.74	1.03		0.76		.6	4		FC 22
91	6/4	244P 251P	Moon	4.0	0.87	0.79		0.69		.6	6		FC 22
92	6/11	145P 150P	Moon	4.0	0.93	0.74		0.69		.6	5		FC 22
93	6/18	230P 235P	Moon	3.8	1.02	0.57		0.58		.6	4		FC 22
94	6/25	425P 430P	Moon	4.0	0.90	0.72		0.65		.6	4		FC 22
95	7/2	240P 242P	Moon	1.5	0.33	1.61		0.53		.6	2		FC 22
96	7/9	226P 231P	Moon	3.8	0.88	0.61		0.54		.6	4		FC 22
97	7/16	238P 242P	Moon	4.0	0.63	0.70		0.44		.6	4		FC 22
98	7/23	250P 255P	Moon	4.0	0.66	0.61		0.40		.6	4		FC 22
99	7/30	314P 315P	Moon	2.0	0.25	1.96		0.49		.6	2		FC 22
100	8/5	110P 114P	Bonadiman	4.0	0.44	0.82		0.36		.6	2		FC 19
101	8/12	116P 121P	Bonadiman	4.0	0.54	0.54		0.29		.6	3		FC 19
102	8/20	457P 501P	Moon	4.0	0.79	0.54		0.43		.6	4		FC 22
103	8/26	324P 329P	Moon	3.8	0.58	0.64		0.37		.6	4		FC 22
104	9/2	225P 228P	Moon	2.0	0.24	1.42		0.34		.6	2		FC 22
105	9/10	155P	Moon	2.0	0.34	1.29		0.44		.6	2		FC 22
106	9/17	1100A	Moon				Est.	0.40					
107	9/24	238P 240P	Moon	1.8	0.32	1.16		0.37		.6	2		FC 22

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F55S

DISCHARGE MEASUREMENTS OF SANTA MONICA CREEK

AT NEAR below Rustic Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
117	10/2	348P 355P	Moon	8.0	1.66	1.57		2.6		.6	6		FC 22
118	10/8	1053A 1100A	Moon van der Goot	5.5	1.34	1.34		1.8		.6	5		FC 22
119	10/16	405P 411P	Moon	5.0	1.04	1.35		1.4		.6	5		FC 22

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F55S

DISCHARGE MEASUREMENTS OF SANTA MONICA CREEK

AT below Rustic Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
120	10/23	243P 248P	Moon	5.0	1.34	1.57		2.1		.6	5		FC 22
121	10/30	421P 425P	Moon	4.5	0.87	1.95		1.7		.6	4		FC 22
122	11/6	1237P 1242P	Moon	5.0	1.06	2.08		2.2		.6	5		FC 22
123	11/13	322P 327P	Moon	4.0	0.76	2.37		1.8		.6	4		FC 22
124	11/19	357P 402P	Moon	4.2	0.93	1.61		1.5		.6	4		FC 22
125	11/27	420P 424P	Moon	4.2	0.83	1.93		1.6		.6	4		FC 22
126	12/4	315P 320P	Moon	4.5	1.05	1.62		1.7		.6	4		FC 22
127	12/10	901A 907A	Moon-Eckert	6.0	1.32	1.29		1.7		.6	6		FC 22
128	12/11	352P 357P	Moon	4.5	1.20	1.75		2.1		.6	4		FC 22
129	12/18	1225P 1230P	Moon	4.0	1.16	2.41		2.8		.6	4		FC 22
130	12/26	148P 153P	Moon	5.0	1.45	1.45		2.1		.6	5		FC 22
131	12/29	1204P 1209P	Moon-Eckert	5.5	2.27	3.22		7.3		.6	5		FC 22
132	12/31	335P 341P	Moon	6.0	1.52	1.64		2.5		.6	6		FC 22
133	1/8	320P 325P	Moon	4.2	1.26	2.14		2.7		.6	4		FC 22
134	1/15	422P 427P	Moon	4.0	1.23	1.79		2.2		.6	4		FC 22
135	1/22	338P 342P	Moon	4.0	1.14	1.93		2.2		.6	4		FC 22
136	1/29	435P 440P	Moon	4.0	1.06	1.60		1.7		.6	4		FC 22
137	2/5	320P 325P	Moon	4.0	1.08	1.76		1.9		.6	4		FC 22
138	2/11	410P 425P	Moon	4.0	1.07	1.78		1.9		.6	4		FC 22
139	2/19	355P 400P	Moon	4.0	0.93	1.61		1.5		.6	5		FC 22
140	2/26	336P 341P	Moon	4.0	1.24	1.94		2.4		.6	4		FC 22
141	3/5	325P 330P	Moon	4.2	0.86	1.63		1.4		.6	5		FC 22
142	3/11	838A 844A	Moon-Eckert	7.0	1.59	1.51	1.90	2.4		.6	5		FC 22
143	3/12	355P 400P	Moon	4.2	0.91	1.98		1.8		.6	4		FC 22
144	3/19	415P 420P	Moon	4.0	0.90	1.64		1.5		.6	4		FC 22
145	3/26	337P 341P	Moon	4.0	0.82	1.71		1.4		.6	4		FC 22
146	4/2	340P 345P	Moon	4.0	0.80	1.51		1.2		.6	4		FC 22
147	4/9	330P 336P	Moon	5.0	0.92	1.41		1.3		.6	5		FC 22
148	4/16	1245P 1249P	Moon	4.0	0.80	1.62		1.3		.6	4		FC 22
149	4/22	240P 245P	Moon	5.0	0.96	1.56		1.5		.6	5		FC 22
150	4/30	1032A 1037A	Moon	5.0	1.10	1.64		1.8		.6	5		FC 22
151	5/7	343P 348P	Moon	5.0	0.98	1.53		1.5		.6	5		FC 22
152	5/14	330P 335P	Moon	5.0	0.94	1.38		1.3		.6	5		FC 22
153	5/21	217P 222P	Moon	5.0	0.86	1.51		1.3		.6	5		FC 22
154	5/28	327P 334P	Moon	5.0	0.88	1.36		1.2		.6	5		FC 22
155	6/4	235P 241P	Moon	5.0	0.70	1.40		0.98		.6	5		FC 22
156	6/11	155P 200P	Moon	5.0	0.70	1.43		1.0		.6	5		FC 22
157	6/18	240P 245P	Moon	5.0	0.70	1.57		1.1		.6	5		FC 22
158	6/25	415P 420P	Moon	4.8	0.69	1.45		1.0		.6	5		FC 22
159	7/2	230P 235P	Moon	5.0	0.80	1.02		0.82		.6	5		FC 22
160	7/9	220P 225P	Moon	4.5	0.73	1.12		0.82		.6	4		FC 22
161	7/16	230P 235P	Moon	5.0	0.58	0.93		0.54		.6	5		FC 22
162	7/23	241P 246P	Moon	5.5	0.71	0.92		0.65		.6	5		FC 22
163	7/30	302P 308P	Moon	3.8	0.46	1.57		0.72		.6	5		FC 22
164	8/5	100P 104P	Bonadiman	5.0	0.70	0.88		0.62		.6	2		FC 19
165	8/12	100P 106P	Bonadiman	5.0	0.72	0.69		0.50		.6	3		FC 19
166	8/20	504P 508P	Moon	4.0	0.58	1.21		0.70		.6	4		FC 22
167	8/26	315P 320P	Moon	4.0	0.54	1.07		0.58		.6	4		FC 22
168	9/2	210P 215P	Moon	4.0	0.61	1.00		0.61		.6	4		FC 22
169	9/10	200P 206P	Moon	4.5	1.01	0.66		0.67		.6	5		FC 22
170	9/24	230P 235P	Moon	4.0	0.72	0.85		0.61		.6	4		FC 22

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F125S

DISCHARGE MEASUREMENTS OF SANTIAGO CREEK

AT above Little Rock Creek DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
26	12/29	323P 325P	Luce Pardieck	6.5	1.99	0.41		8.3		.6	6		FC 39
27	1-24	1015A 1025A	Luce	4.0	0.80	0.81		0.65		.6	4		"
28	2-20	1155A 1201P	"	4.0	0.92	0.78		0.71		.6	4		"
29	3-20	430P 435P	"	4.0	0.76	1.32		1.00		.6	4		"
30	4-16	140P 142P	"	4.0	0.97	0.83		0.81		.6	4		"
31	5-15	1150A 1155A	"	2.7	0.68	0.62		0.42		.6	4		"
32	6-12	430P	"					Dry					

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F257S

DISCHARGE MEASUREMENTS OF SOLSTICE CREEK

AT Roosevelt Highway DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
6	3/5	115P 116P	Moon	2.0	0.20	0.50		0.10		.6	2		FC 22

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 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F68B-S

FACTOR "E"

DISCHARGE MEASUREMENTS OF TRI-CITY OUTFALL SEWER

above Rio Hondo DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
170	10/2	814A 826A	Brewster	9.0	8.80	1.15		10.1		.6	5		FC 12
171	10/9	810A 816A	Brewster	11.0	10.7	0.98		10.5		.6	6		FC 12
172	10/16	816A 825A	Brewster	11.0	10.6	0.92		9.8		.6	6		FC 12
173	10/23	910A 920A	Brewster	14.0	12.0	0.92		11.1		.6	7		FC 12
174	10/30	818A 827A	Brewster	11.0	10.6	1.12		11.9		.6	6		FC 12
175	11/6	817A 824A	Brewster	11.0	9.75	1.00		9.7		.6	5		FC 12
176	11/13	815A 825A	Brewster	9.0	8.40	1.21		10.2		.6	5		FC 12
177	11/21	855A 905A	Brewster	10.0	10.0	1.38		13.8		.6	6		FC 12
178	11/27	813A 825A	Brewster	9.0	8.20	1.00		8.2		.6	5		FC 12
179	12/4	814A 832A	Brewster	11.0	9.75	1.04		10.1		.6	5		FC 12
180	12/11	828A 837A	Brewster	12.0	11.7	1.34		15.7		.6	5		FC 12
181	12/18	836A 847A	Brewster	12.0	12.8	1.18		15.1		.6	6		FC 12
182	12/26	921A 932A	Brewster	13.0	14.3	0.99		14.1		.6	6		FC 12
183	1/2	855A 845A	Brewster	13.0	12.7	1.13		14.4		.6	6		FC 12
184	1/8	855A 905A	Brewster	12.0	12.8	1.06		13.6		.6	6		FC 12
185	1/15	830A 840A	Brewster	11.0	11.4	0.92		10.5		.6	6		FC 12
186	1/22	845A 855A	Brewster	11.0	12.0	1.06		12.7		.6	6		FC 12
187	1/29	835A 845A	Brewster	11.0	10.8	0.76		8.2		.6	6		FC 12
188	2/5	900A 910A	Brewster	9.0	8.35	0.97		8.1		.6	5		FC 12
189	2/13	920A 930A	Brewster	11.0	9.40	1.09		10.2		.6	6		FC 12
190	2/19	902A 914A	Brewster	11.0	9.40	1.00		9.4		.6	5		FC 12
191	2/26	845A 855A	Brewster	12.0	9.40	0.98		9.25		.6	6		FC 12
192	3/5	830A 840A	Brewster	11.0	8.85	0.95		8.4		.6	6		FC 12
193	3/12	830A 840A	Brewster	10.0	7.10	1.20		8.5		.6	6		FC 12
194	3/19	835A 845A	Brewster	12.0	10.6	1.03		10.9		.6	6		FC 12
195	3/26	838A 850A	Brewster	12.0	10.6	1.07		11.3		.6	6		FC 12
196	4/2	855A 905A	Brewster	11.0	10.4	0.85		8.8		.6	6		FC 12
197	4/9	830A 840A	Brewster	12.0	10.0	0.93		9.3		.6	6		FC 12
198	4/16	845A 855A	Brewster	14.0	9.40	1.13		10.6		.6	5		FC 12
199	4/22	218P 223P	Haig	13.0	16.9	1.22		20.7		.6	6		FC 33
200	4/23	840A 850A	Brewster	10.0	8.00	1.25		10.0		.6	5		FC 12
201	4/23	258P 304P	Haig	12.5	16.1	1.14		18.4		.6	7		FC 33
202	4/24	120P 126P	Haig	15.0	19.6	1.15		22.5		.6	7		FC 33
203	4/25	1040A 1045A	Haig	13.0	17.9	1.26		22.5		.6	6		FC 33
204	4/30	830A 840A	Brewster	11.0	8.90	1.24		11.0		.6	6		FC 12
205	5/7	835A 845A	Brewster	11.0	7.80	0.90		7.0		.6	6		FC 12
206	5/14	845A 855A	Brewster	11.0	7.90	1.22		9.6		.6	6		FC 12
207	5/21	820A 830A	Brewster	12.0	5.52	1.23		6.8		.6	6		FC 12
208	5/28	818A 827A	Brewster	10.0	6.48	1.13		7.3		.6	5		FC 12
209	6/4	700A 710A	Brewster	10.0	5.88	1.24		7.3		.6	5		FC 12
210	6/11	830A 840A	Brewster	11.0	5.85	1.30		7.6		.6	6		FC 12
211	6/18	820A 830A	Brewster	12.0	5.28	1.34		7.1		.6	6		FC 12
212	6/25	816A 828A	Brewster	12.0	5.28	1.38		7.3		.6	6		FC 12
213	7/2	825A 835A	Brewster	12.0	5.72	1.42		8.1		.6	6		FC 12
214	7/9	810A 820A	Brewster	12.0	4.60	1.43		6.6		.6	6		FC 12
215	7/16	815A 825A	Brewster	12.0	3.92	1.28		5.0		.6	6		FC 12
216	7/23	805A 815A	Brewster	13.0	3.72	1.29		4.8		.6	7		FC 12
217	7/30	805A 815A	Brewster	12.0	4.48	1.34		6.0		.6	6		FC 12
218	8/6	800A 810A	Brewster	12.0	4.36	1.22		5.3		.6	6		FC 12
219	8/13	758A 804A	Haig	10.0	4.92	1.26		6.2		.6	6		FC 33
220	8/20	754A 802A	Haig	9.0	5.35	1.02		5.5		.6	7		FC 33
221	8/27	816A 830A	Brewster	12.0	3.60	1.53		5.5		.6	6		FC 12
222	9/3	811A 822A	Brewster	9.0	4.43	1.35		6.0		.6	5		FC 12
223	9/10	815A 826A	Brewster	10.0	4.28	1.33		5.7		.6	5		FC 12
224	9/17	818A 829A	Brewster	10.0	4.52	1.28		5.8		.6	5		FC 12
225	9/24	832A 845A	Brewster	10.0	4.88	1.23		6.0		.6	5		FC 12

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

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 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
131	10-2	840A 846A	Brewster	4.0	0.70	0.70		0.49		.6	4		FC 12
132	10-9	835A 840A	"	4.0	0.88	0.69		0.61		.6	4		"
133	10-16	842A 847A	"	3.0	0.78	0.78		0.61		.6	3		"
134	10-23	854A 900A	"	4.0	0.72	0.74		0.53		.6	4		"
135	10-30	840A 845A	"	3.0	0.82	0.71		0.58		.6	3		"
136	11-6	832A 837A	"	3.0	0.56	0.84		0.47		.6	3		"
137	11-13	835A 842A	"	4.0	0.82	0.71		0.58		.6	4		"
138	11-21	915A 920A	"	3.0	0.80	0.81		0.65		.6	3		"
139	11-27	835A 841A	"	4.0	0.74	0.81		0.60		.6	4		"
140	12-4	840A 845A	"	3.0	0.88	0.64		0.56		.6	3		"
141	12-11	845A 851A	"	4.0	0.84	0.75		0.63		.6	4		"
142	12-18	854A 900A	"	4.0	0.82	0.68		0.56		.6	4		"
143	12-26	937A 942A	"	3.0	0.88	0.81		0.71		.6	3		"
144	1-2	855A 901A	"	3.0	0.70	0.96		0.67		.6	3		"
145	1-8	910A 915A	"	3.0	0.76	0.63		0.48		.6	3		"
146	1-15	900A 906A	"	3.0	0.84	0.81		0.68		.6	3		"
147	1-22	905A 911A	"	3.0	0.78	1.04		0.81		.6	3		"
148	1-29	900A 908A	"	4.0	0.78	0.86		0.67		.6	4		"
149	2-5	838A 845A	"	3.0	0.82	0.84		0.69		.6	3		"
150	2-13	850A 856A	"	3.0	0.76	1.11		0.84		.6	3		"
151	2-19	840A 847A	"	4.0	1.08	0.67		0.72		.6	4		"
152	2-26	829A 835A	"	4.0	1.00	0.71		0.71		.6	4		"
153	3-5	814A 820A	"	4.0	1.04	0.76		0.79		.6	4		"
154	3-12	814A 820A	"	4.0	0.96	0.72		0.69		.6	4		"
155	3-19	819A 825A	Brewster	3.0	0.86	0.81		0.70		.6	3		FC 12
156	3-26	814A 820A	"	3.0	0.78	0.81		0.63		.6	3		"
157	4-2	839A 845A	"	3.0	0.86	0.72		0.62		.6	3		"
158	4-9	815A 820A	"	3.0	0.56	1.20		0.67		.6	3		"
159	4-16	826A 832A	"	4.0	0.80	0.92		0.74		.6	4		"
160	4-23	820A 826A	"	3.0	0.84	0.71		0.60		.6	3		"
161	4-30	900A 910A	"	4.0	0.78	0.92		0.72		.6	4		"
162	5-7	900A 906A	"	3.0	0.96	0.61		0.59		.6	3		"
163	5-14	910A 916A	"	4.0	1.06	0.71		0.75		.6	4		"
164	5-21	854A 900A	"	4.0	0.70	1.27		0.89		.6	4		"
165	5-28	846A 852A	"	3.0	0.84	0.70		0.59		.6	3		"
166	6-4	724A 730A	"	3.0	0.88	0.80		0.70		.6	3		"
167	6-11	814A 820A	"	4.0	0.74	0.89		0.66		.6	4		"
168	6-18	848A 854A	"	3.0	0.50	1.20		0.60		.6	3		"
169	6-25	800A 806A	"	3.0	0.72	0.96		0.69		.6	3		"
170	7-2	845A 851A	"	4.0	0.74	0.69		0.51		.6	4		"
171	7-9	835A 840A	"	3.0	0.52	0.73		0.38		.6	3		"
172	7-16	845A 853A	"	3.0	0.84	0.62		0.52		.6	3		"
173	7-23	825A 831A	"	3.0	0.68	0.71		0.48		.6	3		"
174	7-30	825A 833A	"	3.0	0.76	0.70		0.53		.6	3		"
175	8-6	818A 823A	Brewster-Haig	3.0	0.60	0.83		0.50		.6	3		"
176	8-13	810A 820A	Haig	3.5	0.65	0.85		0.55		.6	5		FC 33
177	8-20	812A 818A	"	3.0	0.48	0.87		0.42		.6	4		"
178	8-27	840A 846A	Brewster	3.0	0.68	1.15		0.78		.6	3		FC 12
179	9-3	833A 840A	Brewster	3.0	0.56	1.12		0.63		.6	3		FC 12
180	9-10	840A 845A	"	3.0	0.52	0.75		0.39		.6	3		"
181	9-17	840A 846A	"	3.0	0.56	0.80		0.45		.6	3		"
182	9-24	857A 905A	"	3.0	0.64	0.59		0.38		.6	3		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

FACTOR "I"

DISCHARGE MEASUREMENTS OF TEMPLE DITCH

at above head of pipeline DURING THE YEAR ENDING SEPTEMBER 30 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
129	10-2	330P 340P	Brewster	9.0	5.91	1.54		9.1		.6	5		FC 12
130	10-9	130P 140P	Brewster-Laverty	7.0	7.76	1.13		8.8		.6	5		"
131	10-16	320P 330P	Brewster	8.0	7.75	1.34		10.4		.6	5		"
132	10-23	245P	"					0					
150	2-26	220P	"					0					
151	3-5	135P 141P	"	4.0	1.12	1.25		1.4		.6	4		"
152	3-12	250P 300P	"	6.0	1.59	1.38		2.2		.6	4		"
153	3-19	220P 230P	"	6.0	2.65	0.98		2.6		.6	4		"
154	3-26	215P 225P	"	7.0	3.50	1.51		5.3		.6	4		"
155	4-2	215P 225P	"	7.0	4.25	1.18		5.0		.6	4		"
156	4-9	300P 310P	"	7.0	3.68	1.44		5.3		.6	4		"
157	4-16	245P	"					0					
158	4-23	250P	"					0					
159	4-30	340P 350P	"	7.0	2.46	1.42		3.5		.6	4		"
160	5-7	400P 410P	"	9.0	6.35	1.42		9.0		.6	5		"
161	5-14	345P 355P	"	9.0	8.90	0.94		8.4		.6	5		"
162	5-21	400P 410P	"	7.0	11.4	0.79		9.0		.6	5		"
163	5-28	415P 425P	"	8.0	6.13	1.34		8.2		.6	5		"
164	6-4	250P 300P	"	5.5	6.02	1.33		8.0		.6	4		"
165	6-11	315P 325P	"	10.0	8.80	0.93		8.2		.6	5		"
166	6-18	330P 340P	"	6.5	6.37	1.11		7.1		.6	5		"
167	6-25	220P 230P	"	8.0	6.60	0.92		6.1		.6	4		"
168	7-2	320P 330P	"	6.0	4.95	1.31		6.5		.6	4		"
169	7-9	200P 210P	"	7.0	10.0	0.66		6.6		.6	5		"
170	7-16	200P 210P	Brewster	6.0	6.70	0.99		6.6		.6	4		FC 12
171	7-23	130P 140P	"	8.0	5.40	1.00		5.4		.6	4		"
172	7-30	145P 155P	"	8.0	5.28	0.91		4.8		.6	4		"
173	8-6	120P 125P	Brewster-Haig	8.0	3.75	1.28		4.8		.6	5		"
174	8-13	1250P 1258P	Haig	7.0	3.68	1.44		5.3		.6	6		FC 33
175	8-20	1210P 1220P	"	9.0	12.9	0.25		3.2		.6	8		"
176	8-27	140P 150P	Brewster	6.0	7.45	0.62		4.6		.6	4		FC 12
177	9-3	145P 155P	"	9.0	5.15	0.89		4.6		.6	4		"
178	9-10	140P 150P	"	10.0	5.20	0.94		4.9		.6	5		"
179	9-17	220P 230P	"	8.0	5.60	0.71		4.0		.6	4		"
180	9-24	120P 130P	"	9.0	7.35	0.64		4.7		.6	5		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

FACTOR "J"

DISCHARGE MEASUREMENTS OF RINCON DITCH

at above head of pipeline DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
130	10-2	230P 240P	Brewster	8.0	16.0	0.32		5.1		.6	4		FC 12
131	10-9	210P 220P	Brewster-Laverty	8.0	11.3	0.45		5.1		.6	4		"
132	10-16	245P 255P	Brewster	8.0	15.0	0.37		5.5		.6	4		"
133	10-23	210P 220P	"	8.0	16.2	0.21		3.4		.6	4		"
134	10-30	230P	"					0					
155	3-26	240P	"					0					
156	4-2	235P 241P	"	4.0	1.10	0.48		0.53		.6	4		"
157	4-9	230P 240P	"	8.0	12.4	0.36		4.4		.6	4		"
158	4-16	225P 233P	"	5.0	6.90	0.26		1.8		.6	5		"
159	4-23	200P 210P	"	8.0	12.7	0.40		5.1		.6	5		"
160	4-30	315P 325P	"	8.0	10.4	0.37		3.8		.6	4		"
161	5-7	340P 350P	"	8.0	13.8	0.38		5.3		.6	4		"
162	5-14	325P 335P	Brewster	8.0	13.0	0.48		6.2		.6	4		FC 12
163	5-21	330P 340P	"	8.0	13.4	0.34		4.6		.6	4		"
164	5-28	345P 355P	"	8.0	12.0	0.56		6.7		.6	4		"
165	6-4	220P 230P	"	8.0	11.6	0.45		5.2		.6	4		"
166	6-11	255P 305P	"	8.0	14.4	0.45		6.5		.6	4		"
167	6-18	310P 320P	"	8.0	13.8	0.40		5.5		.6	4		"
168	6-25	300P 310P	"	8.0	13.0	0.54		7.0		.6	4		"
169	7-2	300P 310P	"	8.0	13.0	0.47		6.1		.6	4		"
170	7-9	140P 150P	"	8.0	12.6	0.44		5.6		.6	4		"
171	7-16	220P 230P	"	8.0	12.8	0.45		5.8		.6	4		"
172	7-23	200P 210P	"	8.0	13.2	0.49		6.5		.6	4		"
173	7-30	210P 220P	"	8.0	14.4	0.40		5.8		.6	4		"
174	8-6	135P 140P	Brewster-Haig	8.0	11.6	0.46		5.3		.6	4		FC 12
175	8-13	100P 105P	Haig	9.5	15.4	0.40		6.1		.6	7		FC 33
176	8-20	1232P 1240P	"	9.0	15.6	0.39		6.0		.6	6		"
177	8-27	200P 210P	Brewster	8.0	12.0	0.52		6.2		.6	4		FC 12
178	9-3	210P 220P	"	8.0	11.2	0.48		5.4			4		"
179	9-10	205P 215P	"	8.0	12.0	0.46		5.5		.6	4		"
180	9-17	155P 205P	"	8.0	11.0	0.53		5.8		.6	4		"
181	9-24	146P 155P	"	9.0	12.3	0.52		6.4		.6	4		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. P845

FACTOR "L"

DISCHARGE MEASUREMENTS OF GATE DITCH

at below sluice gate DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
248	10/2	1035A 1045A	Brewster	10.0	8.96	1.29		11.6		.6	6		FC 12
249	10/9	1015A 1025A	Brewster	10.0	8.43	1.13		9.6		.6	6		FC 12
250	10/16	1020A 1030A	Brewster	10.0	13.6	1.08		14.7		.6	6		FC 12
251	10/23	1035A 1045A	Brewster	9.5	5.10	1.10		5.6		.6	6		FC 12
252	10/30	1030A 1040A	Brewster	10.0	5.49	0.98		5.4		.6	6		FC 12
253	11/6	1030A 1040A	Brewster	10.0	6.09	1.03		6.3		.6	6		FC 12
254	11/13	1040A 1050A	Brewster	10.0	6.01	1.03		6.2		.6	6		FC 12
255	11/21	1110A 1120A	Brewster	9.5	5.67	1.01		5.7		.6	6		FC 12
256	11/27	1020A 1030A	Brewster	10.0	6.15	1.02		6.3		.6	6		FC 12
257	12/4	1050A 1100A	Brewster	10.0	6.07	0.94		5.7		.6	6		FC 12
258	12/11	1055A 1100A	Brewster	3.0	0.46	0.59		0.27		.6	3		FC 12
259	12/18	1030A 1040A	Brewster	8.0	3.19	0.82		2.6		.6	5		FC 12
260	12/26	1125A 1135A	Brewster	9.0	3.70	0.78		2.9		.6	5		FC 12
261	1/2	1225P 1235P	Brewster	9.0	3.79	0.71		2.7		.6	5		FC 12
262	1/8	1050A 1100A	Brewster	9.0	3.92	0.71		2.8		.6	5		FC 12
263	1/15	1100A 1110A	Brewster	9.0	3.55	0.79		2.8		.6	5		FC 12
264	1/22	1045A 1055A	Brewster	9.0	3.27	0.80		2.6		.6	5		FC 12
265	1/29	1100A 1110A	Brewster	9.0	3.23	0.71		2.3		.6	5		FC 12
266	2/5	1050A 1100A	Brewster	9.0	2.88	0.83		2.4		.6	5		FC 12
267	2/13	105P 115P	Brewster	9.0	2.77	0.76		2.1		.6	5		FC 12
268	2/19	1045A 1055A	Brewster	10.0	5.80	0.93		5.4		.6	6		FC 12
269	2/26	1050A 1100A	Brewster	9.0	2.88	0.83		2.4		.6	5		FC 12
270	3/5	1020A 1030A	Brewster	9.0	2.73	0.81		2.2		.6	5		FC 12
271	3/12	1025A 1035A	Brewster	9.0	2.92	0.86		2.5		.6	5		FC 12
272	3/19	1050A 1054A	Brewster	2.0	0.24	0.25		0.06		.6	2		FC 12
273	3/26	1100A 1110A	Brewster	8.0	2.48	0.81		2.0		.6	5		FC 12
274	4/2	1100A 1110A	Brewster	8.0	2.59	0.89		2.3		.6	5		FC 12
275	4/9	1054A 1102A	Brewster	8.0	3.14	0.83		2.6		.6	5		FC 12
276	4/16	1110A 1120A	Brewster	8.0	3.14	0.83		2.6		.6	5		FC 12
277	4/23	1040A 1050A	Brewster	8.0	3.23	0.96		3.1		.6	5		FC 12

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F84S

FACTOR "L"

DISCHARGE MEASUREMENTS OF CATE DITCH

AT NEAR below sluice gate DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
278	4/30	1130A 1140A	Brewster	8.0	2.55	0.94		2.4		.6	5		FC 12
279	5/7	1140A 1150A	Brewster	10.0	11.0	1.03		11.3		.6	5		FC 12
280	5/14	1120A 1130A	Brewster	10.0	10.6	1.04		11.0		.6	5		FC 12
281	5/21	1055A 1105A	Brewster	10.0	8.80	1.12		9.9		.6	5		FC 12
282	5/28	1020A 1030A	Brewster	11.0	13.4	0.92		12.3		.6	5		FC 12
283	6/4	1045A 1055A	Brewster	10.0	16.2	0.91		14.8		.6	5		FC 12
284	6/11	1050A 1100A	Brewster	10.0	12.0	1.12		13.5		.6	5		FC 12
285	6/18	1110A 1120A	Brewster	10.0	11.6	1.05		12.2		.6	5		FC 12
286	6/25	1050A 1100A	Brewster	10.0	10.2	1.17		11.9		.6	5		FC 12
287	7/2	1115A 1125A	Brewster	10.0	10.6	1.15		12.2		.6	5		FC 12
288	7/9	950A 1000A	Brewster	10.0	8.00	1.30		10.4		.6	5		FC 12
289	7/16	1010A 1025A	Brewster	9.0	9.80	1.30		12.7		.6	5		FC 12
290	7/23	1000A 1010A	Brewster	10.0	9.20	1.26		11.6		.6	5		FC 12
291	7/30	1010A 1020A	Brewster	10.0	13.4	1.10		14.8		.6	5		FC 12
292	8/6	943A 950A	Brewster-Haig	9.0	11.9	1.16		13.8		.6	5		FC 12
293	8/13	948A 955A	Haig	9.2	13.5	1.26		17.0		.6	7		FC 33
294	8/20	930A 940A	Haig	10.0	13.4	1.30		17.4		.6	8		FC 33
295	8/27	1010A 1020A	Brewster	11.0	12.9	1.05		13.6		.6	5		FC 12
296	9/3	1010A 1020A	Brewster	11.0	13.4	1.10		14.7		.6	5		FC 12
297	9/10	1015A 1025A	Brewster	10.0	12.6	1.14		14.4		.6	5		FC 12
298	9/17	1031A 1042A	Brewster	11.0	13.0	1.17		15.2		.6	5		FC 12
299	9/24	1030A 1040A	Brewster	11.0	12.6	1.12		14.1		.6	5		FC 12

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
272	3/19	1120A 1125A	Brewster	2.0	0.32	0.56		0.18		.6	2		FC 12
273	3/26	1120A 1127A	Brewster	7.0	4.65	0.99		4.6		.6	4		FC 12
274	4/2	1120A 1130A	Brewster	7.0	6.90	1.16		8.0		.6	4		FC 12
275	4/9	1120A 1130A	Brewster	7.0	7.45	0.91		6.8		.6	4		FC 12
276	4/16	1130A 1140A	Brewster	7.0	5.00	0.80		4.0		.6	4		FC 12
277	4/23	1110A 1120A	Brewster	7.0	4.90	0.90		4.4		.6	4		FC 12
278	4/30	1155A 1205P	Brewster	7.0	4.50	0.78		3.5		.6	4		FC 12
279	5/7	1210P 1220P	Brewster	7.0	3.80	0.63		2.4		.6	4		FC 12
280	5/14	1205P 1215P	Brewster	7.0	6.90	0.93		6.4		.6	4		FC 12
281	5/21	1205P 1215P	Brewster	7.0	13.9	1.83		25.5		.6	4		FC 12
282	5/28	1240P 1250P	Brewster	7.0	15.0	1.92		28.8		.6	4		FC 12
283	6/4	1125A 1135A	Brewster	7.0	14.7	1.90		27.9		.6	4		FC 12
284	6/11	1120A 1130A	Brewster	7.0	13.0	1.53		19.9		.6	4		FC 12
285	6/18	1202P 1212P	Brewster	7.0	10.6	1.28		13.6		.6	4		FC 12
286	6/25	1120A 1130A	Brewster	7.0	14.4	1.86		26.8		.6	4		FC 12
287	7/2	1135A 1145A	Brewster	7.0	14.4	1.78		25.6		.6	4		FC 12
288	7/9	1030A 1040A	Brewster	7.0	14.2	1.72		24.4		.6	4		FC 12
289	7/16	1045A 1055A	Brewster	7.0	13.8	1.69		23.3		.6	4		FC 12
290	7/23	1040A 1050A	Brewster	7.0	13.2	1.65		21.8		.6	4		FC 12
291	7/30	1100A 1112A	Brewster	7.0	13.6	1.59		21.6		.6	4		FC 12
292	8/6	1015A 1025A	Brewster-Haig	7.0	21.7	1.57		19.9		.6	4		FC 12
293	8/13	1030A 1040A	Haig	7.0	12.5	1.57		19.8		.6	6		FC 33
294	8/20	1005A 1015A	Haig	7.0	13.5	1.48		20.0		.6	5		FC 33
295	8/27	1105A 1115A	Brewster	7.0	13.4	1.66		22.2		.6	4		FC 12
296	9/3	1055A 1105A	Brewster	7.0	13.6	1.57		21.4		.6	4		FC 12
297	9/10	1100A 1110A	Brewster	7.0	13.4	1.58		21.2		.6	4		FC 12
298	9/17	1102A 1111A	Brewster	7.0	10.4	1.24		12.9		.6	4		FC 12
299	9/24	1050A 1100A	Brewster	7.0	13.2	1.52		20.0		.6	4		FC 12

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F85S

FACTOR "O"

DISCHARGE MEASUREMENTS OF STANDIFER DITCH

AT NEAR below headgate DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
248	10/2	1106A 1118A	Brewster	7.0	13.4	1.34		18.0		.6	4		FC 12
249	10/9	1035A 1045A	Brewster	7.0	13.6	1.49		20.3		.6	4		FC 12
250	10/16	1045A 1055A	Brewster	7.0	13.6	1.50		20.4		.6	4		FC 12
251	10/23	1100A 1105A	Brewster	3.0	0.56	0.43		0.24		.6	3		FC 12
252	10/30	1110A 1120A	Brewster	5.0	3.42	0.32		1.1		.6	5		FC 12
253	11/6	1100A 1110A	Brewster	7.0	6.85	0.60		4.1		.6	4		FC 12
254	11/13	1110A 1120A	Brewster	7.0	7.03	0.68		4.8		.6	4		FC 12
255	11/21	1140A 1150A	Brewster	7.0	6.80	0.59		4.0		.6	4		FC 12
256	11/27	1050A 1100A	Brewster	7.0	8.70	1.06		9.2		.6	4		FC 12
257	12/4	1122A 1130A	Brewster	7.0	9.25	0.99		9.2		.6	4		FC 12
258	12/11	1110A 1115A	Brewster	2.0	0.36	0.89		0.32		.6	3		FC 12
259	12/18	1100A 1106A	Brewster	3.0	0.48	0.83		0.40		.6	3		FC 12
260	12/26	1145A 1151A	Brewster	4.0	1.40	1.36		1.9		.6	4		FC 12
261	1/2	1245P 1253P	Brewster	7.0	3.45	0.67		2.3		.6	4		FC 12
262	1/8	1115A 1125A	Brewster	6.0	3.35	0.48		1.6		.6	4		FC 12
263	1/15	1120A 1126A	Brewster	6.0	2.50	0.48		1.2		.6	4		FC 12
264	1/22	1120A 1130A	Brewster	7.0	2.84	0.46		1.3		.6	4		FC 12
265	1/29	1120A 1130A	Brewster	7.0	3.50	0.51		1.8		.6	4		FC 12
266	2/5	1115A 1122A	Brewster	7.0	3.33	0.60		2.0		.6	4		FC 12
267	2/13	125P 135P	Brewster	8.0	5.60	1.04		5.8		.6	4		FC 12
268	2/19	1115A 1125A	Brewster	7.0	7.00	0.96		6.7		.6	4		FC 12
269	2/26	1120A 1130A	Brewster	7.0	7.45	1.03		7.7		.6	4		FC 12
270	3/5	1055A 1100A	Brewster	3.0	0.46	0.63		0.29		.6	3		FC 12
271	3/12	1055A 1105A	Brewster	7.0	7.75	1.26		9.8		.6	4		FC 12

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. P86S

FACTOR "P"

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT NEAR below Standifer Ditch DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
247	10/2	1142A 1157A	Brewster	38.0	35.5	1.25		44.2		.6	7		FC 12
248	10/9	1050A 1105A	Brewster	38.0	32.9	1.32		43.5		.6	6		FC 12
249	10/16	1105A 1120A	Brewster	42.0	29.5	1.21		35.6		.6	8		FC 12
250	10/23	1120A 1140A	Brewster	Two channels				81.4		.6	11		FC 12
251	10/30	1155A 1215P	Brewster	Two channels				82.6		.6	13		FC 12
252	11/6	1120A 1140A	Brewster	Two channels				77.3		.6	11		FC 12
253	11/13	1130A 1150A	Brewster	Two channels				78.7		.6	10		FC 12
254	11/21	1205P 1235P	Brewster	Two channels				80.0		.6	15		FC 12
255	11/27	1110A 1130A	Brewster	Two channels				74.5		.6	14		FC 12
256	12/4	1136A 1158A	Brewster	Two channels				75.8		.6	13		FC 12
257	12/11	1120A 1140A	Brewster	Two channels				99.5		.6	11		FC 12
258	12/18	1120A 1140A	Brewster	Two channels				88.4		.6	11		FC 12
259	12/26	1202P 1224P	Brewster	Two channels				91.3		.6	11		FC 12
260	1/2	100P 120P	Brewster	Two channels				91.3		.6	11		FC 12
261	1/8	1130A 1154A	Brewster	Two channels				92.1		.6	11		FC 12
262	1/15	1135A 1155A	Brewster	Two channels				93.3		.6	10		FC 12
263	1/22	1135A 1155A	Brewster	Two channels				93.2		.6	11		FC 12
264	1/29	1130A 1150A	Brewster	Two channels				94.7		.6	10		FC 12
265	2/5	1137A 1158A	Brewster	Two channels				93.6		.6	11		FC 12
266	2/13	140P 200P	Brewster	Two channels				89.6		.6	10		FC 12
267	2/19	1140A 1158A	Brewster	48.0	47.8	1.77		84.7		.6	7		FC 12
268	2/26	1135A 1153A	Brewster	48.0	49.7	1.74		86.6		.6	7		FC 12
269	3/5	1105A 1120A	Brewster	54.0	50.0	1.81		90.4		.6	7		FC 12
270	3/12	1110A 1125A	Brewster	40.0	42.4	1.88		79.7		.6	6		FC 12

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F86S

FACTOR "P"

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT below Standifer Ditch DURING THE YEAR ENDING SEPTEMBER 30, 1942

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
271	3/19	1130A 1150A	Brewster	48.0	55.2	1.66		91.9		.6	7		FC 12
272	3/26	1131A 1153A	Brewster	52.0	48.1	1.71		82.4		.6	8		FC 12
273	4/2	1135A 1150A	Brewster	51.0	47.7	1.60		76.2		.6	8		FC 12
274	4/9	1140A 1158A	Brewster	45.0	41.6	1.75		72.8		.6	8		FC 12
275	4/16	1150A 1210P	Brewster	39.0	48.0	1.75		83.9		.6	8		FC 12
276	4/23	1130A 1150A	Brewster	38.0	46.8	1.73		81.0		.6	7		FC 12
277	4/30	1210P 1225P	Brewster	50.0	50.3	1.59		80.2		.6	7		FC 12
278	5/7	1225P 1245P	Brewster	35.0	51.1	1.21		62.0		.6	7		FC 12
279	5/14	1225P 1243P	Brewster	26.0	41.3	1.39		57.4		.6	7		FC 12
280	5/21	1222P 1240P	Brewster	32.0	39.8	0.94		37.6		.6	7		FC 12
281	5/28	1220P 1235P	Brewster	25.0	28.9	0.98		28.4		.6	6		FC 12
282	6/4	1140A 1158A	Brewster	28.0	30.2	0.91		27.4		.6	6		FC 12
283	6/11	1140A 1155A	Brewster	32.0	35.1	0.93		32.8		.6	6		FC 12
284	6/18	1220P 1238P	Brewster	24.0	31.5	1.27		40.0		.6	6		FC 12
285	6/25	1146A 1158A	Brewster	29.0	29.0	0.88		25.6		.6	6		FC 12
286	7/2	1150A 1205P	Brewster	29.0	29.1	0.84		24.4		.6	6		FC 12
287	7/9	1050A 1105A	Brewster	30.0	26.0	0.98		25.6		.6	7		FC 12
288	7/16	1100A 1115A	Brewster	26.0	24.4	0.89		21.7		.6	6		FC 12
289	7/23	1100A 1115A	Brewster	27.0	21.9	0.97		21.2		.6	7		FC 12
290	7/30	1130A 1150A	Brewster	23.0	19.5	1.03		20.1		.6	6		FC 12
291	8/6	1030A 1045A	Brewster-Haig	28.0	19.9	1.01		20.1		.6	6		FC 12
292	8/13	1043A 1055A	Haig	23.0	21.9	0.87		19.1		.6	9		FC 33
293	8/20	1020A 1030A	Haig	25.5	23.9	0.87		20.8		.6	10		FC 33
294	8/27	1125A 1140A	Brewster	27.0	26.6	0.80		21.2		.6	6		FC 12
295	9/3	1115A 1130A	Brewster	28.0	23.2	0.94		21.7		.6	7		FC 12
296	9/10	1125A 1140A	Brewster	28.0	22.7	0.94		21.4		.6	6		FC 12
297	9/17	1117A 1132A	Brewster	26.0	25.5	1.11		28.4		.6	6		FC 12
298	9/24	1110A 1125A	Brewster	22.0	22.6	0.96		21.6		.6	5		FC 12

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

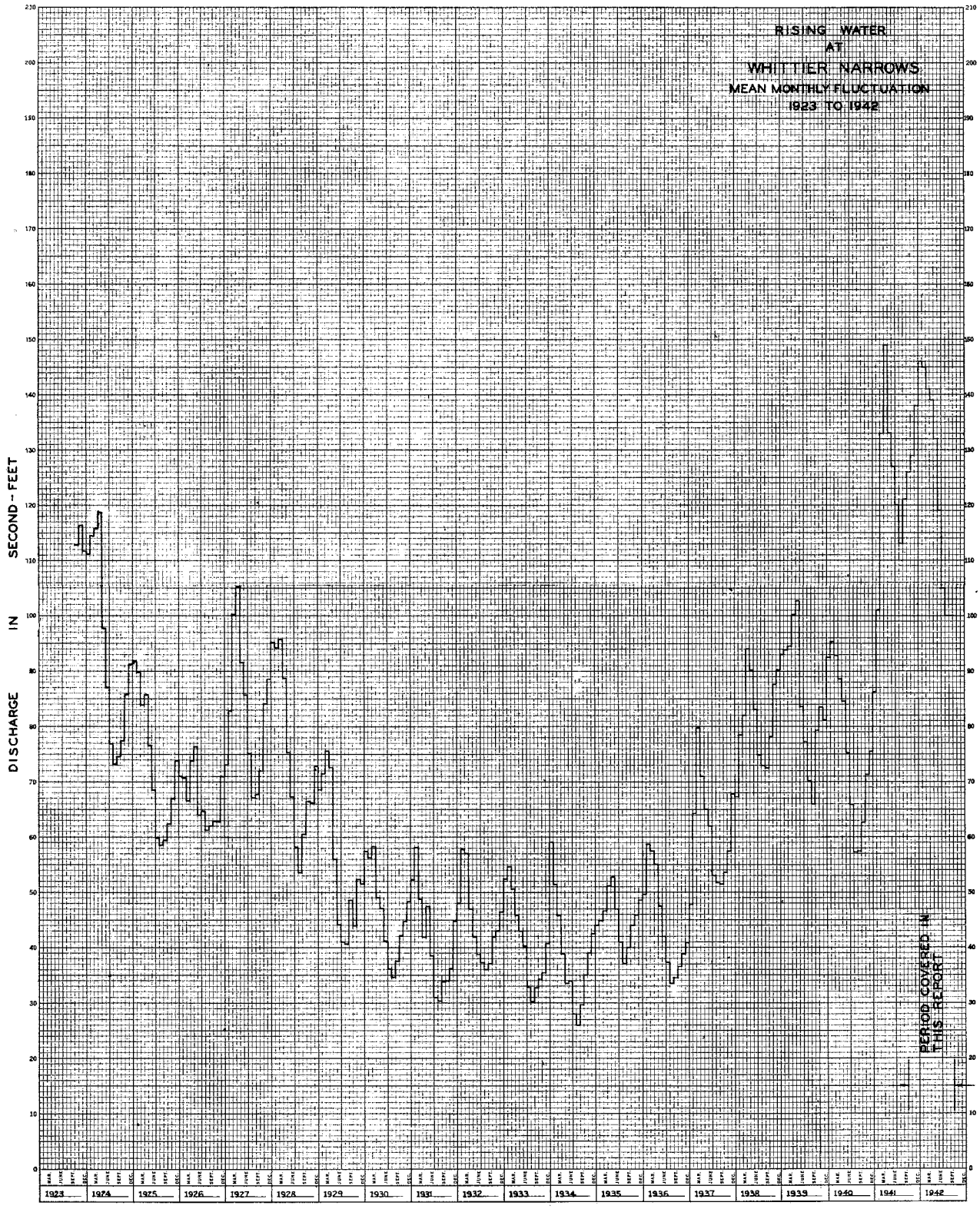
Sta. No. _____

Daily discharge, in second-feet of RISING WATER at Whittier Narrows for the year ending September 30, 19 42

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	123	128	131	147	145	143	137	141	125	113	100	102
2	123	128	132	147	146	143	136	141	124	112	99	102
3	123	127	133	147	146	142	136	140	124	112	99	102
4	123	127	134	147	146	141	136	139	124	111	98	102
5	123	126	134	146	146	141	136	138	124	111	97	102
6	123	126	134	146	146	141	136	138	123	110	97	102
7	123	126	134	146	146	141	137	137	123	110	97	101
8	123	127	134	146	146	141	137	137	122	109	98	101
9	123	127	134	146	146	141	137	136	122	108	98	100
10	123	128	134	146	145	141	137	136	121	108	99	100
11	123	128	135	146	145	141	137	135	121	107	99	100
12	123	129	135	146	145	141	138	135	121	107	100	100
13	122	130	135	146	145	141	138	134	120	106	100	100
14	122	130	135	146	145	141	139	134	120	105	100	100
15	122	130	135	146	145	141	139	134	119	104	100	99
16	122	130	135	146	145	142	140	133	119	104	100	99
17	123	130	135	146	144	142	140	132	118	104	101	99
18	125	129	135	146	144	142	140	131	118	103	101	99
19	127	129	136	147	144	142	140	130	118	103	101	99
20	129	129	138	147	144	142	141	129	118	102	101	99
21	131	129	139	148	144	142	141	129	117	101	101	100
22	133	129	141	148	144	142	142	129	117	100	101	100
23	134	129	142	147	145	141	142	128	117	99	101	100
24	133	129	143	147	145	141	142	128	116	99	102	100
25	132	129	144	146	145	141	142	127	116	99	102	100
26	131	129	145	146	145	141	142	127	116	99	102	100
27	130	129	145	145	144	140	141	126	115	100	102	100
28	129	129	145	145	144	140	141	126	115	100	102	100
29	129	130	145	145		139	141	126	114	100	102	100
30	129	130	146	145		139	141	126	114	100	102	100
31	129		146	145		138		125			102	
	3908	3856	4269	4533	4060	4374	4172	4107	3581	3146	3104	3008
MEAN	126	129	138	146	145	141	139	132	119	105	100	100
ACRE-FEET	7750	7650	8470	8990	8050	8680	8280	8150	7100	6240	6160	5970

Remarks:

YEAR OR PERIOD MEAN 126
ACRE FEET 91490


RISING WATER
AT
WHITTIER NARROWS
MEAN MONTHLY FLUCTUATION
1923 TO 1942
DISCHARGE IN SECOND-FEET
PERIOD COVERED IN THIS REPORT
1923
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942

MISCELLANEOUS STATIONS

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

DISCHARGE MEASUREMENTS OF BALLONA CREEK DRAINAGE AREA

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			BALLONA CREEK, at Jackson Avenue									
41	10-2	845A 851A	Moon	10.0	8.90	1.04		9.3	.6	5		FC 22
42	10-8	220P 227P	"	11.5	10.9	1.24		13.4	.6	7		"
43	10-16	848A 858A	"	13.0	13.3	1.29		17.2	.6	8		"
44	5-28	831A 840A	"	14.5	10.4	0.54		5.6	.6	8		"
45	6-4	840A 849A	"	14.5	10.6	0.59		6.3	.6	8		"
46	6-11	900A 910A	"	15.0	11.4	0.58		6.6	.6	8		"
47	6-18	830A 838A	"	15.0	11.5	0.63		7.2	.6	8		"
48	6-25	832A 840A	"	15.0	13.1	0.50		6.5	.6	8		"
49	7-2	840A 848A	"	15.0	13.5	0.57		7.7	.6	8		"
50	7-9	853A 905A	"	14.5	12.7	0.60		7.6	.6	8		"
51	7-16	820A 830A	"	17.5	16.6	0.63		10.5	.6	8		"
52	7-23	830A 838A	"	15.5	10.6	0.61		6.5	.6	7		"
53	7-30	820A 828A	"	15.0	10.1	0.57		6.8	.6	7		"
54	8-5	925A 934A	Bonadiman	14.0	10.2	0.59		6.0	.6	6		FC 19
55	8-12	930A 940A	"	19.0	14.9	0.68		10.2	.6	7		"
56	8-20	840A 848A	Moon	15.0	10.2	0.58		5.9	.6	7		FC 22
57	8-26	840A 848A	"	16.0	10.8	0.62		6.7	.6	7		"
58	9-2	840A 848A	"	14.0	8.40	0.67		5.6	.6	7		"
59	9-10	840A 848A	"	14.0	8.15	0.72		5.9	.6	7		"
60	9-24	950A 957A	"	11.5	8.40	0.68		5.8	.6	6		"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER DRAINAGE AREA

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			BIG TUJUNGA CREEK. Inflow to Dam No. 1 Reservoir									
130	10-9	200P 215P	Turner	10.5	6.28	1.40		8.8	.6	10		FC 5
131	10-16	200P 210P	"	12.0	6.11	1.23		7.5	.6	8		"
132	11-6	1125A 1135A	"	15.5	5.57	1.87		10.4	.6	9		"
133	11-13	1030A 1045A	"	15.0	6.26	1.79		11.2	.6	8		"
134	11-19	1140A 1150A	"	11.0	5.45	1.98		10.8	.6	10		"
135	11-27	115P 130P	"	Two Channels				10.3	.6	11		"
136	12-4	120P 135P	"	15.5	7.52	1.94		14.6	.6	9		"
137	12-18	855A 910A	"	16.0	7.44	1.96		14.6	.6	8		"
138	2-5	1105A 1120A	"	8.5	4.79	2.98		14.3	.6	8		"
139	2-11	140P 150P	"	13.0	7.71	1.66		12.8	.6	7		"
140	2-19	140P 155P	"	9.0	6.50	1.85		12.0	.6	9		"
141	2-26	935A 950A	"	15.0	7.22	2.37		17.1	.6	8		"
142	3-5	145P 200P	"	14.0	7.25	1.83		13.3	.6	10		"
143	3-11	1205P 1220P	"	18.0	10.2	1.62		16.5	.6	10		"
144	3-19	300P 310P	Turner-Robertson	14.5	9.50	1.80		17.1	.6	9		"
145	3-26	1250P 105P	Turner	14.0	7.61	1.58		12.0	.6	8		"
146	4-2	155P 210P	"	12.7	8.57	1.36		11.7	.6	10		"
147	4-9	155P 210P	Turner-Delbos	13.0	8.78	1.40		12.2	.6	9		"
			BIG TUJUNGA CREEK. Inflow to Dam No. 1 Reservoir									
148	4-16	130P 145P	Turner	17.0	10.0	1.63		16.3	.6	9		FC 5
149	4-22	1155A 1210P	"	14.6	11.4	1.26		14.4	.6	10		"
150	4-30	200P 215P	Turner-Robertson	16.0	9.60	1.32		12.7	.6	8		FC 5
151	5-7	135P 150P	Turner	14.0	10.5	1.00		10.5	.6	11		FC 5
152	5-14	115P 130P	"	12.7	8.14	1.19		9.7	.6	13		"
153	5-21	130P 145P	"	13.0	7.71	0.93		7.2	.6	14		"
154	5-27	200P 220P	"	12.5	7.16	0.89		6.4	.6	13		"
155	6-4	210P 220P	Blakely	13.0	6.83	0.92		6.3	.6	8		FC 44
156	6-11	128P 140P	"	16.0	7.20	0.72		5.2	.6	9		"
157	7-2	245P 255P	Turner	7.0	2.64	0.72		1.9	.6	8		FC 5
158	7-9	1125A 1135A	"	6.0	2.12	0.66		1.4	.6	7		"
159	7-16	200P 210P	"	6.3	2.02	0.64		1.3	.6	7		"
160	7-23	225P 235P	"	3.7	1.82	0.66		1.2	.6	5		"
161	7-30	1100A 1105A	"	3.8	1.86	0.65		1.2	.6	5		"
162	8-20	150P 200P	"	5.5	1.31	0.92		1.2	.6	6		"
163	8-27	115P 125P	"	7.5	1.69	0.48		0.81	.6	8		"
164	9-3	1210P 1220P	"	5.5	2.10	0.67		1.4	.6	6		"
165	9-10	115P 125P	"	7.0	1.47	0.95		1.4	.6	7		"
166	9-17	1220P 1230P	"	4.0	1.35	1.04		1.4	.6	5		"
			BRAND CANYON above inlet to Brand Debris Basin									
1	5-8	450P	Bollinger					0.4	By weir			
2	5-11	315P	"					0.4	" "			
3	5-14	605P	"					0.4	" "			
4	5-18	1037A	"					0.4	" "			
5	5-21	420P	"					0.2	" "			
6	5-25	1017A	"					0.2	" "			
			LOS ANGELES RIVER - LAWD Main Spreading Canal									
102	10-2	1035A 1043A	Bollinger	Two Channels				33.8	.6	12		FC 6
103	5-7	150P 212P	"	" "				40.2	.6	12		"
104	5-14	1215P 1231P	"	" "				46.8	.6	12		"
105	6-4	130P 150P	"	24.0	50.8	1.04		52.7	.6	15		"
106	6-11	143P 200P	"	Two Channels				50.2	.2 .8	12		"
107	6-18	108P 124P	"	" "				47.8	.2 .8	12		"
108	6-25	135P 147P	"	" "				40.0	.6	12		"
109	7-2	200P 225P	"	" "				47.9	.2 .8	12		"
110	7-9	1232P 1253P	"	" "				20.8	.6	12		"
111	7-16	220P 245P	"	" "				47.2	.2 .8	12		"
112	7-23	1140A 1200N	Luce	" "				53.5	.6	12		FC 39
113	7-30	942A 1005A	"	" "				45.6	.6	12		"
114	8-6	115P 143P	Bollinger	" "				46.2	.2 .8	12		FC 6
115	8-13	135P 155P	"	" "				43.5	.2 .8	10		"
116	8-20	115P 135P	"	" "				43.2	.2 .8	10		"
117	8-27	120P 140P	"	" "				47.4	.2 .8	10		"
118	9-3	145P 215P	"	" "				42.2	.2 .8	10		"
119	9-10	1230P 1250P	"	" "				45.1	.2 .8	10		"
120	9-17	132P 148P	Bollinger-Odekirk	" "				41.7	.2 .8	12		"
121	9-24	1030A 1048A	Bollinger-Van der Goot	" "				47.1	.2 .8	10		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER DRAINAGE AREA

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			ARROYO SECO below Millard Creek										
16	12-4	850A 855A	Haig	3.6	0.77	0.57		0.44		.6	5		FC 33
17	12-11	920A 928A	"	11.5	8.52	2.09		17.8		.6	8		"
18	3-15	140P 146P	"	7.0	1.95	1.49		2.9		.6	6		"
			ARROYO SECO below Devils Gate Dam										
102	12-9	1047A 1056A	Haig	12.0	8.40	2.73		22.9		.6	10		FC 33
103	12-9	1230P 1242P	"	12.0	4.41	3.19		14.1		.6	9		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

DISCHARGE MEASUREMENTS OF RIO HONDO DRAINAGE AREA

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			RIO HONDO near Arrow Highway										
31	4-20	325P 335P	Haig-Laverty	22.5	19.0	3.88		73.6		.6	10		FC 33
32	4-20	945P 1000P	Haig-Ingram	63.0	72.2	3.98		287.		.6	9		"
33	4-22	1040A 1055A	Haig	60.0	68.4	4.12		282.		.6	11		"
34	4-23	1120A 1135A	"	64.0	72.8	4.19		305.		.6	12		"
35	4-24	1025A 1040A	"	60.0	72.2	4.16		300.		.6	13		"
36	4-25	754A 806A	"	58.0	66.2	3.70		245.		.6	10		"
			RIO HONDO below Graham Bros. Rock Co. Pit										
1	4-22	1135A 1150A	Haig	67.0	80.5	3.29		265.		.6	11		FC 33
			RIO HONDO below Consolidated Rock Co. Pits										
1	4-22	1215P 1233P	Haig	Two Channels				204.		.6	18		FC 33
2	4-23	135P	"	Three Channels				218.		.6	19		"
3	4-24	1150A 1220P	"	"	"			207.		.6	20		"
4	4-25	820A 840A	"	"	"			204.		.6	18		"
			RIO HONDO near Foster Bridge Road										
1	3-19	410P 417P	Bonadiman	7.0	1.90	0.90		1.8		.6	4		FC 19
2	3-26	942A 944A	"	5.0	0.80	0.24		0.19		.6	3		"
3	4-9	940A	Bonadiman					0					
4	4-16	1020A 1028A	"			1.11		6.9		.6	5		FC 19
5	4-23	945A	"	16.0	6.2			0					
6	4-25	1212P 1238P	Ingram	66.5	32.8	1.48		48.4		.6	17		FC 2
7	4-26	327P 338P	Ingram-Turner	29.0	9.67	0.93		9.0		.6	10		"
8	4-28	312P 338P	Ingram	39.0	14.0	1.12		15.7		.6	12		"

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			SANTA ANITA CREEK, Outflow from F.C. Dam										
115	10-2	925A 935A	Haig	11.0	3.45	1.56		4.8		.6	9		FC 33
116	10-9	1125A 1137A	"	10.5	3.49	1.49		5.2		.6	7		"
117	10-16	135P 146P	"	11.2	3.73	1.32		4.9		.6	9		"
118	10-23	1112A 1120A	Haig-Mellen	11.5	3.75	1.46		5.5		.6	9		"
119	10-30	234P 230P	Haig-Middleton	11.2	3.53	1.44		5.1		.6	8		"
120	11-6	1100A 1110A	Haig	11.0	2.93	1.06		3.1		.6	8		"
121	11-13	1207P 1220P	Middleton	9.0	2.46	1.38		3.4		.6	10		FC 36
122	11-19	930A 940A	Haig	11.0	3.13	1.18		3.7		.6	7		FC 33
123	11-27	430P 438P	"	10.4	2.32	0.99		2.3		.6	6		"
124	12-4	1055A 1103A	"	10.5	3.63	1.44		5.2		.6	7		"
125	12-27	250P 300P	"	10.8	4.65	1.92		8.9		.6	8		"
126	1-15	1142A 1150A	"	8.3	2.35	1.32		3.1		.6	8		"
127	1-22	1125A 1136A	"	9.5	2.55	1.14		2.9		.6	7		"
128	1-29	347P 356P	"	9.0	2.43	1.28		3.1		.6	7		"
129	2-5	1110A 1116A	"	8.7	2.35	1.28		3.0		.6	7		"
130	2-11	410P 418P	Haig	8.5	2.50	1.28		3.2		.6	8		FC 33
131	2-18	1000A 1008A	"	8.0	2.20	1.17		2.6		.6	8		"
132	2-26	410P 420P	"	8.3	2.43	1.36		3.3		.6	8		"
133	3-5	1250P 1258P	"	7.5	1.92	1.04		2.0		.6	8		"
134	3-19	1128A 1136A	"	6.5	1.75	1.09		1.9		.6	6		"
135	3-26	240P 250P	"	6.8	1.89	1.00		1.8		.6	6		"
136	4-2	218P 225P	"	6.5	1.67	1.02		1.7		.6	7		"
137	4-9	1048A 1054A	"	3.6	0.71	0.35		0.25		.6	5		"
138	4-16	958A 1002A	"	3.3	0.53	0.47		0.25		.6	6		"
139	4-30	1005A 1010A	"	3.3	0.69	0.44		0.30		.6	5		"
140	5-7	250P 300P	Cole	6.5	2.60	0.73		1.9		.6	6		FC 24
141	5-14	226P 235P	"	6.5	2.89	0.69		2.0		.6	7		"
142	5-21	1227P 1237P	"	6.5	2.60	0.73		1.9		.6	7		"
143	5-28	1034A 1044A	Haig	6.6	1.99	1.20		2.4		.6	7		FC 33
144	6-4	1030A 1040A	"	6.4	1.91	1.04		2.0		.6	8		"
145	6-11	1035A 1044A	"	6.9	1.90	1.05		2.0		.6	7		"
146	6-18	1008A 1017A	"	6.8	1.87	1.12		2.1		.6	7		"
147	6-25	300P 305P	"	6.8	1.85	1.08		2.0		.6	8		"
148	7-2	1130A 1140A	"	6.7	1.93	1.09		2.1		.6	8		"
149	7-8	100P 110P	Haig-Brewster	6.7	1.96	1.12		2.2		.6	7		"
150	7-15	1205P 1215P	Brewster	7.0	2.05	1.07		2.2		.6	7		FC 12
151	7-22	148P 200P	"	7.0	1.97	1.07		2.1		.6	7		"
152	7-29	1035A 1045A	Haig	6.1	1.73	1.15		2.0		.6	8		FC 33
153	8-5	1055A 1102A	"	6.0	1.77	1.19		2.1		.6	7		"
154	8-12	944A 952A	Haig	6.0	1.76	1.14		2.0		.6	7		FC 33
155	8-19	220P 232P	"	6.1	1.71	1.22		2.1		.6	6		"
156	8-27	1030A 1040A	"	8.8	3.82	1.68		6.4		.6	10		"
157	9-3	1045A 1100A	"	8.6	2.19	1.10		2.4		.6	8		"
158	9-10	305P 315P	"	8.6	2.03	1.08		2.2		.6	8		"
159	9-17	1105A 1115A	"	9.0	2.17	1.05		2.3		.6	9		"
160	9-24	1127A 1135A	"	7.0	1.00	0.53		0.53		.6	6		"
161	9-24	545P 556P	"	8.6	2.05	1.17		2.4		.6	8		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

DISCHARGE MEASUREMENTS OF RIO HONDO DRAINAGE AREA

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			OAKWOOD SYNDICATE DIVERSION near Mouth of Santa Anita Canyon										
21	7-8	1245P 1251P	Haig-Brewster	2.5	2.73	0.55		1.5		.6	3		FC 33
22	8-27	1000A 1015A	Haig	2.9	3.30	0.79		2.6		.6	5		"
23	9-17	1040A 1043A	"	1.0	0.26	0.62		0.16		.6	3		"
			SANTA ANITA CREEK above Clamshell Canyon										
84	12-11	1130A 1142A	Haig	10.8	3.98	1.51		6.0		.6	8		FC 33
85	12-18	1015A 1027A	"	9.8	3.29	1.52		5.0		.6	8		"
86	12-26	1134A 1145A	"	10.1	3.88	1.65		6.4		.6	8		"
87	12-26	1250P 100P	"	10.8	4.70	1.92		9.0		.6	8		"
88	12-27	350P 358P	"	9.2	5.61	1.74		9.8		.6	8		"
89	12-29	320P 335P	Green	14.0	9.16	2.96		27.1		.6	8		FC 30
90	12-29	500P 510P	"	15.0	9.47	2.24		21.2		.6	10		"
91	12-31	1227P 1240P	Haig	11.5	8.10	2.87		23.1		.6	10		FC 33
92	1-8	420P 427P	"	10.0	4.15	1.21		5.0		.6	9		"
93	3-12	338P 343P	"	7.6	2.21	0.91		2.0		.6	8		"
94	5-7	307P 314P	Cole	2.1	0.24	0.62		0.15		.6	4		FC 24
95	5-14	250P 253P	"	1.8	0.15	0.67		0.10		.6	4		"
96	5-21	1245P 1250P	"	1.8	0.17	0.59		0.10		.6	4		"
97	7-2	1153A 1158A	Haig	4.5	0.60	0.67		0.40		.6	5		FC 33
			SOTOW DRAIN at Potrero Avenue										
1	11-12	832A 850A	Ingram	4.2	4.16	0.50		2.1		.6	7		FC 2
2	3-17	315P 330P	"	3.6	2.54	1.52		3.84		.6	8		"
3	3-30	1202P 1214P	Ingram van der Goot	3.5	2.51	1.18		3.0		.6	6		"
4	4-7	235P 250P	Ingram	3.8	3.23	1.03		3.3		.6	8		"
5	4-30	1005A 1015A	"	3.7	2.61	0.92		2.4		.6	7		"
			RIO HONDO near Foster Bridge Road										
1	3-19	410P 417P	Bonadiman	7.0	1.95	0.90		1.8		.6	4		FC 19
2	3-26	942A 944A	"	5.0	0.80	0.24		0.19		.6	3		"
3	4-9	490A	"					0					
4	4-16	1020A 1028A	"	16.0	6.2	1.11		6.9		.6	5		"
5	4-23	945A	"					0					
6	4-25	1212A 1238P	Ingram	66.5	32.8	1.48		48.4		.6	17		FC 2
7	4-26	327P 338P	Ingram-Turner	29.0	9.67	0.93		9.0		.6	10		"
8	4-28	312P 338P	Ingram	39.0	14.0	1.12		15.7		.6	12		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

DISCHARGE MEASUREMENTS OF SAN GABRIEL DRAINAGE AREA

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			SAN GABRIEL RIVER below Azusa-Duarte Tunnel Diversion										
20	4-20	934A 956A	Haig-Ingram	47.0	116.	1.21		140.		.6	14		FC 33
21	4-20	1205P 1225P	"	47.0	123.	1.33		163.		.6	12		"
22	4-20	600P 618P	"	52.0	167.	2.16		362.		.6	12		"
			SAN GABRIEL RIVER below Rogers Canyon										
2	4-22	733A 753A	Haig-Ingram	51.0	158.	2.13		337.		.6	11		FC 33
3	4-23	822A 918A	"	51.0	160.	2.24		358.		.2 .8	11		"
4	4-23	822A 918A	"	51.0	160.	2.26		361.		.6	11		"
5	4-25	637A 655A	"	51.0	157.	2.27		357.		.6	11		"
			FISH CREEK above Junction with San Gabriel River										
36	12-18	1140A 1145A	Haig	3.5	0.76	0.86		0.65		.6	5		FC 33
37	12-26	205P 213P	"	8.0	2.62	0.57		1.5		.6	7		"
38	4-20	232P 240P	"	6.2	1.62	0.68		1.1		.6	6		"
39	4-25	100P 103P	"	6.0	1.27	0.61		0.77		.6	5		"
			SAN DIMAS CREEK below San Dimas Dam (Outflow)										
39	10-17	340P 355P	Green	11.0	10.5	0.59		6.2		.6	11		FC 30
40	11-14	325P 340P	"	11.6	7.38	0.26		1.9		.6	10		"
41	11-21	302P 318P	Green	10.0	7.85	0.71		5.6		.6	10		FC 30
42	12-12	1123A 1145A	"	14.0	16.5	1.39		22.9		.6	15		"
43	12-26	200P 215P	"	13.7	14.3	1.25		17.9		.6	14		"
44	2-20	345P 350P	"	5.5	2.44	1.11		2.7		.6	6		"
45	3-6	440P 445P	"	2.0	0.69	0.72		0.50		.6	4		"
46	5-8	500P 505P	"	4.6	2.35	1.32		3.1		.6	6		"
47	7-17	415P 425P	"	2.7	1.06	1.23		1.3		.6	6		"
			SAN DIMAS WASH, 30 ft below Parshall Flume and Puddingstone Div. Dam										
1	12-14	1245P 100P	Green	7.5	3.94	1.68		6.6		.6	9		FC 30
2	12-14	235P 243P	"	7.5	3.32	1.56		5.2		.6	9		"
3	1-16	145P 150P	"	7.5	4.54	1.01		4.6		.6	8		"
4	2-13	505P 515P	"	7.6	5.32	0.96		5.1		.6	6		"
			SAN GABRIEL RIVER below Firestone Boulevard										
1	11-12	257P 308P	Bonadiman	12.0	7.10	1.23		8.7		.6	7		FC 19
2	11-13	432P 443P	"	12.0	7.21	0.93		6.7		.6	6		"
3	11-19	345P 355P	"	8.0	6.12	1.11		6.8		.6	6		"

PERCOLATION MEASUREMENTS

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. _____

Percolation ~~DISCHARGE~~ MEASUREMENTS OF SANTA CLARA RIVER

~~AT NEAR~~ miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1942

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			1500' below M.W.D. Pipeline										
1	3-27	915A 925A	Luce	27.4	28.4	3.33		94.7		.6	13		FC 39
			At Bouquet Canyon Bridge										
2	3-27	940A 955A	Luce	24.5	26.6	3.48		92.5		.6	11		FC 39
			At Highway # 99										
3	3-27	1015A 1030A	Luce	Two Channels			6.25	104.		.6	18		FC 39

PERCOLATION MEASUREMENTS

SET NO. _____

SANTA CLARA RIVER — March 27, 1942

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec.Ft.	Loss in Sec.Ft. per Ac. Wetted Area	Remarks
920A	Santa Clara Channel 1500' below Aqueduct			1	94.7						Release from L.A. City Aqueduct
948A	Boquet Canyon Rd.			2	92.5				2.2		In Rising Water Area
1023A	Highway # 99			3	104.				+11.5		

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. _____

Percolation ~~DISCHARGE~~ MEASUREMENTS OF PACOIMA CREEK

~~AT NEAR~~ miscellaneous points below F.C. Dam DURING THE YEAR ENDING SEPTEMBER 30, 1942

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			1500' below F.C. Dam										
1	6-25	1110A 1125A	Luce	23.3	16.2	2.73		44.3		.6	13		FC 39
			At McClay Avenue										
2	6-25	1245P 1255P	Luce	22.6	17.6	1.64		28.9		.6	10		FC 39
			250' above Foothill Boulevard										
3	6-25	145P	Luce	20.0	15.9	1.65		26.2		.6	10		FC 39

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			At San Fernando Road										
4	6-25	220P 235P	Luce	21.0	13.6	2.02		27.6		.6	11		FC 39
			Above Headworks at Arleta Street										
5	6-25	245P 300P	Luce	21.0	13.9	1.71		23.8		.6	11		FC 39
			At Arleta Street Spillway										
6	6-25	410P 415P	Luce	6.5	2.83	1.27		3.6		.6	6		FC 39

PERCOLATION MEASUREMENTS

SET NO. _____

PACOIMA WASH — June 25, 1942

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec.Ft.	Loss in Sec.Ft. per Ac. Wetted Area	Remarks
1118A	1st crossing 1500' below dam			1	44.3						Dam Release
1250P	McClay Ave.			2	28.9				15.4		
138P	Foothill Blvd.			3	26.2				2.7		
228P	San Fernando Rd.			4	27.6						Poor Section
138P	Above Headworks			5	23.8				3.8		
	Below Headworks			6	3.6				20.2		Into Spreading Grounds

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. _____

Percolation MEASUREMENTS OF BIG TUJUNGA CREEK

AT miscellaneous points above F.C. Reservoir DURING THE YEAR ENDING SEPTEMBER 30, 1942

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	C. HT. CHANGE TOTAL	METER NO.
			At Edison Road F111B-R										
1	6-18	1150A	Luce	11.0	3.18	1.07	5.59	3.4		.6	7		FC 39
			Side Stream ¼ mile below F111B-R										
2	6-18	1240P 1245P	Luce	1.7	0.18	0.94		0.17		.6	3		FC 39
			Side Stream ¼ mile below F111B-R										
3	6-18	100P 105P	Luce	1.0	0.06	0.33		0.02		.6	2		FC 39
			Side Stream ¾ mile below F111B-R										
4	6-18	125P	Luce					0.02		E			
			50' above Fox Creek										
5	6-18	255P 305P	Luce	8.8	3.90	1.00		3.90		.6	7		FC 39
			Fox Creek 1/3 mile above Outlet										
6	6-18	235P 240P	Luce	6.0	1.10	0.71		0.78		.6	6		FC 39
			200' above Reservoir										
7	6-18	200P 215P	Luce	8.5	4.62	0.84		3.90		.6	7		FC 39

PERCOLATION MEASUREMENTS

SET NO. _____

BIG TUJUNGA CREEK

June 18 1942

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec.Ft.	Loss in Sec.Ft. per Ac. Wetted Area	Remarks
1145A	Big Tujunga Creek at Edison Rd.			1	3.42						
1240P	Tributary right ± ¼ mi. below 111B			2	0.17						
100P	Tributary left ± ¼ mi. below 111B			3	0.02						
125P	Tributary left ± ¾ mi. below 111B			4	E.0.02						
	Total				3.63						
255P	Big Tujunga Creek 50' above Fox Ck			5	3.90				+ 0.27		
235P	Fox Creek 1/3 mi. above Big Tujunga			6	0.78						
	Total				4.68						
200P	Big Tujunga Creek 200' above resv'r			7	3.89				- 0.79		

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. _____

Percolation
~~DISCHARGE~~ MEASUREMENTS OF LOS ANGELES RIVER

~~AT~~ below Firestone Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. NO.	G. HT. CHANGE TOTAL	METER NO.
			At Firestone Boulevard										
1	6-3	833A 846A	Bonadiman-Moon	38.0	45.1	1.83	3.76	82.5		.6	12	0	FC 19
			Rio Hondo 100' above River										
2	6-3	906A 910A	Bonadiman-Moon	11.0	3.70	0.54		2.0		.6	4		FC 19
			At Century Boulevard										
3	6-3	939A 957A	Bonadiman-Moon	128.0	75.5	1.26		95.3		.6	17		FC 19
			At Olive Street										
4	6-3	1033A 1100A	Bonadiman-Moon	Two Channels				92.7		.6	23		FC 19
			At Long Beach Boulevard										
5	6-3	1151A 1209P	Bonadiman-Moon	Three Channels				85.2		.6	19		FC 19
			Compton Creek 100' above River										
6	6-3	1245P 1250P	Bonadiman-Moon	11.0	14.0	0.56		7.8		.6	4		FC 19
			At Carson Boulevard										
7	6-3	118P 134P	Bonadiman-Moon	Two Channels				93.1		.6	16		FC 19
			At State Street										
8	6-3	209P 239P	Bonadiman-Moon	Three Channels				84.2		.6	22		FC 19

PERCOLATION MEASUREMENTS

SET NO. _____

LOS ANGELES RIVER June 3, 19 42

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec.Ft.	Loss in Sec.ft. per Ac. Wetted Area	Remarks
840A	L.A. River at Firestone			1	82.5						
908A	Rio Hondo 100' above junction with L.A. River			2	2.0						
	Total				84.5						Inflow 2.0 c.f.s.
948A	L.A. River at Century Blvd.			3	95.3				+10.8		
1049A	L.A. River at Olive			4	92.7				- 2.6		
1158A	L.A. River at Long Beach Blvd.			5	85.2				- 7.5		
1243P	Compton Creek 100' above junction with L.A. River			6	7.8						
	Total				93.0						Inflow 7.8 c.f.s.
126P	L.A. River at Carson Blvd.			7	93.1				+ 0.10		
224P	L.A. River at State St.			8	84.2				- 8.9		

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. _____

Percolation ~~DISCHARGE~~ MEASUREMENTS OF SANTA ANITA WASH

~~AT~~ below Santa Anita Dam DURING THE YEAR ENDING SEPTEMBER 30, 1942

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			Santa Anita Dam outflow										
1	1-22	1125A / 1136A	Haig	9.5	2.55	1.14		2.9		.6	7		FC 33
			Oakwood Syndicate Diversion										
2	1-22	1120A	Haig					1.6	Weir				

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			Little Santa Anita Creek above Big Santa Anita Creek										
3	1-22	1100A	Haig					+	Est.				
			At Foothill Boulevard										
4	1-22	1039A / 1045A	Haig	4.0	1.30	0.65		0.85		.6	5		FC 33
			At Huntington Drive										
5	1-22	1022A / 1030A	Haig	3.5	1.05	0.66		0.69		.6	5		FC 33

PERCOLATION MEASUREMENTS

SET NO. _____

SANTA ANITA WASH — January 22, 1942

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec.Ft.	Loss in Sec.Ft. per Ac. Wetted Area	Remarks
1130A	Dam outflow		0+00	1	2.9						
1120A	Oakwood Diversion			2	1.6						
1100A	Little Santa Anita Creek			3	+						
1042A	Foothill Blvd.		110+00	4	0.85	11000	0.67	0.17	0.45	2.6	
1026A	Huntington Dr.		155+00	5	0.69	4500	0.38	0.04	0.16	4.0	

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. _____

Percolation ~~DISCHARGE~~ MEASUREMENTS OF RIO HONDO

~~AT~~ miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1942

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			At Spreading Grounds Headworks										
1	4-29	913A / 932A	Ingram	23.0	35.8	1.13		40.4		.6	11		FC 2
			350' above Washington Boulevard										
2	4-29	1007A / 1027A	Ingram	45.0	24.8	1.31		32.6		.6	15		FC 2

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			At River Channel opposite Outlet Structure B-20										
3	4-29	1100A / 1120A	Ingram	Two Channels				27.7		.6	16		FC 2
			1000' above Telegraph Road										
4	4-29	1155A / 1213P	Ingram	34.0	16.2	1.15		18.6		.6	11		FC 2
			400' below Foster Bridge										
5	4-29	1235P / 152P	Ingram	22.0	9.38	1.20		11.2		.6	11		FC 2

PERCOLATION MEASUREMENTS

SET NO. _____

RIO HONDO — April 29, 1942

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec.Ft.	Loss in Sec.Ft. per Ac. Wetted Area	Remarks
913A	At Spread Grounds Headworks			1	40.4						
1007A	350' above Washington Blvd.			2	32.6				7.8		
1100A	At River Channel opposite outlet structure B-20			3	27.7				4.9		
1155A	1000' above Telegraph Rd.			4	18.6				9.1		
1235P	400' below Foster Bridge Blvd.			5	11.2				7.4		

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. _____

Percolation ~~Discharge~~ MEASUREMENTS OF WALNUT CREEK

~~at~~ below Puddingstone Dam DURING THE YEAR ENDING SEPTEMBER 30, 1942

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			At Station F40R										
1	11-5	1050A / 1100A	Haig	12.0	6.72	1.77		11.9		.6	7		FC 33
			At Station 20+00										
2	11-5	1110A / 1120A	Haig	10.0	6.03	1.56		9.4		.6	7		FC 33
			At Station 43+00										
3	11-5	1144A / 1154A	Haig	11.0	6.62	1.33		8.8		.6	8		FC 33
			At Station 65+00										
4	11-5	1220P / 1228P	Haig	9.0	8.55	1.18		10.0		.6	7		FC 33
			At Station 95+00										
5	11-5	1245P / 1255P	Haig	13.5	7.22	1.61		11.6		.6	7		FC 33
			At Station 130+00										
6	11-5	120P / 130P	Haig	13.5	7.28	1.53		11.1		.6	7		FC 33
			At Station 160+00										
7	11-5	200P / 210P	Haig	9.0	4.48	2.49		10.3		.6	8		FC 33
			At Station 238+00										
8	11-5	425P / 438P	Haig	14.0	5.40	1.39		7.5		.6	8		FC 33
			At Station 280+00										
9	11-5	445P / 451P	Haig	6.0	3.95	1.95		7.7		.6	5		FC 33
			At Station 330+00										
10	11-5	458 / 504P	Haig	13.5	3.27	1.13		3.7		.6	7		FC 33
			At Station 360+00										
11	11-5	510P / 515P	Haig	6.0	0.81	0.65		0.53		.6	4		FC 33
			At Station 376+00										
12	11-5	520P / 529P	Haig	4.0	0.48	0.65		0.31		.6	4		FC 33
			At Station 390+00										
13	11-5	526P	Haig				DRY						
			At Covina Boulevard										
14	11-5	540P	Haig				DRY						

WALNUT CREEK below Puddingstone Dam (Outflow)

PERCOLATION MEASUREMENTS

SET NO. 1
November 5, 1941

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec.Ft.	Loss in Sec.Ft. per Ac. Wetted Area	Remarks
1055A	Station F40R		5+00	1	11.9						
1115A			20+00	2	9.4	1500	8.0	0.28	2.5	8.9	
1150A			43+00	3	8.8	2300	6.0	0.32	0.6	1.9	
1225P			65+00	4	10.0	2200	6.0	0.30	+1.2	+4.0	Gain in reach
1250P	Near Valley Center Ave.		95+00	5	11.6	3000	7.0	0.48	+1.6	+3.3	Gain in reach
125P			130+00	6	11.6	3500	10.0	0.80	0.0	0.0	
205P	Near Lyman St.		160+00	7	10.3	3000	10.0	0.69	1.3	1.9	
430P	Pomona Rd.		238+00	8	7.5	7800	12.0	2.15	2.8	1.3	
448P	Garvey Ave.		280+00	9	7.7	4200	10.0	0.96	+0.2	+0.2	Gain in reach
500P	Citrus Ave.		330+00	10	3.7	5000	15.0	1.72	4.0	2.3	Includes probable inflow 1400' above section
512P	100' above Hollenbeck Ave.		360+00	11	0.53	3000	15.0	1.03	3.17	3.2	
522P	1500' below Hollenbeck Ave.		376+00	12	0.31	1600	15.0	0.55	0.22	0.4	
540P	Azusa Blvd.		390+00	13	0	1400	8.0	0.26	0.31	1.2	

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. _____

Percolation ~~DISCHARGE~~ MEASUREMENTS OF WALNUT CREEK

~~AT~~ ~~NEAR~~ below Puddingstone Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			At Station F40R										
1	11-18	600A 610A	Brewster	8.0	8.85	1.98	1.55	17.5		.6	6	0	FC 12
			At Reeder Avenue										
2	11-18	650A 700A	Brewster-Pollard	13.0	6.15	2.31		14.2		.6	7		FC 12
			At Pomona-Covina Road										
3	11-18	740A 750A	Brewster	14.0	5.88	1.89		11.1		.6	7		FC 12
			Pipeline Discharge ¼ miles above Garvey Avenue										
4	11-18	800A 806A	Brewster	3.0	1.88	3.56		6.7		.6	4		FC 12
			At Garvey Avenue										
5	11-18	820A 830A	Brewster	10.0	6.38	2.59		16.5		.6	5		FC 12
			At Hollenbeck Avenue										
6	11-18	900A 910A	Brewster	14.0	3.88	2.74		10.6		.6	6		FC 12
			At Lark Ellen Avenue										
6	11-18	950A 1000A	Brewster	14.0	2.92	2.06		6.0		.6	6		FC 12
			At Sunset Avenue										
7	11-18	1045A 1051A	Brewster	10.0	2.68	1.16		3.1		.6	5		FC 12
			At Puente Avenue										
8	11-18	1135A 1140A	Brewster	3.0	0.56	0.82		0.46		.6	3		FC 12
			1200' below Puente Avenue										
9	11-18	1150A	Brewster				DRY						

PERCOLATION MEASUREMENTS

SET NO. 2

WALNUT CREEK below Puddingstone Dam (Release from Dam)

November 18, 19 41

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec.Ft.	Loss in Sec.Ft. per Ac. Wetted Area	Remarks
600A	Puddingstone Dam			1	17.54						
650A	Reeder Ave.			2	14.24				3.30		
740A	Pomona-Covina Rd.			3	11.11	5400	17.8	2.21	3.13	1.41	
800A	Pipe line Disc. ¼ mi. above State Highway			4	6.71						
	Total				17.82						
820A	State Highway (Garvey Ave.)			5	16.46	3800	13.4	1.17	1.36	1.16	
900A	Hollenbeck Ave.			6	10.65	8000	16.0	2.95	5.81	1.97	
950A	Lark Ellen Ave.			7	5.79	5800	19.3	2.57	4.86	1.89	
	Pipe line Disc. at Lark Ellen Ave.			8	0.20						
	Total				5.99						
1045A	Sunset Ave.			9	3.10	6900	11.8	1.87	2.89	1.55	
1135A	Puente Ave.			10	0.46	8400	14.4	2.77	2.64	0.95	
1150A	1200' below Puente Ave.			11	0	1200	11.6	0.32	0.46	1.44	

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. _____

Percolation MEASUREMENTS OF WALNUT CREEK

below Puddingstone Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			At Station F40R										
1	11-19	555A 607A	Brewster	8.0	9.80	2.48	1.67	24.3		.6	5		FC 12
			At Reeder Avenue										
2	11-19	645A 655A	Brewster	14.0	7.32	2.78		20.3		.6	7		FC 12
			At Pomona-Covina Road										
3	11-19	740A 750A	Brewster	14.0	7.32	2.35		17.2		.6	7		FC 12
			Pipeline Discharge ¼ mile above Garvey Avenue										
4	11-19	800A 805A	Brewster	3.0	2.10	3.17		7.5		.6	4		FC 12
			At Garvey Avenue										
5	11-19	815A 825A	Brewster	12.0	7.92	2.92		23.1		.6	6		FC 12
			At Hollenbeck Avenue										
6	11-19	902A 915A	Brewster	21.0	7.10	2.37		16.8		.6	6		FC 12
			At Lark Ellen Avenue										
7	11-19	945A 955A	Brewster	24.0	5.92	1.86		11.0		.6	6		FC 12
			At Sunset Avenue										
8	11-19	1035A 1045A	Brewster	16.0	5.14	1.48		7.6		.6	7		FC 12
			At Puente Avenue										
9	11-19	1135A 1142A	Brewster	9.0	3.08	1.04		3.2		.6	5		FC 12
			Discharge from Dalton Wash										
10	11-19	1155A 1202P	Brewster	9.0	3.15	0.70		2.2		.6	4		FC 12
			4300' below Puente Avenue										
11	11-19	1230P	Brewster					DRY					

PERCOLATION MEASUREMENTS

SET NO. 3

WALNUT CREEK below Puddingstone Dam (Release from Dam)

November 19, 19 41

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec.Ft.	Loss in Sec.Ft. per Ac. Wetted Area	Remarks
600A	Puddingstone			1	24.32						
645A	Reeder Ave.			2	20.33				3.99		
740A	Pomona-Covina Rd.			3	17.25	5400	18.8	2.33	3.08	1.32	
800A	Pipe line Disc. ¼ mi. above State Highway			4	7.55						
	Total				24.80						
815A	State Highway (Garvey Ave.)			5	23.09	3800	15.7	1.37	1.71	1.25	
900A	Hollenbeck Ave.			6	16.84	8000	20.6	3.78	6.25	1.65	
945A	Lark Ellen Ave.			7	10.82	5800	28.5	3.79	6.02	1.59	
	Pipe line Disc. at Lark Ellen Ave.			8	E.0.20						
	Total				11.02						
1035A	Sunset Ave.			9	7.63	6900	20.9	3.31	3.39	1.02	
1135A	Puente Ave.			10	3.22	8400	21.5	4.15	4.41	1.06	
1155A	Dalton Wash above Junction			11	2.21						
	Total				5.43						
1230P	4300' below Puente Ave.			12	0	4300	20.3	2.00	5.43	2.72	This Reach not been wet for several months.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. _____

Percolation MEASUREMENTS OF WALNUT CREEK

below Puddingstone Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			At Station F40R										
1	12-2	615A / 630A	Brewster	14.0	18.6	2.37	1.90	44.1		.6	7		FC 12
			At Reeder Avenue										
2	12-2	645A / 655A	Brewster	18.0	11.9	3.30		39.3		.6	5		FC 12
			At Pomona-Covina Road										
3	12-2	730A / 740A	Brewster	31.0	14.7	2.39		35.1		.6	9		FC 12
			At Garvey Avenue										
4	12-2	815A / 825A	Brewster	14.0	10.5	3.04		31.9		.6	5		FC 12
			At Hollenbeck Avenue										
5	12-2	855A / 905A	Brewster	29.0	9.83	2.54		25.0		.6	8		FC 12
			At Lark Ellen Avenue										
6	12-2	945A / 955A	Brewster	29.0	9.26	2.01		18.6		.6	8		FC 12
			At Sunset Avenue										
7	12-2	1035A / 1045A	Brewster	28.0	8.90	1.64		14.6		.6	7		FC 12
			At Puente Avenue										
8	12-2	1230P / 1238P	Brewster	10.0	4.60	2.08		9.6		.6	5		FC 12
			At Dalton Wash										
9	12-2	130P	Brewster					DRY					

PERCOLATION MEASUREMENTS

SET NO. 4

WALNUT CREEK below Puddingstone Dam (Release from Dam)

December 2, 19 41

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec.Ft.	Loss in Sec.Ft. per Ac. Wetted Area	Remarks
615A	Puddingstone Dam			1	44.12						
645A	Reeder Ave.			2	39.28				4.84		
730A	Pomona-Covina Rd.			3	35.14	5400	21.8	2.70	4.14	1.53	
815A	Garvey Ave.			4	31.93	3800	20.5	1.79	3.21	1.79	
855A	Hollenbeck Ave.			5	25.05	8000	23.7	4.35	6.88	1.58	
945A	Lark Ellen Ave.			6	18.60	5800	36.9	4.92	6.45	1.31	
1035A	Sunset Ave.			7	14.62	6900	30.5	4.83	3.98	0.82	
1230P	Puente Ave.			8	9.65	8400	31.9	5.96	4.97	0.83	
130P	End of Percolation			9	0	5200	31.0	3.71	9.65	2.60	

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			At Station F40R										
1	12-3	645A / 700A	Brewster	14.0	23.2	3.94	2.27	91.4		.6	7	0	FC 12
			At Reeder Avenue										
2	12-3	730A / 742A	Brewster-Pollard	18.0	18.5	4.67		86.4		.6	5		FC 12
			At Pomona-Covina Road										
3	12-3	750A / 800A	Brewster-Pollard	28.0	23.6	3.54		83.0		.6	7		FC 12
			At Garvey Avenue										
4	12-3	820A / 830A	Brewster-Pollard	26.0	22.6	3.45		78.1		.6	7		FC 12
			At Hollenbeck Avenue										
5	12-3	840A / 850A	Brewster-Pollard	30.0	16.9	4.14		70.0		.6	8		FC 12
			At Lark Ellen Avenue										
6	12-3	915A / 930A	Brewster-Pollard	32.0	16.4	3.82		62.5		.6	8		FC 12
			At Sunset Avenue										
7	12-3	945A / 1000A	Brewster-Pollard	27.5	18.0	3.15		56.9		.6	8		FC 12
			At Puente Avenue										
8	12-3	1030A / 1040A	Brewster-Pollard	39.0	22.6	2.26		51.2		.6	7		FC 12
			At Covina Boulevard										
9	12-3	1107A / 1130A	Brewster-Pollard	25.0	15.9	2.26		35.9		.6	7		FC 12
			Above junction with San Gabriel River										
10	12-3	1230P / 1235P	Brewster-Pollard	10.0	2.32	1.03		2.4		.6	4		FC 12

PERCOLATION MEASUREMENTS

SET NO. 5

WALNUT CREEK below Puddingstone Dam (Release from Dam)

December 3, 19 41

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec.Ft.	Loss in Sec.Ft. per Ac. Wetted Area	Remarks
645A	Puddingstone Dam			1	91.43						
730A	Reeder Ave.			2	86.38				5.05		
800A	Pomona-Covina Rd.			3	83.03	5400			3.35		
830A	Garvey Ave.			4	78.11	3800			4.92		
900A	Hollenbeck Ave.			5	70.02	8000			8.09		
930A	Lark Ellen Ave.			6	62.48	5800			7.54		
1000A	Sunset Ave.			7	56.93	6900			5.55		
1040A	Puente Ave.			8	51.20	8400	34.7	6.70	5.73	0.86	
1130A	Covina Blvd.			9	35.92	5900	61.3	8.30	15.28	1.84	
1230P	Junction with San Gabriel River			10	2.40	9500	74.1	16.16	33.52	2.07	

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. _____

Percolation ~~Discharge~~ MEASUREMENTS OF SAN GABRIEL RIVER

AT ~~Point~~ miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 42

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			200' below Dunlap Crossing										
1	2-3	954A / 1016A	Bonadiman-Ingram	Two Channels				72.1		.6	20		FC 2
			At Los Nietos Road										
2	2-3	1045A / 1105A	Bonadiman-Ingram	Two Channels				55.8		.6	17		FC 2
			At Florence Avenue										
3	2-3	1130A / 1145A	Bonadiman-Ingram	58.0	30.9	1.37		42.2		.6	13		FC 2
			At Rosecrans Avenue										
4	2-3	1215P / 1245P	Bonadiman-Ingram	61.0	28.3	1.26		35.8		.6	12		FC 2
			At Artesia Avenue										
5	2-3	135P / 153P	Bonadiman-Ingram	59.0	25.7	1.31		33.7		.6	13		FC 2
			At Del Amo Street										
6	2-3	215P / 230P	Bonadiman-Ingram	Two Channels				28.9		.6	11		FC 2
			At Carson Boulevard										
7	2-3	250P / 312P	Bonadiman-Ingram	Two Channels				25.8		.6	17		FC 2
			At Spring Street										
8	2-3	323P / 338P	Bonadiman-Ingram	Two Channels				26.9		.6	12		FC 2

PERCOLATION MEASUREMENTS

SET NO. _____

SAN GABRIEL RIVER — February 3, 19 42

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
1000A	200' below Dunlap Crossing Rd.			1	72.1						Lengths of reaches taken from U.S.G.S. maps.
1055A	Rivera Los Nietos Rd.			2	55.8	7800			16.3	2.09	
1138A	Florence Ave.			3	42.2	12500			13.6	1.09	
1230P	Rosecrans Ave.			4	35.8	15000			6.4	0.43	
140P	Artesia Ave.			5	33.7	10600			2.1	0.20	
223P	Del Amo St.			6	28.9	10000			4.8	0.48	
300P	Carson Blvd.			7	25.8	5500			3.1	0.56	
330P	Spring St.			8	26.9	7800			+ 1.1	0	
			Loss 45.2 c.f.s. in approximately 13 miles Reach								

YEARLY DISCHARGE-SUMMARY

Water Year Ending September 30, 1942							Peak Flows		
F.C. No.	Station	Location	Max.Da. C.F.S.	Min.Da. C.F.S.	Mean C.F.S.	Runoff A.F.	Mo.	Day	Flow C.F.S.
F81D-R	ALHAMBRA WASH	near Short Street	193.	0	2.50	1810	12	10	1650
F152R	ALISO WASH	at Nordhoff Street	7.	0	0.04	33	12	28	55
F38B-R	BALLONA CREEK	at Sawtelle Blvd.	990.	2.8	23.8	17250	12	10	7500
F120R	BIG DALTON CREEK	below Big Dalton Dam	2.8	0	0.32	235	8	-	N.D.
F274R	DALTON WASH	at Merced Ave.	42.	0	1.01	727	12	10	230
F111B-R	BIG TUJUNGA CREEK	above Edison Rd.	57.	0.6	8.20	5930	12	10	112
F168R	BIG TUJUNGA CREEK	below Big Tujunga Dam No. 1	47.	1.0	10.7	7720	12	31	47
F213R	BIG TUJUNGA CREEK	above Gold Canyon	62.	4.4	14.8	10690	12	28	165
F20B-R	TUJUNGA WASH	at Glen Oaks Blvd.	59.	0	5.80	4190	12	30	59
F105R	TUJUNGA WASH	at Magnolia Blvd.	16.	0	0.17	123	12	28	119
F106R	TUJUNGA WASH-CENTRAL BRANCH	at Magnolia Blvd.	8.5	0	+	33	12	10	57
F270R	CALABASAS CREEK	at Ventura Blvd.	0.3	0	+	1.2	12	28	5.5
F37B-R	COMPTON CREEK	nr. Greenleaf Dr.	236.	3.0	10.1	7280	12	10	1730
F41C-R	COYOTE CREEK	at Del Amo St.	92.	0	2.15	1560	12	10	351
F265R	DOMINGUEZ CHANNEL	at Carson Blvd.	45.	0	4.90	3570	12	11	47
F53R	DUME CREEK	at Roosevelt Highway	0.4	0	0.04	28	12	28	2.7
F271R	EATON WASH	below Eaton Wash Debris Dam	+	0	+	+	Var.		+
F104R	EATON WASH	at Ellis Lane	49.	0	0.40	293	12	10	289
F149R	LIMEKILN WASH	at Devonshire Ave.	1.6	0	0.03	20	12	10	6.5
F65B-R	LITTLE DALTON CREEK	above Mouth of Canyon	2.5	0	0.27	198	12	29	10
L1R	LITTLE ROCK CREEK	above Little Rock Dam	55.	0	7.10	5140	4	4	92
F67B-R	LITTLE SANTA ANITA CREEK	below Sierra Madre Dam	2.7	0	0.19	138	12	28	5
F267R	LITTLE SANTA ANITA CREEK	at Woodland Avenue	6.5	0	0.16	117	12	28	60
F19R	LITTLE TUJUNGA CREEK	at Foothill Blvd.	30.	0	0.27	199	12	28	198
F31R	LIVE OAK CREEK	nr. Mouth of Canyon	0	0	0	0			0
F5B-R	LOS ANGELES RIVER	below Sepulveda Blvd.	161.	5	9.38	6790	12	28	1040
F266R	LOS ANGELES RIVER	at Mariposa St.	358.	14	49.1	35540	12	28	2290
F57C-R	LOS ANGELES RIVER	above Arroyo Seco	1170.	22	75.7	54800	12	10	5260
F34B-R	LOS ANGELES RIVER	at Firestone Blvd.	2030.	27	97.8	70820	12	10	8210
F180R	LOS ANGELES RIVER	at Pacific Coast Highway	3180.	31	129.	93390	12	10	10800
F130R	MALIBU CREEK	at Crater Camp	32.	0.1	2.52	1820	12	28	140
F22R	MONROVIA CREEK	above Sawpit Cr.	1.8	+	0.11	81	12	29	2.6
F195R	MONROVIA STORM DRAIN	at Peck Road	15.	0	0.31	228	12	10	412
F181R	MONTEBELLO STORM DRAIN	at Outlet into Rio Hondo	102.	0.1	1.33	962	12	10	521
F118B-R	PACOIMA CREEK FLUME	below Pacoima Dam	25.	0	2.74	1990	7	15	97
F16R	PACOIMA WASH	at Parthenia St.	9.	0	0.05	34	12	10	57
F40R	PUDDINGSTONE CREEK	below Puddingstone Dam	44.	0.1	2.27	1640	12	3	91
F192R	RIO HONDO	at Lower Azusa Road	214.	0.1	2.73	1980	12	10	254
F64R	RIO HONDO	above Mission Bridge	687.	17	39.8	28810	12	10	4100
F45R	RIO HONDO	at Stewart and Gray Rd.	564.	0	9.29	6730	12	10	4240
F83R	RIO HONDO SLOUGH	at San Gabriel Blvd.	43.	20	25.9	18740	12	10	68
F82C-R	RUBIO WASH	at Glendon Way	130.	0	2.11	1530	12	10	1200
F151R	SAN ANTONIO CREEK	at Mouth of Canyon	10.	0	0.11	83	12	10	31
F209R	SAN GABRIEL RIVER-WEST FORK	below San Gabriel Dam No. 2	76.	1.0	10.1	7320	11	1	90
F3R	SAN GABRIEL RIVER-WEST FORK	above Forks	183.	6.5	32.9	23810	12	29	288
F4B-R	SAN GABRIEL RIVER-EAST FORK	above Forks	130.	12	34.9	25230	8	10	349
F250R	SAN GABRIEL-AZUSA CONDUIT	at Weir below San Gabriel Dam No. 1	92.	0	55.2	39940	8	27	112
F220R	SAN GABRIEL-AZUSA CONDUIT	at Garcia Canyon	91.	+	53.0	38360	Var.		91
3100A-R	SAN GABRIEL-AZUSA DUARTE TUNNEL DIV.	at Mouth of Canyon	66.	0	6.13	4430	-	-	-
F190R	SAN GABRIEL RIVER	at Foothill Blvd.	312.	0	5.52	3990	4	20	345
F261B-R	SAN GABRIEL RIVER	at Valley Blvd.	4.0	0	2.15	1560			N.D.
F263R	SAN GABRIEL RIVER	at Beverly Blvd.	149.	0	39.5	28630	12	10	412
F262R	SAN GABRIEL RIVER	at Florence Ave.	117.	0	18.7	13570	12	10	413
F42R	SAN GABRIEL RIVER	at Spring St., Long Beach	148.	0	15.0	10830	12	11	277
F48R	SAN JOSE CREEK	at Workman Mill Road	54.	0.8	5.43	3930	12	10	180
F260B-R	SANTA ANITA WASH	at Foothill Blvd.	26.	0	0.96	694	12	29	65
F92B-R	SANTA CLARA RIVER	at Highway 99	167.	0.6	32.3	23400	12	28	443
F278R	SAWPIT CREEK	below Sawpit Dam	1.3	0	0.04	30	3	14	2.6
F185R	SEPULVEDA CREEK	at Charnock Road	177.	0.1	2.75	1990	12	28	2200
F43R	SYCAMORE UPPER STORM DRAIN	above Solway St.	9.5	0	0.15	110	12	10	119
F44R	SYCAMORE LOWER STORM DRAIN	at Adams Square	58.	+	0.64	463	12	10	434
F276R	THOMPSON CREEK SPREADING GROUNDS INTAKE	at Thompson Creek Dam	+	0	+	+	Var.		+
F54B-R & F54R	TOPANGA CREEK	above Mouth of Canyon	47.	+	0.75	540	12	28	385
F252R	VERDUGO CHANNEL	at Estelle Ave.	81.	0.8	2.98	2160	12	10	440
F47R	WALNUT CREEK	at Covina Blvd.	52.	0	0.30	216	12	10	223

Legend

N.D.=Not Determined
+ =0.05 c.f.s. or less

DAM OPERATION RECORDS

DAMS AND DEBRIS BASINS

Foreword:

The Los Angeles County Flood Control District operated sixteen dams and sixteen debris basins during this season. In addition, Hansen Dam on Tujunga Wash and Sepulveda Dam on the Los Angeles River were operated by the United States Engineer Department. The Department also continued construction on Santa Fe Dam on the San Gabriel River. The Flood Control District completed construction of Aliso-Wilbur debris basin in San Fernando Valley during the season. Pertinent data relative to the District's dams and debris basins are presented in the two following tables.

TABLE I

Dams Owned and Operated

by

Los Angeles County Flood Control District

	Dam	Date of Completion	Drainage Area Sq.Mi.	Original Storage-A.F. at Spillway	Latest Storage-A.F. at Spillway	Date of Survey
1	Pacoima	Feb. 1929	27.8	6060.	4837.	Oct. 1942
°2	Sunset Canyon	Nov. 1929	0.4	9.	4.	Apr. 1942
3	Big Tujunga #1	July 1931	81.4	6240.	4425.	July 1941
4	Devils Gate	June 1920	31.9	4554.	2728.	Jan. 1942
5	Eaton Wash	Feb. 1937	9.5	956.	681.	Aug. 1941
°6	Sierra Madre	Feb. 1928	2.4	55.	34.	Nov. 1939
7	Big Santa Anita	Mar. 1927	10.8	1376.	710.	Feb. 1940
8	Sawpit	June 1927	3.3	476.	342.	May 1941
9	San Gabriel #2	Apr. 1934	40.4	12298.	10915.	Nov. 1941
10	San Gabriel #1	July 1939	+°161.6	53334.	45862.	Sept. 1941
11	Big Dalton	Aug. 1929	4.5	1290.	969.	Oct. 1938
12	San Dimas	Sept. 1922	16.2	1496.	1145.	Dec. 1941
°°13	Puddingstone Div.	July 1928	2.6	148.	76.	Nov. 1939
14	Puddingstone	Jan. 1928	+°°11.0	17398.	17190.	Jan. 1941
15	Live Oak	Nov. 1922	2.3	250.	227.	May 1938
16	Thompson Creek	Mar. 1928	3.7	812.	643.	Oct. 1932
	Total		409.8	106752.	90788	

° Debris Dams.
°° For diversion of flow only. Storage is temporary.
+° Exclusive of drainage area above San Gabriel Dam #2.
+°° Exclusive of drainage area above Live Oak, San Dimas, and Puddingstone Diversion Dams.

NOTE: Storage capacities are corrected for debris encroachment or sluicing whenever survey or other information is made available.

TABLE II

Debris Basins Owned and Operated

by

Los Angeles County Flood Control District

Debris Basin	Date of Completion	Drainage Area Sq.Mi.	Initial Design Capacity as Constructed-C.Y.	Capacity at beginning of 1941-42 Season-C.Y.	Approximate Debris Inflo 1941-42 Season-C.Y.
Aliso-Wilbur	6-5-42	8.63	52650	under construction	--
Nichols	11-23-37	0.94	32200	25450	1950
Stough	1-23-41	1.65	111230	89900	0
Brand	11-12-35	1.03	69500	72500	1100
Verdugo	3-9-35	15.24	105700	105700	0
Dunsmuir	2-16-35	0.84	128200	111300	600
Shields	6-1-36	0.27	48200	41500	300
Eagle Goss	10-20-36	0.61	71900	49800	350
Pickens	2-19-35	1.84	109800	116500	200
Snover	3-9-37	0.23	34800	29300	0
Hall Beckley	2-21-35	0.84	89300	88450	850
Hay	10-20-36	0.20	37800	39750	0
Lincoln	1-17-36	0.50	34700	40800	200
West Ravine	12-10-35	0.25	31500	49600	200
Fern	12-5-35	0.30	16600	32900	0
Fair Oaks	12-29-35	0.21	41500	28500	0
Las Flores	4-15-36	0.42	33900	43900	2650

Purpose

Dams in the Los Angeles County Flood Control District serve two purposes, the primary purpose being flood control, the secondary, conservation. Proper flood control operation precludes any appreciable conservation storage during the storm season as flood control obviously demands that a maximum amount of storage capacity be kept in reserve. However, regulated flood releases restricted to available natural channel capacities permit a maximum amount of percolation in the pervious areas.

Operation

Due to certain inadequate and unimproved channels in the valley reaches below the dams, careful flood regulation is necessary for moderate as well as large storms in order to hold damage to a minimum below the mountain drainage areas. The major portion of available storage is kept in reserve during the winter season to enable the District to store or detain peak flood flows until valley runoff has receded sufficiently to allow the discharging of the storm waters from the dams. If meteorological conditions permit, it is sometimes possible to temporarily store such storm water for release

after cessation of a storm at such rates as will percolate in the existing channels and spreading grounds downstream. The storage of inflows is usually commenced when the threat of the winter flood season is passed. Water stored in this manner is conserved primarily for use as a gravity supply to satisfy irrigation and water rights requirements.

No major debris encroachment was experienced at any reservoir. No appreciable reservoir sluicing was accomplished during this season as flows were deficient and sluicing necessitates the use of sustained flow of sufficient volume and velocity to transport sizable bed load materials.

Records

The daily storage and flow records at each dam are summarized herein on the Dam Operation Record sheets. These sheets show the following:

(1) Reservoir water surface elevations show the water surface elevation above sea level at midnight of each day. These were determined from recorder graphs or interpolated from actual readings.

(2) Storages in acre feet which are usually based on topographic surveys. Topography is redetermined and the storages are corrected as frequently as is practical.

(3) Inflows in cubic feet per second are the average daily flows into the reservoir. These are usually determined from storage change and known outflow. When outflow records are directly indeterminate, the inflows may be determined from gaging station records or interpolated between measurements.

(4) Outflows in cubic feet per second show the mean daily valve and/or spillway discharge from the reservoirs. These are determined from gaging station records, known valve openings and rating curve, or from storage change and known inflow.

(5) In some instances, total monthly and yearly evaporation and percolation losses have been computed as indicated on the Operation Records. Discrepancies between outflow and storage losses at Devils Gate, Eaton, Puddingstone, Puddingstone Diversion, and Thompson Creek Reservoirs were attributed to percolation and evaporation losses and are shown as total monthly and yearly losses. Total monthly evaporation losses are shown for San Gabriel Dam No. 1 and were determined from readings taken on a floating evaporation pan. In those cases where no allowances were made for evaporation, the amounts are necessarily included in the flow values.

Accuracy of the flow records computed from storage records is obviously dependent on the accuracy of the storage tables. Percentage of error is in direct proportion to the error in water surface areas through the range at which the flows were computed.

Runoff and Operation Summary

Minor storms and deficient seasonal rainfall resulted in a corresponding low seasonal inflow to reservoirs. No storm flows occured to tax reservoir regulating capacity. The total inflow of 70977 acre-feet was almost entirely conserved by storage and channel percolation.

A summary table showing total annual inflows, outflows, storages and extremes for each dam during the 1941-42 season is included on page 197.

Responsibility

Preparation of the operation records was under the immediate supervision of H. A. van der Goot and the direction of W. J. Wood.

Reservoir operation was under the direction of Finley B. Laverty, Chief-Hydraulic Division. Dam and debris basin maintenance and operation was under the supervision of R. D. Reeve, Chief-Maintenance and Operation Division.

NOTE: IN THE FOLLOWING RECORDS, TIME PRIOR TO FEBRUARY 9, 1942, IS PACIFIC STANDARD TIME, SUBSEQUENT TIME IS PACIFIC WAR TIME. FEB. 9 IS COMPUTED ON THE BASIS OF A 23 HOUR DAY.

PACOIMA

F. C. Dist. Form 68 Revised 800 5/39

Storages based on debris determination following storm of March 2, 1938 (Table IV)

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In Pacoima Canyon for the Year Ending September 30, 1942

Continuous Water Stage Recorder Au

Drainage Area 27.8 Square Miles. Capacity of Reservoir 5004.3 Ac. Ft. at Spillway Elev. 1950.0 Ft.

Gage Heights Read Daily

Day	OCTOBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	NOVEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	DECEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JANUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1807.9	365.4	0.9	• +	1790.3	162.5	1.4	4.2	1786.6	127.4	2.8	0	1831.2	726.9	17.9	• 0.1	1
2	1808.1	368.0	0.9	• +	1789.7	156.6	1.3	4.2	1787.2	132.9	2.7	0	1832.7	753.8	13.7	• 0.1	2
3	1808.2	369.4	0.9	• +	1789.0	149.9	1.1	4.2	1788.1	141.3	4.3	0	1834.0	777.5	12.0	• 0.1	3
4	1808.3	370.7	0.9	• +	1788.4	144.1	1.1	4.2	1789.0	149.9	4.3	0	1835.1	798.0	10.4	• 0.1	4
5	1808.5	373.4	0.9	• +	1787.7	137.5	1.1	4.1	1789.8	157.6	3.9	0	1836.1	816.6	9.5	• 0.1	5
6	1808.6	374.7	0.8	• +	1787.1	132.0	1.1	4.1	1790.6	165.5	4.0	0	1836.5	824.2	8.2	4.3	6
7	1808.1	368.0	1 0.8	4.1	1786.4	125.6	1.1	3.8	1791.3	172.5	3.5	0	1836.5	824.2	7.3	7.3	7
8	1807.1	355.0	0.8	7.4	1785.8	120.1	1.1	3.3	1792.0	179.5	3.5	0	1836.4	822.3	6.2	7.2	8
9	1806.2	343.3	0.8	6.7	1785.3	115.7	1.0	3.3	1792.6	185.7	3.2	0	1836.2	818.5	5.3	7.2	9
10	1805.3	331.9	0.8	6.5	1784.8	111.3	1.0	3.3	1797.2	235.3	25.0	• +	1835.9	812.8	5.0	7.2	10
11	1804.6	323.1	0.8	5.6	1784.3	106.9	1.0	3.2	1801.5	285.2	25.1	+	1835.8	811.0	5.0	6.3	11
12	1803.9	314.3	0.8	5.6	1783.8	102.6	1.0	3.2	1803.4	308.2	11.6	+	1835.7	809.1	5.0	5.6	12
13	1803.1	304.5	0.8	5.6	1783.3	98.5	1.0	3.2	1804.8	325.6	8.8	+	1836.0	814.7	5.0	2.8	13
14	1802.3	294.8	0.8	5.7	1782.9	95.1	1.0	3.1	1805.9	339.4	7.0	+	1836.5	824.2	4.9	• 0.1	14
15	1801.4	284.0	0.8	5.7	1782.5	91.8	1.0	3.1	1806.9	352.4	6.5	+	1837.0	833.7	4.8	0.1	15
16	1800.5	273.3	0.8	5.6	1782.1	88.4	1.1	3.0	1807.8	364.1	5.9	+	1837.5	843.2	4.9	0.1	16
17	1799.7	263.9	0.8	5.6	1781.7	85.2	1.2	3.0	1808.7	376.1	6.1	+	1838.0	852.7	4.9	0.1	17
18	1798.9	254.7	0.8	5.6	1781.3	82.1	1.3	3.0	1809.4	385.5	4.7	+	1838.5	862.4	5.0	0.1	18
19	1798.1	245.5	0.8	5.6	1780.9	79.0	1.5	2.9	1810.0	393.5	4.0	+	1838.9	870.2	4.0	0.1	19
20	1797.3	236.5	0.8	5.5	1780.5	75.8	1.6	2.8	1810.8	404.5	5.6	+	1839.3	878.0	4.1	0.1	20
21	1796.5	227.5	0.8	5.4	1780.5	75.8	1.8	1.8	1811.5	414.2	4.9	+	1839.7	885.8	4.0	0.1	21
22	1795.7	218.7	0.8	5.2	1781.2	81.3	2.0	0	1812.1	422.5	4.2	+	1840.1	893.6	4.0	0.1	22
23	1794.9	210.0	1 0.8	5.2	1781.8	86.0	2.2	0	1812.9	433.9	5.7	+	1840.6	903.5	5.1	0.1	23
24	1794.2	202.5	1.2	4.4	1782.3	90.1	2.4	0	1813.6	443.8	5.0	+	1841.0	911.5	4.2	0.1	24
25	1793.6	196.1	1.2	4.4	1782.8	94.3	2.7	0	1814.3	453.9	5.1	+	1841.4	919.5	4.1	0.1	25
26	1793.1	190.9	1.2	4.4	1783.3	98.5	2.7	0	1815.1	465.6	5.9	+	1841.8	927.4	3.3	• 0.1	26
27	1792.7	186.8	2.3	4.4	1784.0	104.3	2.8	0	1815.7	474.3	4.4	+	1841.8	927.4	3.1	3.3	27
28	1792.2	181.6	2.2	4.4	1784.7	110.5	2.8	0	1817.4	499.7	12.9	0.1	1841.4	919.5	3.1	6.6	28
29	1791.7	176.5	2.0	4.3	1785.3	115.7	2.8	0	1823.4	593.8	47.5	0.1	1841.0	911.5	3.1	6.6	29
30	1791.2	171.5	1.8	4.3	1786.0	121.9	2.8	0	1826.6	646.9	26.9	0.1	1840.7	905.5	3.1	6.6	30
31	1790.8	167.5	1.6	4.3					1829.2	691.6	22.6	• 0.1	1840.3	897.6	3.1	6.6	31
TOTAL			32.4	1315			48.0	71.0			287.6	0.4			1833	79.4	
Inf. Ac. Ft.			643				952				570.4				3636	1093.5	
Outf. Ac. Ft.				2608				140.8				0.8			157.5	559.9	
Maximum Mean Daily Inflow			23				2.8				475				17.9	475	
Minimum Mean Daily Inflow			0.8				1.0				2.7				3.1	0.8	
Storage Change			-1976				-44.6				+569.7				+206.0	+533.5	
																½ Year	

REMARKS

Max. W. S. Elev. 1865.1 feet on 5/18/42 Storage 1460.5 Acre Feet
Min. W. S. Elev. 1790.3 feet on 9/30/42 Storage 94.8 Acre Feet
Max. Peak Inf. 85.0 C.F.S. from 2:30 A.M. on 12/29/41 to 3:00 A.M. on 12/29/41
Max. Peak Outf. 97.0 C.F.S. from 4:00 A.M. on 7/15/42 to 5:00 A.M. on 7/15/42
Gage heights and storage as of midnight on day shown.

RECORDS COLLECTED BY
E. K. De Vore — Dam Tender
J. W. Luce — Hydrographer
Hydrographer

COMPUTATIONS — Date
Gage Hts. copied H.A.V.
Storage applied H.A.V.
Inf. & Outf. computed H.A.V. 7/14/42
Checked L.T.

(= Mean for period.
• = Gate leakage.
1 = Interpolated
Note: Beginning 10/24, outflows as indicated by Station 118 and valve operation records.
+ = Negligible flow.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In Pacoima Canyon for the Year Ending September 30, 1942

Continuous Water Stage Recorder Au

Drainage Area 27.8 Square Miles. Capacity of Reservoir 5004.3 Ac. Ft. at Spillway Elev. 1950.0 Ft.

Gage Heights Read Daily

Day	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1839.9	889.7	2.6	6.6	1843.5	961.9	2.9	• 0.1	1852.6	1157.9	2.4	• 0.1	1863.1	1409.5	3.2	4.7	1
2	1839.5	881.9	2.6	6.5	1843.8	968.0	2.8	0.1	1852.8	1162.4	2.4	0.1	1863.1	1409.5	3.0	2.3	2
3	1839.1	874.1	2.7	6.6	1844.1	974.2	2.8	0.1	1853.0	1167.0	2.4	0.1	1863.4	1417.1	2.8	0.1	3
4	1838.7	866.3	2.6	6.6	1844.3	978.3	2.8	0.1	1853.7	1182.9	8.1	0.1	1863.5	1419.6	2.7	0.6	4
5	1838.3	858.5	2.6	6.5	1844.6	984.6	2.8	0.1	1854.1	1192.0	4.7	0.1	1863.6	1422.1	2.6	1.5	5
6	1837.9	850.8	2.6	6.4	1844.8	988.7	2.8	0.1	1854.5	1201.3	4.8	0.1	1863.6	1422.1	2.4	1.5	6
7	1837.5	843.2	2.6	6.2	1845.0	992.9	2.8	0.1	1854.8	1208.3	3.6	0.1	1863.7	1424.6	2.0	1.5	7
8	1837.0	833.7	2.6	6.2	1845.3	999.1	2.8	0.1	1855.1	1215.3	3.7	0.1	1863.8	1427.2	2.0	0.8	8
9	1836.6	826.1	2.6	6.2	1845.5	1003.3	2.8	0.1	1855.4	1222.3	3.6	0.1	1864.0	1432.2	2.0	0.1	9
10	1836.6	826.1	2.6	2.1	1845.7	1007.5	2.8	0.1	1855.8	1231.6	4.8	0.1	1864.1	1434.8	2.0	0.1	10
11	1836.9	831.8	2.6	• 0.1	1846.0	1013.7	3.2	0.1	1856.2	1241.0	4.8	0.1	1864.3	1439.9	2.0	0.1	11
12	1837.2	837.5	2.6	0.1	1846.4	1022.2	4.4	0.1	1856.5	1248.1	3.7	0.1	1864.4	1442.5	2.0	0.1	12
13	1837.5	843.2	2.6	0.1	1846.7	1028.6	3.3	0.1	1856.8	1255.2	3.7	0.1	1864.6	1447.7	1.9	0.1	13
14	1837.7	847.0	2.6	0.1	1847.1	1037.1	4.4	0.1	1857.5	1271.8	8.4	0.1	1864.7	1450.2	1.9	0.1	14
15	1838.0	852.7	2.6	0.1	1847.8	1052.0	7.6	0.1	1858.0	1283.7	6.1	0.1	1864.8	1452.8	1.8	0.1	15
16	1838.3	858.5	2.6	0.1	1848.3	1062.7	5.5	0.1	1858.5	1295.8	6.2	0.1	1865.0	1458.0	1.6	0.1	16
17	1838.6	864.4	2.6	0.1	1848.7	1071.4	4.5	0.1	1859.0	1308.0	6.3	0.1	1865.1	1460.5	1.4	0.1	17
18	1838.9	870.2	2.6	0.1	1849.1	1080.1	4.5	0.1	1859.4	1317.7	5.0	0.1	1864.8	1452.8	1.3	4.5	18
19	1839.1	874.1	2.5	0.1	1849.4	1086.7	4.0	0.1	1859.8	1327.4	5.0	0.1	1864.4	1442.5	1.2	6.2	19
20	1839.4	879.9	2.6	0.1	1849.8	1095.4	3.9	0.1	1860.1	1334.7	3.8	0.1	1864.1	1434.8	1.2	4.2	20
21	1839.9	889.7	5.0	0.1	1850.1	1101.9	3.3	0.1	1860.5	1344.6	5.0	0.1	1863.9	1429.7	1.2	3.6	21
22	1840.6	903.5	7.1	0.1	1850.3	1106.4	3.2	0.1	1860.9	1354.5	5.1	0.1	1863.7	1424.6	1.2	3.6	22
23	1841.2	915.5	6.1	0.1	1850.6	1113.1	3.2	0.1	1861.3	1364.4	5.1	0.1	1863.6	1422.1	1.2	3.6	23
24	1841.7	925.4	5.1	0.1	1850.9	1119.7	3.2	0.1	1861.6	1371.8	3.9	0.1	1863.4	1417.1	1.1	3.6	24
25	1842.1	933.4	3.7	0.1	1851.2	1126.4	3.2	0.1	1861.9	1379.2	3.8	0.1	1863.2	1412.0	1.1	3.6	25
26	1842.4	939.5	3.7	0.1	1851.4	1130.9	2.4	0.1	1862.2	1386.8	3.9	• 0.1	1863.0	1407.0	1.1	3.6	26
27	1842.8	947.7	3.7	0.1	1851.6	1135.3	2.3	0.1	1862.5	1394.3	3.8	0.7	1862.9	1404.4	1.1	3.6	27
28	1843.1	953.8	3.6	• 0.1	1851.8	1139.8	2.4	0.1	1862.8	1401.9	3.7	• 0.1	1862.7	1399.4	1.1	3.5	28
29					1852.0	1144.2	2.3	0.1	1863.0	1407.0	3.7	• 0.1	1862.5	1394.3	1.1	3.3	29
30					1852.2	1148.8	2.4	0.1	1863.2	1412.0	3.6	1.2	1862.3	1389.3	1.0	3.2	30
31					1852.4	1153.3	2.4	• 0.1					1862.1	1384.2	1.0	3.2	31
TOTAL			90.0	61.7			103.7	3.1			135.1	4.7			53.2	67.2	
Inf. Ac. Ft.			1785				205.7				268.0				105.5	1851.2	
Outf. Ac. Ft.				122.4				6.1				9.3			133.3	831.0	
Maximum Mean Daily Inflow			7.1				7.6				8.4				3.2	47.5	
Minimum Mean Daily Inflow			2.5				2.3				2.4				1.0	0.8	
Storage Change			+562				+199.5				+258.7				-27.8	+1020.1	
																½ Year	

REMARKS

Max. W. S. Elev. 1865.1 feet on 5/18/42 Storage 1460.5 Acre Feet
Min. W. S. Elev. 1760.3 feet on 9/30/42 Storage 94.8 Acre Feet
Max. Peak Inf. 85.0 C.F.S. from 2:30 A.M. on 12/29/41 to 3:00 A.M. on 12/29/41
Max. Peak Outf. 97.0 C.F.S. from 4:00 P.M. on 7/15/42 to 5:00 A.M. on 7/15/42
Gage height and storage as of midnight on day shown.

RECORDS COLLECTED BY
E. K. De Vore — Dam Tender
J. W. Luce — Hydrographer
Hydrographer

COMPUTATIONS — Date
Gage Hts. copied H.A.V.
Storage applied H.A.V.
Inf. & Outf. computed H.A.V. 7/14/42
Checked L.T.

(= Mean for period.
• = Gate leakage.

PACOIMA (CONT.)

F. C. Dist. Form 68 Revised 800 5/39

*Storages based on composite surveys as of October, 1942 (Table V)

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In Pacoima Canyon for the Year Ending September 30, 1942

Drainage Area 27.8 Square Miles. Capacity of Reservoir *4837. Ac. Ft. at Spillway Elev. 1950.0 Ft.

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	JUNE Gage Height	JUNE Acre Ft. Storage	JUNE C.F.S. Inflow	JUNE C.F.S. Outflow	JULY Gage Height	JULY Acre Ft. Storage	JULY C.F.S. Inflow	JULY C.F.S. Outflow
1	1861.9	*1222.1	1.0	4.1	1850.0	951.4	0.3	4.6
2	1861.6	1214.8	1.0	4.4	1849.5	940.9	0.3	5.3
3	1861.3	1207.6	1.0	4.2	1849.1	932.5	0.3	5.1
4	1861.1	1202.7	0.9	4.0	1848.6	922.1	0.3	5.0
5	1860.8	1195.5	0.9	4.0	1848.2	913.8	0.3	4.9
6	1860.5	1188.3	0.9	4.0	1847.7	903.6	0.2	4.8
7	1860.3	1183.5	0.9	3.9	1847.3	895.4	0.2	4.7
8	1860.0	1176.3	0.9	3.8	1846.8	885.3	0.2	4.7
9	1859.7	1169.2	0.9	4.5	1846.4	877.2	0.2	4.6
10	1859.4	1162.1	0.8	5.0	1846.0	869.2	0.2	4.6
11	1859.0	1152.6	0.7	5.0	1845.5	859.3	0.2	4.6
12	1858.7	1145.6	0.7	5.0	1845.1	851.3	0.2	4.5
13	1858.3	1136.2	0.7	5.0	1844.7	843.4	0.2	4.3
14	1858.0	1129.2	0.7	4.9	1844.3	835.6	0.2	4.3
15	1857.6	1120.0	0.7	4.8	1842.6	802.6	i 0.2	16.8
16	1857.3	1113.0	0.6	4.7	1842.2	794.9	0.2	4.5
17	1856.9	1103.8	0.6	4.7	1841.7	785.4	0.2	4.5
18	1856.5	1094.7	0.6	4.6	1841.3	777.8	0.2	4.4
19	1856.2	1087.8	0.6	4.5	1840.8	768.3	0.2	4.4
20	1855.9	1080.9	0.6	4.3	1840.3	758.9	0.2	5.2
21	1855.5	1071.9	i 0.5	4.5	1839.6	745.9	0.2	6.1
22	1855.2	1065.1	i 0.5	4.5	1839.1	736.6	0.2	5.4
23	1854.8	1056.1	i 0.5	4.4	1838.6	727.3	0.2	5.4
24	1854.5	1049.4	i 0.5	4.4	1838.0	716.3	0.2	5.4
25	1852.3	1000.8	i 0.5	25.0	1837.5	707.2	0.2	5.4
26	1851.9	992.1	0.4	4.6	1836.9	696.3	0.2	5.4
27	1851.5	983.5	0.4	4.6	1836.3	685.4	0.2	5.5
28	1851.1	974.9	0.4	4.6	1835.7	674.6	0.2	5.5
29	1850.8	968.4	0.4	4.5	1835.1	663.9	0.2	5.5
30	1850.4	959.9	0.3	4.3	1834.6	655.0	0.2	4.9
31					1834.1	646.2	0.2	4.6
TOTAL			20.1	154.8			6.7	164.9
Inf. Ac. Ft.			39.9				13.3	
Outf. Ac. Ft.				307.0				327.1
Maximum Mean Daily Inflow			1.0				0.3	
Minimum Mean Daily Inflow			0.3				0.2	
Storage Change			-(267.1 + *157.2)				-313.7	
REMARKS								

Day	AUGUST Gage Height	AUGUST Acre Ft. Storage	AUGUST C.F.S. Inflow	AUGUST C.F.S. Outflow	SEPTEMBER Gage Height	SEPTEMBER Acre Ft. Storage	SEPTEMBER C.F.S. Inflow	SEPTEMBER C.F.S. Outflow
1	1833.6	637.4	0.2	4.5	1812.1	312.6	0.1	5.9
2	1833.1	628.7	0.2	4.5	1811.2	301.6	0.1	5.8
3	1832.6	619.9	0.2	4.5	1810.3	290.9	0.1	5.9
4	1832.1	611.2	0.2	4.5	1809.4	280.3	0.1	5.9
5	1831.6	602.6	0.2	4.5	1808.4	268.8	0.1	5.9
6	1831.1	594.0	0.2	4.5	1807.4	257.5	0.1	5.8
7	1830.6	585.5	0.2	4.5	1806.4	246.4	0.1	5.7
8	1830.2	578.7	0.2	4.5	1805.3	234.4	0.1	5.7
9	1829.7	570.3	0.2	4.5	1804.3	223.8	0.1	5.6
10	1829.2	561.9	0.2	4.6	1803.2	212.3	0.1	5.4
11	1828.7	553.5	0.2	4.6	1802.4	204.1	0.05	4.5
12	1828.2	545.2	0.2	4.7	1802.4	204.1	0.05	0.5
13	1827.5	533.8	0.2	5.9	1802.5	205.1	0.05	0.1
14	1826.7	520.8	0.2	6.4	1802.5	205.1	0.05	0.1
15	1826.0	509.5	0.2	5.7	1802.3	203.1	0.05	0.8
16	1825.3	498.4	0.2	5.8	1801.7	197.0	0.05	3.1
17	1824.5	485.9	0.2	5.8	1800.9	189.0	0.05	4.0
18	1823.8	475.0	0.2	5.9	1800.2	182.2	0.05	3.9
19	1823.1	464.3	0.2	6.0	1799.4	174.4	0.05	3.8
20	1822.4	453.7	0.2	5.9	1798.6	166.8	0.05	3.7
21	1821.6	441.8	0.2	5.8	1797.7	158.4	0.05	3.7
22	1820.8	430.0	0.2	6.1	1796.9	151.0	0.05	3.6
23	1820.0	418.3	0.2	6.1	1796.1	143.7	0.05	3.6
24	1819.2	406.8	0.2	6.1	1795.3	136.6	0.05	3.6
25	1818.3	394.0	0.2	6.0	1794.5	129.6	0.05	3.6
26	1817.5	382.9	0.2	6.0	1793.7	122.7	0.05	3.6
27	1816.6	370.6	0.2	6.0	1792.9	115.9	0.05	3.6
28	1815.7	358.5	0.2	6.0	1792.0	108.4	0.05	3.6
29	1814.8	346.7	0.2	6.1	1791.2	101.9	0.05	3.6
30	1814.0	336.4	0.2	6.0	1790.3	94.8	0.05	3.5
31	1813.1	325.1	0.1	6.0				
TOTAL			6.1	168.0			2.0	118.1
Inf. Ac. Ft.			12.1				4.0	1920.5
Outf. Ac. Ft.				333.2			234.2	2032.5
Maximum Mean Daily Inflow			0.2				0.1	47.5
Minimum Mean Daily Inflow			0.1				0.05	0.05
Storage Change			-321.1				-230.3	-(112.1+*157.2)
REMARKS								Yearly Totals

Max. W. S. Elev.	1865.1	feet	on 5/18/42	Storage	1460.5	Acre Feet		
Min. W. S. Elev.	1790.3	feet	on 9/30/42	Storage	94.8	Acre Feet		
Max. Peak Inf.	85.0	C.F.S. from	2:30 A.M.	on 12/29/41	to 3:00 A.M.	on 12/29/41		
Max. Peak Outf.	97.0	C.F.S. from	4:00 A.M.	on 7/15/42	to 5:00 A.M.	on 7/15/42		

RECORDS COLLECTED BY		COMPUTATIONS	Date
E. K. De Vore	Dam Tender	Gage Hts. copied	H.A.V.
J. W. Luce	Hydrographer	Storage applied	H.A.V.
	Hydrographer	Inf. & Outf. computed	H.A.V. 7/14/42
		Checked	L.T.

Gage heights and storage as of midnight on day shown.

(= Mean for period.
() = Total monthly percolation and evaporation loss.
* = Storage corrected to survey of October, 1942. Debris loss = 157.2 A.F. at elevation 1262.1.
i = Interpolated.

BIG TUJUNGA

F. C. Dist. Form 68 Revised 800 5/39

Storages based on L.A.C.F.C.D. Survey of July, 1941 (Table V)

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of BIG TUJUNGA Dam No.1.

In Big Tujunga Canyon for the Year Ending September 30, 1942

Drainage Area 81.4 Square Miles. Capacity of Reservoir 4424.7 Ac. Ft. at Spillway Elev. 2290.0 Ft.

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow
1	2224.6	1015.6	6.2	15.5	2212.6	691.2	10.9	14.6
2	2223.9	995.2	6.2	15.5	2212.3	683.8	10.9	14.6
3	2223.2	975.1	6.2	15.5	2211.0	652.2	10.9	25.0
4	2222.6	958.0	6.2	15.5	2209.3	612.2	10.8	32.0
5	2222.0	940.9	6.2	15.5	2207.7	575.7	10.8	30.0
6	2221.4	924.0	7.2	15.4	2206.1	540.6	10.3	28.0
7	2220.9	910.0	7.3	15.4	2204.3	502.6	10.4	28.0
8	2220.3	893.3	7.3	15.4	2202.6	468.4	10.4	28.0
9	2219.7	876.7	7.3	15.4	2200.9	435.7	10.3	28.0
10	2219.1	860.2	7.3	15.5	2198.4	390.4	9.2	32.0
11	2218.5	843.9	7.4	15.6	2195.5	341.5	10.3	35.0
12	2218.0	830.3	9.0	15.8	2192.6	296.5	11.3	34.0
13	2217.5	817.0	9.1	15.9	2189.4	252.5	11.0	33.0
14	2217.0	803.6	9.0	16.0	2186.2	212.9	10.9	31.0
15	2216.5	790.5	9.0	16.1	2185.1	200.0	10.9	17.4
16	2215.9	774.7	9.0	16.2	2184.9	197.7	11.0	12.2
17	2215.3	759.2	8.1	15.9	2183.5	182.1	10.9	18.8
18	2214.8	746.3	9.1	15.6	2181.5	161.0	10.9	22.1
19	2214.4	736.2	10.3	15.4	2179.7	143.0	10.9	19.4
20	2214.1	728.5	11.3	15.2	2178.3	129.6	11.0	17.7
21	2214.0	726.0	13.8	15.0	2177.2	119.5	10.9	16.0
22	2214.0	726.0	14.8	14.8	2176.8	115.9	11.0	12.8
23	2213.9	723.5	13.5	14.8	2177.2	119.5	11.0	9.2
24	2213.9	723.5	14.8	14.8	2177.6	123.2	10.6	8.7
25	2213.8	721.0	13.4	14.7	2178.3	129.6	10.5	7.3
26	2213.6	716.0	12.1	14.6	2180.3	148.9	10.5	1.1
27	2213.6	716.0	14.6	14.6	2182.2	168.2	10.5	1.1
28	2213.5	713.5	13.4	14.6	2183.8	185.3	10.4	1.1
29	2213.3	708.5	12.0	14.6	2185.5	204.7	10.8	1.1
30	2213.1	703.5	12.1	14.6	2187.3	226.1	11.8	1.0
31	2212.9	698.5	12.1	14.6				
TOTAL			305.3	474.0			322.0	560.2
Inf. Ac. Ft.			605.6				638.7	
Outf. Ac. Ft.				940.2				1111.1
Maximum Mean Daily Inflow			14.8				11.8	
Minimum Mean Daily Inflow			6.2				9.2	
Storage Change			-334.6				-472.4	
REMARKS								

Day	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow
1	2188.9	246.0	11.0	1.0	2223.8	992.4	32.4	47.0
2	2190.4	265.7	11.0	1.0	2222.5	955.2	27.2	46.0
3	2192.6	296.5	16.5	1.0	2221.2	918.4	27.5	46.0
4	2194.4	323.8	14.8	1.0	2219.8	879.4	26.3	46.0
5	2195.8	346.3	12.3	1.0	2218.3	838.4	24.3	45.0
6	2197.1	368.0	11.9	1.0	2217.9	827.6	21.6	27.0
7	2198.3	388.7	11.5	1.0	2218.1	833.0	20.3	17.6
8	2199.5	410.0	11.7	1.0	2218.3	838.4	20.3	17.6
9	2200.6	430.2	11.2	1.0	2218.5	843.9	20.1	17.3
10	2205.9	536.3	54.5	1.0	2218.7	849.3	19.8	17.1
11	2209.4	614.5	40.4	1.0	2218.9	854.7	19.5	16.8
12	2211.4	661.9	24.9	1.0	2219.0	857.4	18.0	16.6
13	2212.9	698.5	19.5	1.0	2219.0	857.4	16.6	16.3
14	2214.3	733.6	18.7	1.0	2219.1	860.2	16.5	16.1
15	2215.5	764.4	16.5	1.0	2219.1	860.2	16.5	15.8
16	2216.6	793.1	13.9	1.0	2219.0	857.4	15.8	16.0
17	2216.9	801.0	13.9	8.4	2219.0	857.4	15.8	16.3
18	2216.9	801.0	13.4	13.4	2219.0	857.4	15.8	16.5
19	2216.9	801.0	13.2	13.2	2218.8	852.0	14.0	16.7
20	2216.9	801.0	13.0	13.0	2218.6	846.6	14.1	16.9
21	2217.1	806.3	15.5	12.8	2218.4	841.1	14.5	17.2
22	2217.3	811.6	15.3	12.6	2218.3	838.4	16.0	17.4
23	2217.7	822.3	17.8	12.4	2218.2	835.7	15.9	17.3
24	2217.9	827.6	14.9	12.2	2218.1	833.0	16.0	17.3
25	2218.2	835.7	16.0	12.0	2218.0	830.3	15.8	17.2
26	2218.4	841.1	14.7	11.9	2217.9	827.6	15.8	17.1
27	2218.7	849.3	16.0	11.9	2217.8	825.0	15.6	17.0
28	2220.0	884.9	29.8	11.9	2217.6	819.6	14.3	17.0
29	2224.1	1001.0	70.5	11.9	2217.4	814.3	14.3	16.9
30	2225.5	1042.0	51.7	31.0	2217.2	808.9	14.1	16.9
31	2224.8	1021.4	36.6	47.0	2217.0	803.6	14.3	16.9
TOTAL			652.6	251.6			569.0	678.8
Inf. Ac. Ft.			1294.4				1128.6	3667.3
Outf. Ac. Ft.				499.0			1346.4	3896.7
Maximum Mean Daily Inflow			70.5				32.4	70.5
Minimum Mean Daily Inflow			11.0				14.0	6.2
Storage Change			+795.3				-217.8	-229.5
REMARKS								½ Year

Max. W. S. Elev.	2253.6	feet	on 5/6/42	Storage	2131.2	Acre Feet		
Min. W. S. Elev.	2176.7	feet	on 11/22/41	Storage	115.0	Acre Feet		
Max. Peak Inf.	134.0	C.F.S. from	5:00 P.M.	on 12/10/41	to 6:00 P.M.	on 12/10/41		
Max. Peak Outf.	47.0 c.f.s. to 45.0	C.F.S. from	11:00 A.M.	on 12/30/41	to 8:00 A.M.	on 1/6/42		

RECORDS COLLECTED BY		COMPUTATIONS	Date
D. J. Robertson	Dam Tender	Gage Hts. copied	G.H.M. 8/3/42
L. J. Turner	Hydrographer	Storage applied	H.A.V. 9/18/42
	Hydrographer	Inf. & Outf. computed	H.A.V. 9/18/42
		Checked	L.T. 10/13/42

Gage heights and storage as of midnight on day shown.

(= Mean for period.
Note: Outflows based on valve operation records and measurements at Station 168.

BIG TUJUNGA (CONT.)

F. C. Dist. Form 68 Revised 600 5/39

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of BIG TUJUNGA Dam No. 1

In ~~On~~ Big Tujunga Canyon for the Year Ending September 30, 19 42

Continuous Water Stage Recorder All

Drainage Area 81.4 Square Miles. Capacity of Reservoir 4424.7 Ac. Ft. at Spillway Elev. 2290.0 Ft.

Gage Heights Read Daily

Day	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	2216.8	7983	13.7	16.9	2221.1	9156	15.0	19.2	2239.6	15165	10.1	7.9	2252.8	20920	11.0	6.9	1
2	2216.5	7905	13.7	16.9	2220.8	9072	14.9	19.2	2239.0	14934	10.1	19.7	2253.0	21017	10.8	5.9	2
3	2216.3	7852	13.7	16.9	2220.5	8989	14.3	19.2	2238.5	14746	10.0	19.7	2253.2	21115	10.5	5.9	3
4	2216.0	7773	13.7	16.9	2220.1	8877	14.3	19.2	2239.0	14934	17.0	7.7	2253.4	21213	10.2	5.9	4
5	2216.1	7799	13.7	12.8	2220.5	8989	14.0	8.4	2239.7	15204	15.3	1.7	2253.6	21312	10.2	5.9	5
6	2216.5	7905	13.0	7.7	2221.3	9212	13.7	2.4	2240.3	15437	13.5	1.7	2253.6	21312	10.0	10.6	6
7	2216.9	8010	12.4	7.1	2222.1	9438	13.8	2.4	2240.9	15673	12.8	1.7	2253.4	21213	10.0	13.6	7
8	2217.2	8089	11.5	7.1	2222.8	9637	12.4	2.4	2241.2	15792	12.0	5.2	2253.2	21115	9.8	13.6	8
9	2217.6	8196	11.5	7.1	2223.5	9838	12.5	2.4	2241.7	15992	11.8	1.7	2253.0	21017	9.8	13.6	9
10	2217.9	8276	11.5	7.1	2224.2	10039	12.6	2.4	2242.4	16275	15.9	1.7	2252.9	20969	9.7	13.6	10
11	2218.2	8357	11.5	7.1	2225.1	10302	15.6	2.4	2243.2	16603	18.3	1.7	2252.8	20920	9.7	13.6	11
12	2218.5	8439	11.5	7.2	2225.9	10538	14.3	2.4	2243.9	16894	16.4	1.7	2252.6	20824	9.6	13.6	12
13	2218.8	8520	11.5	7.3	2226.6	10747	13.0	2.4	2244.5	17148	14.6	1.8	2252.5	20776	9.6	13.6	13
14	2219.1	8602	11.4	7.4	2227.7	11080	19.1	2.3	2245.3	17488	18.9	1.8	2252.3	20679	9.4	13.6	14
15	2219.4	8684	11.4	7.5	2228.8	11419	19.4	2.3	2245.9	17747	14.9	1.8	2252.2	20631	9.4	12.0	15
16	2219.7	8767	11.6	7.6	2229.8	11733	18.1	2.3	2246.5	18010	15.0	1.8	2252.3	20679	9.0	7.4	16
17	2220.0	8849	11.6	7.7	2230.8	12053	18.3	2.2	2247.3	18363	19.6	1.8	2252.4	20727	8.7	9.6	17
18	2220.2	8905	11.6	7.8	2231.7	12346	17.0	2.2	2247.9	18630	15.3	1.8	2252.2	20631	8.4	12.3	18
19	2220.5	8989	11.7	7.8	2232.5	12612	15.6	2.2	2248.4	18856	13.2	1.8	2252.0	20534	8.1	11.5	19
20	2220.8	9072	11.7	7.8	2233.2	12847	14.1	2.2	2248.8	19037	11.0	1.9	2251.8	20439	7.8	11.0	20
21	2221.8	9353	22.0	7.8	2233.9	13086	13.8	2.2	2249.3	19266	13.4	1.9	2251.7	20391	7.3	11.0	21
22	2222.8	9637	32.9	18.6	2234.5	13294	13.8	2.2	2249.9	19543	15.9	1.9	2251.6	20344	6.9	8.4	22
23	2222.4	9523	20.3	26.0	2235.2	13539	13.8	2.2	2250.4	19777	13.7	1.9	2251.6	20344	6.5	5.3	23
24	2222.2	9466	18.1	21.0	2235.8	13753	13.0	2.2	2250.8	19964	11.3	1.9	2251.7	20391	6.2	5.3	24
25	2222.0	9409	17.1	19.2	2236.4	13969	12.6	2.2	2251.2	20153	11.5	1.9	2251.7	20391	6.1	5.3	25
26	2221.9	9381	17.0	19.2	2236.9	14151	12.6	2.2	2251.6	20344	11.5	1.9	2251.8	20439	6.1	5.3	26
27	2221.7	9325	16.4	19.2	2237.5	14372	12.6	2.2	2252.0	20534	11.5	1.9	2251.8	20439	6.1	5.3	27
28	2221.4	9240	14.9	19.2	2238.0	14557	11.6	2.2	2252.2	20631	11.0	6.1	2251.8	20439	6.1	5.3	28
29					2238.5	14746	11.1	2.2	2252.4	20727	12.5	7.7	2251.9	20486	6.1	5.3	29
30					2239.0	14934	11.1	2.2	2252.7	20872	12.3	5.0	2251.9	20486	6.1	5.3	30
31					2239.4	15088	11.1	2.2					2251.9	20486	6.1	5.3	31
TOTAL			402.6	341.9			439.1	144.3			410.3	118.7			261.3	280.8	
Inf. Ac. Ft.			7985				8709				8138				5183	66688	
Outf. Ac. Ft.				6781				2862				2354			5570	56534	
Maximum Mean Daily Inflow			329				194				196				110	705	
Minimum Mean Daily Inflow			114				111				100				61	61	
Storage Change			+1204				+5848				+578.4				-38.6	+1015.5	
REMARKS																	½ Year

Max. W. S. Elev.	2253.6	feet on 5/6/42	Storage 2131.2	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	Date
Min. W. S. Elev.	2176.7	feet on 11/22/41	Storage 115.0	Acre Feet	D. J. Robertson	Dam Tender	Gage Hts. copied	G.H.M. 8/3/42
Max. Peak Inf.	134.0	C. F. S. from 5:00 P.M. on 12/10/41 to 6:00 P.M. on 12/10/41			L. J. Turner	Hydrographer	Storage applied	H.A.V. 9/18/42
Max. Peak Outf.	47.0c.f.s. to 45.0	C. F. S. from 11:00 A.M. on 12/30/41 to 8:00 A.M. on 1/6/42				Hydrographer	Inf. & Outf. computed	H.A.V. 9/18/42
Gage heights and storage as of midnight on day shown.							Checked	L.T. 10/13/42

(= Mean for period.
Note: Outflows as indicated by records at Station 168.

F. C. Dist. Form 68 Revised 600 5/39

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of BIG TUJUNGA Dam No. 1

In ~~On~~ Big Tujunga Canyon for the Year Ending September 30, 19 42

Continuous Water Stage Recorder All

Drainage Area 81.4 Square Miles. Capacity of Reservoir 4424.7 Ac. Ft. at Spillway Elev. 2290.0 Ft.

Gage Heights Read Daily

Day	JUNE Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JULY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	2251.9	20486	6.0	5.3	2249.7	19451	1.6	5.3	2243.8	16853	0.9	5.3	2230.6	11989	1.1	10.6	1
2	2251.9	20486	6.0	5.3	2249.5	19359	1.8	5.3	2243.5	16728	0.9	5.3	2230.0	11796	1.1	10.6	2
3	2252.0	20534	5.8	5.3	2249.4	19312	1.6	5.3	2243.3	16645	0.9	5.3	2229.5	11639	1.1	10.6	3
4	2252.0	20534	5.6	5.3	2249.2	19220	1.5	5.3	2243.1	16562	0.9	5.3	2228.9	11450	1.1	10.6	4
5	2252.0	20534	5.5	5.3	2249.0	19128	1.2	5.3	2242.9	16479	0.9	5.3	2228.3	11264	1.1	10.6	5
6	2251.9	20486	5.4	5.3	2248.8	19037	1.1	5.3	2242.7	16398	0.9	5.3	2227.7	11080	1.1	10.5	6
7	2251.9	20486	5.1	5.3	2248.6	18947	1.1	5.3	2242.5	16316	0.8	5.3	2227.1	10897	1.1	10.4	7
8	2251.9	20486	4.9	5.3	2248.4	18856	1.1	5.3	2242.3	16234	0.8	5.3	2226.5	10717	1.1	10.3	8
9	2251.9	20486	4.7	5.3	2248.2	18766	1.1	5.3	2242.2	16194	3.4	5.4	2225.9	10538	1.1	10.2	9
10	2251.8	20439	4.4	5.3	2248.0	18675	1.1	5.3	2242.4	16275	9.6	5.5	2225.3	10361	1.1	10.1	10
11	2251.8	20439	4.2	5.3	2247.8	18586	1.1	5.3	2242.3	16234	3.3	5.4	2224.7	10185	1.1	10.1	11
12	2251.8	20439	4.0	5.3	2247.6	18497	1.1	5.3	2242.1	16153	2.5	5.3	2224.1	10010	1.1	10.1	12
13	2251.7	20391	3.8	5.3	2247.5	18452	1.1	5.3	2241.8	16032	2.0	9.4	2223.5	9838	1.1	10.1	13
14	2251.7	20391	3.6	5.3	2247.3	18363	1.1	5.3	2241.3	15832	1.7	11.0	2222.9	9666	1.1	10.1	14
15	2251.6	20344	3.3	5.3	2247.1	18274	1.1	5.3	2240.8	15633	1.5	11.0	2222.3	9495	1.1	10.1	15
16	2251.6	20344	3.2	5.3	2246.9	18185	1.1	5.3	2240.3	15437	1.4	11.0	2221.7	9325	1.1	10.1	16
17	2251.5	20296	3.1	5.3	2246.7	18097	1.1	5.3	2239.8	15242	1.3	12.2	2220.5	8989	1.1	17.9	17
18	2251.4	20248	2.9	5.3	2246.5	18010	1.1	5.3	2239.2	15011	1.3	13.3	2219.1	8602	1.1	21.0	18
19	2251.3	20201	2.7	5.3	2246.4	17966	1.1	5.3	2238.6	14783	1.3	13.3	2217.7	8223	1.1	20.7	19
20	2251.1	20106	2.6	5.3	2246.2	17878	1.1	5.3	2238.0	14557	1.3	13.3	2216.2	7846	1.1	20.4	20
21	2251.0	20058	2.6	5.3	2246.0	17790	1.0	5.3	2237.3	14298	1.2	13.3	2214.7	7438	1.1	20.0	21
22	2250.9	20011	2.5	5.3	2245.8	17704	1.0	5.3	2236.7	14078	1.2	11.8	2213.3	7085	1.1	19.7	22
23	2250.8	19964	2.5	5.3	2245.6	17618	1.0	5.3	2236.1	13860	1.2	11.8	2211.8	6716	1.1	19.3	23
24	2250.6	19877	2.4	5.3	2245.4	17531	1.0	5.3	2235.5	13646	1.2	11.8	2210.2	6332	1.1	18.9	24
25	2250.5	19824	2.3	5.3	2245.2	17445	1.0	5.3	2234.9	13433	1.1	11.8	2208.7	5984	1.1	18.7	25
26	2250.4	19777	2.2	5.3	2245.0	17359	1.0	5.3	2234.2	13190	1.1	11.8	2207.1	5624	1.1	18.4	26
27	2250.3	19730	2.1	5.3	2244.8	17274	1.0	5.3	2233.6	12984	1.1	11.8	2205.5	5278	1.1	18.1	27
28	2250.1	19636	2.0	5.3	2244.6	17190	1.0	5.3	2233.0	12779	1.1	11.8	2203.9	4944	1.1	17.9	28
29	2250.0	19589	1.9	5.3	2244.4	17105	1.0	5.3	2232.4	12578	1.1	11.8	2202.2	4605	1.0	17.6	29
30	2249.8	19497	1.8	5.3	2244.2	17021	0.9	5.3	2231.8	12379	1.1	11.8	2200.5	4283	1.0	17.3	30
31					2244.0	16936	0.9	5.3	2231.2	12182	1.1	11.8					31
TOTAL			109.1	159.0			35.2	164.3			50.1	289.8			32.8	431.0	
Inf. Ac. Ft.			2164				698				994				651	71195	
Outf. Ac. Ft.				3154				3259				5748			8549	77244	
Maximum Mean Daily Inflow			6.0				1.8				9.6				1.1	705	
Minimum Mean Daily Inflow			1.8				0.9				0.8				1.0	0.8	
Storage Change			-989				-2561				-475.4				-789.9	-604.8	
REMARKS																	Yearly Totals

Max. W. S. Elev.	2253.6	feet on 5/6/42	Storage 2131.2	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	Date
Min. W. S. Elev.	2176.7	feet on 11/22/41	Storage 115.0	Acre Feet	D. J. Robertson	Dam Tender	Gage Hts. copied	H.A.V.
Max. Peak Inf.	134.0	C. F. S. from 5:00 P.M. on 12/10/41 to 6:00 P.M. on 12/10/41			L. J. Turner	Hydrographer	Storage applied	H.A.V.
Max. Peak Outf.	47.0c.f.s. to 45.0	C. F. S. from 11:00 A.M. on 12/30/41 to 8:00 A.M. on 1/6/42				Hydrographer	Inf. & Outf. computed	H.A.V. 10/8/42
Gage heights and storage as of midnight on day shown.							Checked	L.T. 10/13/42

(= Mean for period.
Note: Outflows based on valve operation records and measurements for Station 168.

DEVIL'S GATE

F. C. Dist. Form 68 Revised 600 5/39

Storages based on L.A.C.F.C.D. Survey Of January, 1942 (Table IV)

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In Arroyo Seco for the Year Ending September 30, 1942

Drainage Area 30.6 Square Miles. Capacity of Reservoir 2728.3 Ac. Ft. at Spillway Elev. 1054.0 Ft.

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow
1	1025.1	°373.4	0	0	1023.5	302.7	0	0
2	1025.0	368.8	0	0	1023.5	302.7	0	0
3	1024.9	364.3	0	0	1023.4	298.4	0	0
4	1024.8	359.9	0	0	1023.3	294.1	0	0
5	1024.7	355.4	0	0	1023.3	294.1	0	0
6	1024.6	350.9	0	0	1023.2	289.8	0	0
7	1024.5	346.4	0	0	1023.1	285.5	0	0
8	1024.5	346.4	0	0	1023.1	285.5	0	0
9	1024.4	342.0	0	0	1023.0	281.2	0	0
10	1024.3	337.5	0	0	1022.9	277.1	0	0
11	1024.2	333.0	0	0	1022.9	277.1	0	0
12	1024.2	333.0	0	0	1022.8	273.0	0	0
13	1024.1	328.6	0	0	1022.7	268.9	0	0
14	1024.1	328.6	0	0	1022.7	268.9	0	0
15	1024.0	324.1	0	0	1022.6	264.8	0	0
16	1023.9	319.8	0	0	1022.5	260.7	0	0
17	1023.8	315.5	0	0	1022.5	260.7	0	0
18	1023.8	315.5	0	0	1022.4	256.6	0	0
19	1023.7	311.2	0	0	1022.3	252.5	0	0
20	1023.6	306.9	0	0	1022.2	248.4	0	0
21	1023.7	311.2	3.7	0	1022.2	248.4	0	0
22	1023.7	311.2	1.5	0	1022.1	244.3	0	0
23	1023.8	315.5	3.6	0	1022.1	244.3	0	0
24	1023.9	319.8	3.7	0	1022.0	240.2	0	0
25	1023.9	319.8	1.5	0	1022.0	240.2	0	0
26	1023.9	319.8	1.5	0	1021.9	236.3	0	0
27	1023.9	319.8	1.5	0	1021.9	236.3	0	0
28	1023.8	315.5	0	0	1021.8	232.4	0	0
29	1023.7	311.2	0	0	1021.8	232.4	0	0
30	1023.7	311.2	0	0	1021.8	232.4	0	0
31	1023.6	306.9	0	0				
TOTAL			17.0	0			0	0
Inf. Ac. Ft.			33.7				0	
Outf. Ac. Ft.				0+(104.9)				0+(74.6)
Maximum Mean Daily Inflow			3.7				0	
Minimum Mean Daily Inflow			0				0	
Storage Change			°-71.2				-74.5	

Day	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height*	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow
1	1021.7	228.5	0	0	1023.0	281.2	8.5	12.0
2	1021.7	228.5	0	0	1022.5	260.7	2.2	11.8
3	1021.8	232.4	3.0	0	1021.9	236.3	0	11.5
4	1021.8	232.4	1.0	0	1021.3	213.0	0	10.9
5	1021.7	228.5	0	0	1021.2	209.1	0	2.2
6	1021.7	228.5	0	0	1021.1	205.2	0	0
7	1021.6	224.6	0	0	1021.1	205.2	0	0
8	1021.2	209.1	0	7.9	1021.1	205.2	0	0
9	1020.2	172.0	0.6	18.5	1021.0	201.3	0	0
10	1023.8	315.5	90.7	17.4	1021.0	201.3	0	0
11	1023.6	306.9	13.8	17.2	1020.9	197.6	0	0
12	1023.0	281.2	E 4.5	16.6	1020.9	197.6	0	0
13	1022.4	256.6	4.5	16.0	1020.8	194.0	0	0
14	1021.7	228.5	{ 2.9	15.2	1020.8	194.0	0	0
15	1021.1	205.2	{ 2.8	14.6	1020.8	194.0	0	0
16	1020.5	183.0	{ 2.6	14.0	1020.7	190.3	0	0
17	1019.8	157.9	{ 2.6	13.3	1020.7	190.3	0	0
18	1019.2	137.5	{ 1.9	12.6	1020.6	186.7	0	0
19	1018.9	127.6	{ 1.9	4.6	1020.5	183.0	0	0
20	1018.9	127.6	0.8	0	1020.5	183.0	0	0
21	1018.8	124.5	0	0	1020.5	183.0	0	0
22	1018.8	124.5	0	0	1020.5	183.0	0	0
23	1018.8	124.5	0.8	0	1020.4	179.3	0	0
24	1018.8	124.5	0.8	0	1020.4	179.3	0	0
25	1018.9	127.6	2.4	0	1020.3	175.7	0	0
26	1018.9	127.6	0.8	0	1020.3	175.7	0	0
27	1018.9	127.6	0.8	0	1020.2	172.0	0	0
28	1020.0	164.7	19.5	0	1020.2	172.0	0	0
29	1021.7	228.5	32.9	0	1020.1	168.4	0	0
30	1023.0	281.2	27.4	0	1020.1	168.4	0	0
31	1023.2	289.8	12.1	7.0	1020.0	164.7	0	0
TOTAL			231.1	174.9			10.7	48.4
Inf. Ac. Ft.			458.4				21.2	513.3
Outf. Ac. Ft.				346.9+(54.1)			96.0+(50.4)	442.9+(284.0)
Maximum Mean Daily Inflow			90.7				8.5	90.7
Minimum Mean Daily Inflow			0				0	0
Storage Change			+57.4				-125.1	°213.4
								½ Year

REMARKS

Max. W. S. Elev.	1025.2	feet	on 10/1/41	Storage	378.1	Acre Feet		
Min. W. S. Elev.	1012.5	feet	on 9/30/42	Storage	4.0	Acre Feet		
Max. Peak Inf.	479.	C.F.S. from 2:00 P.M.	on 12/10/41	to	2:30 P.M.	on 12/10/41		
Max. Peak Outf.	27.0	C.F.S. from 4:00 P.M.	on 12/8/41	to	12:00 Noon	on 12/9/41		

RECORDS COLLECTED BY		COMPUTATIONS	Date
A. E. Marshall	Dam Tender	Gage Hts. copied	G.H.M. 7/1/42
P. A. Haig	Hydrographer	Storage applied	G.H.M. 7/2/42
	Hydrographer	Inf. & Outf. computed	7/3/42 G.H.M.
		Checked	L.T. 9/21/42

Gage heights and storages as of midnight on day shown.

{ = Mean for period.
E = Estimated.
() = Total monthly percolation and evaporation loss.
° = Storages corrected for 152.8 A.F. Debris loss beginning 10/1/41.
Note: Outflows based on measurements and valve operation records.

F. C. Dist. Form 68 Revised 600 5/39

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In Arroyo Seco for the Year Ending September 30, 1942

Drainage Area 30.6 Square Miles. Capacity of Reservoir 2728.3 Ac. Ft. at Spillway Elev. 1054.0 Ft.

Continuous Water Stage Recorder Au

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	1020.0	164.7	0	0	1020.4	179.3	0	0
2	1020.0	164.7	0	0	1020.4	179.3	0	0
3	1019.9	161.3	0	0	1020.4	179.3	0	0
4	1019.9	161.3	0	0	1020.3	175.7	0	0
5	1019.8	157.9	0	0	1020.3	175.7	0	0
6	1019.8	157.9	0	0	1020.2	172.0	0	0
7	1019.7	154.5	0	0	1020.2	172.0	0	0
8	1019.7	154.5	0	0	1020.1	168.4	0	0
9	1019.6	151.1	0	0	1020.1	168.4	0	0
10	1019.6	151.1	0	0	1020.0	164.7	0	0
11	1019.5	147.7	0	0	1020.1	168.4	2.7	0
12	1019.5	147.7	0	0	1020.1	168.4	0.9	0
13	1019.4	144.3	0	0	1020.0	164.7	0	0
14	1019.4	144.3	0	0	1020.5	183.0	9.2	0
15	1019.3	140.9	0	0	1020.7	190.3	4.6	0
16	1019.3	140.9	0	0	1020.6	186.7	0	0
17	1019.2	137.5	0	0	1020.6	186.7	0	0
18	1019.2	137.5	0	0	1020.5	183.0	0	0
19	1019.2	137.5	0	0	1020.5	183.0	0	0
20	1019.1	134.1	0	0	1020.4	179.3	0	0
21	1019.8	157.9	12.8	0	1020.3	175.7	0	0
22	1020.7	190.3	17.1	0	1020.3	175.7	0	0
23	1020.7	190.3	1.0	0	1020.2	172.0	0	0
24	1020.7	190.3	0.6	0	1020.2	172.0	0	0
25	1020.6	186.7	0	0	1020.1	168.4	0	0
26	1020.6	186.7	0	0	1020.1	168.4	0	0
27	1020.5	183.0	0	0	1020.0	164.7	0	0
28	1020.5	183.0	0	0	1020.0	164.7	0	0
29					1019.9	161.3	0	0
30					1019.9	161.3	0	0
31					1019.8	157.9	0	0
TOTAL			31.5	0 (22.3)			17.4	0 (30.0)
Inf. Ac. Ft.			62.5				34.5	
Outf. Ac. Ft.				0+(44.2)				0+(59.5)
Maximum Mean Daily Inflow			17.1				9.2	
Minimum Mean Daily Inflow			0				0	
Storage Change			+18.3				-25.1	

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
1	1019.8	157.9	0	0	1019.9	161.3	0	0
2	1019.7	154.5	0	0	1019.8	157.9	0	0
3	1019.7	154.5	1.3	0	1019.8	157.9	0	0
4	1019.9	161.3	4.5	0	1019.7	154.5	0	0
5	1019.9	161.3	0	0	1019.6	151.1	0	0
6	1019.9	161.3	°° { 1.8	0	1019.6	151.1	0	0
7	1019.9	161.3	°° { 1.8	0	1019.5	147.7	0	0
8	1020.0	164.7	°° { 1.8	0	1019.5	147.7	0	0
9	1020.0	164.7	°° { 1.8	0	1019.4	144.3	0	0
10	1020.1	168.4	3.0	0	1019.3	140.9	0	0
11	1020.1	168.4	1.1	0	1019.3	140.9	0	0
12	1020.0	164.7	0	0	1019.2	137.5	0	0
13	1020.0	164.7	0	0	1019.2	137.5	0	0
14	1020.3	175.7	6.7	0	1019.1	134.1	0	0
15	1020.3	175.7	0.3	0	1019.1	134.1	0	0
16	1020.2	172.0	0	0	1019.0	130.7	0	0
17	1020.5	183.0	6.9	0	1019.0	130.7	0	0
18	1020.4	179.3	0	0	1018.9	127.6	0	0
19	1020.4	179.3	0	0	1018.9	127.6	0	0
20	1020.3	175.7	0	0	1018.8	124.5	0	0
21	1020.4	179.3	3.0	0	1018.7	121.4	0	0
22	1020.4	179.3	1.2	0	1018.7	121.4	0	0
23	1020.3	175.7	0	0	1018.6	118.3	0	0
24	1020.2	172.0	0	0	1018.6	118.3	0	0
25	1020.2	172.0	0	0	1018.5	115.2	0	0
26	1020.1	168.4	0	0	1018.5	115.2	0	0
27	1020.1	168.4	0	0	1018.4	112.1	0	0
28	1020.0	164.7	0	0	1018.3	109.0	0	0
29	1020.0	164.7	0	0	1018.3	109.0	0	0
30	1019.9	161.3	0	0	1018.2	105.9	0	0
31					1018.2	105.9	0	0
TOTAL			35.2	0 (33.5)			0	0 (27.9)
Inf. Ac. Ft.			69.8				0	680.1
Outf. Ac. Ft.				0+(66.4)			0+(55.3)	442.9+(509.4)
Maximum Mean Daily Inflow			6.9				0	90.7
Minimum Mean Daily Inflow			0				0	0
Storage Change			+3.4				-55.4	°-272.2
								⅔ Year

REMARKS

Max. W. S. Elev.	1025.2	feet	on 10/1/41	Storage	378.1	Acre Feet		
Min. W. S. Elev.	1012.5	feet	on 9/30/42	Storage	4.0	Acre Feet		
Max. Peak Inf.	479.	C.F.S. from 2:00 P.M.	on 12/10/41	to	2:30 P.M.	on 12/10/41		
Max. Peak Outf.	27.0	C.F.S. from 4:00 P.M.	on 12/8/41	to	12:00 Noon	on 12/9/41		

RECORDS COLLECTED BY		COMPUTATIONS	Date
A. E. Marshall	Dam Tender	Gage Hts. copied	H.A.V.
P. A. Haig	Hydrographer	Storage applied	H.A.V.
	Hydrographer	Inf. & Outf. computed	H.A.V. 10/13/42
		Checked	L.T. 10/19/42

Gage heights and storages as of midnight on day shown.

°° = Flow from Canyon due to pipe line repairs by City of Pasadena.
{ = Mean for period.
() = Total monthly percolation and evaporation loss.

DEVIL'S GATE (CONT.)

F. C. Dist. Form 68 Revised 500 5/39

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In Arroyo Seco for the Year Ending September 30, 1942

Drainage Area 30.6 Square Miles. Capacity of Reservoir 2728.3 Ac. Ft. at Spillway Elev. 1054.0 Ft.

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	JUNE Gage Height	JUNE Acre Ft. Storage	JUNE C.F.S. Inflow	JUNE C.F.S. Outflow	JULY Gage Height	JULY Acre Ft. Storage	JULY C.F.S. Inflow	JULY C.F.S. Outflow	AUGUST Gage Height	AUGUST Acre Ft. Storage	AUGUST C.F.S. Inflow	AUGUST C.F.S. Outflow	SEPTEMBER Gage Height	SEPTEMBER Acre Ft. Storage	SEPTEMBER C.F.S. Inflow	SEPTEMBER C.F.S. Outflow	Day
1	1018.1	102.8	0	0	1016.6	62.4	0	0	1015.0	28.2	0	0	1014.1	15.1	0	0	1
2	1018.1	102.8	0	0	1016.5	60.0	0	0	1014.9	26.7	0	0	1014.0	13.6	0	0	2
3	1018.0	99.7	0	0	1016.5	60.0	0	0	1014.9	26.7	0	0	1014.0	13.6	0	0	3
4	1018.0	99.7	0	0	1016.4	57.6	0	0	1014.8	25.3	0	0	1013.9	12.8	0	0	4
5	1017.9	96.9	0	0	1016.4	57.6	0	0	1014.8	25.3	0	0	1013.9	12.8	0	0	5
6	1017.9	96.9	0	0	1016.3	55.2	0	0	1014.7	23.8	0	0	1013.8	12.0	0	0	6
7	1017.8	94.2	0	0	1016.3	55.2	0	0	1014.7	23.8	0	0	1013.8	12.0	0	0	7
8	1017.8	94.2	0	0	1016.2	52.8	0	0	1014.6	22.4	0	0	1013.7	11.2	0	0	8
9	1017.7	91.4	0	0	1016.2	52.8	0	0	1014.8	25.3	1.8	0	1013.7	11.2	0	0	9
10	1017.7	91.4	0	0	1016.1	50.4	0	0	1015.1	30.2	2.9	0	1013.6	10.4	0	0	10
11	1017.6	88.6	0	0	1016.1	50.4	0	0	1015.0	28.2	0	0	1013.6	10.4	0	0	11
12	1017.6	88.6	0	0	1016.0	48.0	0	0	1015.0	28.2	0	0	1013.5	9.6	0	0	12
13	1017.5	85.8	0	0	1016.0	48.0	0	0	1014.9	26.7	0	0	1013.5	9.6	0	0	13
14	1017.5	85.8	0	0	1015.9	46.0	0	0	1014.9	26.7	0	0	1013.4	8.8	0	0	14
15	1017.4	83.1	0	0	1015.8	44.0	0	0	1014.8	25.3	0	0	1013.4	8.8	0	0	15
16	1017.4	83.1	0	0	1015.8	44.0	0	0	1014.8	25.3	0	0	1013.3	8.0	0	0	16
17	1017.3	80.3	0	0	1015.7	42.1	0	0	1014.7	23.8	0	0	1013.3	8.0	0	0	17
18	1017.3	80.3	0	0	1015.7	42.1	0	0	1014.7	23.8	0	0	1013.2	7.2	0	0	18
19	1017.2	77.5	0	0	1015.6	40.1	0	0	1014.6	22.4	0	0	1013.2	7.2	0	0	19
20	1017.2	77.5	0	0	1015.6	40.1	0	0	1014.6	22.4	0	0	1013.1	6.4	0	0	20
21	1017.1	74.8	0	0	1015.5	38.1	0	0	1014.6	22.4	0	0	1013.0	5.6	0	0	21
22	1017.1	74.8	0	0	1015.5	38.1	0	0	1014.5	20.9	0	0	1013.0	5.6	0	0	22
23	1017.0	72.0	0	0	1015.4	36.1	0	0	1014.5	20.9	0	0	1012.9	5.3	0	0	23
24	1017.0	72.0	0	0	1015.4	36.1	0	0	1014.4	19.4	0	0	1012.9	5.3	0	0	24
25	1016.9	69.6	0	0	1015.3	34.1	0	0	1014.4	19.4	0	0	1012.8	5.0	0	0	25
26	1016.9	69.6	0	0	1015.3	34.1	0	0	1014.3	18.0	0	0	1012.8	5.0	0	0	26
27	1016.8	67.2	0	0	1015.2	32.2	0	0	1014.3	18.0	0	0	1012.7	4.6	0	0	27
28	1016.8	67.2	0	0	1015.2	32.2	0	0	1014.2	16.5	0	0	1012.7	4.6	0	0	28
29	1016.7	64.8	0	0	1015.1	30.2	0	0	1014.2	16.5	0	0	1012.6	4.3	0	0	29
30	1016.6	62.4	0	0	1015.1	30.2	0	0	1014.2	16.5	0	0	1012.5	4.0	0	0	30
31					1015.0	28.2	0	0	1014.1	15.1	0	0					31
TOTAL			0	0			0	0			4.7	0			0	0	
Inf. Ac. Ft.			0				0				9.3				0	689.4	
Outf. Ac. Ft.				0+(43.4)				0+(34.1)				0+(22.4)				0+(11.1)	442.9+(620.4)
Maximum Mean Daily Inflow			0				0				2.9				0	90.7	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			-43.5				-34.2				-13.1				-11.1	-374.1	
REMARKS																Yearly Totals	

Max. W. S. Elev. 1025.2 feet on 10/1/41 Storage 378.1 Acre Feet
Min. W. S. Elev. 1012.5 feet on 9/30/42 Storage 4.0 Acre Feet
Max. Peak Inf. 479. C.F.S. from 2:00 P.M. on 12/10/41 to 2:30 P.M. on 12/10/41
Max. Peak Outf. 27.0 C.F.S. from 4:00 P.M. on 12/8/41 to 12:00 Noon on 12/9/41
Gage heights and storages as of midnight on day shown.

RECORDS COLLECTED BY
A. E. Marshall — Dam Tender
P. A. Haig — Hydrographer
Hydrographer

COMPUTATIONS — Date
Gage Hts. copied H.A.V.
Storage applied H.A.V.
Inf. & Outf. computed H.A.V. 10/13/42
Checked L.T. 10/19/42

() = Total monthly percolation and evaporation loss.

EATON WASH

F. C. Dist. Form 68 Revised 500 5/39

Storages based on U.SE.D. Survey of August, 1941 (Table VI)

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

On Eaton Wash for the Year Ending September 30, 1942

Drainage Area 9.48 Square Miles. Capacity of Reservoir 681 Ac. Ft. at Spillway Elev. 887.5 Ft.

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	Day
1									842±	0	0	0	855.9	41.9	0	0	1
2									842±	0	0	0	855.7	40.4	0	0	2
3									842±	0	0	0	855.4	38.2	0	0	3
4									842±	0	0	0	855.1	35.9	0	0	4
5									842±	0	0	0	854.8	33.9	0	0	5
6									842±	0	0	0	854.5	32.0	0	0	6
7									842±	0	0	0	854.2	30.0	0	0	7
8									842±	0	0	0	854.0	28.7	0	0	8
9									842±	0	0	0	853.8	27.6	0	0	9
10									852.7	22.0	11.1	0	853.5	26.0	0	0	10
11									852.7	22.0	0	0	853.3	24.9	0	0	11
12									852.3	20.2	0	0	853.0	23.3	0	0	12
13									851.9	18.4	0	0	852.8	22.4	0	0	13
14									851.6	17.4	0	0	852.5	21.1	0	0	14
15									851.3	16.3	0	0	852.3	20.2	0	0	15
16	Reservoir Dry	No Storage	No Flow	No Flow	Reservoir Dry	No Storage	No Flow	No Flow	851.0	15.2	0	0	852.1	19.3	0	0	16
17									850.6	14.0	0	0	851.8	18.1	0	0	17
18									850.3	13.0	0	0	851.6	17.4	0	0	18
19									850.0	12.1	0	0	851.3	16.3	0	0	19
20									849.7	11.3	0	0	851.0	15.2	0	0	20
21									849.4	10.5	0	0	850.7	14.3	0	0	21
22									849.2	10.0	0	0	850.4	13.3	0	0	22
23									848.9	9.3	0	0	850.1	12.4	0	0	23
24									848.7	8.8	0	0	849.9	11.8	0	0	24
25									848.6	8.6	0	0	849.6	11.1	0	0	25
26									848.4	8.2	0	0	849.3	10.3	0	0	26
27									848.2	7.7	0	0	849.1	9.8	0	0	27
28									851.7	17.7	5.6	0	848.9	9.3	0	0	28
29									855.1	35.9	10.2	0	848.7	8.8	0	0	29
30									856.4	45.8	6.2	0	848.4	8.2	0	0	30
31									856.2	44.2	0.4	0	848.2	7.7	0	0	31
TOTAL			0	0			0	0			33.5	0			0	0	
Inf. Ac. Ft.			0				0				66.4				0	66.4	
Outf. Ac. Ft.				0				0				0+(22.2)				0+(36.5)	0+(58.7)
Maximum Mean Daily Inflow			0				0				1.1				0	11.1	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			0				0				+44.2				-36.5	+7.7	
REMARKS																½ Year	

Max. W. S. Elev. 856.5 feet on 12/31/41 Storage 46.6 Acre Feet
Min. W. S. Elev. Dry feet on Various time Storage 0 Acre Feet
Max. Peak Inf. 73. C.F.S. from 2:30 P.M. on 12/10/41 to 3:00 P.M. on 12/10/41
Max. Peak Outf. No valve discharge ~~C.F.S. from~~ during — entire — year —
Gage heights and storage as of midnight on day shown.

RECORDS COLLECTED BY
R. A. Waddicor — Dam Tender
P. A. Haig — Hydrographer
Hydrographer

COMPUTATIONS — Date
Gage Hts. copied G.H.M.
Storage applied G.H.M.
Inf. & Outf. computed G.H.M. 7/14/42
Checked L.T. 10/27/42

() = Total monthly loss due to evaporation, percolation, and leakage.

EATON WASH (CONT.)

F. C. Dist. Form 68 Revised 600 5/39

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In / On Eaton Wash for the Year Ending September 30, 1942

Continuous Water Stage Recorder Au

Drainage Area 9.48 Square Miles. Capacity of Reservoir 681 Ac. Ft. at Spillway Elev. 887.5 Ft.

Gage Heights Read Daily

Day	FEBRUARY Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	MARCH Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	APRIL Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	MAY Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	Day
1	848.0	7.2	0	0	847.6	6.5	0	0	845.2	2.6	0	0	843.4	0.8			1
2	847.8	6.9	0	0	847.5	6.3	0	0	845.1	2.4	0	0	843.3	0.8			2
3	847.6	6.5	0	0	847.3	5.9	0	0	845.0	2.3	0	0	843.2	0.7			3
4	847.4	6.1	0	0	847.1	5.5	0	0	845.0	2.3	0.05	0	843.1	0.6			4
5	847.3	5.9	0	0	847.0	5.3	0	0	844.9	2.2	0	0	843.0	0.6			5
6	847.1	5.5	0	0	846.8	5.0	0	0	844.8	2.1	0.05	0	842.8	0.5			6
7	846.9	5.1	0	0	846.6	4.6	0	0	844.8	2.1	0	0	842.7	0.4			7
8	846.8	5.0	0	0	846.5	4.5	0	0	844.7	2.0	0	0	842.6	0.4			8
9	846.6	4.6	0	0	846.4	4.3	0	0	844.6	1.9	0	0	842.5	0.4			9
10	846.5	4.5	0	0	846.2	4.0	0	0	844.6	1.9	0.05	0	842.4	0.3			10
11	846.4	4.3	0	0	846.1	3.8	0	0	844.8	2.1	0.2	0	842.3	0.3			11
12	846.2	4.0	0	0	846.0	3.6	0	0	844.7	2.0	0	0	842.2	0.2			12
13	846.1	3.8	0	0	845.9	3.5	0	0	844.6	1.9	0	0					13
14	846.0	3.6	0	0	847.5	6.3	1.6	0	844.6	1.9	0	0					14
15	845.9	3.5	0	0	847.4	6.1	0.1	0	844.5	1.8	0	0					15
16	845.8	3.4	0	0	847.2	5.7	0	0	844.4	1.7	0	0	Small Pool	Storage Negligible	No Flow	No Flow	16
17	845.7	3.2	0	0	847.1	5.5	0	0	844.4	1.7	0.05	0					17
18	845.6	3.1	0	0	846.9	5.1	0	0	844.3	1.6	0	0					18
19	845.5	3.0	0	0	846.8	5.0	0	0	844.2	1.5	0	0					19
20	845.4	2.8	0	0	846.6	4.6	0	0	844.1	1.4	0	0					20
21	846.0	3.6	0.5	0	846.5	4.5	0	0	844.1	1.4	0.05	0	842.0				21
22	848.7	8.8	3.0	0	846.4	4.3	0	0	844.0	1.3	0.05	0					22
23	848.7	8.8	0.3	0	846.2	4.0	0	0	844.0	1.3	0	0					23
24	848.5	8.4	0	0	846.1	3.8	0	0	843.9	1.2	0	0					24
25	848.3	7.9	0	0	846.0	3.6	0	0	843.8	1.1	0	0					25
26	848.2	7.7	0	0	845.9	3.5	0	0	843.7	1.0	0	0	Reservoir Dry	No Storage			26
27	848.0	7.2	0	0	845.8	3.4	0	0	843.6	1.0	0	0					27
28	847.8	6.9	0	0	845.6	3.1	0	0	843.6	1.0	0	0					28
29					845.5	3.0	0	0	843.5	0.9	0	0					29
30					845.4	2.8	0	0	843.4	0.8	0	0					30
31					845.3	2.7	0	0									31
TOTAL			3.8	0			1.7	0			0.5	0			0	0	
Inf. Ac. Ft.			7.5				3.4				1.0				0	78.3	
Outf. Ac. Ft.				0+(8.3)				0+(7.5)				0+(3.0)			0+(0.8)	0+(78.3)	
Maximum Mean Daily Inflow			3.0				1.6				0.2				0	11.1	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			-0.8				-4.2				-1.9				-0.8	0	

REMARKS — % Year

Max. W. S. Elev.	856.5	feet	on 12/13/41	Storage	46.6	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS Date
Min. W. S. Elev.	Dry	feet	on Various times	Storage	0	Acre Feet	R. A. Waddicor	Dam Tender	Gage Hts. copied H.A.V.
Max. Peak Inf.	73.	C. F. S. from	2:30 P.M. on 12/10/41	to	3:00 P.M.	on 12/10/41	P. A. Haig	Hydrographer	Storage applied H.A.V.
Max. Peak Outf.	No valve discharge ~~C. F. S. from~~ during		— entire	to	year	—		Hydrographer	Inf. & Outf. computed H.A.V. 10/19/42
Gage heights and storage as of midnight on day shown.									Checked L.T. 10/27/42

(= Mean for period.
() = Total monthly percolation and evaporation loss.

F. C. Dist. Form 68 Revised 600 5/39

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In / On Eaton Wash for the Year Ending September 30, 1942

Continuous Water Stage Recorder Au

Drainage Area 9.48 Square Miles. Capacity of Reservoir 681 Ac. Ft. at Spillway Elev. 887.5 Ft.

Gage Heights Read Daily

Day	JUNE Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	JULY Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	Day
1																	1
2																	2
3																	3
4																	4
5																	5
6																	6
7																	7
8																	8
9																	9
10																	10
11																	11
12																	12
13																	13
14								RESERVOIR DRY									14
15																	15
16								DURING THIS PERIOD									16
17																	17
18								NO FLOW.									18
19																	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.																78.3	
Outf. Ac. Ft.																0+(78.3)	
Maximum Mean Daily Inflow																11.1	
Minimum Mean Daily Inflow																0	
Storage Change																0	

REMARKS — Yearly Totals

Max. W. S. Elev.	856.5	feet	on 12/31/41	Storage	46.6	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS Date
Min. W. S. Elev.	Dry	feet	on Various times	Storage	0	Acre Feet	R. A. Waddicor	Dam Tender	Gage Hts. copied G.H.M.
Max. Peak Inf.	73.	C. F. S. from	2:30 P.M. on 12/10/41	to	3:00 P.M.	on 12/10/41	P. A. Haig	Hydrographer	Storage applied G.H.M.
Max. Peak Outf.	No valve discharge ~~C. F. S. from~~ during		— entire	to	year	—		Hydrographer	Inf. & Outf. computed G.H.M. 7/14/42
Gage heights and storage as of midnight on day shown.									Checked L.T. 10/27/42

BIG SANTA ANITA

F. C. Dist. Form 66 Revised 600 5/29

Storages based on L.A.S.F.C.D. Survey of February, 1940 (Table V)

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In / On Santa Anita Canyon for the Year Ending September 30, 1942

Continuous Water Stage Recorder: Au

Drainage Area 10.8 Square Miles. Capacity of Reservoir 710.4 Ac. Ft. at Spillway Elev. 1316.0 Ft.

Gage Heights: Read Daily

Day	OCTOBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	NOVEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	DECEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JANUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1276.2	297.8	2.8	5.0	1265.6	219.7	3.6	5.1	1268.2	237.5	3.0	2.3	1264.4	211.8	7.1	13.1	1
2	1275.7	293.8	2.7	4.8	1265.3	217.7	3.4	5.1	1268.4	238.9	3.0	2.3	1264.2	210.5	6.5	7.2	2
3	1275.1	289.1	2.7	4.8	1265.5	219.0	3.4	3.2	1268.8	241.8	4.9	3.4	1264.2	210.5	5.8	5.7	3
4	1274.6	285.2	2.8	4.8	1265.8	221.0	3.3	1.8	1268.6	240.4	4.5	5.2	1264.1	209.9	5.6	5.7	4
5	1274.1	281.3	2.8	4.8	1265.9	221.6	3.3	2.5	1268.7	241.1	3.8	3.5	1264.3	211.2	5.4	5.0	5
6	1273.7	278.2	3.0	4.8	1265.9	221.6	3.3	3.1	1268.6	240.4	3.5	3.8	1264.5	212.5	5.2	4.5	6
7	1273.3	275.1	3.0	4.8	1265.8	221.0	3.3	3.1	1268.5	239.7	3.4	3.8	1264.6	213.1	4.8	4.5	7
8	1272.8	271.3	3.0	5.1	1265.8	221.0	3.2	3.2	1268.4	238.9	3.4	3.8	1264.6	213.1	4.5	4.5	8
9	1272.2	266.7	3.0	5.1	1265.7	220.3	3.2	3.2	1268.4	238.9	3.7	3.7	1265.1	216.4	4.2	3.0	9
10	1271.6	262.2	3.0	5.1	1265.7	220.3	3.1	3.3	1272.1	266.0	17.4	3.7	1265.2	217.0	4.2	3.5	10
11	1271.0	257.7	3.0	5.0	1265.7	220.3	3.1	3.3	1273.0	272.8	9.6	6.2	1265.2	217.0	3.6	3.5	11
12	1270.6	254.8	3.6	5.0	1265.7	220.3	3.4	3.4	1272.5	269.0	6.1	8.0	1265.2	217.0	3.6	3.5	12
13	1270.1	251.1	3.1	5.0	1265.7	220.3	3.4	3.4	1271.8	263.7	5.1	7.8	1265.2	217.0	3.5	3.5	13
14	1269.6	247.5	3.1	4.9	1265.6	219.7	3.2	3.5	1271.2	259.2	5.3	7.6	1265.3	217.7	3.5	3.4	14
15	1269.1	243.9	3.1	4.9	1265.6	219.7	3.5	3.5	1270.5	254.1	4.9	7.4	1265.4	218.3	3.5	3.1	15
16	1268.5	239.7	2.7	4.9	1265.6	219.7	3.6	3.6	1269.9	249.7	4.3	7.3	1265.6	219.7	3.6	3.1	16
17	1267.8	234.7	2.4	4.9	1265.6	219.7	3.6	3.6	1269.3	245.4	4.2	5.6	1265.7	220.3	3.6	3.1	17
18	1267.1	229.8	2.4	4.9	1265.6	219.7	3.7	3.7	1268.8	241.8	3.6	4.7	1265.9	221.6	3.6	3.1	18
19	1266.7	227.1	3.6	4.9	1265.7	220.3	3.5	3.2	1269.0	243.2	3.6	3.2	1266.0	222.3	3.6	3.1	19
20	1266.7	227.1	4.9	4.9	1265.9	221.6	1 3.4	2.7	1269.2	244.6	3.6	3.3	1266.2	223.7	3.5	3.1	20
21	1266.7	227.1	4.9	4.9	1266.2	223.7	1 3.4	2.3	1269.5	246.8	E 3.6	2.5	1266.3	224.3	3.5	2.9	21
22	1266.8	227.7	5.6	5.3	1266.6	226.4	1 3.3	2.0	1269.8	249.0	E 3.6	2.5	1266.5	225.7	3.6	2.9	22
23	1266.9	228.4	5.6	5.3	1267.0	229.1	3.2	1.8	1270.3	252.6	E 4.0	2.2	1266.6	226.4	3.4	2.9	23
24	1267.0	229.1	5.7	5.3	1267.1	229.8	2.9	2.6	1270.6	254.8	4.2	3.3	1266.8	227.7	3.4	2.9	24
25	1267.0	229.1	5.2	5.2	1267.2	230.5	2.9	2.5	1270.8	256.2	4.1	3.2	1266.9	228.4	3.4	2.9	25
26	1266.9	228.4	4.8	5.2	1267.3	231.2	2.8	2.4	1270.6	254.8	5.8	6.5	1267.0	229.1	3.2	2.9	26
27	1266.8	227.7	4.9	5.2	1267.5	232.6	2.9	2.3	1269.4	246.1	4.5	8.9	1267.1	229.8	3.3	2.9	27
28	1266.7	227.1	4.8	5.1	1267.6	233.3	2.8	2.3	1269.3	245.4	8.6	8.9	1267.2	230.5	3.2	2.9	28
29	1266.5	225.7	4.4	5.1	1267.8	234.7	2.9	2.3	1272.1	266.0	25.4	15.0	1267.3	231.2	3.3	3.1	29
30	1266.2	223.7	4.1	5.1	1268.0	236.1	3.0	2.3	1269.7	248.2	12.2	21.2	1267.3	231.2	3.3	3.1	30
31	1265.9	221.6	4.0	5.1					1266.2	223.7	8.8	21.2	1267.4	231.9	3.4	3.1	31
TOTAL			114.7	155.2			97.6	90.3			185.7	192.0			125.9	121.7	
Inf. Ac. Ft.			227.5				193.6				368.3				249.7	1039.1	
Outf. Ac. Ft.				307.8				179.1				380.8			241.4	1109.1	
Maximum Mean Daily Inflow			5.7				3.7				25.4				7.1	25.4	
Minimum Mean Daily Inflow			2.4				2.8				3.0				3.2	2.4	
Storage Change			-80.3				+14.5				-12.4				+8.2	-70.0	
REMARKS																½ Year	

Max. W. S. Elev.	1304.5 feet May and June, 1942	Storage 570.9 Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS Date
Min. W. S. Elev.	1264.0 feet on 1/2/42	Storage 209.2 Acre Feet	J. R. Probst	Dam Tender	Gage Hts. copied H.A.V.
Max. Peak Inf.	53.0 C.F.S. from 1:00 A.M. on 12/29/41	to 2:00 A.M. on 12/29/41	P. A. Haig	Hydrographer	Storage applied H.A.V.
Max. Peak Outf.	30.5 C.F.S. from 2:00 P.M. on 12/29/41	to 4:30 P.M. on 12/29/41		Hydrographer	Inf. & Outf. computed H.A.V. 12/14/42
Gage heights and storage as of midnight on day shown.					Checked L.T. 1/6/43

[= Mean for period.
E = Estimated.
1 = Interpolated.
Note: Outflows based on valve operation records, weir readings, and measurements.

F. C. Dist. Form 66 Revised 600 5/29

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In / On Santa Anita Canyon for the Year Ending September 30, 1942

Continuous Water Stage Recorder: Au

Drainage Area 10.8 Square Miles. Capacity of Reservoir 710.4 Ac. Ft. at Spillway Elev. 1316.0 Ft.

Gage Heights: Read Daily

Day	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1267.4	231.9	3.2	3.1	1271.3	260.0	3.0	3.0	1282.1	347.0	2.6	1.7	1301.8	540.5	3.0	1.6	1
2	1267.4	231.9	3.2	3.1	1271.4	260.7	3.0	2.9	1282.2	347.8	2.6	1.7	1302.0	542.7	3.0	1.6	2
3	1267.5	232.6	3.2	3.1	1271.4	260.7	3.0	2.8	1282.5	350.5	2.6	1.7	1302.2	544.9	2.8	1.6	3
4	1267.5	232.6	3.2	2.9	1271.4	260.7	3.0	2.8	1283.4	358.3	5.6	1.7	1302.4	547.2	2.8	1.8	4
5	1267.6	233.3	3.1	3.0	1271.6	262.2	3.0	2.4	1283.8	361.8	3.5	1.7	1302.6	549.4	2.7	2.0	5
6	1267.6	233.3	3.1	3.0	1271.8	263.7	2.8	2.0	1284.3	366.3	3.1	0.8	1302.7	550.5	2.7	1.9	6
7	1267.7	234.0	3.1	3.0	1272.1	266.0	2.8	2.0	1285.0	372.5	3.1	• 0.2	1302.8	551.7	2.7	2.0	7
8	1267.7	234.0	3.1	3.0	1272.3	267.5	2.8	1.9	1285.6	378.0	3.1	0.2	1302.9	552.8	2.7	2.0	8
9	1267.7	234.0	3.1	3.0	1272.5	269.0	2.8	1.9	1286.2	383.4	3.0	0.2	1303.0	553.9	2.7	2.0	9
10	1267.7	234.0	3.0	3.0	1272.8	271.3	3.0	1.8	1286.9	389.8	3.4	0.2	1303.2	556.2	2.7	1.9	10
11	1267.7	234.0	3.0	3.0	1273.4	275.9	4.0	1.7	1287.7	397.1	3.9	0.2	1303.3	557.3	2.7	1.9	11
12	1267.7	234.0	3.2	3.2	1273.9	279.7	3.9	2.0	1288.4	403.7	3.5	0.2	1303.5	559.6	2.7	1.9	12
13	1267.7	234.0	3.2	3.2	1274.3	282.8	3.6	2.0	1289.0	409.3	3.0	0.2	1303.6	560.7	2.6	1.8	13
14	1267.7	234.0	3.2	3.2	1275.2	289.9	5.6	2.0	1290.2	420.6	5.9	0.2	1303.7	561.8	2.5	1.9	14
15	1267.7	234.0	3.2	3.2	1276.3	298.6	6.4	2.0	1291.1	429.3	4.6	0.2	1303.8	562.9	2.5	1.9	15
16	1267.7	234.0	3.0	3.2	1276.9	303.5	4.4	2.0	1291.9	437.0	4.1	0.2	1303.9	564.1	2.5	2.0	16
17	1267.8	234.7	3.0	3.2	1277.5	308.4	4.2	2.0	1292.8	445.9	4.7	0.2	1304.0	565.2	2.5	2.0	17
18	1267.8	234.7	3.0	3.0	1278.0	312.4	4.2	1.9	1293.6	453.9	4.2	0.2	1304.1	566.3	2.4	2.0	18
19	1267.7	234.0	2.9	2.9	1278.5	316.6	4.0	1.9	1294.3	460.9	3.7	0.2	1304.1	566.3	2.4	2.0	19
20	1267.6	233.3	2.9	2.9	1278.9	319.9	3.6	1.9	1295.0	467.9	3.8	0.2	1304.2	567.5	2.4	1.9	20
21	1268.3	238.2	5.4	2.9	1279.3	323.2	3.6	1.9	1295.9	477.2	4.9	0.2	1304.2	567.5	2.2	2.0	21
22	1270.0	250.4	9.0	2.9	1279.6	325.7	3.0	1.8	1296.7	485.5	4.3	0.2	1304.2	567.5	2.2	2.0	22
23	1270.4	253.3	4.5	3.0	1279.9	328.2	3.1	1.8	1297.5	493.9	4.5	0.2	1304.3	568.6	2.2	2.0	23
24	1270.7	255.5	4.1	3.0	1280.2	330.7	3.0	1.8	1298.1	500.3	3.4	0.2	1304.3	568.6	2.2	2.0	24
25	1270.9	257.0	3.8	3.0	1280.5	333.3	2.9	1.7	1298.7	506.7	3.4	0.2	1304.4	569.8	2.2	1.9	25
26	1271.1	258.5	4.0	3.3	1280.8	335.8	2.9	1.8	1299.3	513.1	3.5	0.2	1304.4	569.8	2.0	1.8	26
27	1271.2	259.2	3.6	3.2	1281.0	337.5	2.9	1.8	1299.9	519.6	3.4	0.2	1304.5	570.9	2.0	1.7	27
28	1271.3	260.0	3.5	3.1	1281.3	340.1	2.9	1.8	1300.5	526.2	3.6	0.2	1304.5	570.9	2.0	1.9	28
29					1281.5	341.8	2.9	1.8	1301.1	532.7	3.4	• 0.2	1304.5	570.9	2.0	2.0	29
30					1281.7	343.5	2.7	1.8	1301.5	537.2	3.2	0.9	1304.5	570.9	2.0	2.0	30
31					1281.9	345.2	2.7	1.8					1304.5	570.9	2.0	2.0	31
TOTAL			99.8	85.6			105.7	67.7			111.6	14.8			76.0	59.0	
Inf. Ac. Ft.			198.0				209.7				221.4				150.7	1818.9	
Outf. Ac. Ft.				169.8				124.4				29.4			117.0	1549.7	
Maximum Mean Daily Inflow			9.0				6.4				5.9				3.0	25.4	
Minimum Mean Daily Inflow			2.9				2.7				2.6				2.0	2.0	
Storage Change			+28.1				+85.2				+192.0				+33.7	+269.0	
REMARKS																½ Year	

Max. W. S. Elev.	1304.5 feet May and June, 1942	Storage 570.9 Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS Date
Min. W. S. Elev.	1264.0 feet on 1/2/42	Storage 209.2 Acre Feet	J. R. Probst	Dam Tender	Gage Hts. copied H.A.V.
Max. Peak Inf.	53.0 C.F.S. from 1:00 A.M. on 12/29/41	to 2:00 A.M. on 12/29/41	P. A. Haig	Hydrographer	Storage applied H.A.V.
Max. Peak Outf.	30.5 C.F.S. from 2:00 P.M. on 12/29/41	to 4:30 P.M. on 12/29/41		Hydrographer	Inf. & Outf. computed H.A.V. 12/14/42
Gage heights and storage as of midnight on day shown.					Checked L.T. 1/6/43

[= Mean for period.
• = Valves closed, flow = gate leakage, etc.

BIG SANTA ANITA (CONT.)

F. C. Dist. Form 68 Revised 600 5/29

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In ~~On~~ Santa Anita Canyon for the Year Ending September 30, 1942

Continuous Water Stage Recorder Au

Drainage Area 10.8 Square Miles. Capacity of Reservoir 710.4 Ac. Ft. at Spillway Elev. 1316.0 Ft.

Gage Heights Read Daily

Day	JUNE Gage Height	JUNE Acre Ft. Storage	JUNE C.F.S. Inflow	JUNE C.F.S. Outflow	JULY Gage Height	JULY Acre Ft. Storage	JULY C.F.S. Inflow	JULY C.F.S. Outflow	AUGUST Gage Height	AUGUST Acre Ft. Storage	AUGUST C.F.S. Inflow	AUGUST C.F.S. Outflow	SEPTEMBER Gage Height	SEPTEMBER Acre Ft. Storage	SEPTEMBER C.F.S. Inflow	SEPTEMBER C.F.S. Outflow	Day
1	1304.5	570.9	2.0	2.0	1302.5	548.3	1.1	2.1	1295.6	474.1	0.8	2.1	1279.4	324.0	1.0	2.4	1
2	1304.5	570.9	2.0	2.0	1302.3	546.1	1.1	2.1	1295.3	471.0	0.7	2.1	1279.0	320.7	1.0	2.4	2
3	1304.5	570.9	2.0	1.9	1302.2	544.9	1.1	2.1	1295.1	468.9	0.8	2.1	1278.7	318.2	1.0	2.4	3
4	1304.5	570.9	2.0	2.0	1302.0	542.7	1.1	2.1	1294.8	465.9	0.7	2.1	1278.3	314.9	1.0	2.4	4
5	1304.5	570.9	1.9	2.0	1301.8	540.5	1.1	2.1	1294.5	462.9	0.8	2.1	1278.0	312.4	0.9	2.4	5
6	1304.5	570.9	1.9	2.0	1301.6	538.3	1.0	2.2	1294.3	460.9	0.8	2.1	1277.6	309.2	0.7	2.3	6
7	1304.5	570.9	1.9	2.0	1301.4	536.0	1.0	2.2	1294.0	457.9	0.8	2.1	1277.2	305.9	0.7	2.3	7
8	1304.5	570.9	1.9	2.0	1301.2	533.8	1.0	2.2	1293.7	454.9	0.8	2.1	1276.8	302.7	0.7	2.2	8
9	1304.5	570.9	1.8	2.0	1300.9	530.5	0.9	2.2	1293.5	452.9	0.8	2.0	1276.4	299.4	0.7	2.2	9
10	1304.4	569.8	1.8	1.9	1300.7	528.3	0.9	2.2	1293.3	450.9	1.1	2.0	1276.1	297.0	0.6	2.2	10
11	1304.4	569.8	1.9	2.0	1300.5	526.2	1.0	2.2	1293.1	448.9	0.9	2.0	1275.7	293.8	0.7	2.2	11
12	1304.4	569.8	1.9	2.0	1300.3	524.0	1.0	2.2	1292.9	446.9	0.9	2.0	1275.3	290.7	0.7	2.2	12
13	1304.4	569.8	1.9	2.0	1300.1	521.8	1.0	2.2	1292.6	443.9	0.9	2.0	1274.9	287.5	0.7	2.2	13
14	1304.4	569.8	1.9	2.0	1299.9	519.6	1.0	2.2	1292.4	442.0	0.9	2.0	1274.5	284.4	0.6	2.3	14
15	1304.3	568.6	1.8	2.0	1299.6	516.4	1.0	2.2	1292.2	440.0	0.9	2.0	1274.1	281.3	0.6	2.3	15
16	1304.3	568.6	1.7	1.9	1299.4	514.2	1.0	2.2	1292.0	438.0	0.9	2.1	1273.7	278.2	0.7	2.3	16
17	1304.2	567.5	1.7	2.0	1299.2	512.1	1.0	2.2	1291.7	435.1	0.8	2.1	1273.3	275.1	0.7	2.3	17
18	1304.1	566.3	1.6	2.1	1299.0	509.9	1.0	2.2	1291.5	433.2	0.8	2.1	1272.8	271.3	0.7	2.3	18
19	1304.0	565.2	1.5	2.1	1298.8	507.8	1.0	2.2	1291.2	430.2	0.8	2.1	1272.4	268.2	0.7	2.3	19
20	1303.9	564.1	1.4	2.0	1298.5	504.6	1.0	2.1	1290.9	427.3	0.8	2.1	1272.0	265.2	0.6	2.3	20
21	1303.8	562.9	1.3	2.0	1298.3	502.4	1.0	2.1	1290.3	421.6	0.9	4.0	1271.6	262.2	0.6	2.3	21
22	1303.7	561.8	1.3	2.0	1298.1	500.3	0.9	2.1	1289.2	411.2	0.8	5.9	1271.1	258.5	0.6	2.3	22
23	1303.6	560.7	1.3	2.0	1297.8	497.1	0.9	2.1	1288.1	400.8	0.8	5.9	1270.6	254.8	0.6	2.3	23
24	1303.4	558.4	1.3	2.0	1297.6	495.0	0.9	2.1	1287.0	390.7	0.8	5.9	1270.1	251.1	0.6	2.3	24
25	1303.3	557.3	1.3	2.0	1297.4	492.8	0.8	2.1	1285.9	380.7	0.8	5.9	1269.7	248.2	0.6	2.4	25
26	1303.2	556.2	1.4	2.0	1297.1	489.7	0.7	2.1	1284.8	370.7	0.9	6.1	1269.2	244.6	0.7	2.4	26
27	1303.1	555.0	1.3	2.0	1296.9	487.6	0.7	2.1	1283.6	360.1	0.9	6.4	1268.7	241.1	0.7	2.4	27
28	1302.9	552.8	1.3	2.0	1296.6	484.4	0.7	2.1	1282.3	348.7	0.9	6.4	1268.3	238.2	0.8	2.4	28
29	1302.8	551.7	1.3	2.0	1296.4	482.4	0.7	2.1	1281.0	337.5	0.9	6.4	1267.8	234.7	0.8	2.4	29
30	1302.7	550.5	1.3	2.0	1296.1	479.2	0.7	2.1	1280.0	329.0	0.9	5.1	1267.4	231.9	0.8	2.4	30
31					1295.8	476.1	0.7	2.1	1279.7	326.5	1.0	2.4					31
TOTAL			49.6	59.9			29.0	66.5			26.3	101.7			21.8	69.5	
Inf. Ac. Ft.			98.4				57.5				52.2				43.2	207.2	
Outf. Ac. Ft.				118.8				131.9				201.7			137.9	214.0	
Maximum Mean Daily Inflow			2.0				1.1				1.1				1.0	25.4	
Minimum Mean Daily Inflow			1.3				0.7				0.7				0.6	0.6	
Storage Change			-20.4				-74.4				-149.6				-94.6	-70.0	

REMARKS — Yearly Totals

Max. W. S. Elev. 1304.5 feet May and June, 1942 Storage 570.9 Acre Feet
Min. W. S. Elev. 1264.0 feet on 1/2/42 Storage 269.2 Acre Feet
Max. Peak Inf. 53.0 C. F. S. from 1:00 A.M. on 12/29/41 to 2:30 A.M. on 12/29/41
Max. Peak Outf. 30.5 C. F. S. from 2:00 P.M. on 12/29/41 to 4:30 P.M. on 12/29/41

Gage heights and storage as of midnight of day shown.

RECORDS COLLECTED BY
J. R. Probst — Dam Tender
P. A. Haig — Hydrographer
Hydrographer

COMPUTATIONS — Date
Gage Hts. copied H.A.V.
Storage applied H.A.V.
Inf. & Outf. computed H.A.V. 12/14/42
Checked L.T. 1/6/43

[= Mean for period.

SAWPIT

F. C. Dist. Form 68 Revised 600 5/29

Storages based on L.A.C.F.C.D. Survey of May, 1941 (Table V)

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of SAWPIT Dam

In ~~On~~ Sawpit Canyon for the Year Ending September 30, 1942

Continuous Water Stage Recorder Au

Drainage Area 3.3 Square Miles. Capacity of Reservoir 342.3 Ac. Ft. at Spillway Elev. 1360.0 Ft.

Gage Heights Read Daily

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	Day
1	1258.0	0	0.1	0.1	1266.3	1.2	0.06	0	1274.4	4.6	0.06	0	1296.9	37.0	1.6	0	1
2	1258.0	0	0.1	0.1	1266.6	1.3	0.06	0	1274.6	4.7	0.06	0	1297.7	38.8	0.9	0	2
3	1258.0	0	0.1	0.1	1267.0	1.4	0.06	0	1274.8	4.8	0.06	0	1298.1	39.8	0.5	0	3
4	1258.0	0	0.1	0.1	1267.3	1.5	0.06	0	1275.0	5.0	0.06	0	1298.5	40.7	0.5	0	4
5	1258.0	0	0.1	0.1	1267.7	1.6	0.06	0	1275.2	5.1	0.06	0	1298.8	41.5	0.4	0	5
6	1258.0	0	0.1	0.1	1268.1	1.7	0.06	0	1275.4	5.3	0.05	0	1299.0	42.0	0.3	0	6
7	1258.0	0	0.1	0.1	1268.4	1.8	0.06	0	1275.6	5.4	0.05	0	1299.3	42.8	0.3	0	7
8	1258.0	0	0.1	0.1	1268.7	1.9	0.06	0	1275.7	5.5	0.05	0	1299.5	43.3	0.3	0	8
9	1258.0	0	0.1	0.1	1269.1	2.1	0.06	0	1275.9	5.6	0.05	0	1299.7	43.8	0.3	0	9
10	1258.0	0	0.1	0.1	1269.4	2.2	0.06	0	1278.7	7.9	1.2	0	1299.9	44.3	0.3	0	10
11	1258.0	0	0.1	0.1	1269.7	2.3	0.05	0	1279.5	8.7	0.4	0	1300.0	44.6	0.3	0	11
12	1258.0	0	0.1	0.1	1270.0	2.4	0.05	0	1280.0	9.2	0.3	0	1300.2	45.1	0.2	0	12
13	1258.0	0	0.1	0.1	1270.3	2.5	0.05	0	1280.5	9.7	0.2	0	1300.4	45.6	0.2	0	13
14	1258.0	0	0.1	0.1	1270.6	2.6	0.05	0	1281.0	10.2	0.2	0	1300.6	46.2	0.2	0	14
15	1258.0	0	0.1	0.1	1270.8	2.7	0.05	0	1281.3	10.5	0.2	0	1300.8	46.7	0.2	0	15
16	1258.0	0	0.1	0.1	1271.1	2.8	0.05	0	1281.6	10.8	0.2	0	1300.9	46.9	0.2	0	16
17	1258.0	0	0.1	0.1	1271.4	3.0	0.05	0	1281.9	11.1	0.2	0	1301.1	47.5	0.2	0	17
18	1258.0	0	0.1	0.1	1271.6	3.1	0.05	0	1282.2	11.4	0.2	0	1301.2	47.7	0.2	0	18
19	1260.4	0.1	°0.02	0	1271.8	3.2	0.05	0	1282.4	11.7	0.1	0	1301.4	48.2	0.2	0	19
20	1261.0	0.1	0.03	0	1272.0	3.3	0.05	0	1282.7	12.0	0.1	0	1301.5	48.5	0.1	0	20
21	1261.5	0.2	0.03	0	1272.2	3.4	0.06	0	1282.9	12.3	0.1	0	1301.6	48.8	0.2	0	21
22	1261.9	0.2	0.02	0	1272.5	3.5	0.06	0	1283.2	12.6	0.2	0	1301.8	49.3	0.2	0	22
23	1262.4	0.3	0.04	0	1272.7	3.6	0.06	0	1283.6	13.1	0.2	0	1301.9	49.5	0.1	0	23
24	1262.9	0.4	0.04	0	1272.9	3.7	0.06	0	1283.9	13.5	0.2	0	1302.0	49.8	0.2	0	24
25	1263.7	0.5	0.04	0	1273.1	3.8	0.06	0	1284.2	13.9	0.2	0	1302.2	50.4	0.3	0	25
26	1264.1	0.6	0.04	0	1273.4	4.0	0.06	0	1284.5	14.2	0.2	0	1302.5	51.2	0.4	0	26
27	1264.5	0.7	0.04	0	1273.6	4.1	0.06	0	1285.0	14.9	0.3	0	1303.5	54.0	1.4	0	27
28	1264.9	0.8	0.05	0	1273.8	4.2	0.06	0	1286.5	17.0	1.1	0	1304.5	57.0	1.5	0	28
29	1265.2	0.9	0.05	0	1274.0	4.3	0.06	0	1290.9	24.3	3.7	0	1305.5	60.0	1.5	0	29
30	1265.6	1.0	0.05	0	1274.2	4.5	0.06	0	1293.7	29.9	2.8	0	1306.1	61.8	0.9	0	30
31	1265.9	1.0	0.05	0					1295.5	33.8	1.9	0	1306.3	62.4	0.3	0	31
TOTAL			2.3	1.8			1.7	0			14.7	0			14.4	0	
Inf. Ac. Ft.			4.6				3.4				29.2				28.6	65.8	
Outf. Ac. Ft.				3.6				0				0			0	3.6	
Maximum Mean Daily Inflow			0.1				0.06				3.7				1.6	3.7	
Minimum Mean Daily Inflow			0.02				0.05				0.05				0.1	0.02	
Storage Change			+1.0				+3.5				+29.3				+28.6	+62.4	

REMARKS — ½ Year

Max. W. S. Elev. 1310.2 feet on 3/14/42 Storage 75.0 Acre Feet
Min. W. S. Elev. Dry feet on 10/1 to 10/4 Storage 0 Acre Feet
Max. Peak Inf. 4.8 C. F. S. from Various times on 12/29/41 to on
Max. Peak Outf. 2.5 C. F. S. from 9:00 P.M. on 3/14/42 to 3:00 A.M. on 3/15/42

Gage heights and storage as of midnight on day shown.

RECORDS COLLECTED BY
R. E. Waddicor — Dam Tender
P. A. Haig — Hydrographer
Hydrographer

COMPUTATIONS — Date
Gage Hts. copied G.H.M.
Storage applied G.H.M.
Inf. & Outf. computed G.H.M. 7/30/42
Checked L.T. 11/24/42

[= Mean for period.
° = Drop in inflow probably due to undetermined bank storage.
Note: Outflows as per valve operation record and measurements.

SAWPIT (CONT.)

F. C. Dist. Form 68 Revised 600 5/39

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of SAWPIT Dam

In Sawpit Canyon for the Year Ending September 30, 1942

Continuous Water Stage Recorder: Au

Drainage Area 3.3 Square Miles. Capacity of Reservoir 342.3 Ac. Ft. at Spillway Elev. 1360.0 Ft.

Gage Heights: Read Daily

Day	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1306.4	62.7	0.2	0	1308.7	70.0	0.1	0	1310.0	74.3	0.1	0.1	1310.0	74.3	0.1	0.1	1
2	1306.5	63.0	0.2	0	1308.8	70.4	0.1	0	1310.0	74.3	0.1	0.1	1310.0	74.3	0.1	0.1	2
3	1306.7	63.7	0.2	0	1308.8	70.4	0.1	0	1310.0	74.3	0.1	0.1	1310.0	74.3	0.1	0.1	3
4	1306.8	64.0	0.2	0	1308.9	70.7	0.1	0	1310.0	74.3	0.2	0.2	1310.0	74.3	0.1	0.1	4
5	1306.9	64.3	0.2	0	1309.0	71.0	0.1	0	1310.0	74.3	0.2	0.2	1310.0	74.3	0.1	0.1	5
6	1307.0	64.6	0.2	0	1309.0	71.0	0.08	0	1310.0	74.3	0.2	0.2	1310.0	74.3	0.1	0.1	6
7	1307.1	64.9	0.2	0	1309.1	71.3	0.08	0	1310.0	74.3	0.2	0.2	1310.0	74.3	0.1	0.1	7
8	1307.2	65.2	0.2	0	1309.1	71.3	0.08	0	1310.0	74.3	0.2	0.2	1310.0	74.3	0.1	0.1	8
9	1307.3	65.6	0.1	0	1309.2	71.7	0.08	0	1310.0	74.3	0.1	0.1	1310.0	74.3	0.1	0.1	9
10	1307.4	65.9	0.1	0	1309.2	71.7	0.08	0	1310.0	74.3	0.2	0.2	1310.0	74.3	0.1	0.1	10
11	1307.5	66.2	0.1	0	1309.3	72.0	0.1	0	1310.1	74.6	0.5	0.3	1310.0	74.3	0.1	0.1	11
12	1307.6	66.5	0.1	0	1309.5	72.6	0.3	0	1310.1	74.6	0.2	0.2	1310.0	74.3	0.1	0.1	12
13	1307.6	66.5	0.1	0	1309.7	73.3	0.4	0	1310.1	74.6	0.2	0.2	1310.0	74.3	0.1	0.1	13
14	1307.7	66.8	0.1	0	1310.2	75.0	1.5	0.7	1310.2	75.0	0.4	0.4	1310.0	74.3	0.1	0.1	14
15	1307.8	67.2	0.1	0	1310.1	74.6	0.7	0.9	1310.1	74.6	0.2	0.3	1310.0	74.3	0.1	0.1	15
16	1307.8	67.2	0.1	0	1310.1	74.6	0.7	1.07	1310.0	74.3	0.1	0.2	1310.0	74.3	0.1	0.1	16
17	1307.9	67.5	0.1	0	1310.0	74.3	0.4	1.05	1310.1	74.6	0.3	0.3	1310.0	74.3	0.1	0.1	17
18	1307.9	67.5	0.1	0	1310.0	74.3	0.3	1.03	1310.0	74.3	0.2	0.2	1310.0	74.3	0.1	0.1	18
19	1308.0	67.8	0.05	0	1310.0	74.3	0.3	0.3	1310.0	74.3	0.2	0.2	1310.0	74.3	0.1	0.1	19
20	1308.0	67.8	0.05	0	1310.0	74.3	0.3	1.03	1310.0	74.3	0.2	0.2	1310.0	74.3	0.1	0.1	20
21	1308.2	68.4	0.3	0	1310.0	74.3	0.3	1.03	1310.1	74.6	0.4	0.2	1310.0	74.3	0.1	0.1	21
22	1308.4	69.1	0.2	0	1310.0	74.3	0.2	1.02	1310.1	74.6	0.2	0.2	1310.0	74.3	0.1	0.1	22
23	1308.4	69.1	0.2	0	1310.0	74.3	0.2	1.02	1310.1	74.6	0.2	0.2	1310.0	74.3	0.1	0.1	23
24	1308.5	69.4	0.08	0	1310.0	74.3	0.1	1.01	1310.0	74.3	0.2	0.2	1310.0	74.3	0.1	0.1	24
25	1308.5	69.4	0.08	0	1310.0	74.3	0.1	1.01	1310.0	74.3	0.2	0.2	1310.0	74.3	0.1	0.1	25
26	1308.6	69.7	0.08	0	1310.0	74.3	0.1	0.1	1310.1	74.6	0.2	0.2	1310.0	74.3	+	+	26
27	1308.6	69.7	0.08	0	1310.0	74.3	0.1	0.1	1310.1	74.6	0.2	0.2	1310.0	74.3	+	+	27
28	1308.7	70.0	0.08	0	1310.0	74.3	0.1	0.1	1310.0	74.3	0.2	0.2	1310.0	74.3	+	+	28
29					1310.0	74.3	0.1	0.1	1310.0	74.3	0.1	0.2	1310.0	74.3	+	+	29
30					1310.0	74.3	0.1	0.1	1310.0	74.3	0.1	0.2	1310.0	74.3	+	+	30
31					1310.0	74.3	0.1	0.1					1310.0	74.3	+	+	31
TOTAL			3.8	0			7.4	5.2			6.1	6.1			2.5	2.5	
Inf. Ac. Ft.			7.5				14.7				12.1				5.0	105.1	
Outf. Ac. Ft.				0				10.3				12.1			5.0	31.0	
Maximum			0.3				1.5				0.5				0.1	3.7	
Mean Daily Inflow			0.05				0.08				0.1				+	+	
Minimum																	
Mean Daily Inflow																	
Storage Change			+7.6				+4.3				0				0	+74.3	

REMARKS

Max. W. S. Elev. 1310.2 feet on 3/14/42 Storage 75.0 Acre Feet
Min. W. S. Elev. Dry feet on 10/1 to 18/42 Storage 0 Acre Feet
Max. Peak Inf. 4.8 C.F.S. from Various times 12/29/41 to
Max. Peak Outf. 2.5 C.F.S. from 9:00 P.M. on 3/14/42 to 3:00 P.M. on 3/15/42
Gage heights and storage as of midnight of day shown.

RECORDS COLLECTED BY
R. E. Waddicor — Dam Tender
P. A. Haig — Hydrographer
Hydrographer

COMPUTATIONS — Date
Gage Hts. copied G.H.M.
Storage applied G.H.M.
Inf. & Outf. computed G.H.M. 7/30/42
Checked L.T. 11/24/42

(= Mean for period.
i = Interpolated. + = Negligible flow.
Note: Outflows as per valve operation records and daily reports.

F. C. Dist. Form 68 Revised 600 5/39

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of SAWPIT Dam

In Sawpit Canyon for the Year Ending September 30, 1942

Continuous Water Stage Recorder: Au

Drainage Area 3.3 Square Miles. Capacity of Reservoir 342.3 Ac. Ft. at Spillway Elev. 1360.0 Ft.

Gage Heights: Read Daily

Day	JUNE Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JULY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1310.0	74.3	+	+	1310.0	74.3	+	+	1309.5	72.6	0	0	1308.9	70.7	0	0	1
2	1310.0	74.3	+	+	1310.0	74.3	+	+	1309.4	72.3	0	0	1308.8	70.4	0	0	2
3	1310.0	74.3	+	+	1309.9	74.0	+	+	1309.4	72.3	0	0	1308.8	70.4	0	0	3
4	1310.0	74.3	+	+	1309.9	74.0	+	+	1309.4	72.3	0	0	1308.8	70.4	0	0	4
5	1310.0	74.3	+	+	1309.9	74.0	+	+	1309.4	72.3	0	0	1308.8	70.4	0	0	5
6	1310.0	74.3	+	+	1309.9	74.0	0	0	1309.3	72.0	0	0	1308.8	70.4	0	0	6
7	1310.0	74.3	+	+	1309.9	74.0	0	0	1309.3	72.0	0	0	1308.7	70.0	0	0	7
8	1310.0	74.3	+	+	1309.9	74.0	0	0	1309.3	72.0	0	0	1308.7	70.0	0	0	8
9	1310.0	74.3	+	+	1309.9	74.0	0	0	1309.3	72.0	0	0	1308.7	70.0	0	0	9
10	1310.0	74.3	+	+	1309.9	74.0	0	0	1309.3	72.0	0	0	1308.7	70.0	0	0	10
11	1310.0	74.3	+	+	1309.9	74.0	0	0	1309.3	72.0	0	0	1308.6	69.7	0	0	11
12	1310.0	74.3	+	+	1309.8	73.6	0	0	1309.3	72.0	0	0	1308.6	69.7	0	0	12
13	1310.0	74.3	+	+	1309.8	73.6	0	0	1309.3	72.0	0	0	1308.6	69.7	0	0	13
14	1310.0	74.3	+	+	1309.8	73.6	0	0	1309.2	71.7	0	0	1308.6	69.7	0	0	14
15	1310.0	74.3	+	+	1309.8	73.6	0	0	1309.2	71.7	0	0	1308.6	69.7	0	0	15
16	1310.0	74.3	+	+	1309.8	73.6	0	0	1309.2	71.7	0	0	1308.5	69.4	0	0	16
17	1310.0	74.3	+	+	1309.7	73.3	0	0	1309.2	71.7	0	0	1308.5	69.4	0	0	17
18	1310.0	74.3	+	+	1309.7	73.3	0	0	1309.2	71.7	0	0	1308.5	69.4	0	0	18
19	1310.0	74.3	+	+	1309.7	73.3	0	0	1309.2	71.7	0	0	1308.5	69.4	0	0	19
20	1310.0	74.3	+	+	1309.7	73.3	0	0	1309.1	71.3	0	0	1308.5	69.4	0	0	20
21	1310.0	74.3	+	+	1309.7	73.3	0	0	1309.1	71.3	0	0	1308.4	69.1	0	0	21
22	1310.0	74.3	+	+	1309.6	73.0	0	0	1309.1	71.3	0	0	1308.4	69.1	0	0	22
23	1310.0	74.3	+	+	1309.6	73.0	0	0	1309.0	71.0	0	0	1308.4	69.1	0	0	23
24	1310.0	74.3	+	+	1309.6	73.0	0	0	1309.0	71.0	0	0	1308.4	69.1	0	0	24
25	1310.0	74.3	+	+	1309.6	73.0	0	0	1309.0	71.0	0	0	1308.3	68.8	0	0	25
26	1310.0	74.3	+	+	1309.6	73.0	0	0	1309.0	71.0	0	0	1308.3	68.8	0	0	26
27	1310.0	74.3	+	+	1309.5	72.6	0	0	1308.9	70.7	0	0	1308.3	68.8	0	0	27
28	1310.0	74.3	+	+	1309.5	72.6	0	0	1308.9	70.7	0	0	1308.3	68.8	0	0	28
29	1310.0	74.3	+	+	1309.5	72.6	0	0	1308.9	70.7	0	0	1308.3	68.8	0	0	29
30	1310.0	74.3	+	+	1309.5	72.6	0	0	1308.9	70.7	0	0	1308.3	68.8	0	0	30
31					1309.5	72.6	0	0	1308.9	70.7	0	0					31
TOTAL			E 1.0	1.0*			E 0.1	1.0*			0	1.0*			0	1.0*	
Inf. Ac. Ft.			2.0				0.2				0				0	107.3	
Outf. Ac. Ft.				2.0				2.0				2.0			2.0	39.0	
Maximum			+				+				0				0	3.7	
Mean Daily Inflow																	
Minimum			+				0				0				0	0	
Mean Daily Inflow																	
Storage Change			0				-1.7				-1.9				-1.9	+68.8	

REMARKS — Yearly Totals

Max. W. S. Elev. 1310.2 feet on 3/14/42 Storage 75.0 Acre Feet
Min. W. S. Elev. Dry feet on 10/1 to 18/42 Storage 0 Acre Feet
Max. Peak Inf. 4.8 C.F.S. from Various times 12/29/41 to
Max. Peak Outf. 2.5 C.F.S. from 9:00 P.M. on 3/14/42 to 3:00 A.M. on 3/15/42
Gage heights and storages as of midnight on day shown.

RECORDS COLLECTED BY
R. E. Waddicor — Dam Tender
C. C. Green — Hydrographer
P. A. Haig — Hydrographer

COMPUTATIONS — Date
Gage Hts. copied H.A.V.
Storage applied H.A.V.
Inf. & Outf. computed H.A.V. 11/12/42
Checked L.T. 11/24/42

* = Total monthly loss due to evaporation, leakage, and percolation. + = Negligible flow.

SAN GABRIEL NO. 2

F. C. Dist. Form 68 Revised 500 5/39

Storages based on Debris Determinations of November 28, 1941 (Table V)

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of SAN GABRIEL Dam #2

In San Gabriel - West Fork for the Year Ending September 30, 1942

Continuous Water Stage Recorder Pressure

Drainage Area 40.4 Square Miles. Capacity of Reservoir 10914.9 Ac. Ft. at Spillway Elev. 2385.0 Ft.

Gage Heights Read Daily

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	Day
1	2271.6	1244.6	4.0	7.9	2250.7	581.6	5.4	70.0	2227.6	134.3	8.6	1.0	2263.2	944.4	29.0	17.5	1
2	2271.5	1240.8	5.7	7.6	2244.8	441.5	5.3	76.0	2228.7	149.1	8.4	1.0	2263.7	961.0	25.2	16.8	2
3	2271.4	1236.9	5.0	7.0	2238.0	301.5	6.4	73.0	2230.6	176.7	15.2	1.3	2264.0	970.9	22.5	17.5	3
4	2271.3	1233.1	5.3	7.2	2233.5	222.5	6.4	54.0	2232.1	199.9	13.0	1.3	2264.1	974.3	19.9	18.2	4
5	2271.2	1229.2	5.3	7.2	2226.3	118.1	6.3	51.0	2233.3	219.2	11.1	1.3	2264.2	977.7	20.6	18.9	5
6	2270.2	1191.3	5.8	25.0	2220.2	63.4	6.3	38.0	2234.4	237.5	10.5	1.3	2264.2	977.7	17.5	17.5	6
7	2266.8	1067.4	5.6	64.0	2219.9	61.7	8.9	9.8	2235.4	254.6	10.0	1.4	2264.2	977.7	16.4	16.4	7
8	2263.1	941.1	5.6	76.0	2219.7	60.6	9.3	9.8	2235.8	261.5	8.6	5.1	2264.2	977.7	16.4	16.4	8
9	2260.3	851.7	5.5	51.0	2219.4	58.9	8.2	9.1	2235.9	263.3	10.0	9.1	2264.2	977.7	16.4	16.4	9
10	2258.0	781.8	5.5	40.0	2219.3	58.4	8.3	8.5	2245.5	457.2	107.7	9.9	2264.2	977.7	16.8	16.8	10
11	2255.6	712.6	5.5	38.0	2219.3	58.4	7.6	7.6	2248.5	527.3	42.9	7.6	2264.2	977.7	16.4	16.4	11
12	2254.7	687.5	9.3	22.0	2219.5	59.5	8.1	7.6	2249.4	549.2	22.4	11.4	2264.1	974.3	15.1	16.8	12
13	2255.0	695.7	8.9	4.7	2219.7	60.6	8.5	7.9	2249.9	561.5	20.2	14.0	2264.0	970.9	15.4	17.1	13
14	2255.3	704.1	8.5	4.3	2219.9	61.7	7.7	7.2	2250.1	566.5	14.5	11.9	2263.8	964.3	14.5	17.9	14
15	2255.5	709.8	6.9	4.0	2220.3	64.1	8.3	7.0	2250.3	571.6	14.4	11.9	2263.4	951.0	12.2	18.9	15
16	2255.7	715.4	6.5	3.7	2220.7	66.5	7.6	6.4	2250.0	576.6	14.1	11.5	2263.1	941.1	12.9	17.9	16
17	2255.8	718.2	5.1	3.7	2221.2	69.8	7.8	6.2	2250.8	584.2	15.0	11.2	2262.9	934.6	12.9	16.1	17
18	2256.0	723.8	6.5	3.7	2221.6	72.7	7.4	5.9	2251.1	591.8	13.9	10.1	2262.6	924.8	11.8	16.8	18
19	2256.4	735.3	9.6	3.8	2222.1	76.3	7.7	5.9	2251.3	596.9	12.4	9.8	2262.3	915.1	12.2	17.1	19
20	2257.0	752.5	12.1	3.4	2221.6	72.7	7.4	9.2	2251.6	604.7	13.4	9.5	2262.0	905.3	12.2	17.1	20
21	2257.5	767.2	10.6	3.2	2220.5	65.3	7.1	10.8	2251.8	609.8	11.7	9.1	2261.7	895.8	12.0	16.8	21
22	2258.1	784.8	12.1	3.2	2219.5	59.5	7.1	10.1	2251.7	607.3	12.1	13.4	2261.5	889.4	12.9	16.1	22
23	2258.7	802.7	12.0	3.0	2218.9	56.2	7.5	9.1	2251.4	599.5	11.8	15.7	2261.3	883.0	12.4	15.7	23
24	2259.4	823.9	13.6	2.9	2219.2	57.8	8.0	7.2	2251.2	594.4	13.1	15.7	2261.0	873.5	10.9	15.7	24
25	2260.0	842.3	12.1	2.8	2220.4	64.7	8.6	5.1	2251.0	589.2	13.1	15.7	2260.8	867.3	12.3	15.4	25
26	2260.5	857.9	10.5	2.6	2221.3	70.5	8.0	5.1	2251.0	589.2	15.0	15.0	2260.5	857.9	10.3	15.0	26
27	2261.1	876.7	12.0	2.6	2222.1	76.3	7.6	4.7	2251.0	589.2	14.6	14.6	2260.3	851.7	12.3	15.4	27
28	2260.7	864.1	11.2	17.5	2223.2	85.6	7.5	2.8	2253.2	646.7	44.3	15.3	2260.1	845.4	12.9	16.1	28
29	2259.3	820.9	9.2	31.0	2224.9	102.3	9.4	1.0	2258.8	805.7	95.6	15.4	2259.8	836.2	11.4	16.1	29
30	2257.8	775.9	8.3	31.0	2226.4	119.3	9.6	1.0	2261.2	879.9	54.2	16.8	2259.6	830.1	12.7	15.7	30
31	2255.5	709.8	6.7	40.0					2262.5	921.6	38.5	17.5	2259.3	820.9	10.7	15.4	31
TOTAL			250.5	524.0			229.3	527.0			710.3	305.8			467.1	517.9	
Inf. Ac. Ft.			496.9				454.8				1408.9				926.5	3287.1	
Outf. Ac. Ft.				1039.3				1045.3				606.5			1027.2	3718.3	
Maximum Mean Daily Inflow			13.6				9.6				107.7				29.0	107.7	
Minimum Mean Daily Inflow			4.0				5.3				8.4				10.3	4.0	
Storage Change			-542.5				-590.5				+802.3				-100.7	••-431.4	
REMARKS																½ Year	

Max. W. S. Elev.	2271.8 feet on 10/1/41	Storage 1252.3 Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	Date
Min. W. S. Elev.	2194.0 feet on 9/22 to 30/42	Storage 1.4 Acre Feet	Ben Harrison	Dam Tender	Gage Hts. copied	G.H.M.
Max. Peak Inf.	294.0 C.F.S. from 4:00 P.M. on 12/10/41	to 5:00 P.M. on 12/10/41	E. Godfrey	Hydrographer	Storage applied	G.H.M.
Max. Peak Outf.	90.0c.f.s. to 70.0C.F.S. from 1:45 P.M. on 11/1/41	to 1:00 P.M. on 11/4/41		Hydrographer	Inf. & Outf. computed	G.H.M. 7/21/42
Gage heights and storage as of midnight on days shown.					Checked	L.T. 10/28/42

[= Mean for period.
•• = Storages corrected for 68.9 A.F. of debris loss beginning October 1, 1941.
Note: Outflows as per Station 209 and valve operation records.

F. C. Dist. Form 68 Revised 500 5/39

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of SAN GABRIEL Dam #2

In San Gabriel - West Fork for the Year Ending September 30, 1942

Continuous Water Stage Recorder Pressure

Drainage Area 40.4 Square Miles. Capacity of Reservoir 10914.9 Ac. Ft. at Spillway Elev. 2385.0 Ft.

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	2259.0	811.7	10.4	15.0	2257.9	778.9	11.5	12.2	2258.1	784.8	7.8	10.8	2264.0	970.9	8.5	8.5	1
2	2258.8	805.7	11.2	14.3	2257.9	778.9	11.4	12.2	2257.9	778.9	7.8	10.8	2264.0	970.9	8.0	8.5	2
3	2258.5	796.8	10.1	14.6	2257.8	775.9	10.7	12.2	2257.8	775.9	9.3	10.8	2263.9	967.6	7.5	8.5	3
4	2258.2	787.8	10.9	15.4	2257.7	773.0	10.5	11.9	2258.6	799.7	22.8	10.8	2263.8	964.3	6.9	8.5	4
5	2258.0	781.8	12.4	15.4	2257.6	770.1	10.4	11.9	2258.8	805.7	13.8	10.8	2263.7	961.0	6.4	8.5	5
6	2257.7	773.0	10.6	15.0	2257.5	767.2	10.4	11.9	2259.0	811.7	13.8	10.8	2263.6	957.7	6.4	8.5	6
7	2257.4	764.2	9.8	14.3	2257.3	761.3	10.0	12.2	2259.2	817.8	13.9	10.8	2263.5	954.4	6.4	8.5	7
8	2257.1	755.4	9.2	13.6	2257.2	758.4	9.9	12.2	2259.3	820.9	12.1	10.5	2263.3	947.7	6.4	8.5	8
9	2256.9	749.6	10.7	13.6	2257.0	752.5	9.9	12.6	2259.4	823.9	12.0	10.5	2263.2	944.4	6.2	8.5	9
10	2256.6	741.0	9.2	13.6	2256.9	749.6	9.9	11.5	2259.7	833.1	15.1	10.5	2263.0	937.8	6.1	8.5	10
11	2256.3	732.4	8.9	13.2	2256.9	749.6	10.8	10.8	2260.0	842.3	14.8	10.1	2262.9	934.6	6.1	8.5	11
12	2256.0	723.8	8.8	13.2	2256.8	746.8	9.1	10.5	2260.3	851.7	14.5	9.8	2262.7	928.1	6.0	8.5	12
13	2255.7	715.4	9.0	13.2	2256.7	743.9	9.3	10.8	2260.5	857.9	12.6	9.5	2262.6	924.8	5.9	8.5	13
14	2255.4	706.9	8.9	13.2	2257.0	752.5	15.8	11.5	2261.2	879.9	20.6	9.5	2262.4	918.3	5.8	10.0	14
15	2255.2	701.3	10.1	12.9	2257.4	764.2	17.4	11.5	2261.7	895.8	17.1	9.1	2262.0	905.3	5.6	11.0	15
16	2254.9	693.0	8.7	12.9	2257.9	778.9	18.9	11.5	2262.0	905.3	13.9	9.1	2261.8	898.9	5.6	10.1	16
17	2254.6	684.7	8.4	12.6	2258.3	790.8	17.2	11.2	2262.5	921.6	17.3	9.1	2261.5	889.4	5.6	10.1	17
18	2254.4	679.2	8.8	11.5	2258.6	799.7	15.7	11.2	2262.8	931.3	14.0	9.1	2261.3	883.0	5.5	9.8	18
19	2254.2	673.7	8.4	11.2	2258.8	805.7	14.3	11.2	2263.0	937.8	12.4	9.1	2261.0	873.5	5.4	9.5	19
20	2253.9	665.5	7.1	11.2	2259.0	811.7	13.2	11.5	2263.2	944.4	12.4	9.1	2260.7	864.1	5.3	9.1	20
21	2254.5	682.0	19.8	11.5	2259.0	811.7	13.2	11.9	2263.4	951.0	11.7	9.1	2260.3	851.7	5.2	9.1	21
22	2256.7	743.9	42.4	11.2	2259.0	811.7	12.5	12.6	2263.5	954.4	11.6	9.1	2260.0	842.3	5.1	9.1	22
23	2257.3	761.3	20.0	11.2	2259.0	811.7	12.5	12.9	2263.7	961.0	11.6	9.1	2259.7	833.1	5.0	9.1	23
24	2257.6	770.1	15.9	11.5	2259.0	811.7	12.4	11.9	2263.8	964.3	11.6	9.1	2259.4	823.9	4.8	8.8	24
25	2257.8	775.9	14.4	11.5	2259.0	811.7	10.1	11.2	2263.8	964.3	10.3	9.1	2259.2	817.8	4.7	7.4	25
26	2257.9	778.9	13.4	11.9	2258.9	808.7	10.1	10.5	2263.8	964.3	9.9	9.1	2259.0	811.7	4.6	9.2	26
27	2258.0	781.8	13.4	11.9	2258.8	805.7	9.3	10.8	2263.9	967.6	9.5	9.1	2258.7	802.7	4.5	8.2	27
28	2258.0	781.8	12.2	12.2	2258.7	802.7	9.2	10.8	2263.9	967.6	9.2	8.8	2258.5	796.8	4.4	8.2	28
29					2258.5	796.8	9.2	11.2	2264.0	970.9	9.0	8.8	2258.3	790.8	4.3	8.2	29
30					2258.4	793.8	9.2	11.2	2264.0	970.9	8.8	8.8	2258.1	784.8	4.2	8.2	30
31					2258.3	790.8	9.2	11.2					2257.9	778.9	4.1	7.9	31
TOTAL			343.1	362.8			363.2	358.7			381.5	290.7			176.7	273.5	
Inf. Ac. Ft.			680.5				720.4				756.7				350.5	5795.2	
Outf. Ac. Ft.				719.6				711.5				576.6			542.5	6268.5	
Maximum Mean Daily Inflow			42.4				18.9				22.8				8.5	107.7	
Minimum Mean Daily Inflow			7.1				8.3				7.8				4.8	4.0	
Storage Change			-39.1				+9.0				+180.1				-192.0	••+473.4	
REMARKS																½ Year	

Max. W. S. Elev.	2271.8 feet on 10/1/41	Storage 1252.3 Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	Date
Min. W. S. Elev.	2194.0 feet on 9/22 to 30/42	Storage 1.4 Acre Feet	Ben Harrison	Dam Tender	Gage Hts. copied	G.H.M.
Max. Peak Inf.	294.0 C.F.S. from 4:00 P.M. on 12/10/41	to 5:00 P.M. on 12/10/41	E. Godfrey	Hydrographer	Storage applied	G.H.M.
Max. Peak Outf.	90.0c.f.s. to 70.0C.F.S. from 1:45 P.M. on 11/1/41	to 1:00 P.M. on 11/4/41		Hydrographer	Inf. & Outf. computed	G.H.M. 7/21/42
Gage heights and storage as of midnight on day shown.					Checked	L.T. 10/28/42

[= Mean for period.
•• = Storages for 68.9 A.F. of debris loss beginning October 1, 1941.

SAN GABRIEL NO. 2 (CONT.)

F. C. Dist. Form 68 Revised 600 5/39

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of SAN GABRIEL Dam #2

In San Gabriel - West Fork for the Year Ending September 30, 1942

Drainage Area 40.4 Square Miles. Capacity of Reservoir 10914.9 Ac. Ft. at Spillway Elev. 2385.0 Ft.

Continuous Water Stage Recorder Pressure

Gage Heights Read Daily

Day	JUNE Gage Height	JUNE Acre Ft. Storage	JUNE C.F.S. Inflow	JUNE C.F.S. Outflow	JULY Gage Height	JULY Acre Ft. Storage	JULY C.F.S. Inflow	JULY C.F.S. Outflow	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	2257.6	770.1	4.1	7.6	2249.6	554.2	1.3	5.3	2237.4	290.4	0.6	4.5	2234.6	240.8	0.5	1.1	1
2	2257.4	764.2	4.1	7.6	2249.2	544.3	1.2	5.3	2237.0	283.0	0.6	4.3	2234.6	240.8	0.5	1.1	2
3	2257.2	758.4	4.1	7.6	2248.9	537.0	1.1	5.3	2236.7	277.6	0.6	2.8	2234.5	239.2	0.5	1.1	3
4	2256.9	749.6	4.1	7.6	2248.6	529.7	1.0	5.3	2236.7	277.6	0.6	1.3	2234.5	239.2	0.5	1.2	4
5	2256.7	743.9	4.0	7.6	2248.2	520.0	1.0	5.3	2236.6	275.8	0.5	1.3	2234.4	237.5	0.5	1.2	5
6	2256.4	735.3	3.9	7.6	2247.9	512.8	1.0	5.1	2236.5	274.0	0.5	1.3	2234.3	235.8	0.5	1.2	6
7	2256.2	729.5	3.8	7.6	2247.5	503.4	1.0	5.1	2236.4	272.2	0.5	1.4	2234.2	234.1	0.5	1.2	7
8	2255.9	721.0	3.7	7.6	2247.1	494.0	1.0	5.1	2236.3	270.4	0.5	1.3	2234.1	232.4	0.6	1.2	8
9	2255.7	715.4	3.6	7.2	2246.8	487.0	1.0	5.1	2236.3	270.4	1.3	1.3	2234.0	230.7	0.6	1.2	9
10	2255.4	706.9	3.5	7.2	2246.5	480.1	1.0	4.8	2236.4	272.2	2.2	1.3	2233.9	229.1	0.6	1.1	10
11	2255.2	701.3	3.4	7.0	2246.1	470.8	0.9	5.1	2236.3	270.4	0.5	1.2	2233.9	229.1	0.6	1.1	11
12	2255.0	695.7	3.3	6.7	2245.7	461.7	0.9	5.1	2236.2	268.6	0.4	1.1	2232.8	211.1	E 0.5	9.5	12
13	2254.7	687.5	3.2	6.4	2245.4	454.9	0.8	5.1	2236.2	268.6	0.4	1.1	2231.2	185.8	0.5	13.3	13
14	2254.5	682.0	3.0	6.2	2245.0	445.9	0.8	5.3	2236.1	266.8	0.4	1.1	2229.4	159.0	0.5	14.0	14
15	2254.2	673.7	2.9	6.2	2244.6	437.0	0.8	5.3	2236.0	265.0	0.4	1.2	2227.6	134.3	0.5	13.0	15
16	2254.0	668.2	2.8	6.2	2244.2	428.1	0.7	5.3	2236.0	265.0	0.4	1.2	2225.8	112.3	0.5	11.5	16
17	2253.7	660.1	2.7	6.2	2243.8	419.4	0.7	5.3	2235.9	263.3	0.4	1.1	2223.8	91.1	0.5	11.2	17
18	2253.4	652.1	2.6	6.2	2243.5	412.9	0.7	5.1	2235.8	261.5	0.4	1.0	2221.3	70.5	0.5	10.9	18
19	2253.2	646.7	2.4	5.9	2243.1	404.3	0.6	5.1	2235.7	259.8	0.4	1.0	2217.4	48.8	0.5	11.5	19
20	2252.9	638.7	2.2	5.9	2242.7	395.7	0.6	4.9	2235.6	258.0	0.4	1.0	2211.6	27.7	E 0.5	11.1	20
21	2252.6	630.8	1.8	5.9	2242.3	387.3	0.6	4.9	2235.5	256.3	0.4	1.1	2204.3	11.8	• 0.8	8.8	21
22	2252.3	622.9	1.7	5.7	2241.8	376.8	0.6	4.9	2235.5	256.3	0.4	1.2	2194.0	1.4	1.2	6.5	22
23	2252.0	615.0	1.7	5.7	2241.4	368.5	0.6	4.9	2235.4	254.6	0.4	1.1	2194.0	1.4	1.2	1.2	23
24	2251.7	607.3	1.6	5.5	2241.0	360.3	0.5	4.9	2235.3	252.8	0.3	1.1	2194.0	1.4	1.0	1.0	24
25	2251.4	599.5	1.6	5.3	2240.6	352.2	0.5	4.9	2235.2	251.1	0.3	1.0	2194.0	1.4	1.0	1.0	25
26	2251.1	591.8	1.6	5.3	2240.1	342.1	0.5	4.9	2235.1	249.3	0.3	1.0	2194.0	1.4	1.0	1.0	26
27	2250.8	584.2	1.6	5.3	2239.7	334.2	0.5	4.9	2235.0	247.6	0.3	1.0	2194.0	1.4	1.0	1.0	27
28	2250.5	576.6	1.6	5.5	2239.3	326.4	0.5	4.9	2235.0	247.6	0.3	1.0	2194.0	1.4	1.0	1.0	28
29	2250.2	569.0	1.6	5.5	2238.8	316.7	0.5	4.9	2234.9	245.9	0.3	1.0	2194.0	1.4	1.0	1.0	29
30	2249.9	561.5	1.5	5.5	2238.3	307.2	0.5	4.9	2234.8	244.2	0.3	1.1	2194.0	1.4	• 1.0	1.0	30
31					2237.8	297.8	0.5	4.5	2234.7	242.5	0.3	1.1					31

	JUNE	JULY	AUGUST	SEPTEMBER	Yearly Totals
TOTAL	83.7 / 193.3	23.9 / 156.8	15.6 / 43.5	20.6	142.2
Inf. Ac. Ft.	166.0	47.4	30.9	40.9	6080.4
Outf. Ac. Ft.	383.4	311.0	86.3	282.0	7331.2
Maximum Mean Daily Inflow	4.1	1.3	2.2	1.2	107.7
Minimum Mean Daily Inflow	1.6	0.5	0.3	0.5	0.3
Storage Change	-217.4	-263.7	-55.3	-241.1	••-1250.9

REMARKS

Max. W. S. Elev. 2271.8 feet on 10/1/41 Storage 1252.3 Acre Feet
Min. W. S. Elev. 2194.0 feet on 9/22 to 30/42 Storage 1.4 Acre Feet
Max. Peak Inf. 294.0 C.F.S. from 4:00 P.M. on 12/10/41 to 5:00 P.M. on 12/10/41
Max. Peak Outf. 90.0 c.f.s. to 70.0 C.F.S. from 1:45 P.M. on 11/1/41 to 1:00 P.M. on 11/4/41
Gage heights and storage as of midnight on day shown.

RECORDS COLLECTED BY: Ben Harrison, Dam Tender; E. Godfrey, Hydrographer; Hydrographer

COMPUTATIONS Date: Gage Hts. copied G.H.M.; Storage applied G.H.M.; Inf. & Outf. computed G.H.M. 7/21/42; Checked L.T. 12/4/42

(= Mean for period. E = Estimated.
•• = Storages corrected for 68.9 A.F. of debris loss beginning October 1, 1941.
Note: Outflows as per Station 209 and valve operation records.
• = Flows probably increased due to bank storage.

SAN GABRIEL NO. 1

F. C. Dist. Form 68 Revised 600 5/39

Beginning October 1, 1942, Storages based on L.A.C.F.C.D. Survey of September, 1941 (Table VI b)

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In San Gabriel Canyon for the Year Ending September 30, 1942

Drainage Area 202. Square Miles. Capacity of Reservoir 45,862 Ac. Ft. at Spillway Elev. 1453.0 Ft.

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	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	1272.9	$ •237	67.9	68.8	1295.85	1323	130.5	0.1	1318.55	3618	58.9	58.5	1326.70	4671	140.1	91.2	1
2	1273.1	236	67.9	68.0	1299.35	1612	146.0	0.1	1318.50	3612	55.8	58.5	1327.15	4733	122.4	90.8	2
3	1272±	232	66.8	68.6	1302.50	1896	143.5	0.1	1318.70	3636	70.6	58.5	1327.50	2782	114.9	89.9	3
4	1272±	232	66.8	66.7	1305.00	2133	120.0	0.1	1318.85	3654	68.0	58.5	1327.75	4817	107.6	89.9	4
5	1273.2	232	66.8	66.7	1307.20	2352	111.2	0.1	1318.80	3648	64.2	66.8	1327.95	4845	104.2	89.9	5
6	1273.5	232	80.4	80.3	1309.25	2564	107.6	0.1	1318.50	3612	59.4	77.0	1328.15	4873	104.3	89.9	6
7	1274.1	232	141.0	140.9	1302.60	1905	66.7	391.0	1318.25	3581	62.0	77.0	1328.35	4902	104.9	89.9	7
8	1274.5	233	147.3	146.7	1304.10	2047	66.6	1.7	1317.90	3539	56.3	77.0	1328.50	4923	100.9	89.9	8
9	1273.7	231	119.1	119.9	1305.45	2178	66.8	0.2	1317.80	3527	71.0	77.0	1328.65	4943	100.3	89.9	9
10	1273.3	230	98.2	98.5	1306.75	2307	66.1	0.5	1319.70	3758	193.5	77.0	1328.80	4966	102.1	89.9	10
11	1273.2	227	94.0	95.4	1308.05	2439	66.9	0.1	1320.65	3876	144.5	84.9	1329.00	4994	104.6	89.9	11
12	1273.1	227	95.0	94.9	1309.35	2575	68.9	0.1	1320.85	3901	103.0	90.1	1329.15	5016	101.5	89.9	12
13	1272.7	226	56.4	56.9	1310.60	2708	67.4	0.1	1320.95	3914	97.3	90.6	1329.30	5038	101.6	89.9	13
14	1272.6	226	57.4	57.2	1311.75	2832	63.2	0.1	1320.95	3914	90.7	90.6	1329.40	5052	97.5	89.9	14
15	1273.2	225	57.4	57.7	1312.85	2954	62.6	0.5	1320.90	3908	87.8	90.6	1329.55	5074	101.4	89.9	15
16	1273.2	225	57.4	57.2	1314.00	3083	65.4	0.1	1320.80	3895	84.3	90.6	1329.70	5096	101.3	89.9	16
17	1273.6	226	56.4	55.8	1314.95	3192	56.0	0.2	1320.70	3882	84.2	90.6	1329.80	5111	97.7	89.9	17
18	1273.7	224	56.4	57.3	1315.95	3308	59.4	0.2	1320.55	3864	81.9	90.6	1329.85	5118	94.2	89.9	18
19	1273.8	224	65.8	65.8	1316.95	3425	60.1	0.3	1320.35	3838	77.8	90.6	1329.90	5125	94.1	89.9	19
20	1273.6	224	86.7	86.6	1317.90	3539	59.1	0.3	1320.10	3808	75.7	90.6	1329.95	5133	94.7	89.9	20
21	1273.8	224	78.3	78.3	1318.45	3605	64.1	29.8	1319.90	3783	78.4	90.6	1329.95	5133	90.2	89.9	21
22	1274.1	227	85.6	84.0	1318.50	3612	62.7	58.5	1319.70	3758	78.4	90.6	1329.95	5133	90.2	89.9	22
23	1274.5	231	73.1	71.1	1318.60	3624	65.6	58.5	1319.80	3770	96.8	90.6	1330.00	5140	93.8	89.9	23
24	1274.6	232	74.2	73.7	1318.65	3630	62.2	58.5	1319.80	3770	91.1	90.6	1329.95	5133	86.5	89.9	24
25	1274.7	234	71.0	70.0	1318.65	3630	59.5	58.5	1319.80	3770	90.6	90.6	1329.95	5133	90.1	89.9	25
26	1274.3	233	67.9	68.3	1318.60	3624	56.2	58.5	1319.90	3783	96.8	89.9	1329.90	5125	86.2	89.9	26
27	1281.2	326	74.0	27.1	1318.55	3618	55.8	58.5	1319.90	3783	90.0	89.9	1329.85	5118	86.6	89.9	27
28	1283.2	•506	90.9	0.1	1318.50	3612	55.9	58.5	1320.35	3838	118.3	90.6	1329.85	5118	85.1	84.7	28
29	1286.1	674	84.9	0.1	1318.50	3612	57.9	57.9	1323.55	4247	296.8	90.6	1329.90	5125	85.0	80.8	29
30	1289.4	865	96.7	0.1	1318.55	3618	61.8	58.5	1325.10	4452	194.6	91.2	1329.90	5125	82.0	81.6	30
31	1292.4	1065	101.2	0.1					1326.00	4574	152.7	91.2	1329.90	5125	82.5	82.1	31

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	½ Year
TOTAL	2502.9 / 2082.8	2255.7 / 951.7	3071.4 / 2582.0	3048.5	2758.7
Inf. Ac. Ft.	4964.4	4474.1	6092.0	6046.6	21577.1
Outf. Ac. Ft.	4131.2+(7.3)	1887.7+(33.5)	5121.3+(14.7)	5471.8+(23.8)	(16612.0+(79.3))
Maximum Mean Daily Inflow	147.3	146.0	296.8	140.1	296.8
Minimum Mean Daily Inflow	56.4	55.8	55.8	82.0	55.8
Storage Change	+ 826	+ 2553	+956.	+ 551	+4886

REMARKS Outflows based on valve ratings. Inflows computed from storage changes.

Max. W. S. Elev. 1339.4 feet on 5/17-18/42 Storage 6661. Acre Feet
Min. W. S. Elev. 1273.6± feet on 10/20/41 Storage 224. Acre Feet
Max. Peak Inf. 468.0 C.F.S. from 2:00 A.M. on 12/29/41 to 3:00 A.M. on 12/29/41
Max. Peak Outf. 8880. C.F.S. 2:30 P.M. on 11/7/41 (valve test)
Gage heights and storages as of midnight on day shown.

RECORDS COLLECTED BY: Ralph Harrison, Dam Tender; T. A. Cooper, Hydrographer; Hydrographer

COMPUTATIONS Date: Gage Hts. copied H.A.V.; Storage applied H.A.V.; Inf. & Outf. computed H.A.V.; Checked W.E.C.

() = Monthly total evaporation loss.
$ = Corrected for 9 acre-feet debris loss.
• = Reservoir gage heights above coffer dam: storages include storage below coffer dam.

SAN GABRIEL NO. 1 (CONT.)

F. C. Dist. Form 68 Revised 600 5/39

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In San Gabriel Canyon for the Year Ending September 30, 19 42

Drainage Area 202. Square Miles. Capacity of Reservoir 45,862 Ac. Ft. at Spillway Elev. 1453.0 Ft.

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1329.90	5125	82.6	82.1	1331.35	5341	71.5	85.6	1331.75	5401	72.0	67.8	1334.10	5767	90.9	30.1	1
2	1329.90	5125	82.5	82.1	1331.25	5326	72.1	79.2	1331.85	5416	76.1	67.8	1334.75	5872	84.5	30.1	2
3	1329.85	5118	79.0	82.1	1331.35	5341	74.4	66.1	1332.00	5439	79.4	67.8	1335.30	5968	80.1	30.1	3
4	1329.80	5111	78.8	82.1	1331.40	5348	70.7	66.1	1332.85	5570	147.6	81.2	1335.95	6068	82.0	30.1	4
5	1329.80	5111	77.4	77.1	1331.45	5356	70.8	66.1	1333.20	5625	116.5	87.9	1336.50	6160	77.6	30.1	5
6	1329.85	5118	76.0	72.1	1331.55	5371	74.1	66.1	1333.05	5601	109.4	121.1	1336.70	6193	76.7	59.1	6
7	1329.90	5125	76.0	72.1	1331.60	5379	71.0	66.1	1333.10	5609	92.5	87.9	1337.15	6260	79.6	45.0	7
8	1329.95	5133	77.0	72.1	1331.65	5386	70.9	66.1	1332.75	5555	93.3	120.1	1337.50	6329	80.8	45.0	8
9	1329.95	5133	73.0	72.1	1331.70	5394	70.7	66.1	1332.80	5562	91.7	87.9	1337.90	6398	81.0	45.0	9
10	1329.95	5133	73.0	72.1	1331.75	5401	70.0	66.1	1333.15	5617	116.9	89.0	1338.30	6468	81.0	45.0	10
11	1330.00	5140	73.6	69.2	1331.85	5416	75.8	68.1	1333.60	5688	122.3	86.3	1338.65	6531	77.8	45.0	11
12	1330.00	5140	68.0	67.2	1331.95	5431	79.8	72.1	1334.00	5751	115.6	83.4	1339.00	6590	80.9	49.8	12
13	1330.05	5147	71.4	67.2	1331.95	5431	72.4	72.1	1333.80	5719	113.4	129.1	1338.90	6572	79.3	87.0	13
14	1330.10	5155	71.8	67.2	1332.30	5485	105.5	78.0	1334.25	5791	119.8	83.4	1339.00	6599	76.4	61.4	14
15	1330.10	5155	67.9	67.2	1332.45	5508	102.1	89.9	1334.65	5856	116.7	83.4	1339.15	6617	75.0	64.9	15
16	1330.10	5155	67.9	67.2	1332.50	5516	94.5	89.9	1335.25	5953	106.4	56.9	1339.30	6643	79.1	64.9	16
17	1330.20	5170	71.1	62.5	1332.50	5516	90.7	89.9	1336.25	6118	114.6	30.5	1339.40	6661	75.1	64.9	17
18	1330.25	5177	63.8	60.2	1332.45	5508	86.3	89.9	1337.10	6260	103.6	31.1	1339.10	6608	74.4	99.7	18
19	1330.30	5184	64.4	60.2	1332.40	5501	87.0	89.9	1337.90	6398	101.7	31.1	1338.85	6564	76.2	96.4	19
20	1330.40	5199	68.3	60.2	1332.35	5493	87.1	89.9	1336.85	6218	102.0	191.9	1338.80	6555	72.1	74.5	20
21	1330.85	5266	94.0	60.2	1332.25	5478	83.5	89.9	1337.30	6295	106.4	67.0	1338.05	6424	71.5	136.5	21
22	1331.80	5409	153.8	81.3	1332.15	5462	83.1	89.9	1333.60	5688	129.8	435.5	1337.55	6338	74.1	116.5	22
23	1331.80	5409	92.4	91.9	1332.05	5447	78.1	85.1	1330.20	5170	120.1	380.3	1337.50	6329	70.1	73.9	23
24	1331.75	5401	87.1	90.6	1332.10	5454	79.3	75.1	1329.20	5023	106.3	179.1	1337.45	6320	69.9	73.3	24
25	1331.65	5386	82.9	89.9	1332.20	5470	84.3	75.1	1330.10	5155	97.4	30.1	1337.35	6303	68.0	75.6	25
26	1331.80	5409	76.7	64.6	1332.20	5470	76.5	75.1	1330.95	5281	94.2	30.1	1337.20	6277	68.8	80.2	26
27	1331.70	5394	78.6	85.6	1332.20	5470	76.2	75.1	1331.95	5431	106.2	30.1	1336.70	6193	66.0	106.7	27
28	1331.55	5371	74.7	85.6	1332.15	5462	72.0	75.1	1332.75	5555	93.2	30.1	1336.50	6160	64.8	80.2	28
29					1332.10	5454	72.5	75.1	1333.10	5609	92.9	64.4	1335.70	6027	68.4	134.1	29
30					1331.90	5424	72.8	86.9	1333.35	5648	91.5	70.8	1335.50	5994	64.1	79.5	30
31					1331.70	5394	72.0	86.2					1335.30	5961	64.1	79.5	31
TOTAL			2203.7	2064.0			2447.7	2411.9			3149.5	3003.1			2330.3	2134.1	
Inf. Ac. Ft.			4371.0				4854.9				6246.9				4622.1	41672.0	
Outf. Ac. Ft.			4093.9+(31.1)				4783.9+(48.2)				5956.6+(36.3)				4232.9+(76.2)	35679.3+(271.1)	
Maximum Mean Daily Inflow			153.8				105.5				147.6				90.9	296.8	
Minimum Mean Daily Inflow			63.8				70.0				72.0				64.1	35.8	
Storage Change			+246				+23				+ 254				+313	+5722.	

REMARKS Outflows based on valve ratings. Inflows computed from storage changes. % Year

Max. W. S. Elev.	1339.4	feet on 5/17-18/42	Storage 6661.	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	Date
Min. W. S. Elev.	1273.6±	feet on 10/20/41	Storage 224.	Acre Feet	Ralph Harrison	Dam Tender	Gage Hts. copied	H.A.V.
Max. Peak Inf.	468.0	C.F.S. from 2:00 A.M. on 12/29/41	to 3:00 A.M. on 12/29/41		T. A. Cooper	Hydrographer	Storage applied	H.A.V.
Max. Peak Outf.	8880.	C.F.S. from 2:30 P.M. on 11/7/41	to (valve test)			Hydrographer	Inf. & Outf. computed	H.A.V.
Gage heights and storages as of midnight on day shown.							Checked	W.E.G.

() = Monthly total evaporation loss.

F. C. Dist. Form 68 Revised 600 5/39

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In San Gabriel Canyon for the Year Ending September 30, 19 42

Drainage Area 202. Square Miles. Capacity of Reservoir 45,862 Ac. Ft. at Spillway Elev. 1453.0 Ft.

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	JUNE Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JULY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1334.55	5830	60.2	125.0	1325.55	4513	38.5	50.8	1312.00	2860	29.4	50.2	1296.80	1399	25.5	49.7	1
2	1333.55	5680	70.8	145.4	1325.40	4493	41.9	50.8	1311.60	2816	29.3	50.2	1296.20	1351	26.1	49.7	2
3	1333.50	5672	62.0	64.9	1325.20	4466	38.4	50.8	1311.20	2773	29.6	50.2	1295.55	1300	24.6	49.7	3
4	1333.40	5656	58.0	64.9	1325.00	4439	38.7	50.8	1310.75	2724	26.4	50.2	1294.90	1249	24.6	49.7	4
5	1333.30	5640	58.1	64.9	1324.80	4412	38.9	50.8	1310.25	2670	24.0	50.2	1294.20	1196	23.7	49.7	5
6	1333.20	5625	58.3	64.9	1324.55	4379	35.8	50.8	1309.75	2617	24.7	50.2	1293.45	1141	22.6	49.7	6
7	1333.10	5609	58.0	64.9	1324.30	4346	35.8	50.8	1309.25	2565	25.1	50.2	1292.70	1087	23.1	49.7	7
8	1333.00	5593	55.3	62.3	1324.05	4313	35.7	50.8	1308.75	2512	24.4	50.2	1291.95	1034	23.6	49.7	8
9	1332.90	5578	53.6	60.2	1323.80	4280	35.6	50.8	1308.30	2465	26.7	50.2	1291.20	982	24.0	49.7	9
10	1332.80	5562	53.8	60.8	1323.60	4254	39.0	50.8	1308.90	2528	88.4	56.0	1290.40	929	22.9	49.4	10
11	1332.70	5547	54.1	60.8	1323.35	4221	35.7	50.8	1308.80	2517	45.6	50.2	1289.60	878	23.9	49.2	11
12	1332.60	5531	53.8	61.1	1323.10	4188	35.2	50.5	1308.60	2496	40.5	50.2	1288.80	828	24.4	49.2	12
13	1332.50	5516	54.9	61.4	1322.80	4149	31.8	50.2	1308.10	2444	31.6	56.9	1288.20	792	31.6	49.2	13
14	1332.35	5493	51.0	61.4	1322.55	4117	35.2	50.2	1307.70	2403	31.1	50.9	1287.60	757	32.0	49.2	14
15	1331.60	5379	54.2	110.8	1322.30	4085	35.3	50.2	1307.35	2368	32.5	49.2	1287.10	729	34.9	48.6	15
16	1330.85	5266	54.7	110.8	1321.30	3958	37.5	100.2	1307.00	2332	30.9	48.2	1286.40	690	29.9	49.3	16
17	1330.70	5244	50.8	60.8	1319.55	3740	41.8	150.6	1306.55	2287	27.2	49.1	1285.65	651	30.9	50.2	17
18	1330.50	5214	46.8	60.8	1319.30	3709	36.8	51.3	1306.10	2242	28.4	50.3	1284.90	612	30.3	49.7	18
19	1330.30	5184	46.8	60.8	1318.95	3666	31.0	51.3	1305.60	2192	26.0	50.3	1284.15	575	31.0	49.2	19
20	1330.10	5155	47.6	60.8	1318.65	3630	34.3	51.3	1305.10	2143	26.5	50.3	1283.30	535	30.1	49.8	20
21	1329.90	5125	47.3	60.8	1318.35	3593	33.6	51.0	1304.55	2090	24.4	50.3	1282.25	°492	28.9	50.2	21
22	1329.70	5096	47.6	60.8	1318.00	3551	30.7	50.8	1304.00	2037	24.0	49.8	1281.00	°446	27.4	50.2	22
23	1329.45	5060	44.3	60.8	1317.65	3509	30.8	50.8	1303.50	1990	27.0	49.8	1279.20	°397	24.9	49.2	23
24	1329.20	5023	43.5	60.8	1317.35	3473	33.3	50.2	1302.95	1938	24.5	49.9	1276.40	°343	20.0	47.0	24
25	1328.95	4987	43.7	60.8	1317.05	3437	32.9	50.0	1302.40	1886	25.6	50.9	1275 +	°305	22.2	41.2	25
26	1328.70	4951	43.8	60.8	1316.70	3396	31.3	50.8	1301.80	1831	24.0	50.9	1275 +	°293	22.3	28.2	26
27	1327.15	4733	51.4	160.2	1316.35	3354	30.9	50.8	1300.35	1700	24.3	89.4	1275 +	°284	22.3	26.6	27
28	1326.25	4609	48.4	109.6	1316.00	3313	31.4	50.8	1299.15	1595	21.8	74.2	1275 +	°277	22.4	25.9	28
29	1326.00	4574	44.1	60.7	1314.00	3083	36.2	150.8	1298.60	1548	27.2	50.1	1275 +	°273	22.1	24.0	29
30	1325.75	4540	42.0	57.9	1312.80	2948	34.1	100.8	1298.00	1498	25.5	50.1	1275 +	°268	21.8	24.1	30
31					1312.40	2904	29.3	50.2	1297.40	1448	25.4	50.1					31
TOTAL			1558.9	2240.9			1087.4	1871.6			922.0	1628.9			774.0	1356.9	
Inf. Ac. Ft.			3092.0				2156.8				1828.8				1535.2	50284.8	
Outf. Ac. Ft.			4444.8+(68.2)				3712.3+(80.5)				3230.9+(54.0)				2691.4+(23.8)	49758.7+(497.6)	
Maximum Mean Daily Inflow			70.8				41.9				88.4				34.9	296.8	
Minimum Mean Daily Inflow			42.0				29.3				24.0				20.0	20.0	
Storage Change			- 421				-1636				- 1456				-1180	+29	

REMARKS Outflows Based on valve ratings. Inflows computed from storage changes. Yearly Totals

Max. W. S. Elev.	1339.4	feet on 5/17-18/42	Storage 6661.	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	Date
Min. W. S. Elev.	1273.6±	feet on 10/20/41	Storage 224.	Acre Feet	Ralph Harrison	Dam Tender	Gage Hts. copied	H.A.V.
Max. Peak Inf.	468.0	C.F.S. from 2:00 A.M. on 12/29/41	to 3:00 A.M. on 12/29/41		T. A. Cooper	Hydrographer	Storage applied	H.A.V.
Max. Peak Outf.	8880.	C.F.S. from 2:30 P.M. on 11/7/41	to (valve test)			Hydrographer	Inf. & Outf. computed	H.A.V.
Gage heights and storages as of midnight on day shown.							Checked	W.E.G.

() = Monthly total evaporation loss.
° = Reservoir gage heights above coffer dam; storages include storage below coffer dam.

BIG DALTON

F. C. Dist. Form 68 Revised 600 5/29

Storages based on L.A.C.F.C.D. silt survey following March 2, 1938 (Table IV)

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In Big Dalton Canyon for the Year Ending September 30, 1942

Continuous Water Stage Recorder Au

Drainage Area 4.5 Square Miles. Capacity of Reservoir 968.7 Ac. Ft. at Spillway Elev. 1706.0 Ft.

Gage Heights Read Daily

Day	OCTOBER 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	1622.8	22.3	0.2	1.0	1612.4	4.5	0.2	0.3	1612.4	4.5	0.2	0.2	1625.7	29.7	1.5	0	1
2	1620.1	16.5	0.2	3.1	1612.4	4.5	0.2	0.2	1612.4	4.5	0.2	0.2	1626.4	31.6	0.9	0	2
3	1619.2	13.0	0.2	1.9	1612.7	5.3	0.2	0	1612.4	4.5	0.4	E 0.4	1627.0	33.3	0.9	0	3
4	1616.6	10.3	0.2	1.6	1613.1	4.6	0.2	0	1612.4	4.5	0.3	0.3	1627.6	35.1	0.8	0	4
5	1615.0	7.9	0.2	1.4	1612.5	4.5	0.2	0.5	1612.4	4.5	0.3	0.3	1628.1	36.6	0.8	0	5
6	1613.2	5.5	0.2	1.4	1612.4	4.5	0.2	0.3	1612.4	4.5	0.3	0.3	1628.6	38.2	0.8	0	6
7	1612.4	4.5	0.2	0.7	1612.4	4.5	0.2	0.2	1612.4	4.5	0.3	0.3	1629.0	39.4	0.7	0	7
8	1612.4	4.5	0.2	0.2	1612.4	4.5	0.2	0.2	1612.4	4.5	0.3	0.3	1629.4	40.7	0.6	0	8
9	1612.4	4.5	0.2	0.2	1612.4	4.5	0.2	0.2	1612.4	4.5	0.3	0.3	1629.8	42.0	0.6	0	9
10	1612.4	4.5	0.2	0.2	1612.4	4.5	0.2	0.2	1612.4	4.5	0.4	0.4	1630.1	43.0	0.6	0	10
11	1612.4	4.5	0.2	0.2	1612.4	4.5	0.2	0.2	1612.4	4.5	0.4	0.4	1630.4	44.1	0.5	0	11
12	1612.4	4.5	0.2	0.2	1612.4	4.5	0.3	0.3	1612.4	4.5	0.3	0.3	1630.7	45.1	0.5	0	12
13	1612.4	4.5	0.2	0.2	1612.4	4.5	0.2	0.2	1612.4	4.5	0.3	0.3	1631.0	46.1	0.5	0	13
14	1612.6	4.7	0.2	0	1612.4	4.5	0.2	0.2	1612.4	4.5	0.3	0.3	1631.3	47.2	0.5	0	14
15	1613.1	5.3	0.2	0	1612.4	4.5	0.2	0.2	1612.7	4.8	0.3	0.1	1631.6	48.3	0.5	0	15
16	1613.4	5.7	0.2	0	1612.4	4.5	0.2	0.2	1613.2	5.5	0.4	0.1	1631.8	49.0	0.5	0	16
17	1612.7	4.8	0.2	0.7	1612.4	4.5	0.2	0.2	1613.7	6.1	0.3	0	1632.1	50.1	0.5	0	17
18	1612.4	4.5	0.2	0.3	1612.4	4.5	0.2	0.2	1614.1	6.7	0.3	0	1632.3	50.8	0.5	0	18
19	1612.4	4.5	0.2	0.2	1612.4	4.5	0.2	0.2	1614.6	7.4	0.3	0	1632.6	51.9	0.5	0	19
20	1612.4	4.5	0.2	0.2	1612.4	4.5	0.2	0.2	1615.0	7.9	0.3	0	1632.8	52.7	0.4	0	20
21	1612.4	4.5	0.2	0.2	1612.4	4.5	0.2	0.2	1615.4	8.5	0.3	0	1633.0	53.4	0.4	0	21
22	1612.7	4.8	0.3	0.2	1612.4	4.5	0.2	0.2	1615.8	9.1	0.3	0	1633.3	54.8	0.5	0	22
23	1612.8	5.0	0.2	0.1	1612.4	4.5	0.2	0.2	1616.5	10.1	0.5	0	1633.5	55.4	0.4	0	23
24	1612.8	5.0	0.2	0.2	1612.4	4.5	0.2	0.2	1617.0	10.9	0.4	0	1633.7	56.1	0.4	0	24
25	1612.5	4.6	0.2	0.4	1612.4	4.5	0.2	0.2	1617.6	11.5	0.5	0	1633.5	56.5	0.5	0	25
26	1612.4	4.5	0.2	0.2	1612.4	4.5	0.2	0.2	1618.2	13.0	0.6	0	1634.2	58.1	0.5	0	26
27	1612.8	5.0	0.3	0.1	1612.4	4.5	0.2	0.2	1618.7	13.6	0.4	0	1634.4	58.5	0.4	0	27
28	1612.5	4.6	0.2	0.4	1612.4	4.5	0.2	0.2	1619.6	15.5	0.8	0	1634.6	59.7	0.4	0	28
29	1612.4	4.5	0.2	0.2	1612.4	4.5	0.2	0.2	1621.7	19.5	2.5	0	1634.8	60.5	0.4	0	29
30	1612.7	4.8	0.2	0.1	1612.4	4.5	0.2	0.2	1623.3	23.5	1.8	0	1635.0	61.3	0.4	0	30
31	1612.5	4.6	0.2	0.3					1624.6	26.8	1.6	0	1635.2	62.1	0.4	0	31
TOTAL			6.4	16.1			6.1	6.2			15.7	4.5			17.8	0	
Inf. Ac. Ft.			12.7				12.1				31.1				35.5	91.2	
Outf. Ac. Ft.				31.9				12.3				3.9			0	53.1	
Maximum Mean Daily Inflow			0.3				0.3				2.5				1.5	2.3	
Minimum Mean Daily Inflow			0.2				0.2				0.2				0.4	0.2	
Storage Change			-12.2				-0.1				+22.3				+35.5	+38.5	
																½ Year	

REMARKS

Max. W. S. Elev. 1650.5 feet on 5/20 & 21/42 Storage 152.9 Acre Feet
Min. W. S. Elev. 1595.1 feet on Various times Storage Dry Acre Feet
Max. Peak Inf. 6.0 C.F.S. from 3:00 P.M. on 3/14/42 to 4:00 P.M. on 3/14/42
Max. Peak Outf. Undetermined C.F.S. during sluicing in August
Gage height and storage as of midnight on day shown.

RECORDS COLLECTED BY
H. P. Keiser — Dam Tender
C. C. Green — Hydrographer
C. L. Brewster — Hydrographer

COMPUTATIONS — Date
Gage Hts. copied H.A.V. 7/1/42
Storage applied H.A.V. 7/1/42
Inf. & Outf. computed H.A.V. 7/2/42
Checked W.E.C. 7/22/42

(= Mean for period.
E = Estimated.
Note: Outflows based on Station 120 and valve operation records.

F. C. Dist. Form 68 Revised 600 5/29

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In Big Dalton Canyon for the Year Ending September 30, 1942

Continuous Water Stage Recorder Au

Drainage Area 4.5 Square Miles. Capacity of Reservoir 968.7 Ac. Ft. at Spillway Elev. 1706.0 Ft.

Gage Heights Read Daily

Day	FEBRUARY 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	1635.4	63.0	0.4	0	1640.2	85.0	0.3	0	1645.3	114.4	0.4	0	1649.2	142.5	0.4	0	1
2	1635.5	63.4	0.3	0	1640.3	85.6	0.3	0	1645.4	115.0	0.3	0	1649.3	143.3	0.4	0	2
3	1635.7	64.2	0.4	0	1640.5	86.6	0.4	0	1645.5	115.7	0.3	0	1649.4	144.1	0.4	0	3
4	1635.9	65.1	0.4	0	1640.6	87.1	0.3	0	1645.7	117.0	0.7	0	1649.5	144.9	0.4	0	4
5	1636.1	65.9	0.4	0	1640.7	87.6	0.3	0	1645.9	118.3	0.6	0	1649.6	145.6	0.4	0	5
6	1636.3	66.8	0.4	0	1640.9	88.7	0.4	0	1646.0	119.0	0.4	0	1649.6	145.6	0.3	0	6
7	1636.4	67.3	0.4	0	1641.0	89.2	0.3	0	1646.1	119.7	0.3	0	1649.7	146.4	0.3	0	7
8	1636.6	68.1	0.4	0	1641.1	89.7	0.3	0	1646.2	120.4	0.4	0	1649.8	147.2	0.3	0	8
9	1636.8	69.0	0.4	0	1641.2	90.3	0.3	0	1646.3	121.1	0.3	0	1649.8	147.2	0.3	0	9
10	1637.0	69.9	0.4	0	1641.3	90.8	0.3	0	1646.5	122.5	0.7	0	1649.9	148.0	0.3	0	10
11	1637.1	70.4	0.3	0	1641.6	92.4	0.8	0	1646.7	123.9	0.7	0	1649.9	148.0	0.3	0	11
12	1637.2	70.8	0.3	0	1641.8	93.4	0.5	0	1646.8	124.6	0.5	0	1650.0	148.8	0.2	0	12
13	1637.4	71.7	0.3	0	1642.0	94.5	0.5	0	1647.0	126.0	0.6	0	1650.0	148.8	0.2	0	13
14	1637.5	72.2	0.3	0	1642.4	96.8	1.2	0	1647.2	127.5	0.6	0	1650.1	149.6	0.2	0	14
15	1637.6	72.6	0.3	0	1642.8	99.1	1.0	0	1647.3	128.2	0.2	0	1650.2	150.4	0.2	0	15
16	1637.7	73.1	0.3	0	1643.3	100.2	0.7	0	1647.4	128.9	0.4	0	1650.2	150.4	0.2	0	16
17	1637.9	74.0	0.3	0	1643.2	101.4	0.6	0	1647.6	130.4	0.7	0	1650.3	151.2	0.2	0	17
18	1638.0	74.4	0.3	0	1643.4	102.6	0.6	0	1647.8	131.8	0.7	0	1650.3	151.2	0.2	0	18
19	1638.1	74.9	0.3	0	1643.6	103.7	0.6	0	1647.9	132.6	0.4	0	1650.4	152.0	0.2	0	19
20	1638.3	75.8	0.3	0	1643.8	104.9	0.6	0	1648.0	133.3	0.4	0	1650.5	152.9	0.2	0	20
21	1638.6	77.2	0.7	0	1644.0	106.1	0.5	0	1648.1	134.1	0.4	0	1650.2	150.4	0.1	1.2	21
22	1638.9	78.6	0.7	0	1644.1	106.7	0.5	0	1648.3	135.6	0.7	0	1649.8	147.2	0.1	1.5	22
23	1639.1	79.6	0.5	0	1644.2	107.4	0.4	0	1648.4	136.3	0.4	0	1649.4	144.1	0.1	1.5	23
24	1639.3	80.6	0.5	0	1644.4	108.6	0.4	0	1648.5	137.1	0.4	0	1649.1	141.7	0.1	1.5	24
25	1639.5	81.6	0.5	0	1644.5	109.3	0.4	0	1648.6	137.9	0.4	0	1648.6	137.9	0.1	1.9	25
26	1639.7	82.5	0.5	0	1644.6	109.9	0.4	0	1648.7	138.6	0.4	0	1648.0	133.3	0.1	2.5	26
27	1639.9	83.5	0.5	0	1644.7	110.5	0.4	0	1648.8	139.4	0.3	0	1647.4	128.9	0.1	2.5	27
28	1640.1	84.5	0.5	0	1644.9	111.8	0.4	0	1648.9	140.1	0.4	0	1646.7	123.9	0.1	2.5	28
29					1645.0	112.4	0.4	0	1649.0	140.9	0.4	0	1646.0	119.0	0.1	2.5	29
30					1645.1	113.1	0.3	0	1649.1	141.7	0.4	0	1645.3	114.4	0.1	2.4	30
31					1645.2	113.7	0.3	0					1644.7	110.5	0.1	2.4	31
TOTAL			11.3	0			14.7	0			14.1	0			6.7	22.4	
Inf. Ac. Ft.			22.4				29.2				28.0				13.3	184.1	
Outf. Ac. Ft.				0				0				0			44.4	97.5	
Maximum Mean Daily Inflow			0.7				1.2				0.8				0.4	2.3	
Minimum Mean Daily Inflow			0.3				0.3				0.3				0.1	0.1	
Storage Change			+22.4				+29.2				+28.0				-31.2	+66.7	
																½ Year	

REMARKS

Max. W. S. Elev. 1650.5 feet on 5/20 & 21/42 Storage 152.9 Acre Feet
Min. W. S. Elev. 1595.1 feet on Various times Storage Dry Acre Feet
Max. Peak Inf. 6.0 C.F.S. from 3:00 P.M. on 3/14/42 to 4:00 P.M. on 3/14/42
Max. Peak Outf. Undetermined C.F.S. during sluicing in August
Gage height and storage as of midnight on day shown.

RECORDS COLLECTED BY
H. P. Keiser — Dam Tender
C. C. Green — Hydrographer
C. L. Brewster — Hydrographer

COMPUTATIONS — Date
Gage Hts. copied H.A.V. 7/1/42
Storage applied H.A.V. 7/1/42
Inf. & Outf. computed H.A.V. 7/2/42
Checked W.E.C. 7/22/42

(= Mean for period.

F. C. Dist. Form 68 Revised 600 5/39

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In Big Dalton Canyon for the Year Ending September 30, 1942

Drainage Area 4.5 Square Miles. Capacity of Reservoir 968.7 Ac. Ft. at Spillway Elev. 1706.0 Ft.

Continuous Water Stage Recorder All

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	1644.0	106.1	E 0.1	2.4	1618.5	13.5	0.2	0
2	1643.2	101.4	0.1	2.3	1618.7	13.9	0.2	0
3	1642.4	96.8	0.1	2.3	1618.8	14.0	0.2	0
4	1641.7	92.9	0.1	2.3	1619.1	14.6	0.2	0
5	1640.9	88.7	0.1	2.2	1619.3	15.0	0.2	0
6	1640.2	85.0	0.1	2.0	1619.4	15.2	0.2	0
7	1639.4	81.1	0.1	2.0	1619.6	15.5	0.2	0
8	1638.6	77.2	0.1	1.9	1619.7	15.7	0.2	0
9	1637.9	74.0	0.1	1.9	1619.9	16.1	0.2	0
10	1637.1	70.4	0.1	1.9	1620.0	16.3	0.1	0
11	1636.3	66.8	0.1	1.9	1620.1	16.5	0.1	0
12	1635.3	62.6	0.1	2.3	1620.3	16.9	0.1	0
13	1634.3	58.5	0.1	2.2	1620.4	17.1	0.1	0
14	1633.2	54.2	0.1	2.2	1620.5	17.4	0.1	0
15	1632.1	50.1	0.1	2.2	1620.6	17.6	0.1	0
16	1631.0	46.1	0.1	2.1	1620.7	17.8	0.1	0
17	1630.0	42.7	0.1	2.1	1620.8	18.0	0.1	0
18	1629.0	39.4	0.1	2.0	1621.0	18.4	0.1	0
19	1628.0	36.3	0.1	1.9	1621.1	18.6	0.1	0
20	1626.7	32.5	0.1	1.8	1621.2	18.8	0.1	0
21	1625.3	28.6	0.1	1.8	1619.7	15.7	E 0.1	1.7
22	1624.0	25.2	0.1	1.8	1618.1	12.8	E 0.1	1.6
23	1622.5	21.7	0.1	1.7	1617.6	11.9	E 0.1	0.5
24	1620.9	18.2	0.1	1.7	1615.6	8.8	E 0.1	1.6
25	1619.3	15.0	0.1	1.7	1613.8	6.3	E 0.1	1.4
26	1618.5	13.5	0.1	0.8	1612.7	4.8	E 0.1	0.9
27	1618.3	13.1	0.1	0.4	1612.5	4.6	E 0.1	0.2
28	1618.0	12.6	0.1	0.3	1612.4	4.5	E 0.05	0.1
29	1618.0	12.6	0.1	0.1	1612.3	4.3	E 0.05	0.1
30	1618.3	13.1	E 0.2	0	1612.3	4.3	E 0.05	0.05
31					1612.3	4.3	E 0.05	0.05
TOTAL			3.1	52.2			3.8	8.2
Inf. Ac. Ft.			6.1				7.5	
Outf. Ac. Ft.				103.5				16.3
Maximum Mean Daily Inflow			0.2				0.2	
Minimum Mean Daily Inflow			0.1				0.1	
Storage Change			-97.4				-8.8	
REMARKS								

Day	August Gage Height	August Acre Ft. Storage	August C.F.S. Inflow	August C.F.S. Outflow	September Gage Height	September Acre Ft. Storage	September C.F.S. Inflow	September C.F.S. Outflow
1	1612.3	4.3	E 0.05	0.05			0.05	0.05
2	1612.3	4.3	0.05	0.05			0.05	0.05
3	1612.3	4.3	0.05	0.05			0.05	0.05
4	1611.8	3.7	0.05	0.3			0.05	0.05
5	1611.7	3.6	0.05	0			0.05	0.05
6	1611.9	3.9	0.05	0			0.05	0.05
7	1612.1	4.1	0.05	0			0.05	0.05
8	1612.2	4.2	0.05	0			0.05	0.05
9	1612.4	4.5	0.05	0			0.05	0.05
10	1612.3	4.3	0.05	0.1			0.05	0.05
11	1612.2	4.2	0.05	0.1			0.05	0.05
12	1612.2	4.2	0.05	0			0.05	0.05
13	1595 ±	0	0.05	2.2			0.05	0.05
14			0.5•	0.5			0.05	0.05
15			1.0•	1.0	Reservoir Dry	No Storage	0.05	0.05
16			0.5•	0.5			0.05	0.05
17			0.05•	0.05			0.05	0.05
18			0.1•	0.1			0.05	0.05
19			0.5•	0.5			0.05	0.05
20	Reservoir Dry	No Storage	0.5•	0.5			0.05	0.05
21			0.1•	0.1			0.05	0.05
22			0.05	0.05			0.05	0.05
23			0.05	0.05			0.05	0.05
24			0.05	0.05			0.05	0.05
25			0.05	0.05			0.05	0.05
26			0.05	0.05			0.05	0.05
27			0.05	0.05			0.05	0.05
28			0.05	0.05			0.05	0.05
29			0.05	0.05			0.05	0.05
30			0.05	0.05			0.05	0.05
31			E 0.05	0.05				
TOTAL			4.4	6.6			1.5	1.5
Inf. Ac. Ft.			8.7				3.0	209.4
Outf. Ac. Ft.				13.1			3.0	233.4
Maximum Mean Daily Inflow			1.0•				0.05	2.3
Minimum Mean Daily Inflow			0.05				0.05	0.05
Storage Change			-4.3				0	-23.8
REMARKS								Yearly Totals

Max. W. S. Elev. 1650.5 feet on 5/20 & 21/42 Storage 152.9 Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS Date
Min. W. S. Elev. 1595.± feet on Various times Storage Dry Acre Feet	H. P. Keiser	Dam Tender	Gage Hts. copied H.A.V
Max. Peak Inf. 6.0 C.F.S. from 3:00 P.M. on 3/14/42 to 4:00 P.M. on 3/14/42	C. C. Green	Hydrographer	Storage applied H.A.V.
Max. Peak Outf. Undetermined C.F.S. during sluicing in August	C. L. Brewster	Hydrographer	Inf. & Outf. computed H.A.V. 10/21/42
Gage heights and storages as of midnight on day shown.			Checked L.T. 12/21/42

{ = Mean for period.
E = Estimated.
• = Flow bulked by bank storage during sluicing. Flow estimated by damtender.
Note: Outflows computed from storage change and compared to Station 120.

SAN DIMAS

F. C. Dist. Form 68 Revised 600 5/39

Storages based on L.A.C.F.C.D. Survey of December, 1941 (Table V)

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In San Dimas Canyon for the Year Ending September 30, 1942

Drainage Area 16.2 Square Miles. Capacity of Reservoir 1145.4 Ac. Ft. at Spillway Elev. 1462.0 Ft.

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	October Gage Height	October Acre Ft. Storage	October C.F.S. Inflow	October C.F.S. Outflow	November Gage Height	November Acre Ft. Storage	November C.F.S. Inflow	November C.F.S. Outflow
1	1437.1	**417.0	2.5	i 7.0	1432.5	335.2	2.5	• 0.1
2	1436.6	407.0	2.5	6.9	1432.8	339.8	2.5	• 0.1
3	1436.2	399.1	2.5	6.9	1433.1	344.5	2.5	• 0.1
4	1435.7	389.6	2.5	6.8	1433.4	349.5	2.5	• 0.1
5	1435.3	382.2	2.6	6.8	1433.7	354.4	2.5	• 0.1
6	1434.9	375.0	2.8	6.7	1434.0	359.3	2.3	• 0.1
7	1434.5	368.0	2.8	6.7	1434.2	362.8	2.3	• 0.1
8	1434.0	359.3	2.9	6.6	1434.5	368.0	2.3	• 0.1
9	1433.6	352.7	2.8	6.6	1434.7	371.5	2.2	• 0.1
10	1433.1	344.5	2.8	6.5	1434.8	373.2	2.1	0.8
11	1432.6	336.7	2.7	6.5	1434.9	375.0	2.0	1.6
12	1432.1	329.0	2.6	6.4	1435.2	380.4	3.3	0.5
13	1431.6	321.6	2.5	6.4	1435.4	384.1	2.3	0.5
14	1431.1	314.3	2.4	6.3	1435.5	386.0	2.3	1.8
15	1430.5	305.9	2.3	6.3	1435.4	384.1	2.3	2.5
16	1429.9	297.7	2.2	i 6.2	1435.4	384.1	2.2	2.5
17	1429.3	289.9	2.2	6.2	1435.2	380.4	3.0	4.6
18	1428.7	282.2	2.2	6.2	1434.9	375.0	2.9	5.6
19	1428.2	276.0	i 2.2	5.3	1434.6	369.7	2.8	5.6
20	1427.8	271.1	i 2.2	4.7	1434.3	364.5	2.8	5.6
21	1427.5	267.4	2.8	4.7	1434.0	359.3	2.8	5.6
22	1428.0	273.5	4.7	1.6	1433.7	354.4	2.8	5.6
23	1428.7	282.2	4.5	• 0.1	1433.3	347.8	2.8	5.6
24	1429.3	289.9	4.0	• 0.1	1433.0	342.9	2.8	5.6
25	1429.7	295.1	2.7	• 0.1	1432.6	336.7	2.8	5.6
26	1430.1	300.4	2.8	• 0.1	1432.2	330.5	2.9	5.6
27	1430.6	307.3	3.6	• 0.1	1431.9	325.9	2.9	5.6
28	1431.1	314.3	3.6	• 0.1	1431.5	320.1	3.2	5.6
29	1431.5	320.1	3.0	• 0.1	1431.2	315.7	3.2	5.6
30	1431.8	324.5	2.8	• 0.1	1430.9	311.4	3.1	5.6
31	1432.2	330.5	2.7	• 0.1				
TOTAL			87.4	135.2			78.9	88.5
Inf. Ac. Ft.			173.4				156.5	
Outf. Ac. Ft.				268.2				175.5
Maximum Mean Daily Inflow			4.7				3.3	
Minimum Mean Daily Inflow			2.2				2.0	
Storage Change			-94.9				-19.1	
REMARKS								

Day	December Gage Height	December Acre Ft. Storage	December C.F.S. Inflow	December C.F.S. Outflow	January Gage Height	January Acre Ft. Storage	January C.F.S. Inflow	January C.F.S. Outflow
1	1430.5	305.9	2.8	5.6	1425.9	248.3	6.5	• 0.1
2	1430.1	300.4	2.9	5.6	1426.8	258.9	5.4	• 0.1
3	1430.0	299.0	4.8	5.6	1427.5	267.4	4.4	• 0.1
4	1429.7	295.1	3.7	5.6	1428.2	276.0	4.4	• 0.1
5	1429.4	291.2	3.6	5.6	1428.8	283.5	3.9	• 0.1
6	1429.0	286.0	3.0	5.6	1429.3	289.9	3.7	• 0.1
7	1428.6	281.0	3.1	5.6	1429.9	297.7	3.6	• 0.1
8	1428.2	276.0	3.1	5.6	1430.4	304.5	3.6	• 0.1
9	1427.9	272.3	3.7	5.6	1430.9	311.4	3.6	• 0.1
10	1429.2	288.6	13.8	5.6	1431.4	318.6	3.4	• 0.1
11	1429.6	293.8	8.2	5.6	1431.8	324.5	3.4	• 0.1
12	1427.7	269.8	5.1	17.2	1431.3	317.2	i 3.3	7.0
13	1424.7	234.5	4.6	22.4	1430.2	301.8	i 3.3	10.8
14	1421.6	200.6	4.6	21.7	1429.1	287.3	i 3.2	10.8
15	1420.8	192.1	3.8	8.0	1427.9	272.3	i 3.2	10.7
16	1421.5	199.6	3.8	• 0.1	1426.7	257.8	i 3.2	10.6
17	1422.1	206.0	3.4	• 0.1	1425.5	243.7	i 3.1	10.2
18	1422.7	212.5	3.3	• 0.1	1424.3	230.1	i 3.1	10.1
19	1423.2	217.9	3.2	• 0.1	1423.0	215.7	i 3.0	10.1
20	1423.8	224.5	3.1	• 0.1	1422.9	214.6	i 3.0	3.5
21	1424.3	230.1	2.9	• 0.1	1423.4	220.1	3.1	• 0.1
22	1424.8	235.7	2.9	• 0.1	1424.0	226.7	3.0	• 0.1
23	1425.6	244.9	4.8	• 0.1	1424.5	232.3	3.0	• 0.1
24	1426.3	253.0	4.2	• 0.1	1425.0	237.9	3.0	• 0.1
25	1427.0	261.3	4.2	• 0.1	1425.5	243.7	3.0	• 0.1
26	1426.5	255.4	6.1	9.0	1426.0	249.5	3.0	• 0.1
27	1424.5	232.3	6.0	17.7	1426.5	255.4	2.9	• 0.1
28	1422.7	212.5	7.4	17.4	1427.0	261.3	2.9	• 0.1
29	1422.8	213.5	15.6	15.1	1427.5	267.4	2.9	• 0.1
30	1423.6	222.3	10.1	5.6	1427.9	272.3	2.9	• 0.1
31	1424.8	235.7	6.8	0.1	1428.3	277.2	2.9	• 0.1
TOTAL			158.6	196.8			106.9	86.0
Inf. Ac. Ft.			314.6				212.0	856.5
Outf. Ac. Ft.				390.3			170.6	1004.6
Maximum Mean Daily Inflow			15.6				6.5	15.6
Minimum Mean Daily Inflow			2.8				2.9	2.0
Storage Change			-75.7				+ 41.5	**-148.2
REMARKS								½ Year

Max. W. S. Elev. 1445.7 feet on 5/7/42 Storage 624.5 Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS Date
Min. W. S. Elev. 1419.0 feet on 9/30/42 Storage 173.4 Acre Feet	G. W. Rodgers	Dam Tender	Gage Hts. copied H.A.V.
Max. Peak Inf. 29. C.F.S. from 2:30 P.M. on 12/10/41 to 3:00 P.M. on 12/10/41	C. L. Brewster	Hydrographer	Storage applied H.A.V.
Max. Peak Outf. 23.0 c.f.s. to 21.2 C.F.S. from 8:00 A.M. on 12/12/41 to 9:00 A.M. on 12/15/41		Hydrographer	Inf. & Outf. computed H.A.V. 7/17/42
Gage heights and storage as of midnight on day shown.			Checked L.T. 10/6/42

(= Mean for period.
• = Gate leakage.
** = Storages corrected for 40.0 A.F. Debris loss beginning October 1, 1941.
Note: Outflows indicated by valve operation records and measurements.
i = Interpolated.

SAN DIMAS (CONT.)

F. C. Dist. Form 68 Revised 600 5/38

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In San Dimas Canyon for the Year Ending September 30, 1942

Continuous Water Stage Recorder Au

Drainage Area 16.2 Square Miles. Capacity of Reservoir 1145.4 Ac. Ft. at Spillway Elev. 1462.0 Ft.

Gage Heights Read Daily

Day	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1428.7	282.2	2.7	•0.1	1428.1	274.8	2.6	•0.1	1437.9	433.8	2.2	•0.1	1445.0	605.7	2.1	•0.1	1
2	1429.1	287.3	2.7	•0.1	1428.5	279.8	2.6	•0.1	1438.1	438.1	2.2	0.1	1445.1	608.4	2.0	•0.1	2
3	1429.5	292.5	2.7	•0.1	1428.9	284.8	2.4	•0.1	1438.3	442.5	2.4	0.1	1445.2	611.1	2.0	•0.1	3
4	1429.9	297.7	2.7	•0.1	1429.2	288.6	2.3	0.2	1438.7	451.2	4.5	0.1	1445.4	616.5	2.0	•0.1	4
5	1430.3	303.1	2.8	•0.1	1429.5	292.5	2.2	0.5	1439.0	457.8	3.4	0.1	1445.5	619.2	1.9	•0.1	5
6	1430.7	308.7	2.7	•0.1	1429.8	296.4	2.2	0.5	1439.2	462.4	2.4	0.1	1445.6	621.8	1.9	•0.1	6
7	1431.1	314.3	2.7	•0.1	1430.1	300.4	2.2	0.5	1439.4	467.0	2.5	0.1	1445.6	621.8	1.9	1.0	7
8	1431.4	318.6	2.7	•0.1	1430.3	303.1	2.2	0.5	1439.6	471.5	2.3	0.1	1445.5	619.2	1.9	3.0	8
9	1431.2	315.7	2.6	3.5	1430.5	305.9	2.2	0.7	1439.9	478.4	3.6	0.1	1445.5	619.2	1.9	3.0	9
10	1430.5	305.9	2.6	8.4	1430.6	307.3	2.2	1.0	1440.2	485.4	3.6	0.1	1445.4	616.5	1.9	3.0	10
11	1429.7	295.1	2.6	8.4	1431.1	314.3	3.9	0.4	1440.6	494.9	4.9	0.1	1445.4	616.5	1.9	3.0	11
12	1428.9	284.8	2.6	8.3	1431.5	220.1	3.1	•0.1	1440.9	501.9	3.7	0.1	1445.3	613.8	1.9	3.0	12
13	1428.0	273.5	2.6	8.3	1431.9	325.9	3.0	0.1	1441.2	509.2	3.7	0.1	1445.2	611.1	1.9	3.0	13
14	1427.1	262.5	2.6	8.2	1432.7	338.2	6.3	0.1	1441.5	516.5	3.8	0.1	1445.2	611.1	1.9	3.0	14
15	1426.2	251.9	2.6	8.1	1433.4	349.5	5.8	0.1	1441.7	521.4	2.6	0.1	1445.1	608.4	1.9	3.0	15
16	1425.2	240.2	2.6	8.0	1433.9	357.7	4.2	0.1	1441.9	526.3	2.6	0.1	1445.0	605.7	1.9	3.0	16
17	1424.2	228.9	2.5	7.9	1434.3	364.5	3.5	0.1	1442.2	533.7	3.8	0.1	1445.0	605.7	1.9	3.0	17
18	1423.5	221.2	2.5	6.4	1434.6	369.7	2.8	0.1	1442.4	538.7	2.6	0.1	1444.9	603.1	1.9	3.0	18
19	1423.1	216.8	2.5	4.4	1434.9	375.0	2.7	0.1	1442.6	543.7	2.6	0.1	1444.8	600.4	1.9	3.0	19
20	1422.9	214.6	2.5	3.4	1435.2	380.4	2.7	0.1	1442.8	548.7	2.6	0.1	1444.7	597.8	1.9	3.0	20
21	1423.6	222.3	5.0	1.1	1435.5	386.0	2.7	0.1	1443.1	556.3	4.0	0.1	1444.6	595.2	1.9	3.0	21
22	1424.8	235.7	6.9	•0.1	1435.8	391.5	2.6	0.1	1443.3	561.4	2.6	0.1	1444.5	592.6	1.9	3.0	22
23	1425.4	242.5	3.5	•0.1	1436.0	395.2	2.6	0.1	1443.5	566.6	2.8	0.1	1444.4	589.9	1.8	3.0	23
24	1425.9	248.3	3.0	•0.1	1436.3	401.1	2.6	0.1	1443.7	571.7	2.6	0.1	1444.3	587.3	1.8	3.0	24
25	1426.4	254.2	3.1	•0.1	1436.5	405.0	2.6	0.1	1443.8	574.3	2.5	0.1	1444.2	584.7	1.8	3.0	25
26	1426.9	260.1	2.8	•0.1	1436.7	409.0	2.4	0.1	1444.0	579.4	2.5	0.1	1444.1	582.0	1.7	3.0	26
27	1427.3	265.0	2.8	•0.1	1437.0	414.9	2.2	0.1	1444.2	584.7	2.6	0.1	1444.0	579.4	1.7	3.0	27
28	1427.7	269.8	2.6	•0.1	1437.2	419.1	2.1	0.1	1444.4	589.9	2.5	0.1	1443.9	576.8	1.7	3.0	28
29					1437.4	423.3	2.1	0.1	1444.6	595.2	2.5	0.1	1443.8	574.3	1.7	3.0	29
30					1437.5	425.4	2.1	0.1	1444.8	600.4	2.5	•0.1	1443.7	571.7	1.7	3.0	30
31					1437.7	429.6	2.1	•0.1					1443.6	569.1	1.6	3.0	31
TOTAL			822	859			872	66			891	30			57.8	73.6	
Inf. Ac. Ft.			1630				1730				1767				1146	1483.8	
Outf. Ac. Ft.				1704				1311				60			1460	1340.1	
Maximum Mean Daily Inflow			6.9				6.3				4.9				2.1	15.6	
Minimum Mean Daily Inflow			2.5				2.1				2.2				1.6	1.6	
Storage Change			-74				+158				+170.8				-313	**+143.7	
REMARKS																	½ Year

Max. W. S. Elev.	1445.7	feet on 5/7/42	Storage 624.5	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS Date
Min. W. S. Elev.	1419.0	feet on 9/30/42	Storage 173.4	Acre Feet	G. W. Rodgers	Dam Tender	Gage Hts. copied H.A.V.
Max. Peak Inf.	29.	C.F.S. from 2:30 P.M. on 12/10/41 to 3:00 P.M. on 12/10/41			C. L. Brewster	Hydrographer	Storage applied H.A.V.
Max. Peak Outf. 23.0 c.f.s. to 21.2 C.F.S. from 8:00 A.M. on 12/12/41 to 9:00 A.M. on 12/15/41						Hydrographer	Inf. & Outf. computed H.A.V. 7/17/42
Gage heights and storage as of midnight on day shown.							Checked L.T. 10/6/42

(= Mean for period.
• = Gate leakage.
** = Storages corrected for 40.0 A.F. Debris loss beginning October 1, 1941.
Note: Outflows indicated by valve operation records and measurements.

F. C. Dist. Form 68 Revised 600 5/38

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In San Dimas Canyon for the Year Ending September 30, 1942

Continuous Water Stage Recorder Au

Drainage Area 16.2 Square Miles. Capacity of Reservoir 1145.4 Ac. Ft. at Spillway Elev. 1462.0 Ft.

Gage Heights Read Daily

Day	JUNE Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JULY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1443.5	566.6	1.7	3.0	1439.8	476.1	0.4	1.0	1435.0	376.7	0.3	2.0	1428.8	283.5	0.3	0.9	1
2	1443.4	564.0	1.7	3.0	1439.7	473.8	0.4	1.0	1434.9	375.0	0.3	1.3	1428.7	282.2	0.3	0.9	2
3	1443.3	561.4	1.7	3.0	1439.7	473.8	0.4	1.0	1434.8	373.2	0.3	1.1	1428.6	281.0	0.3	0.9	3
4	1443.2	558.8	1.7	3.0	1439.7	473.8	0.4	1.0	1434.7	371.5	0.2	1.1	1428.4	278.5	0.3	1.7	4
5	1443.1	556.3	1.7	3.0	1439.6	471.5	0.3	1.0	1434.6	369.7	0.2	1.1	1428.1	274.8	0.3	2.2	5
6	1443.0	553.7	1.6	3.0	1439.6	471.5	0.3	1.0	1434.5	368.0	0.2	1.1	1428.8	271.1	0.3	2.2	6
7	1442.9	551.2	1.6	3.0	1439.5	469.2	0.3	1.0	1434.4	366.3	0.2	1.1	1427.4	266.2	0.2	2.2	7
8	1442.8	548.7	1.6	3.0	1439.4	467.0	0.2	0.9	1434.3	364.5	0.2	1.1	1427.1	262.5	0.2	2.2	8
9	1442.7	546.2	1.6	3.0	1439.3	464.7	0.2	0.9	1434.2	362.8	0.2	1.1	1426.8	258.9	0.2	2.1	9
10	1442.5	541.2	1.6	3.0	1439.2	462.4	0.2	1.2	1434.1	361.0	1.3	2.2	1426.5	255.4	0.2	2.1	10
11	1442.4	538.7	1.6	3.0	1439.1	460.1	1.0 2	1.9	1433.8	356.0	0.5	3.0	1426.2	251.9	0.2	2.0	11
12	1442.3	536.2	1.6	3.0	1439.0	457.8	1.0 2	1.3	1433.4	349.5	0.5	3.8	1425.9	248.3	0.2	2.0	12
13	1442.2	533.7	1.5	2.9	1438.9	455.6	0.2	0.9	1432.9	341.4	0.4	4.8	1425.6	244.9	0.2	2.0	13
14	1442.1	531.2	1.5	2.9	1438.8	453.4	0.2	1.1	1432.6	336.7	0.4	2.9	1425.3	241.4	0.2	1.9	14
15	1442.0	528.7	1.5	2.8	1438.7	451.2	0.2	1.5	1432.4	333.6	0.3	1.4	1425.0	237.9	0.2	1.9	15
16	1441.9	526.3	1.4	2.8	1438.6	449.0	0.2	1.5	1432.3	332.0	0.3	1.4	1424.7	234.5	0.2	1.9	16
17	1441.8	523.8	1.3	2.8	1438.4	444.7	0.2	1.5	1432.2	330.5	0.3	1.4	1424.4	231.2	0.2	1.9	17
18	1441.6	518.9	1.2	2.7	1438.2	440.3	0.2	2.1	1431.9	325.9	0.3	2.2	1424.1	227.8	0.2	1.9	18
19	1441.5	516.5	1.1	2.7	1438.0	435.9	0.2	2.7	1431.6	321.6	0.3	2.6	1423.8	224.5	0.2	1.9	19
20	1441.4	514.1	1.0	2.7	1437.8	431.7	0.2	2.6	1431.3	317.2	0.3	2.6	1423.5	221.2	0.2	1.9	20
21	1441.2	509.2	0.9	2.6	1437.6	427.5	0.2	2.6	1431.0	312.8	0.3	2.6	1423.2	217.9	0.2	1.8	21
22	1441.0	504.3	0.8	2.6	1437.4	423.3	0.2	2.6	1430.6	307.3	0.3	2.6	1422.9	214.6	0.2	1.8	22
23	1440.9	501.9	0.7	2.6	1437.1	417.0	0.2	2.6	1430.3	303.1	0.3	2.6	1422.6	211.4	0.2	1.8	23
24	1440.7	497.2	0.7	2.6	1436.9	412.9	0.2	2.6	1430.0	299.0	0.3	2.6	1422.3	208.1	0.2	1.8	24
25	1440.6	494.9	0.6	2.6	1436.7	409.0	0.2	2.6	1429.7	295.1	0.3	2.3	1422.0	204.9	0.2	1.8	25
26	1440.4	490.1	0.5	2.6	1436.5	405.0	0.2	2.6	1429.6	293.8	0.3	1.0	1421.7	201.7	0.2	1.8	26
27	1440.3	487.8	0.5	2.6	1436.2	399.1	0.2	2.6	1429.4	291.2	0.2	1.0	1421.1	195.3	0.2	3.3	27
28	1440.1	483.1	0.5	2.6	1436.0	395.2	0.2	2.6	1429.3	289.9	0.2	1.0	1420.4	187.9	0.2	4.0	28
29	1439.9	478.4	0.5	2.6	1435.7	359.6	0.2	2.6	1429.2	288.6	0.2	1.0	1419.7	180.6	0.2	4.0	29
30	1439.8	476.1	0.5	1.6	1435.5	386.0	0.2	2.5	1429.1	287.3	0.2	1.0	1419.0	173.4	0.2	4.0	30
31					1435.2	380.4	1.0 2	2.5	1428.9	284.8	0.2	1.0					31
TOTAL			36.4	83			73	555			9.8	58.0			6.6	628	
Inf. Ac. Ft.			722				145				194				131	1603.0	
Outf. Ac. Ft.				1652				1101				1150			1246	1855.0	
Maximum Mean Daily Inflow			1.7				0.4				1.3				0.3	15.6	
Minimum Mean Daily Inflow			0.5				0.2				0.2				0.2	0.2	
Storage Change			-930				-957				-956				-1114	**-252.0	
REMARKS																	Yearly Totals

Max. W. S. Elev.	1445.7	feet on 5/7/42	Storage 624.5	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS Date
Min. W. S. Elev.	1419.0	feet on 9/30/42	Storage 173.4	Acre Feet	G. W. Rodgers	Dam Tender	Gage Hts. copied H.A.V.
Max. Peak Inf.	29.	C.F.S. from 2:30 P.M. on 12/10/41 to 3:00 P.M. on 12/10/41			C. L. Brewster	Hydrographer	Storage applied H.A.V.
Max. Peak Outf. 23.0c.f.s. to 21.2 C.F.S. from 8:00 A.M. on 12/12/41 to 9:00 A.M. on 12/15/41						Hydrographer	Inf. & Outf. computed H.A.V. 7/17/42
Gage heights and storage as of midnight on day shown.							Checked L.T. 10/6/42

(= Mean for period.
** = Storages corrected for 40.0 A.F. Debris loss beginning October 1, 1941.
i = Interpolated.

PUDDINGSTONE DIVERSION

F. C. Dist. Form 68 Revised 600 5/39

Storages based on L.A.C.F.C.D. Survey of November, 1939 (Table IV)

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of PUDDINGSTONE DIVERSION Dam

In / On San Dimas Creek for the Year Ending September 30, 1942

Continuous Water Stage Recorder Au

Drainage Area 2.6 Square Miles. Capacity of Reservoir 76.0 Ac. Ft. at Spillway Elev. 1152.5 Ft.

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									Dry	0	0	0	1142.5	16.0	0	0	1
2									Dry	0	0	0	1140.6	10.5	0	1.1	2
3									Dry	0	0	0	1138.7	6.0	0	1.1	3
4									Dry	0	0	0	1138.0	4.8	0	0	4
5									Dry	0	0	0	1137.4	3.9	0	0	5
6									Dry	0	0	0	1136.6	3.0	0	0	6
7									Dry	0	0	0	1135.8	2.2	0	0	7
8									Dry	0	0	0	1135.1	1.6	0	0	8
9									Dry	0	0	0	1134.4	1.2	0	0	9
10									Dry	0	0	0	1133.7	0.9	0	0	10
11									1129±	0	0	0	1133.0	0.6	0	0	11
12	Reservoir Dry	No Storage	No Flow	No Flow	Reservoir Dry	No Storage	No Flow	No Flow	1142.5	16.0	8.6	0	1138.3	5.3	2.6	0	12
13									1145.55	26.6	11.9	4.1	1141.6	13.3	6.3	1.0	13
14									1145.6	26.8	13.4	10.5	1142.2	15.1	6.7	4.2	14
15									1142.8	16.9	4.8	7.3	1142.8	16.9	7.1	4.4	15
16									1138.9	6.4	0	3.1	1143.2	18.2	7.2	4.6	16
17									1138.1	4.9	0	0	1143.5	19.2	7.3	4.7	17
18									1137.3	3.8	0	0	1143.8	20.2	7.6	4.8	18
19									1136.4	2.8	0	0	1143.9	20.5	7.2	4.8	19
20									1135.5	2.0	0	0	1141.5	13.0	2.8	4.6	20
21									1134.6	1.3	0	0	1138.9	6.4	0.2	2.4	21
22									1133.8	0.9	0	0	1138.2	5.1	0	0	22
23									1133.0	0.6	0	0	1137.6	4.2	0	0	23
24									1132.1	0.3	0	0	1136.8	3.2	0	0	24
25									1131.3	0.2	0	0	1136.0	2.3	0	0	25
26									1139.4	7.5	4.1	0.2	1135.1	1.6	0	0	26
27									1143.2	18.2	10.3	3.4	1134.3	1.2	0	0	27
28									1145.6	26.8	10.8	3.7	1133.6	0.8	0	0	28
29									1145.55	26.6	10.1	7.3	1132.9	0.6	0	0	29
30									1144.9	24.1	3.9	2.3	1132.1	0.3	0	0	30
31									1143.6	19.5	0	0	1131.4	0.2	0	0	31
TOTAL			0	0			0	0			77.9	41.9			55.0	37.7	
Inf. Ac. Ft.			0				0				154.5				109.1	263.6	
Outf. Ac. Ft.				0				0				83.4+(52.0)				74.8+(53.6)	157.9+(105.6)
Maximum Mean Daily Inflow			0				0				13.4				7.6	13.4	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		0				0					+19.5				-19.3	+0.2	
REMARKS																½ Year	

Max. W. S. Elev.	1145.65	feet	on 12/29/41	Storage	27.0	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	Date
Min. W. S. Elev.	Dry	feet	on Various times	Storage	0	Acre Feet	C. C. Green	Dam Tender	Gage Hts. copied	H.A.V. 10/5/42
Max. Peak Inf.	24.0	C.F.S. from	4:00 P.M. on 12/12/41	to	6:00 P.M.	on 12/12/41	H. A. van der Goot	Hydrographer	Storage applied	H.A.V. 10/5/42
Max. Peak Outf.	10.2	C.F.S. from	6:00 A.M. on 12/29/41	to	12:00 Noon	on 12/29/41	C. L. Brewster	Hydrographer	Inf. & Outf. computed	H.A.V. 10/7/42
Gage heights and storage as of midnight on day shown.									Checked	L.T. 10/16/42

() = Total monthly evaporation and percolating loss.
Note: Outflows based on valve operation records and channel intake rating.

F. C. Dist. Form 68 Revised 600 5/39

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of PUDDINGSTONE DIVERSION Dam

In / On San Dimas Creek for the Year Ending September 30, 1942

Continuous Water Stage Recorder

Drainage Area 2.6 Square Miles. Capacity of Reservoir 76.0 Ac. Ft. at Spillway Elev. 1152.5 Ft.

Gage Heights Read at Various Times

Day	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1130.7	0.1	0	0	1131.9	0.3	0	0									1
2	1130.1	0.1	0	0	1131.3	0.2	0	0									2
3	1129.5	0.06	0	0	1130.7	0.1	0	0									3
4	1129±	0	0	0	1130.2	0.1	0	0									4
5	1129±	0	0	0	1129.7	0.07	0	0									5
6	1129±	0	0	0	1129±	0	0	0									6
7	1129±	0	0	0	1129±	0	0	0									7
8	1129±	0	0	0	1129±	0	0	0									8
9	1134.5	1.3	0.8	0	1129±	0	0	0									9
10	1139.0	6.6	3.1	0	1129±	0	0	0									10
11	1141.2	12.1	3.9	0	1129±	0	0	0									11
12	1142.8	16.9	4.1	0	1129±	0	0	0									12
13	1143.2	18.2	4.3	1.6	1129±	0	0	0	Reservoir Dry	No Storage	No Flow	No Flow	Reservoir Dry	No Storage	No Flow	No Flow	13
14	1141.8	13.9	4.3	4.7	1129±	0	0	0									14
15	1140.8	11.0	4.3	4.3	1129±	0	0	0									15
16	1140.3	9.7	4.7	4.1	1129±	0	0	0									16
17	1139.8	8.4	4.5	4.0	1129±	0	0	0									17
18	1139.1	6.8	3.9	3.7	1129±	0	0	0									18
19	1138.7	6.0	0.5	0	1129±	0	0	0									19
20	1138.0	4.8	0.2	0	1129±	0	0	0									20
21	1137.5	4.1	0.4	0	1129±	0	0	0									21
22	1136.8	3.2	0.1	0	1129±	0	0	0									22
23	1135.9	2.3	0	0	1129±	0	0	0									23
24	1135.1	1.6	0	0	1129±	0	0	0									24
25	1134.4	1.2	0	0	1129±	0	0	0									25
26	1133.7	0.9	0	0	1129±	0	0	0									26
27	1133.1	0.6	0	0	1129±	0	0	0									27
28	1132.5	0.4	0	0	1129±	0	0	0									28
29					1129±	0	0	0									29
30					1129±	0	0	0									30
31					1129±	0	0	0									31
TOTAL			39.1	22.4			0	0			0	0			0	0	
Inf. Ac. Ft.			77.6				0				0				0	341.2	
Outf. Ac. Ft.				44.4+(32.9)				0+(0.4)				0			0	202.7+(138.9)	
Maximum Mean Daily Inflow			4.7				0				0				0	13.4	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			+0.2				-0.4				0				0	0	
REMARKS																½ Year	

Max. W. S. Elev.	1145.65	feet	on 12/29/41	Storage	27.0	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	Date
Min. W. S. Elev.	Dry	feet	on Various times	Storage	0	Acre Feet	C.C. Green	Dam Tender	Gage Hts. copied	H.A.V. 10/5/42
Max. Peak Inf.	24.0	C.F.S. from	4:00 P.M. on 12/12/41	to	6:00 P.M.	on 12/12/41	H. A. van der Goot	Hydrographer	Storage applied	H.A.V. 10/5/42
Max. Peak Outf.	10.2	C.F.S. from	6:00 A.M. on 12/29/41	to	12:00 Noon	on 12/29/41	C. L. Brewster	Hydrographer	Inf. & Outf. computed	H.A.V. 10/7/42
Gage heights and storage as of midnight on day shown.									Checked	L.T. 10/16/42

() = Total monthly evaporation and percolating loss.

PUDDINGSTONE DIVERSION (CONT.)

F. C. Dist. Form 68 Revised 600 5/38

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of PUDDINGSTONE DIVERSION Dam

On San Dimas Creek for the Year Ending September 30, 1942

Drainage Area 2.6 Square Miles. Capacity of Reservoir 76.0 Ac. Ft. at Spillway Elev. 1152.5 Ft.

Continuous Water Stage Recorder Au

Gage Heights Read Various Times

Day	JUNE Gage Height	JUNE Acre Ft. Storage	JUNE C.F.S. Inflow	JUNE C.F.S. Outflow	JULY Gage Height	JULY Acre Ft. Storage	JULY C.F.S. Inflow	JULY C.F.S. Outflow	AUGUST Gage Height	AUGUST Acre Ft. Storage	AUGUST C.F.S. Inflow	AUGUST C.F.S. Outflow	SEPTEMBER Gage Height	SEPTEMBER Acre Ft. Storage	SEPTEMBER C.F.S. Inflow	SEPTEMBER C.F.S. Outflow	Day
1																	1
2																	2
3																	3
4																	4
5																	5
6																	6
7																	7
8																	8
9																	9
10																	10
11																	11
12																	12
13																	13
14					RESERVOIR DRY - NO STORAGE												14
15																	15
16					AND NO FLOW DURING												16
17																	17
18					THIS PERIOD												18
19																	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			0	0			0				0	0			0	0	
Inf. Ac. Ft.			0				0				0				0	341.2	
Outf. Ac. Ft.				0								0			0	202.7+(138.9)	
Maximum Mean Daily Inflow			0				0				0				0	13.4	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			0				0				0				0	0	
REMARKS																Yearly Totals	

Max. W. S. Elev.	1145.65	feet	on 12/29/41	Storage	27.0	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	Date
Min. W. S. Elev.	Dry	feet	on Various times	Storage	0	Acre Feet	C. C. Green	Dam Tender	Gage Hts. copied	H.A.V. 10/5/42
Max. Peak Inf.	24.0	C.F.S. from	4:00 P.M. on 12/12/41	to	6:00 P.M.	on 12/12/41	H. A. van der Goot	Hydrographer	Storage applied	H.A.V. 10/5/42
Max. Peak Outf.	10.2	C.F.S. from	6:00 A.M. on 12/29/41	to	12:00 Noon	on 12/29/41	C. L. Brewster	Hydrographer	Inf. & Outf. computed	H.A.V. 10/7/42
Gage heights and storage as of midnight on day shown.									Checked	L.T. 10/16/42

PUDDINGSTONE

F. C. Dist. Form 68 Revised 600 5/38

Storages based on L.A.G.F.C.D. Survey of January, 1941 (Table 2)

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

On Puddingstone Creek for the Year Ending September 30, 1942

Drainage Area 32.2 Square Miles. Capacity of Reservoir 17190.0 Ac. Ft. at Spillway Elev. 970.0 Ft.

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	Day
1	950.90	9636.6	0	11.9	948.60	8925.6	0	11.8	945.75	8091.2	0	17.1	945.80	8105.3	0	0	1
2	950.80	9605.1	0	11.9	948.55	8910.6	0	11.8	945.45	8006.5	0	44.6	945.75	8091.2	0	0	2
3	950.70	9573.7	0	11.9	948.45	8880.5	0	11.8	945.35	7978.3	15.5	28.6	945.75	8091.2	0	0	3
4	950.65	9557.9	0	11.9	948.40	8865.4	0	11.8	945.35	7978.3	0	0	945.75	8091.2	0	0	4
5	950.55	9526.5	0	11.9	948.30	8835.3	0	11.8	945.35	7978.3	0	0	945.75	8091.2	0	0	5
6	950.50	9510.8	0	11.9	948.20	8805.2	0	11.7	945.35	7978.3	0	0	945.75	8091.2	0	0	6
7	950.40	9479.3	0	11.9	948.15	8790.2	0	11.7	945.35	7978.3	0	0	945.70	8077.0	0	0	7
8	950.30	9447.9	0	11.9	948.05	8760.1	0	11.7	945.30	7964.2	0	0	945.70	8077.0	0	0	8
9	950.20	9416.4	0	11.9	947.95	8730.3	0	11.7	945.35	7978.3	8.7	0	945.70	8077.0	0	0	9
10	950.15	9400.7	0	11.9	947.85	8700.8	0	11.7	945.55	8034.7	30.0	0	945.70	8077.0	0	0	10
11	950.05	9369.2	0	11.9	947.80	8686.0	0	11.7	945.55	8034.7	1.7	0	945.70	8077.0	0	0	11
12	949.95	9338.1	0	11.9	947.70	8656.6	0	11.7	945.55	8034.7	1.8	0	945.65	8062.9	0	0	12
13	949.85	9307.4	0	11.9	947.65	8641.8	0	11.7	945.55	8034.7	1.9	0	945.65	8062.9	0	0	13
14	949.80	9292.0	0	11.9	947.55	8612.3	0	11.7	945.55	8034.7	5.7	0	945.65	8062.9	0	0	14
15	949.70	9261.3	0	11.9	947.45	8582.9	0	11.7	945.60	8048.8	5.7	0	945.65	8062.9	0	0	15
16	949.60	9230.5	0	11.9	947.40	8568.1	0	11.7	945.55	8034.7	0	0	945.65	8062.9	0	0	16
17	949.50	9199.8	0	11.9	947.30	8538.6	0	13.4	945.55	8034.7	0	0	945.60	8048.8	0	0	17
18	949.45	9184.4	0	11.9	947.15	8494.4	0	19.5	945.55	8034.7	0	0	945.60	8048.8	0	0	18
19	949.35	9153.6	0	11.9	947.05	8464.9	0	18.0	945.55	8034.7	0	0	945.60	8048.8	0	0	19
20	949.30	9138.3	2.5	11.9	946.90	8421.4	0	13.2	945.55	8034.7	0	0	945.55	8034.7	0	0	20
21	949.30	9138.3	12.9	11.9	946.80	8392.5	0	13.2	945.50	8020.6	0	0	945.55	8034.7	0	0	21
22	949.25	9122.9	5.2	11.9	946.70	8363.7	0	13.2	945.50	8020.6	0	0	945.55	8034.7	0	0	22
23	949.15	9092.1	0	11.9	946.60	8334.8	0	13.2	945.50	8020.6	0	0	945.55	8034.7	0	0	23
24	949.10	9076.8	0	11.9	946.50	8306.0	0	13.2	945.45	8006.5	0	0	945.55	8034.7	0	0	24
25	949.00	9046.0	0	11.9	946.40	8277.1	0	13.2	945.50	8020.6	9.3	0	945.55	8034.7	0	0	25
26	948.95	9031.0	0	8.0	946.30	8248.3	0	13.2	945.50	8020.6	2.0	0	945.55	8034.7	0	0	26
27	948.95	9031.0	0	0	946.20	8219.4	0	13.2	945.50	8020.6	1.8	0	945.55	8034.7	0	0	27
28	948.90	9015.9	0	3.9	946.10	8190.6	0	13.2	945.60	8048.8	15.9	0	945.55	8034.7	0	0	28
29	948.85	9000.9	0	11.8	946.00	8161.7	0	13.2	945.75	8091.2	23.0	0	945.55	8034.7	0	0	29
30	948.75	8970.8	0	11.8	945.90	8133.5	0	13.2	945.80	8105.3	8.6	0	945.50	8020.6	0	0	30
31	948.65	8940.7	0	11.8					945.80	8105.3	1.4	0	945.50	8020.6	0	0	31
TOTAL			20.6	344.8			0	383.8			133.0	90.3			0	0	
Inf. Ac. Ft.			40.9				0				263.8				0	304.7	
Outf. Ac. Ft.				683.9+(84.3)				761.3+(46.0)				179.1+(112.9)			0+(84.7)	1624.3+(327.9)	
Maximum Mean Daily Inflow			12.9				0				30.0				0	30.0	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			-727.3				-807.2				-28.2				-84.7	-1647.4	
REMARKS																½ Year	

Max. W. S. Elev.	951.0	feet	on 10/1/42	Storage	9668.	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	Date
Min. W. S. Elev.	931.05	feet	on 9/30/42	Storage	4612.2	Acre Feet	F. A. Pollard	Dam Tender	Gage Hts. copied	G.H.M. 7/17/42
Max. Peak Inf.	409.0	C.F.S. from	3:00 P.M. on 12/10/41	to	3:30 P.M.	on 12/10/41	C. L. Brewster	Hydrographer	Storage applied	G.H.M.
Max. Peak Outf.	91.0	C.F.S. from	6:00 P.M. on 12/2/41	to	7:30 A.M.	on 12/3/41		Hydrographer	Inf. & Outf. computed	G.H.M. 7/20/42
Gage heights and storages as of midnight on day shown.									Checked	L.T. 10/26/42

(= Mean for period.
() = Total monthly loss due to evaporation, percolation, and undetermined losses.

PUDDINGSTONE (CONT.)

F. C. Dist. Form 88 Revised 600 5/39

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

In / On Puddingstone Creek for the Year Ending September 30, 1942

Continuous Water Stage Recorder Au

Drainage Area 32.2 Square Miles. Capacity of Reservoir 17190.0 Ac. Ft. at Spillway Elev. 970.0 Ft.

Gage Heights Read Daily

Day	FEBRUARY Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	MARCH Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	APRIL Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	MAY Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	Day
1	945.50	8020.6	0	0	945.30	7964.2	0	0	945.05	7893.6	0	0	944.85	7838.2	0	0	1
2	945.50	8020.6	0	0	945.30	7964.2	0	0	945.05	7893.6	0	0	944.80	7824.4	0	0	2
3	945.45	8006.5	0	0	945.30	7964.2	0	0	945.05	7893.6	0	0	944.80	7824.4	0	0	3
4	945.45	8006.5	0	0	945.30	7964.2	0	0	945.05	7893.6	2.0	0	944.80	7824.4	0	0	4
5	945.45	8006.5	0	0	945.25	7950.1	0	0	945.00	7879.5	1.9	0	944.75	7810.6	0	0	5
6	945.45	8006.5	0	0	945.25	7950.1	0	0	945.00	7879.5	0	0	944.75	7810.6	0	0	6
7	945.45	8006.5	0	0	945.25	7950.1	0	0	945.00	7879.5	0	0	944.70	7796.9	0	0.6	7
8	945.40	7992.4	0	0	945.25	7950.1	0	0	945.05	7893.6	6.1	0	944.65	7783.1	0	5.2	8
9	945.35	7978.3	0	0	945.20	7935.9	0	0	945.05	7893.6	6.0	0	944.60	7769.3	0	6.4	9
10	945.35	7978.3	0	0	945.20	7935.9	0	0	945.05	7893.6	6.0	0	944.55	7755.5	0	6.8	10
11	945.35	7978.3	0	0	945.25	7950.1	8.6	0	945.10	7907.7	9.3	0	944.50	7741.8	0	7.3	11
12	945.35	7978.3	0	0	945.25	7950.1	1.6	0	945.05	7893.6	1.7	0	944.40	7714.2	0	9.8	12
13	945.35	7978.3	0	0	945.20	7935.9	0	0	945.05	7893.6	0	0	944.30	7686.7	0	8.6	13
14	945.35	7978.3	0	0	945.30	7964.2	10.9	0	945.05	7893.6	0	0	944.25	7672.9	0	6.5	14
15	945.30	7964.2	0	0	945.30	7964.2	2.2	0	945.05	7893.6	0	0	944.15	7645.3	0	7.4	15
16	945.30	7964.2	0	0	945.30	7964.2	0	0	945.05	7893.6	0	0	944.05	7617.8	0	9.5	16
17	945.30	7964.2	0	0	945.30	7964.2	0	0	945.05	7893.6	1.7	0	943.95	7590.6	0	10.5	17
18	945.30	7964.2	0	0	945.30	7964.2	0	0	945.05	7893.6	0	0	943.90	7577.1	0	8.7	18
19	945.30	7964.2	0	0	945.25	7950.1	0	0	945.00	7879.5	0	0	943.80	7550.2	0	7.9	19
20	945.30	7964.2	0	0	945.25	7950.1	0	0	945.00	7879.5	0	0	943.75	7536.8	0	7.6	20
21	945.35	7978.3	8.9	0	945.20	7935.9	0	0	945.00	7879.5	2.4	0	943.65	7509.9	0	6.5	21
22	945.40	7992.4	9.2	0	945.20	7935.9	0	0	944.95	7865.7	2.4	0	943.60	7496.4	0	7.4	22
23	945.40	7992.4	2.4	0	945.20	7935.9	0	0	944.95	7865.7	2.4	0	943.50	7469.6	0	9.2	23
24	945.35	7978.3	0	0	945.20	7935.9	0	0	944.95	7865.7	0	0	943.40	7442.7	0	10.2	24
25	945.35	7978.3	0	0	945.15	7921.8	0	0	944.95	7865.7	0	0	943.30	7415.8	0	9.4	25
26	945.35	7978.3	0	0	945.15	7921.8	0	0	944.90	7852.0	0	0	943.20	7388.9	0	9.1	26
27	945.30	7964.2	0	0	945.10	7907.7	0	0	944.90	7852.0	0	0	943.15	7375.4	0	7.4	27
28	945.30	7964.2	0	0	945.10	7907.7	0	0	944.90	7852.0	0	0	943.05	7348.5	0	8.3	28
29					945.10	7907.7	0	0	944.85	7838.2	0	0	943.00	7335.1	0	8.3	29
30					945.05	7893.6	0	0	944.85	7838.2	0	0	942.90	7308.9	0	6.5	30
31					945.05	7893.6	0	0					942.90	7308.9	0	2.8	31
TOTAL			20.5	0			23.3	0			41.9	0			0	187.9	
Inf. Ac. Ft.			40.7				46.2				83.1				0	474.7	
Outf. Ac. Ft.				0+(97.0)				0+(116.8)				0+(138.4)			372.7+(156.7)	1997.0+(836.8)	
Maximum Mean Daily Inflow			9.2				10.9				9.3				0	30.0	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			-56.4				-70.6				-55.4				-529.3	-2359.1	

REMARKS

Max. W. S. Elev.	951.0	feet on 10/1/42	Storage 9668.	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS Date
Min. W. S. Elev.	931.05	feet on 9/30/42	Storage 4612.2	Acre Feet	F. A. Pollard	Dam Tender	Gage Hts. copied G.H.M. 7/17/42
Max. Peak Inf.	409.0	C.F.S. from 3:00 P.M. on 12/10/41	to 3:30 P.M. on 12/10/42		C. L. Brewster	Hydrographer	Storage applied G.H.M.
Max. Peak Outf.	91.0	C.F.S. from 6:00 P.M. on 12/2/41	to 7:30 A.M. on 12/3/41			Hydrographer	Inf. & Outf. computed G.H.M. 7/20/42
Gage heights and storages as of midnight on day shown.							Checked L.T. 10/26/42

(= Mean for period.
() = Total monthly loss due to evaporation, percolation, and undetermined losses.

F. C. Dist. Form 88 Revised 600 5/39

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

In / On Puddingstone Creek for the Year Ending September 30, 1942

Continuous Water Stage Recorder Au

Drainage Area 32.2 Square Miles. Capacity of Reservoir 17190.0 Ac. Ft. at Spillway Elev. 970.0 Ft.

Gage Heights Read Daily

Day	JUNE Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	JULY Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C. F. S. Inflow	C. F. S. Outflow	Day
1	942.85	7295.7	0	7.0	940.35	6654.7	0	10.9	937.25	5914.0	0	9.9	933.80	5158.1	0	11.6	1
2	942.75	7269.5	0	8.0	940.25	6629.8	0	12.0	937.15	5890.9	0	12.2	933.65	5127.3	0	12.5	2
3	942.65	7243.3	0	7.4	940.15	6604.8	0	11.0	937.05	5867.8	0	12.2	933.55	5106.7	0	12.5	3
4	942.60	7230.1	0	6.6	940.05	6579.9	0	8.6	936.95	5845.1	0	12.2	933.45	5086.1	0	12.5	4
5	942.55	7217.0	0	4.4	940.00	6567.4	0	7.1	936.80	5811.3	0	12.2	933.35	5065.5	0	9.8	5
6	942.50	7203.9	0	5.7	939.90	6543.1	0	8.1	936.70	5788.8	0	12.2	933.25	5045.0	0	10.9	6
7	942.40	7177.7	0	8.5	939.80	6518.8	0	10.6	936.55	5755.1	0	12.2	933.15	5024.4	0	11.7	7
8	942.35	7164.5	0	7.1	939.70	6494.4	0	11.0	936.45	5732.6	0	12.2	933.05	5003.8	0	9.2	8
9	942.30	7151.4	0	6.0	939.55	6458.0	0	10.8	936.35	5710.1	0	12.2	932.95	4983.6	0	6.4	9
10	942.20	7125.2	0	9.5	939.45	6433.6	0	11.6	936.25	5687.6	0	12.2	932.85	4963.7	0	9.0	10
11	942.10	7098.9	0	9.7	939.35	6409.3	0	11.6	936.15	5665.1	0	12.2	932.80	4953.7	0	9.3	11
12	942.00	7072.7	0	10.0	939.25	6385.0	0	10.9	936.05	5642.6	0	10.9	932.70	4933.9	0	9.3	12
13	941.95	7059.9	0	9.3	939.15	6360.7	0	10.9	935.95	5620.4	0	6.4	932.60	4914.0	0	9.5	13
14	941.85	7034.3	0	7.8	939.05	6336.4	0	11.0	935.85	5598.5	0	11.3	932.50	4894.1	0	8.5	14
15	941.75	7008.8	0	8.0	938.95	6312.4	0	11.0	935.70	5565.6	0	12.5	932.40	4874.2	0	10.4	15
16	941.70	6996.0	0	9.7	938.80	6276.8	0	11.6	935.60	5543.7	0	12.5	932.30	4854.3	0	12.1	16
17	941.60	6970.4	0	9.6	938.70	6253.1	0	12.2	935.50	5521.8	0	12.5	932.15	4824.5	0	12.5	17
18	941.50	6944.8	0	8.7	938.60	6229.4	0	12.2	935.35	5488.9	0	12.5	932.05	4804.6	0	12.5	18
19	941.40	6919.2	0	10.3	938.50	6205.7	0	12.2	935.25	5467.0	0	12.5	931.95	4785.1	0	12.5	19
20	941.35	6906.4	0	9.6	938.40	6182.0	0	12.0	935.15	5445.1	0	12.5	931.80	4756.3	0	12.5	20
21	941.25	6880.9	0	8.6	938.30	6158.3	0	11.1	935.00	5412.2	0	12.5	931.70	4737.1	0	9.2	21
22	941.15	6855.3	0	7.9	938.20	6134.6	0	8.8	934.90	5390.9	0	12.5	931.60	4717.9	0	7.5	22
23	941.05	6829.7	0	7.6	938.10	6110.9	0	8.8	934.80	5369.6	0	12.5	931.55	4708.3	0	8.0	23
24	940.95	6804.4	0	8.6	938.00	6087.2	0	9.1	934.65	5337.7	0	12.5	931.45	4689.0	0	8.9	24
25	940.90	6792.0	0	9.2	937.90	6064.1	0	10.8	934.55	5316.4	0	12.5	931.35	4669.8	0	8.2	25
26	940.80	6767.0	0	9.0	937.80	6041.0	0	10.8	934.40	5284.5	0	12.5	931.30	4660.2	0	6.8	26
27	940.75	6754.5	0	6.8	937.70	6017.9	0	7.7	934.30	5263.2	0	11.9	931.25	4650.6	0	5.3	27
28	940.65	6729.6	0	8.0	937.60	5994.8	0	7.4	934.20	5241.9	0	11.9	931.20	4641.0	0	4.0	28
29	940.55	6704.6	0	8.4	937.50	5971.8	0	9.2	934.05	5209.9	0	12.5	931.15	4631.4	0	2.9	29
30	940.45	6679.7	0	8.5	937.45	5960.2	0	8.6	933.95	5189.0	0	10.8	931.05	4612.2	0	5.6	30
31					937.40	5948.7	0	3.0	933.90	5178.7	0	6.6					31
TOTAL			0	245.5			0	312.6			0	364.2			0	281.6	
Inf. Ac. Ft.			0				0				0				0	474.7	
Outf. Ac. Ft.				486.9+(142.2)				620.0+(110.9)				722.4+(47.6)			558.5+(7.9)	4384.8+(1145.4)	
Maximum Mean Daily Inflow			0				0				0				0	30.0	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			-629.2				-731.0				-770.0				-566.5	-5055.8	

REMARKS

Max. W. S. Elev.	951.0	feet on 10/1/42	Storage 9668.	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS Date
Min. W. S. Elev.	931.05	feet on 9/30/42	Storage 4612.2	Acre Feet	F. A. Pollard	Dam Tender	Gage Hts. copied G.H.M. 7/17/42
Max. Peak Inf.	409.0	C.F.S. from 3:00 P.M. on 12/10/41	to 3:30 P.M. on 12/10/41		C. L. Brewster	Hydrographer	Storage applied G.H.M.
Max. Peak Outf.	91.0	C.F.S. from 6:00 P.M. on 12/2/41	to on 12/3/41			Hydrographer	Inf. & Outf. computed G.H.M 7/20/42
Gage heights and storages as of midnight on day shown.							Checked L.T. 10/26/42

() = Total monthly losses due to percolation and evaporation, and undetermined losses.

LIVE OAK

F. C. Dist. Form 88 Revised 600 5/39

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In / On Live Oak Canyon for the Year Ending September 30, 1942

Continuous Water Stage Recorder All

Drainage Area 2.3 Square Miles. Capacity of Reservoir 227.5 Ac. Ft. at Spillway Elev. 1497.0 Ft.

Gage Height 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	1443.±	0	+	+													1
2																	2
3																	3
4																	4
5																	5
6																	6
7																	7
8																	8
9																	9
10					RESERVOIR DRY ENTIRE SEASON												10
11																	11
12					SMALL GATE LEAKAGE FROM												12
13																	13
14					UNDERFLOW AT TIMES. FLOW												14
15																	15
16					WAS LESS THAN 0.1 c.f.s.												16
17																	17
18					AT ALL TIMES.												18
19																	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.																	
Outf. Ac. Ft.																	
Maximum / Mean Daily Inflow																	
Minimum / Mean Daily Inflow																	
Storage Change																	
REMARKS																	Yearly Totals

Max. W. S. Elev.	feet	on	Storage	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS Date
Min. W. S. Elev.	feet	on	Storage	Acre Feet		Dam Tender	Gage Hts. copied H.A.V.
Max. Peak Inf.	C. F. S. from	on	to	on		Hydrographer	Storage applied H.A.V.
Max. Peak Outf.	C. F. S. from	on	to	on		Hydrographer	Inf. & Outf. computed H.A.V. 10/2/42
							Checked

THOMPSON CREEK

F. C. Dist. Form 88 Revised 600 5/39

Storages based on L.A.C.F.C.D. Survey of November, 1932 (Table I)

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In / On Thompson Creek for the Year Ending September 30, 1942

Continuous Water Stage Recorder None

Drainage Area 3.7 Square Miles. Capacity of Reservoir *639.8 Ac. Ft. at Spillway Elev. *1634.66 Ft.

Gage Heights Read at Various Times

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C. F. S. Inflow	OCTOBER C. F. S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C. F. S. Inflow	NOVEMBER C. F. S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C. F. S. Inflow	DECEMBER C. F. S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C. F. S. Inflow	JANUARY C. F. S. Outflow	Day
1	1577.3	2.0	0	0	1574.6	0.5	0	0	1573.7	0.2	0	0	1573.9	0.3	0	0	1
2	1577.2	1.9	0	0	1574.5	0.5	0	0	1573.6	0.2	0	0	1573.9	0.3	0	0	2
3	1577.0	1.7	0	0	1574.5	0.5	0	0	1573.6	0.2	0	0	1573.9	0.3	0	0	3
4	1576.9	1.6	0	0	1574.4	0.4	0	0	1573.6	0.2	0	0	1573.9	0.3	0	0	4
5	1576.8	1.6	0	0	1574.4	0.4	0	0	1573.6	0.2	0	0	1573.8	0.3	0	0	5
6	1576.7	1.5	0	0	1574.3	0.4	0	0	1573.6	0.2	0	0	1573.8	0.3	0	0	6
7	1576.6	1.5	0	0	1574.3	0.4	0	0	1573.6	0.2	0	0	1573.8	0.3	0	0	7
8	1576.5	1.4	0	0	1574.2	0.4	0	0	1573.6	0.2	0	0	1573.8	0.3	0	0	8
9	1576.4	1.3	0	0	1574.2	0.4	0	0	1573.6	0.2	0	0	1573.7	0.2	0	0	9
10	1576.3	1.3	0	0	1574.1	0.3	0	0	1573.9	0.3	0.05	0	1573.7	0.2	0	0	10
11	1576.2	1.2	0	0	1574.1	0.3	0	0	1573.9	0.3	+	0	1573.7	0.2	0	0	11
12	1576.1	1.2	0	0	1574.1	0.3	0	0	1573.9	0.3	+	0	1573.7	0.2	0	0	12
13	1576.0	1.1	0	0	1574.1	0.3	0	0	1573.9	0.3	0	0	1573.7	0.2	0	0	13
14	1575.9	1.1	0	0	1574.1	0.3	0	0	1573.8	0.3	0	0	1573.6	0.2	0	0	14
15	1575.8	1.0	0	0	1574.0	0.3	0	0	1573.8	0.3	0	0	1573.6	0.2	0	0	15
16	1575.7	1.0	0	0	1574.0	0.3	0	0	1573.8	0.3	0	0	1573.6	0.2	0	0	16
17	1575.5	0.9	0	0	1574.0	0.3	0	0	1573.8	0.3	0	0	1573.6	0.2	0	0	17
18	1575.4	0.8	0	0	1573.9	0.3	0	0	1573.7	0.2	0	0	1573.6	0.2	0	0	18
19	1575.2	0.7	0	0	1573.9	0.3	0	0	1573.7	0.2	0	0	1573.5	0.2	0	0	19
20	1575.1	0.7	0	0	1573.9	0.3	0	0	1573.7	0.2	0	0	1573.5	0.2	0	0	20
21	1574.9	0.6	0	0	1573.9	0.3	0	0	1573.6	0.2	0	0	1573.5	0.2	0	0	21
22	1574.9	0.6	+	0	1573.8	0.3	0	0	1573.6	0.2	0	0	1573.5	0.2	0	0	22
23	1574.9	0.6	+	0	1573.8	0.3	0	0	1573.6	0.2	0	0	1573.5	0.2	0	0	23
24	1574.9	0.6	+	0	1573.8	0.3	0	0	1573.6	0.2	0	0	1573.5	0.2	0	0	24
25	1574.9	0.6	+	0	1573.8	0.3	0	0	1573.6	0.2	+	0	1573.4	0.2	0	0	25
26	1574.9	0.6	0	0	1573.7	0.2	0	0	1573.7	0.2	+	0	1573.4	0.2	0	0	26
27	1574.8	0.5	0	0	1573.7	0.2	0	0	1573.7	0.2	+	0	1573.4	0.2	0	0	27
28	1574.8	0.5	0	0	1573.7	0.2	0	0	1573.0	0.3	0.05	0	1573.4	0.2	0	0	28
29	1574.7	0.5	0	0	1573.7	0.2	0	0	1574.0	0.3	+	0	1573.3	0.2	0	0	29
30	1574.6	0.5	0	0	1573.7	0.2	0	0	1574.0	0.3	+	0	1573.3	0.2	0	0	30
31	1574.6	0.5	0	0					1574.0	0.3	+	0	1573.3	0.2	0	0	31
TOTAL			0	0			0	0			0.1	0			0	0	
Inf. Ac. Ft.			0				0				0.2				0	0.2	
Outf. Ac. Ft.				0+(1.6)				0+(0.3)				0+(0.1)			0+(0.1)	0+(2.1)	
Maximum / Mean Daily Inflow			0				0				0.05				0	0.05	
Minimum / Mean Daily Inflow			0				0				0				0	0	
Storage Change			-1.6				-0.3				+0.1				-0.1	-1.9	
REMARKS																	½ Year

Max. W. S. Elev.	1577.4	feet	on 10/1/41	Storage 2.1	Acre Feet	RECORDS COLLECTED BY	COMPUTATIONS Date
Min. W. S. Elev.	Dry	feet	on part of year	Storage 0	Acre Feet	C. C. Green — Dam Tender	Gage Hts. copied H.A.V.
Max. Peak Inf.	0.5	C. F. S. from 9:00 A.M.	on 12/10/41	to 10:00 A.M.	on 12/10/41	H. A. van der Goot — Hydrographer	Storage applied H.A.V.
Max. Peak Outf.	Est. 1.0	C. F. S. from at 5:45 P.M.	on 3/14/42	to	on	Hydrographer	Inf. & Outf. computed H.A.V. 10/2/42
Gage heights and storage as of midnight of day shown.							Checked L.T. 11/24/42

* = Spillway lip cut down from elevation of 1640 in January, 1942.
() = Total monthly percolation and evaporation loss.
+ = Negligable flow.

THOMPSON CREEK (CONT.)

F. C. Dist. Form 68 Revised 600 5/39

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

in On Thompson Creek for the Year Ending September 30, 1942

Drainage Area 3.7 Square Miles. Capacity of Reservoir *639.8 Ac. Ft. at Spillway Elev. *1634.66 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Continuous Water Stage Recorder None

Gage Heights Read at Various Time

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	1573.3	0.2	0	0	1573±	0.1	0	0	1572.5±	Storage Negligible Less Than 0.1	No Flow	No Flow	Reservoir Dry	No Storage	No Flow	No Flow	1
2	1573.2	0.1	0	0	1573±	0.1	0	0	1572.5±								2
3	1573.2	0.1	0	0	1573±	0.1	0	0	1572.5±								3
4	1573.2	0.1	0	0	1573±	0.1	0	0	1572.5±								4
5	1573.1	0.1	0	0	1573±	0.1	0	0	1572.5±								5
6	1573.1	0.1	0	0	1573±	0.1	0	0	1572.5±								6
7	1573.1	0.1	0	0	1573±	0.1	0	0	1572.5±								7
8	1573.1	0.1	0	0	1573±	0.1	0	0	1572.5±								8
9	1573.0	0.1	0	0	1573±	0.1	0	0	1572.5±								9
10	1573.0	0.1	0	0	1573±	0.1	0	0	1572.5±								10
11	1573.0	0.1	0	0	1573±	0.1	0	0	1572.5±								11
12	1573.0	0.1	0	0	1573±	0.1	0	0	1572.5±								12
13	1573.0	0.1	0	0	1573.0	0.1	+	0	1572.5±								13
14	1573±	0.1	0	0	1573.5	0.2	0.05	0	1572.5±								14
15	1573±	0.1	0	0	1573.4	0.2	+	0	1572.5±								15
16	1573±	0.1	0	0	1573.3	0.2	0	0	1572.5±								16
17	1573±	0.1	0	0	1573.2	0.1	0	0	1572.5±								17
18	1573±	0.1	0	0	1573.2	0.1	0	0	1572.5±								18
19	1573±	0.1	0	0	1573.1	0.1	0	0	1572.5±								19
20	1573±	0.1	0	0	1573.1	0.1	0	0	1572.5±								20
21	1573±	0.1	+	0	1573±	0.1	0	0	1572.5±								21
22	1573±	0.1	+	0	1573±	0.1	0	0	1572.5±								22
23	1573±	0.1	0	0	1573±	0.1	0	0	1572.5±								23
24	1573±	0.1	0	0	1573±	0.1	0	0	1572.5±								24
25	1573±	0.1	0	0	1573±	0.1	0	0	1572.5±								25
26	1573±	0.1	0	0	1573±	0.1	0	0	1572.5±								26
27	1573±	0.1	0	0	1573±	0.1	0	0	1572.5±								27
28	1573±	0.1	0	0	1573±	0.1	0	0	1572±								28
29					1573±	0.1	0	0	1572±								29
30					1573±	0.1	0	0	1572±								30
31					1573±	0.1	0	0									31
TOTAL			0	0			0.05	0			0	0			0	0	
Inf. Ac. Ft.			0				0.1				0				0	0.3	
Outf. Ac. Ft.				0+(0.1)				0+(0.1)				0+(0.1)			0	0+(2.4)	
Maximum Mean Daily Inflow			0				0.05				0				0	0.05	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			-0.1				0				-0.1				0	-2.1	
REMARKS																	½ Year

Max. W. S. Elev.	1577.4	feet on 10/1/41	Storage 2.1	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS Date
Min. W. S. Elev.	Dry	feet on part of year	Storage 0	Acre Feet	G. C. Green	Dam Tender	Gage Hts. copied H.A.V.
Max. Peak Inf.	0.5	C.F.S. from 9:00 A.M. on 12/10/41	to 10:00 A.M. on 12/10/41		H. A. van der Goot	Hydrographer	Storage applied H.A.V.
Max. Peak Outf.	Est. 2.0	C.F.S. ~~from~~ at 5:45 P.M. on 3/14/42	to —			Hydrographer	Inf. & Outf. computed H.A.V. 10/2/42
Gage heights and storage as of midnight of day shown.							Checked L.T. 11/24/42

* = Spillway lip cut down from elevation of 1640 in January, 1942.
() = Total monthly percolation and evaporation loss.
\+ = Negligable flow.

F. C. Dist. Form 68 Revised 600 5/39

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

in On Thompson Creek for the Year Ending September 30, 1942

Drainage Area 3.7 Square Miles. Capacity of Reservoir *639.8 Ac. Ft. at Spillway Elev. *1634.66 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Continuous Water Stage Recorder None

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																	1
2																	2
3																	3
4																	4
5																	5
6																	6
7																	7
8																	8
9																	9
10																	10
11																	11
12																	12
13																	13
14								RESERVOIR DRY									14
15																	15
16								DURING THIS PERIOD									16
17																	17
18								NO FLOW.									18
19																	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			0	0			0	0			0	0			0	0	
Inf. Ac. Ft.			0				0				0				0	0.3	
Outf. Ac. Ft.				0				0				0			0	0+(2.4)	
Maximum Mean Daily Inflow			0				0				0				0	0.05	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			0				0				0				0	-2.1	
REMARKS																	Yearly Totals

Max. W. S. Elev.	1577.4	feet on 10/1/41	Storage 2.1	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS Date
Min. W. S. Elev.	Dry	feet on part of year	Storage 0	Acre Feet	G. C. Green	Dam Tender	Gage Hts. copied H.A.V.
Max. Peak Inf.	0.5	C.F.S. from 9:00 A.M. on 12/10/41	to 10:00 A.M. on 12/10/41		H. A. van der Goot	Hydrographer	Storage applied H.A.V.
Max. Peak Outf.	Est. 1.0	C.F.S. ~~from~~ at 5:45 P.M. on 3/14/42	to —			Hydrographer	Inf. & Outf. computed H.A.V. 10/2/42
Gage heights and storage as of midnight of day shown.							Checked L.T. 11/24/42

* = Spillway lip cut down from elevation of 1640 in January, 1942.
() = Total monthly percolation and evaporation loss.

YEARLY RESERVOIR OPERATION SUMMARY

(1941-42)

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	C.F.S.	Mo.	Day	C.F.S.	Maximum	Minimum	Sept. 30
Pacoima	1920	48.	0.05	2032	12	29	85.	7	15	97.	1460.	95.	95.
Big Tujunga #1	7120	71.	0.8	7724	12	10	134.	12	30	47.	2131.	115.	428.
Devils Gate	689	91.	0	443	12	10	479.	12	8	27.	378.	4.0	4.0
Eaton Wash	78	11.	0	0	12	10	73.			0	47.	0	0
Santa Anita	2070	25.	0.6	2140	12	29	53.	12	29	31.	571.	209.	232.
Sawpit	107	3.7	0	39	12	29	4.8	3	14	2.5	75.	0	69.
San Gabriel #2	6080	108.	0.3	7331	12	10	294.	11	1	90.	1252.	1.4	1.4
San Gabriel #1	50285	297.	20.	49759	12	29	468.	11	7	8880.	6661.	224.	268.
Big Dalton	209	2.3	0.05	233	3	14	6.0	8	-	ND	153.	0	0
San Dimas	1603	16.	0.2	1855	12	10	29.	12	12	23.	625.	173.	173.
Puddingstone	475	30.	0	4385	12	10	409.	12	2	91	9668.	4612.	4612.
Puddingstone Diversion	341	13.	0	203	12	12	24.	12	29	10	27.	0	0
Live Oak	-	+	+	-	-	-	+	-	-	+	+	0	0
Thompson Creek	0.3	0.05	0	0	12	10	0.5	3	14	E1.0	2.1	0	0

Note: Outflows show valve release only, percolation losses are not shown.

N.D. Not Determined, due to insufficient records.

+ = Less than 0.05 c.f.s.

E = Estimated.

GROUND WATER

&

CONSERVATION

CONSERVATION AND GROUND WATER

Foreword:

Conservation implies not only the saving of flood waters by introducing them into the ground instead of permitting them to waste into the ocean; but also the preservation of their integrity after entering the ground by preventing contamination from sewage, industrial waste, sea water, or other sources.

Principles and Practices of Conservation

In theory, the conservation of flood and storm waters of the county is comparatively simple. The theory contemplates that such waters as originate in the mountains shall be impounded in surface reservoirs behind dams, to amounts consistent with the flood regulaing capacities of the dams, until such times as storm waters of valley and plain origin shall have passed out of the stream channels, and then causing the mountain waters to percolate in streambeds and off-stream spreading grounds where conditions permit. The conservation of uncontrolled runoff from valley and plain or from urban districts, beyond that which may be effected by natural channel percolation, is not generally feasible, except for minor storm flows.

To put this theory into practice, however, requires (1) a knowledge of current meteorological conditions and reliable forecasts of probable changes; (2) close coordination of flood control and conservation measures; (3) intensive geologic and hydrologic studies of streams and ground water basins; and (4) the application of sound technical and economic principles to the selection of percolating sites, and to the construction of suitable works and the means of introducing the water into the ground.

Moreover, conservation practice is complicated by the nature of certain ground water basins, which causes water introduced into their higher topographic areas to later reappear in their lower areas as surface flow or rising water; by confining parts of the courses of certain streams in paved channels, thereby reducing the absorptive areas; by the continued expansion of urban and industrial districts upon what were formerly natural absorptive areas; and by drafts upon the confined aquifers of the coastal plain basins in excess of the capacity of the "feeder" areas to supply them, thus lowering the pressure heads and thereby threatening sea water intrusion.

The Objectives of Conservation

The immediate objective of conservation is the replenishment of the ground water basins of the county to the extent that their safe yield shall not be exceeded--safe yield being defined as a perennial rate of extraction that does not exceed the mean annual rate of replenishment.

Other objectives are the preservation of the integrity of the ground water by guarding it against contamination, and the control of water levels so that they shall not rise to elevations that would interfere with adequate soil drainage, and with agriculture.

Determining Replenishment or Depletion of the Ground Water Basins

In order to determine to what extent the basins are replenished or depleted numerous measurements are made or obtained from cooperating agencies, of water table elevations and pressure surfaces. During the season of 1941-42, data on more than 1,000 wells were thus gathered in October, 1941, and again in April, 1942. Seventy-five of these (designated as Key Wells, see Map IV) were also measured at monthly intervals. A smaller number were measured more frequently, and a few were equipped with automatic recorders to provide a continuous record of water table or pressure surface fluctuations.

Ground Water Maps

From the well measurements obtained during the 1941-42 period, ground water maps were prepared which show by contours the seasonal low and high positions of the water tables in the basins having free (unconfined) aquifers, and the positions of the pressure surfaces in the basins having confined aquifers. These maps were included herein as Maps V to X, inclusive.

Key Well Hydrographs

Key Wells are those in which the fluctuations are representative of the general flucutations of the water tables or pressure surfaces of their basins.

All key well measurements are reduced to hydrographs, ten of which are included herein to show the fluctuations of the more important basins (see Pages 212 TO 217.)

Ground Water Elevations and Fluctuations

During extended periods of abnormally high rainfall or of drought the District receives many inquiries regarding water levels. In some instances the inquirers are apprehensive of water rising into the plant root zone and endangering crops. In other instances they are apprehensive of wells going dry or of water levels going so low as to materially increase pumping costs.

To many inquiries it is virtually impossible to give direct answers, as for instance: "How much higher are water levels this year than last year?" or "Are water levels still rising?" At one place the water table this year may be many feet higher than last year; whereas at another place only a few hundred feet distant the reverse may be true, or the water table may be rising at the first place and falling at the second place. Such conditions arise from the fact that the ground water in Los Angeles County is contained

in more than a score of separate and distinct basins with different hydrologic characteristics.

The purpose of this discussion is to describe the more important basins and the barriers which separate one from another in order that the physical conditions which control water table fluctuations may be more generally understood.

The Nature of the Basins

There are two types of ground water basins in Los Angeles County. One is a depression in the bed rock which has been filled with alluvium in the pore spaces of which the ground water is contained. The water-saturated alluvium constitutes a "free" aquifer; and, if a well be drilled into it, the water surface in the well will stand at the same elevation as the water table in the ground. The other type is a stratum of porous alluvium confined beneath a stratum of impervious silt or clay. The saturated porous alluvium constitutes a 'confined' or 'pressure' aquifer; and, if a well be drilled into it, the water surface in the well will rise above the elevation of the aquifer (and, in some places above the ground) in response to the 'head' or pressure upon it.

Most of the ground water basins of the county have free aquifers. The depressions which they occupy are generally faulted blocks of bed rock which have dropped with respect to adjacent blocks. In some places, however, the depressions are valleys which were carved on old bedrock erosion surfaces prior to the deposition of the alluvium.

The Nature of the Basin Boundaries

The boundaries which separate the basins are hills, faults that cut the alluvium, or buried bedrock ridges. The hills, of course, are visible surface features; but, in most places, there are no surface indications of faults or buried ridges. At a few places, however, low scarps mark the fault lines; and low knobs of bed rock the ridges. Typical of such are the scarps of Indian Hill at Claremont and Raymond Dike at Santa Anita, and the rounded knob of Monk Hill at Pasadena. Where the basin boundaries are not visible surface features they have been located approximately by studying the logs and hydrologic characteristics of wells.

The hills of the present surface and the buried bedrock ridges (hills of a former erosion surface) constitute natural basin boundaries because their almost impervious rocks are effective barriers to the free movement of ground water.

Faults act as barriers to the free movement of ground water either (1) because displacement along their planes may have brought less pervious beds of alluvial material into juxtaposition with more pervious beds; or (2) because the gouge formed along their planes as a result of the displacement is less pervious than the uncrushed materials on either side.

The first condition may exist here and there, and may have contributed to the forming of barriers; but the absence of pronounced stratification in the alluvium discounts its probable effectiveness in any important measure.

Gouge, on the other hand, is universally associated with faults that cut materials which crush easily, and it probably has contributed in a very large measure to the forming of the barriers.

Gouge is not totally impervious, and it impedes rather than prevents passage of water through faults. The degree of imperviousness of gouge depends largely upon the character of the materials from which it was formed. In all the free aquifer basins the alluvium consists of two distinct types. At and near the surface are the fresh, loose sands, gravels, and boulders of Recent age. Beneath these is a much older type of materials (the so-called "Old" alluvium of Pleistocene age) which had been subjected to several periods of long and deep weathering before the Recent materials were deposited upon it. It therefore contains a large percentage of altered materials generally reddish-brown clay, and it is partly consolidated. The recurring displacements along the faults have left little if any trace in the Recent alluvium, but they have so crushed and compacted the "Old" alluvium that gouge seams of a high degree of imperviousness have been formed.

It follows therefore that when the water table in a basin is below the top of the "Old" alluvium the movement of water through a fault barrier will be slow, but when the water table rises above the top of the "Old" alluvium the water will readily pass the fault and "spill over" into the next lower basin.

In sinking wells it is necessary in many places to dig and timber a shaft through the Recent alluvium in order to prevent the sides of the hole from caving, but when the "Old" alluvium is reached a rig is erected and the well drilled in the usual way.

Water Table Fluctuations

The water tables and pressure surfaces of the ground water basins rise when replenishment exceeds depletion, and fall when the depletion exceeds the replenishment.

A basin is replenished by (1) rainfall penetration upon its surface, (2) percolation from streams flowing across its surface or from water artificially spread upon it, and (3) by underflow, through or across the barriers, from adjacent higher basins. It is depleted by (1) the consumptive use of plants growing upon its surface (including transpiration and evaporation), (2) water extracted for domestic or industrial uses, and (3) underflow to adjacent lower basins. In a few places, where the water tables rise high enough to intersect the ground surface the basins are also depleted by "rising water".

On the accompanying location map (Map IV) the basins are designated by name and number; and on the ground water maps (Maps V to X, inclusive) elevations of their water tables or pressure surfaces are shown by contour lines.

Immediately following the ground water maps is a series of plates (Page 224 to Page 230) which show (1) graphic logs of one or more wells in each of the more important basins, (2) the nature of the barriers separating adjacent basins, and (3) hydrographs of the same wells for the past seven years.

These plates purport to show hydrologic conditions in adjacent basins at the specified places only, and no inference should be drawn that such conditions prevail throughout the basins. Water table elevation, porosity of the aquifer and range of fluctuation may vary widely from place to place in the same basin. Underflow into and out of a basin may also vary widely from place to place. This is particularly true in case of basins that receive underflow from more than one adjacent basin or discharge into more than one.

The Functioning of the Basins

The ground water basins of Los Angeles County may be segregated into three groups; namely, the San Fernando Valley group, the San Gabriel Valley group, and the Coastal Plain group.

San Fernando Valley

The San Fernando Valley group consists of San Fernando Basin and four relatively unimportant sub-basins adjacent to it on the North. The latter are separated from the main basin by hills and buried bed rock ridges and contribute very little underflow to it. (Refer to Plate I.)

San Fernando Basin has a very large capacity, hence its water table fluctuations are small except in the immediate vicinity of the washes. The general trend of fluctuation has been upward for several years in the greater part of the basin; and since 1940 the water table in the lower part has been unusually high. This condition has resulted from abnormally high rainfall in 1937, 1938, and 1941, and from diminished draft upon the basin. The Department of Water and Power of the City of Los Angeles supplies a large part of the basin's demand with water imported from Owens Valley.

The general movement of the sub-surface flow is southward and eastward to the narrows at Griffith and Elysian parks where a constriction in the basin's boundaries and a shallow bed rock ridge forces part of it to the surface as "rising water". This is discharged as surface flow into the Coastal Plain.

San Gabriel Valley

The San Gabriel Valley group consists of Main Basin and about a dozen smaller basins around its periphery.

In Main Basin the general trend of water table fluctuation has been upward since 1936, as a result of three seasons of abnormally high rainfall. This basin depends entirely upon wells to supply its large local demand and a relatively small demand for export. Inasmuch as no water is imported into this basin the general rising trend of the water table indicates an excess of replenishment over depletion.

A quantity of water estimated at 25,000 acre-feet annually enters this basin by underflow from its adjacent sub-basins, excluding Canyon Basin; and approximately the same amount is discharged into the Coastal Plain by underflow at Whittier Narrows.

Main Basin functions chiefly as a detention basin and all the water entering it (except that held in "dead storage" below the elevation of the bed rock ridge at Whittier Narrows) is either consumptively used or discharged into the Coastal Plain as underflow and rising water. The average annual discharge of rising water for the seven-year period 1936-42 was 60,000 acre-feet.

In the sub-basins of the San Gabriel Valley group the general trend of water table fluctuations has also been upward. However, the fluctuations in the several sub-basins have not been synchronous, and there has been a wide variance in range.

All of these basins depend in some degree upon underflow from adjacent basins for replenishment, and some of them depend almost entirely upon it. Pomona Basin, for instance, has no important stream flowing across its surface, and direct penetration of rainfall below the plant root zone is almost negligible; hence, it must depend upon underflow from Upper and Lower Claremont basins. The effect of this underflow upon its water table is very clearly shown on Plate II and Plate III.

Similar relations are found between Upper Claremont Basin and Lower Claremont Basin as shown on Plate IV. The shorter delay of the lower basin in reaching its peak in 1941 than in 1938 is due to the fact that the water table in the upper basin rose to a higher elevation in 1941 and thus permitted a more rapid passage of the underflow over the barrier.

This latter statement apparently holds true also for the relation between Upper Claremont Basin and the northern part of Chino Basin, as shown on Plate V.

The water tables in the lower part of Chino Basin and the lower part of Pomona Basin fluctuate synchronously (Refer to Plate VI) though not in the same order of magnitude. This does not

imply that the barrier between them is not impervious. Rather it seems to indicate that both of these areas are so far removed from their principal sources of replenishment that water table fluctuations reflect but little more than seasonal change in demand; which, of course, is simultaneous in both areas.

Plate VII shows the relation between San Antonio Canyon Basin and Upper Claremont Basin. Both are replenished by flows in San Antonio Wash, but the latter is also replenished by underflow from the former. The retarding effect of the barrier is indicated by the three-month delay in peaking in the lower basin.

The hydrographs on Plate VIII show clearly that the barrier between Way Hill Basin and Glendora Basin is totally impervious. The synchronous rises and falls in the dry years of 1936, 1940, and 1942, probably resulted from simultaneous seasonal changes in demand.

Similar relations appear to hold between Way Hill Basin and San Dimas Basin, as shown on Plate IX.

The relations between the western part of Main Basin and the western part of Raymond Basin are shown on Plate X. The barrier at this locality is a totally impervious sandstone and shale ridge thrust upward by faulting. The ridge is buried deeply beneath alluvium eastward from this locality, but the gouge formed in the alluvium along the fault is also very impervious. Hence, the Raymond barrier throughout its length effectively prevents or impedes passage of water by underflow from Raymond Basin to Main Basin.

Raymond Basin is also partly separated from Monk Hill Basin by a buried ridge of granitic rock. (Refer to Plate XI.) Between Monk Hill and Devils Gate the ridge is close to the surface and constitutes an effective barrier. Farther east, however, the ridge dips down under the alluvium, thus permitting the water in the upper basin to by-pass it and reach the lower basin by a circuitous route.

The relations between San Gabriel Main Basin and the two canyon basins immediately north of it are shown on Plate XII.

Upper Canyon Basin has a small capacity, and it fills and empties annually. The water that is not extracted from it passes by underflow to Lower Canyon Basin. The fault barrier between the two basins is partially impervious at the lower elevations, but to a depth of about fifty feet below the surface it is very permeable, and when the water rises above that elevation it spills over rapidly into Lower Canyon Basin.

Lower Canyon Basin functions in substantially the same manner; and, in general, reaches a peak about a month later than the upper basin. It discharges into Main Basin by delayed underflow.

Each of these San Gabriel basins is, of course, replenished also by surface flows; and, as the hydrographs of their wells show, they respond to even the small flows released from the dams for sprea ing in the Coastal Plain.

The Coastal Plain Group

This group consists of a large and important Central Basin; and two small, less important sub-basins.

The Central Basin lies immediately south of Whittier Narrows, and is replenished largely by surface flows of the San Gabriel River and Rio Hondo and underflow through the narrows. Los Angeles River is a much less important source of replenishment.

Central Basin comprises two readily distinguishable areas - an Intake Area or Forebay, and a Pressure Area.

In the Intake Area the aquifer is free, and the water table rises or falls as replenishment exceeds or falls short of depletion. In the Pressure Area the aquifers are confined beneath thick clay strata and the pressure surfaces in wells rise or fall according to the head upon them.

The Pressure Area is divided into two parts; one part immediately adjacent to the Intake Area, where extractions promptly influence the water table elevation in the latter, and a more distant part where extractions do not promptly affect such water table elevations. (Refer to Plate XIII).

Many of the wells in the Pressure Area flowed above the ground surface when first drilled; but heavy draft gradually reduced the pressure surfaces, and by 1933 all had ceased flowing. However, in the Spring of 1942 more than a score had resumed flowing.

The two sub-basins of the Coastal Plain are West Coastal Basin and Hollywood Basin.

West Coastal Basin lies oceanward of the Inglewood fault barrier. This barrier is not a simple fault; but rather a series of echelon faults and bed rock folds with pervious gaps here and there. Through such gaps an undetermined amount of underflow passes from Central Basin to West Basin. (Refer to Plate XIV).

Hollywood Basin is not separated from Central Basin by any natural barrier; but, inasmuch as its replenishment is entirely from rainfall penetration and runoff from Santa Monica Mountains, its hydrologic characteristics are distinct from those of Central Basin.

Ground Water Replenishment

Rainfall penetration and underflow cannot be increased or

modified in any practical and economical manner by human effort. Influent seepage from channels, however, may be increased by occasionally scarifying the channel bottoms; and percolation in spreading grounds may be made an important means of replenishment up to the economic limit established for any given stream.

The quantity of water conserved by influent seepage in channels and by percolation in spreading grounds during the 1941-42 season is shown on Pages 207 to 210.

A tabulation of the runoff that reached the ocean during the past fifteen years is given on Page 210. It may be noted that the amount of waste for a given rainfall index is greater in the later years of the record than in the earlier years. This is partly due to a large increased in paved (impervious) area; partly to confining the streams in narrow channels with a consequent reduction of wetted area; and partly to high ground water levels, which reduced percolation rates. It must be remembered, however, that runoff is largely a function of intensity of rainfall and that it does not vary directly with the quantity of rainfall.

With the flood control and conservation facilities now in operation, those under construction, and those contemplated under the Comprehensive Plan, it is to be expected that the waste eventually will be reduced. It will never be totally eliminated, however, because conservation has economic limits.

Ground Water Pollution

During the 1941-42 season the study of ground water pollution was continued. Samples of water for chemical analysis were taken from streams, sewage disposal plant effluents, and from wells in industrial districts, oil fields, and the coastal area. In general, only partial analyses of these samples were made; that is, only the carbonate, bicarbonate and chloride content were determined. About 330 such analyses were made in the District's laboratory.

The District continued to cooperate with the United States Geological Survey in the study of the coastal ground water barrier. That study is approaching conclusion and the District will be able to present a summary of the findings in the next annual report.

Responsibility

All the work relative to water conservation and ground water was done under the immediate supervision of Mr. L. W. Jordan.

Appendix

Conservation from Channel Absorption, or by Diversions for Use

Releases from reservoirs regulated to percolating capacity of channels

and spreading grounds. Percolating capacity of channels maintained by scarifying.

1. Pacoima Wash from the dam to Parthenia Avenue

Absorptive Capacity; approximately 40 c.f.s. to 125 c.f.s.

Amount Conserved.

Year	Release A.F.	Excess of Release over Channel and Sprdg. Grds. Capacity-A.F.	Conserved in Sprdg. Grds.A.F.	Conserved or Used-A.F.
1941-42	1,985	0	0	1,985

2. Big Tujunga Wash from Hansen Dam to Magnolia Boulevard.

Absorptive Capacity; approximately 250 c.f.s. to 700 c.f.s.

Amount Conserved.

Year	Release A.F.	Excess of Release over Channel Capacity-A.F.	Conserved or Used-A.F.
1941-42	4,190	0	4,190.

Note: Hansen Dam percolation (Mouth of Big Tujunga and Little Tujunga to Hansen Dam)---6,700 A.F.

3. Eaton Wash from dam to Rio Hondo.

Absorptive Capacity; approximately 13 c.f.s. to 40 c.f.s.

Amount Conserved.

Year	Release A.F.	Excess of Release over Channel Capacity-A.F.	Conserved or Used-A.F.
1941-42	0	0	0

4. Santa Anita Wash from dam to Arrow Highway.

Absorptive Capacity; approximately 40 c.f.s. to 100 c.f.s.

Amount Conserved.

Appendix (continued)

Year	Release A.F.	Excess of Release over Channel Capacity-A.F.	Conserved or Used-A.F.
1941-42	2,140	0	2,140

5. Sawpit Wash from U.S.G.S. Station to Rio Hondo.

Absorptive Capacity; approximately 12 c.f.s. to 20 c.f.s.

Amount Conserved.

Year	Release A.F.	Excess of Release over Channel Capacity-A.F.	Conserved or Used-A.F.
1941-42	30	0	30

6. San Gabriel River and Rio Hondo from Morris Dam to Florence Avenue and Stewart and Gray Road respectively (excluding tributaries and Rising Water.)

Absorptive Capacity varies with water table elevation and magnitude of releases.

Amount Conserved.

Canyon Basin and Main Basin

S.G. Can. Flow including Az. D. Tunnel Power Cond. F. & R. Cr.	Excess over Channel Capacity and Diversions	Spread by S.G. Sprd. Corp.		Irrigation Diversions	Channel Percolation		Total conserved
		Canyon Basin	Main Basin		Canyon Basin	Main Basin	
55,610	1,170	21,390	8,240	19,430	2,560	2,820	54,440

Coastal Basin

Canyon flow, tributaries and rising water	Excess over Channel capacity and Diversions	Spread in Coastal Bsn. Sprdg. Grds.	Channel Percolation
72,120	20,300	2,180	49,640

Appendix (continued)

7. San Dimas Wash from Mouth of Canyon to Glendora Avenue.

Absorptive Capacity; 7 c.f.s.

Amount Conserved - Year 1941-42

Total Flow (a) U.S.G.S.	°Percolation Mouth of Canyon to Pudd.Div.Dam	Percolation in Pudd.Div. Reservoir	Percolation fm Pudd. Div. Dam to Glendora Av.	Diversion to Pudd. Div. Channe
1,890 A.F.	1,550 A.F.	140 A.F.	170 A.F.	35 A.F.

Total Percolation and use - 1860 A.F.

° Includes diversion by San Dimas Water Company.

8. Live Oak Wash from dam to Foothill Boulevard.

Absorptive Capacity; 4 c.f.s.

Amount Conserved.

Year	Release A.F.	Excess of Release over Channel Capacity-A.F.	Conserved or Used-A.F.
1941-42	0	0	0

9. Thompson Creek

Year	Inflow A.F.	Conserved in reservoir
1941-42	0.3	0.3

Conservation in off-channel Spreading Grounds

The descriptions of the various spreading grounds are given in the District's Report on Hydrologic Data for the season 1936-37 and 1937-38.

The following tabulation gives the quantities spread in the District, for the 1941-42 season.

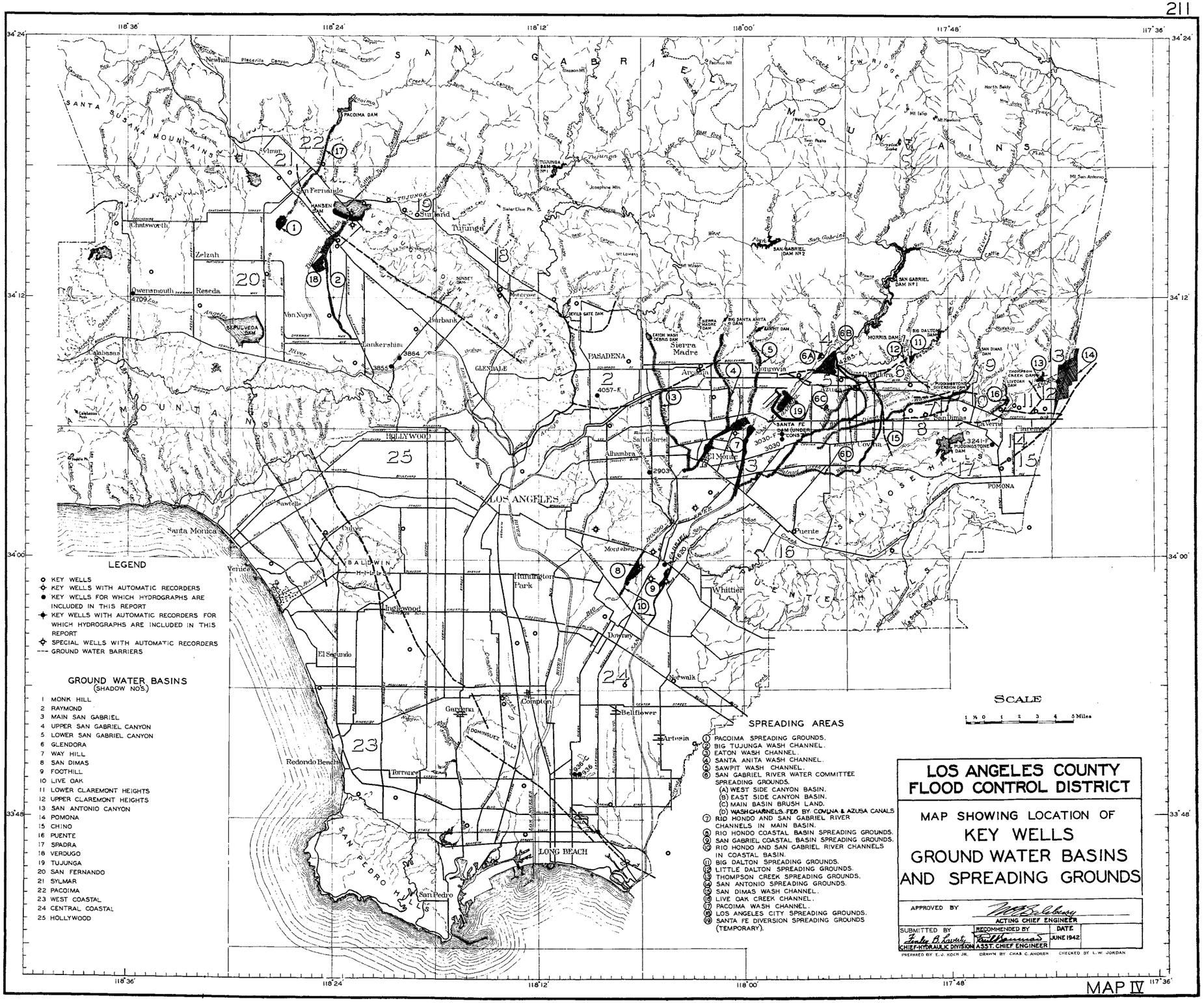
	Spreading Grounds	Acre-Feet
1.	Pacoima	40
2.	Rio Hondo Coastal Basin	2180
3.	San Gabriel River Coastal Basin	0
4.	San Gabriel River Water Committee In Canyon Basin	
	(a) West side	7245
	(b) East side	14145

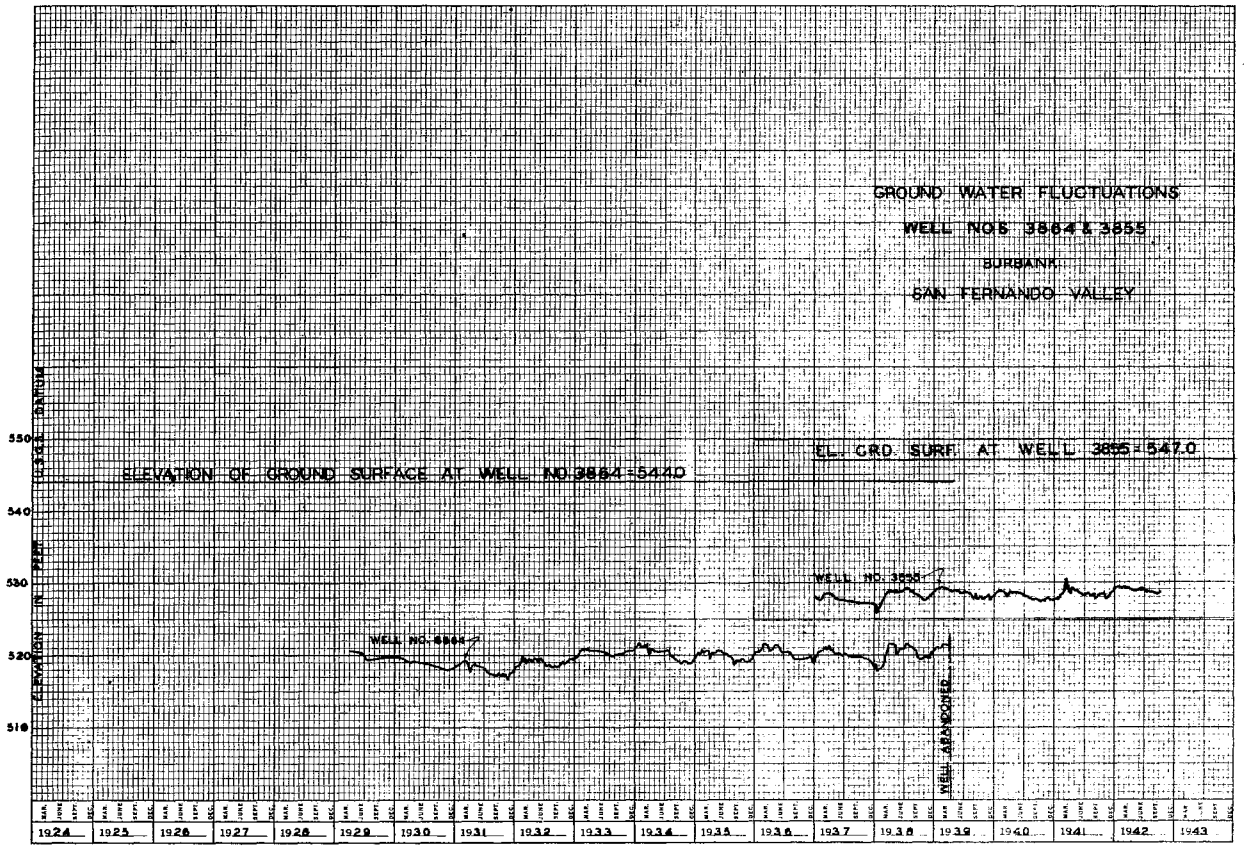
Appendix (continued)

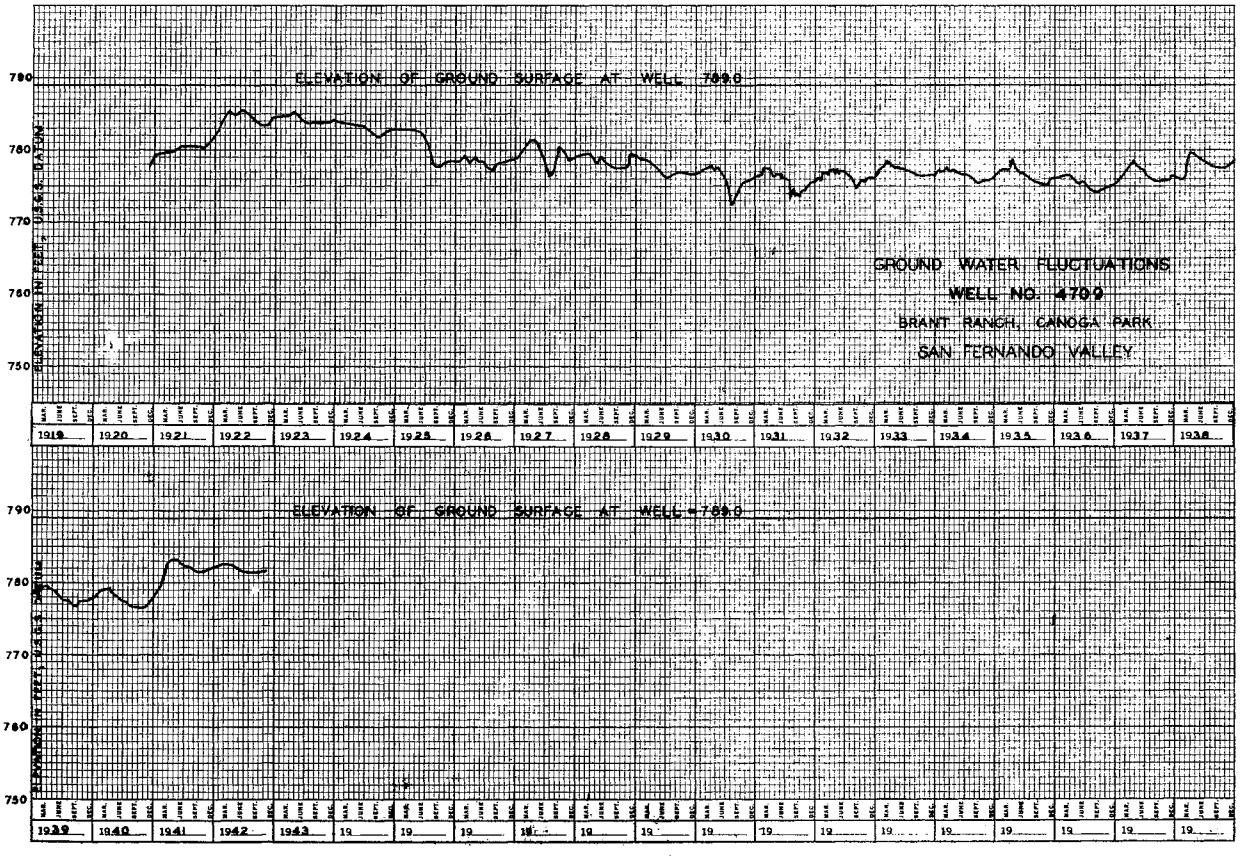
Spreading Grounds (Cont'd.)	Acre-Feet
In Main Basin	
(a) Covina Canal	3620
(b) Azusa Canal	4127
(c) Brush Land	493
5. Little Dalton	160
6. Big Dalton	120
7. Thompson Creek	0
8. San Antonio	80
Total	32210

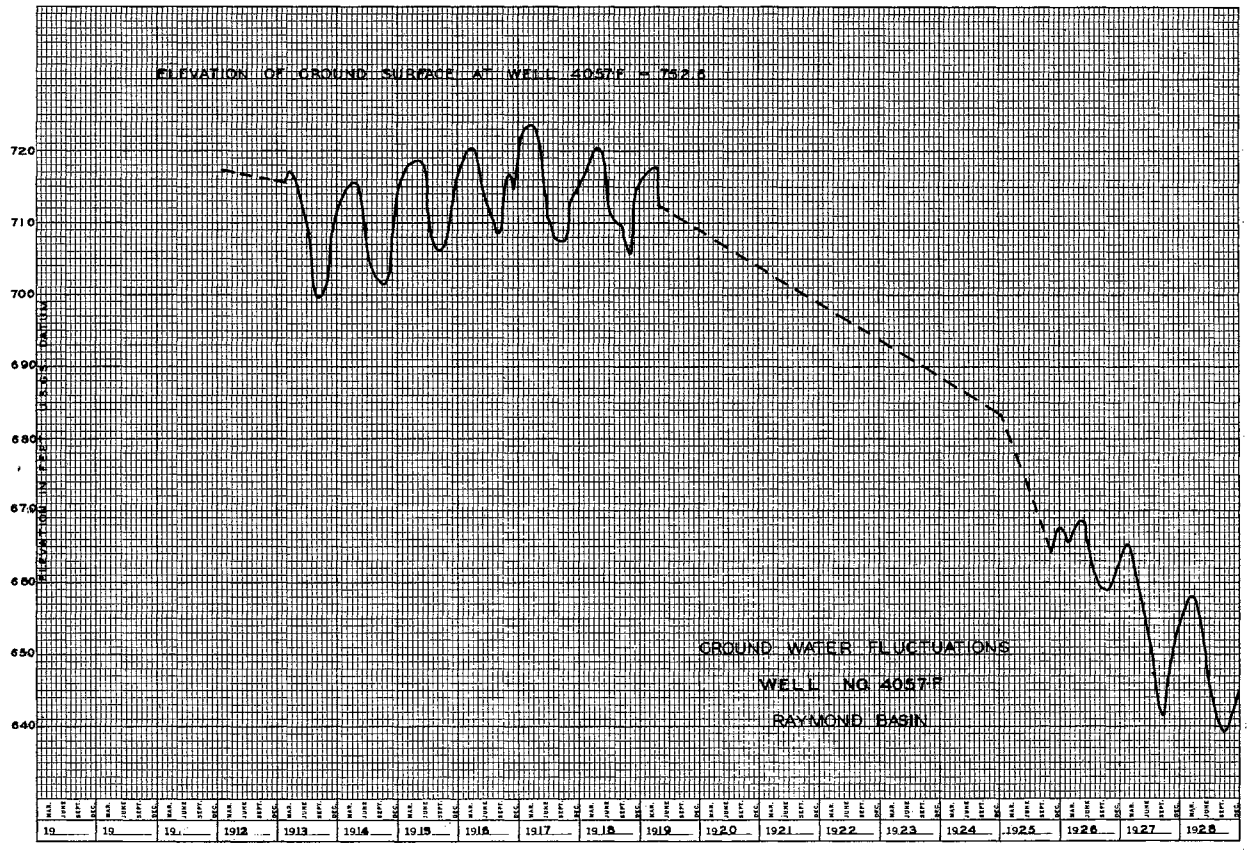
Runoff Waste to Ocean in Acre Feet

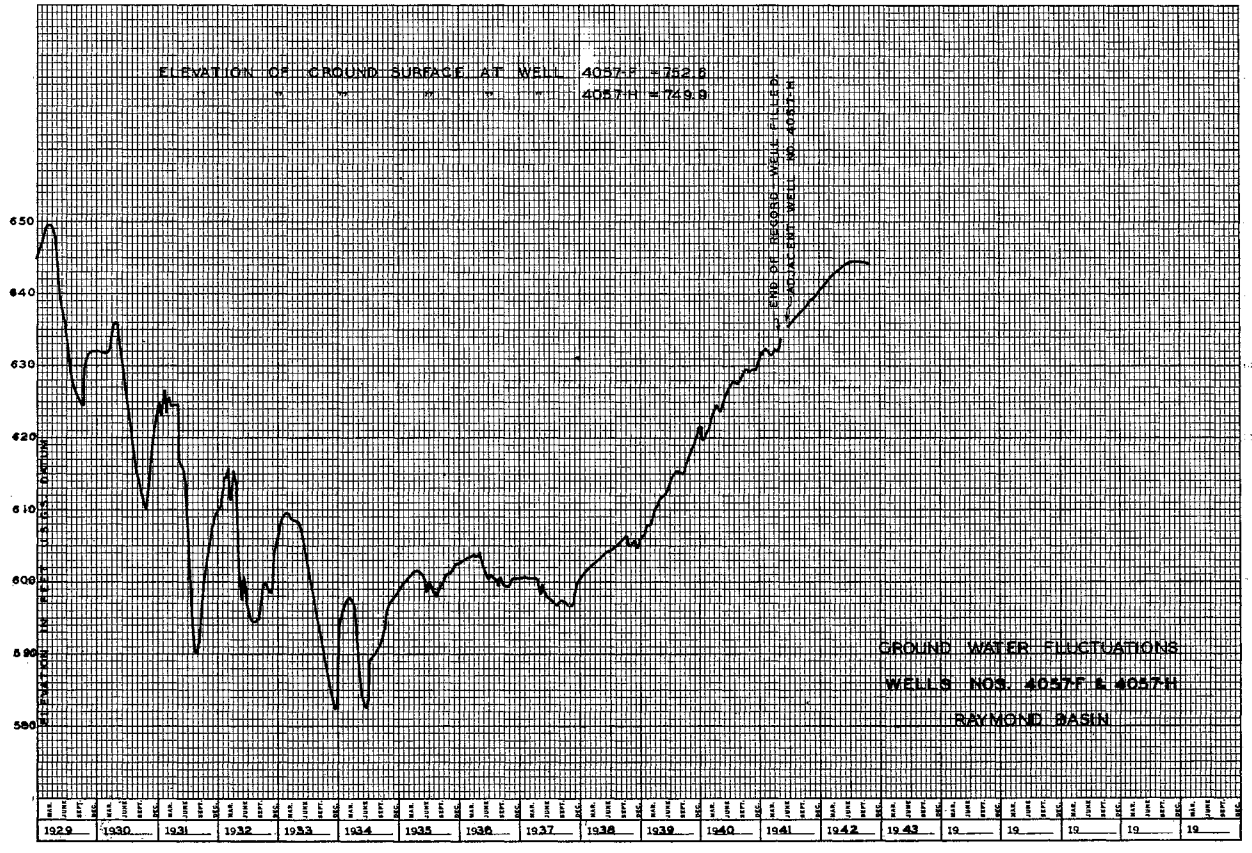
Year	Coyote Creek near Del Amo °Below P.E. Bridge - Artesia	San Gab. River at Spring St.	L.A. River at State St. °L.A. River at Willow St.	Ballona Creek at Sawtelle Boulevard °At Centinella Blvd.	Total Waste to Ocean	Rainfall Index-Mean for County
1927-28		No Flow	-	°3930. Inc.		70
1928-29		No Flow	°9340. Inc.	°14900.	24240. Inc.	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

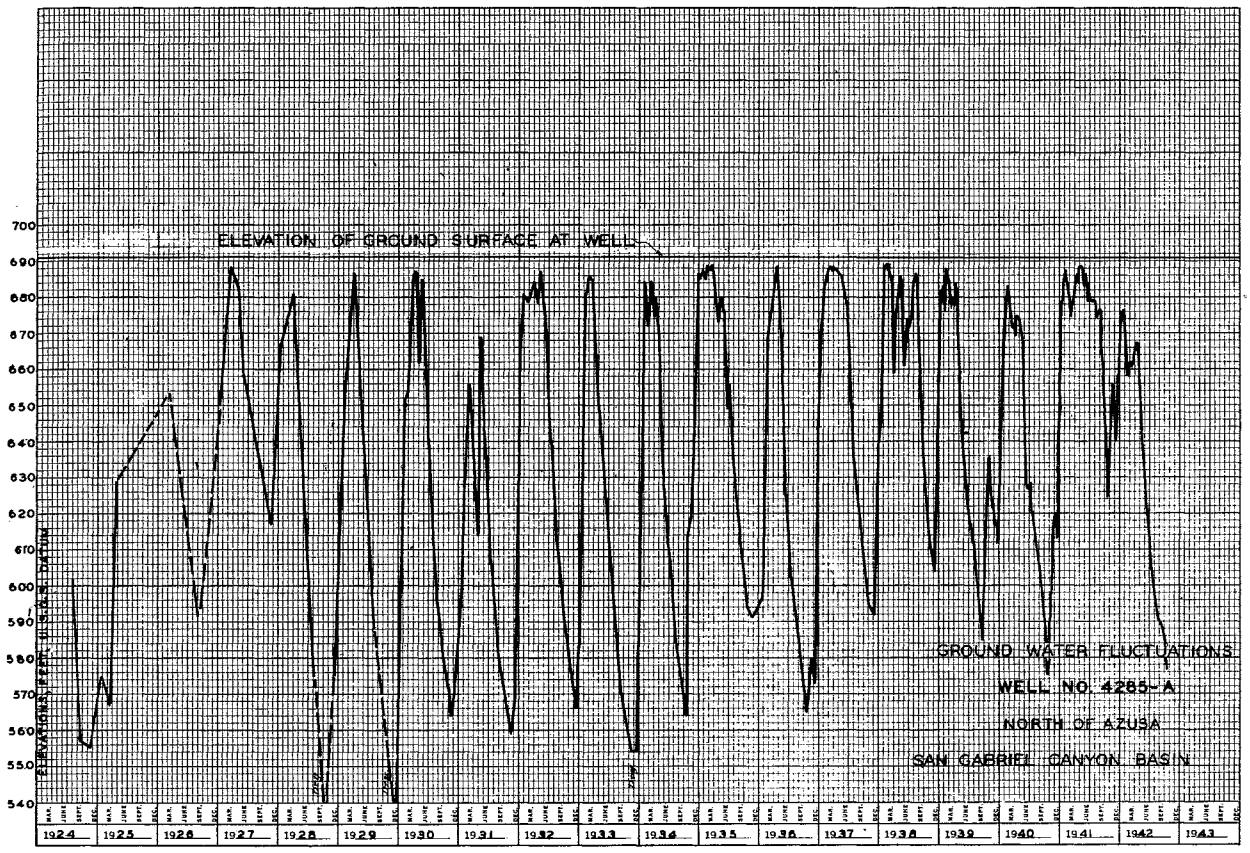

LEGEND
KEY WELLS
KEY WELLS WITH AUTOMATIC RECORDERS
KEY WELLS FOR WHICH HYDROGRAPHS ARE INCLUDED IN THIS REPORT
KEY WELLS WITH AUTOMATIC RECORDERS FOR WHICH HYDROGRAPHS ARE INCLUDED IN THIS REPORT
SPECIAL WELLS WITH AUTOMATIC RECORDERS
GROUND WATER BARRIERS
GROUND WATER BASINS
(SHADOW NO'S.)
1 MONK HILL
2 RAYMOND
3 MAIN SAN GABRIEL
4 UPPER SAN GABRIEL CANYON
5 LOWER SAN GABRIEL CANYON
6 GLENDORA
7 WAY HILL
8 SAN DIMAS
9 FOOTHILL
10 LIVE OAK
11 LOWER CLAREMONT HEIGHTS
12 UPPER CLAREMONT HEIGHTS
13 SAN ANTONIO CANYON
14 POMONA
15 CHINO
16 PUENTE
17 SPADRA
18 VERDUGO
19 TUJUNGA
20 SAN FERNANDO
21 SYLMAR
22 PACOIMA
23 WEST COASTAL
24 CENTRAL COASTAL
25 HOLLYWOOD
SPREADING AREAS
(1) PACOIMA SPREADING GROUNDS.
(2) BIG TUJUNGA WASH CHANNEL.
(3) EATON WASH CHANNEL.
(4) SANTA ANITA WASH CHANNEL.
(5) SAWPIT WASH CHANNEL.
(6) SAN GABRIEL RIVER WATER COMMITTEE SPREADING GROUNDS.
(A) WEST SIDE CANYON BASIN.
(B) EAST SIDE CANYON BASIN.
(C) MAIN BASIN BRUSH LAND.
(D) WASH CHANNELS FED BY COVINA & AZUSA CANALS
(7) RIO HONDO AND SAN GABRIEL RIVER CHANNELS IN MAIN BASIN.
(8) RIO HONDO COASTAL BASIN SPREADING GROUNDS.
(9) SAN GABRIEL COASTAL BASIN SPREADING GROUNDS.
(10) RIO HONDO AND SAN GABRIEL RIVER CHANNELS IN COASTAL BASIN.
(11) BIG DALTON SPREADING GROUNDS.
(12) LITTLE DALTON SPREADING GROUNDS.
(13) THOMPSON CREEK SPREADING GROUNDS.
(14) SAN ANTONIO SPREADING GROUNDS.
(15) SAN DIMAS WASH CHANNEL.
(16) LIVE OAK CREEK CHANNEL.
(17) PACOIMA WASH CHANNEL.
(18) LOS ANGELES CITY SPREADING GROUNDS.
(19) SANTA FE DIVERSION SPREADING GROUNDS (TEMPORARY).
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
CHIEF-HYDRAULIC DIVISION
RECOMMENDED BY
ASST. CHIEF ENGINEER
DATE
JUNE 1942
PREPARED BY E.J. KOCH JR.
DRAWN BY CHAS. C. AHOREN
CHECKED BY L.W. JORDAN
SANTA SUSANA MOUNTAINS
SAN GABRIEL MOUNTAINS
SAN JOSE HILLS
PUENTE HILLS
SAN PEDRO HILLS
DOMINGUEZ HILLS
LOS ANGELES
HOLLYWOOD
PASADENA
GLENDALE
BURBANK
SAN FERNANDO
Sylmar
Chatsworth
Zelzah
Reseda
Owensmouth
Van Nuys
Tujunga
Sunland
Monrovia
Arcadia
Sierra Madre
Azusa
Covina
San Dimas
Claremont
Pomona
Puente
Whittier
Montebello
Alhambra
San Gabriel
El Monte
Pacoima
Newhall
Santa Monica
Venice
Culver
Baldwin Hills
Inglewood
Huntington Park
El Segundo
Downey
Norwalk
Compton
Gardena
Bellflower
Artesia
Redondo Beach
Torrance
Long Beach
San Pedro
Calabasas
Canoga Park
PACOIMA DAM
HANSEN DAM
SEPULVEDA DAM
SAN GABRIEL DAM NO 2
SAN GABRIEL DAM NO 1
MORRIS DAM
BIG DALTON DAM
SAN DIMAS DAM
THOMPSON CREEK DAM
LIVEOAK DAM
PUDDINGSTONE DAM
PUDDINGSTONE DIVERSION DAM
SANTA FE DAM (UNDER CONS.)
DEVILS GATE DAM
EATON WASH DEBRIS DAM
SIERRA MADRE DAM
BIG SANTA ANITA DAM
SAWPIT DAM
TUJUNGA DAM NO 1
118°36'
118°24'
118°12'
118°00'
117°48'
117°36'
34°24'
34°12'
34°00'
33°48'
MAP IV

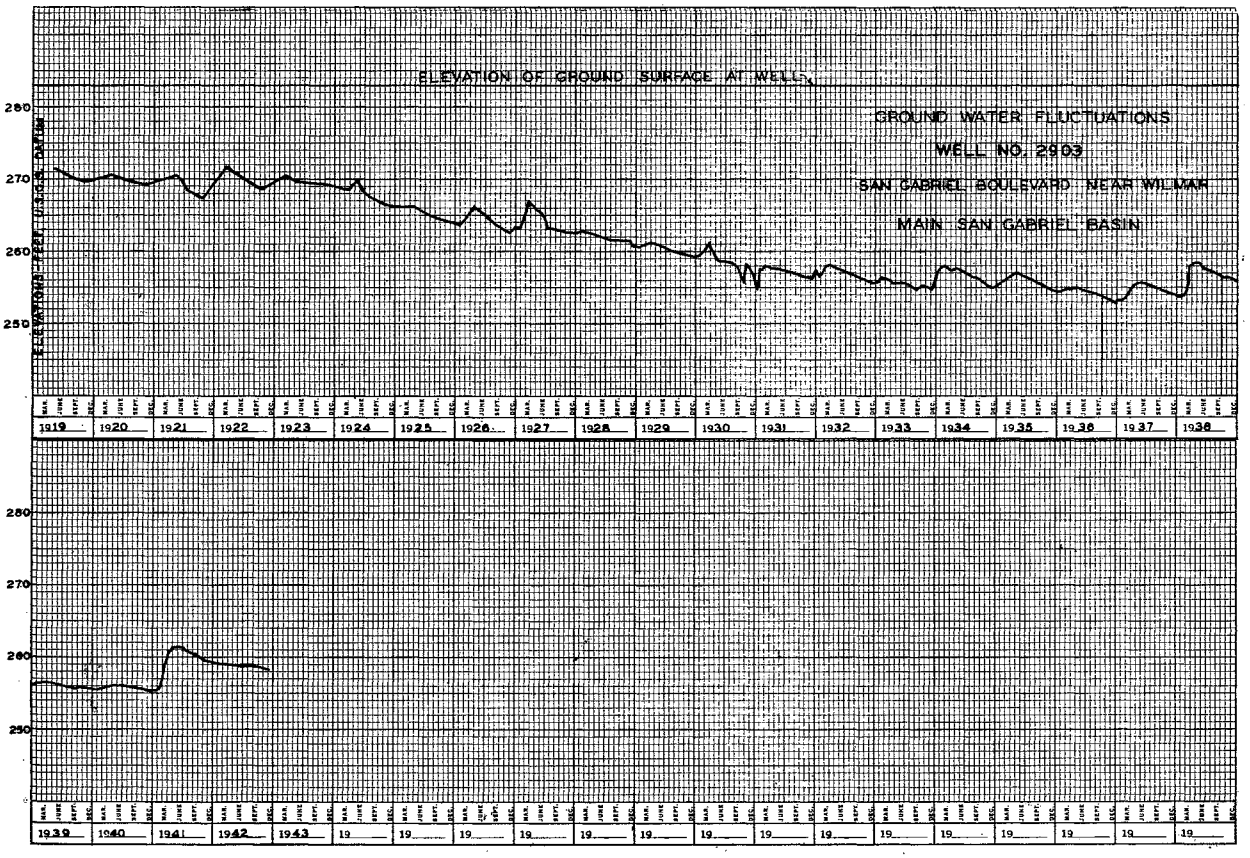

GROUND WATER FLUCTUATIONS
WELL NOS 3864 & 3855
BURBANK
SAN FERNANDO VALLEY
ELEVATION IN FEET, U.S.G.S. DATUM
550
540
530
520
510
ELEVATION OF GROUND SURFACE AT WELL NO 3864=544.0
EL. GRD. SURF. AT WELL 3855=547.0
WELL NO. 3855
WELL NO. 3864
WELL ABANDONED
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943

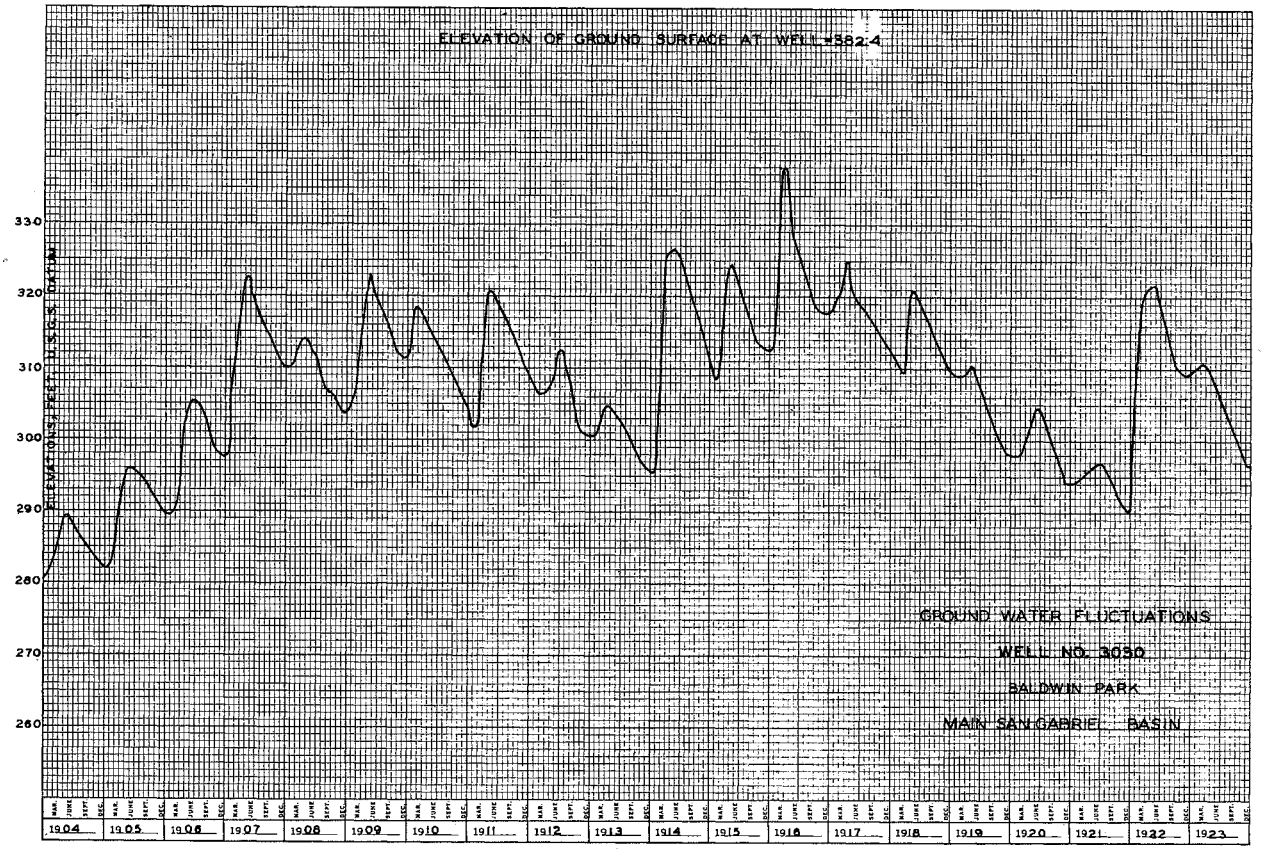

ELEVATION IN FEET, U.S.G.S. DATUM
790
780
770
760
750
ELEVATION OF GROUND SURFACE AT WELL 789.0
GROUND WATER FLUCTUATIONS
WELL NO. 4709
BRANT RANCH, CANOGA PARK
SAN FERNANDO VALLEY
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
ELEVATION OF GROUND SURFACE AT WELL=789.0
1939
1940
1941
1942
1943

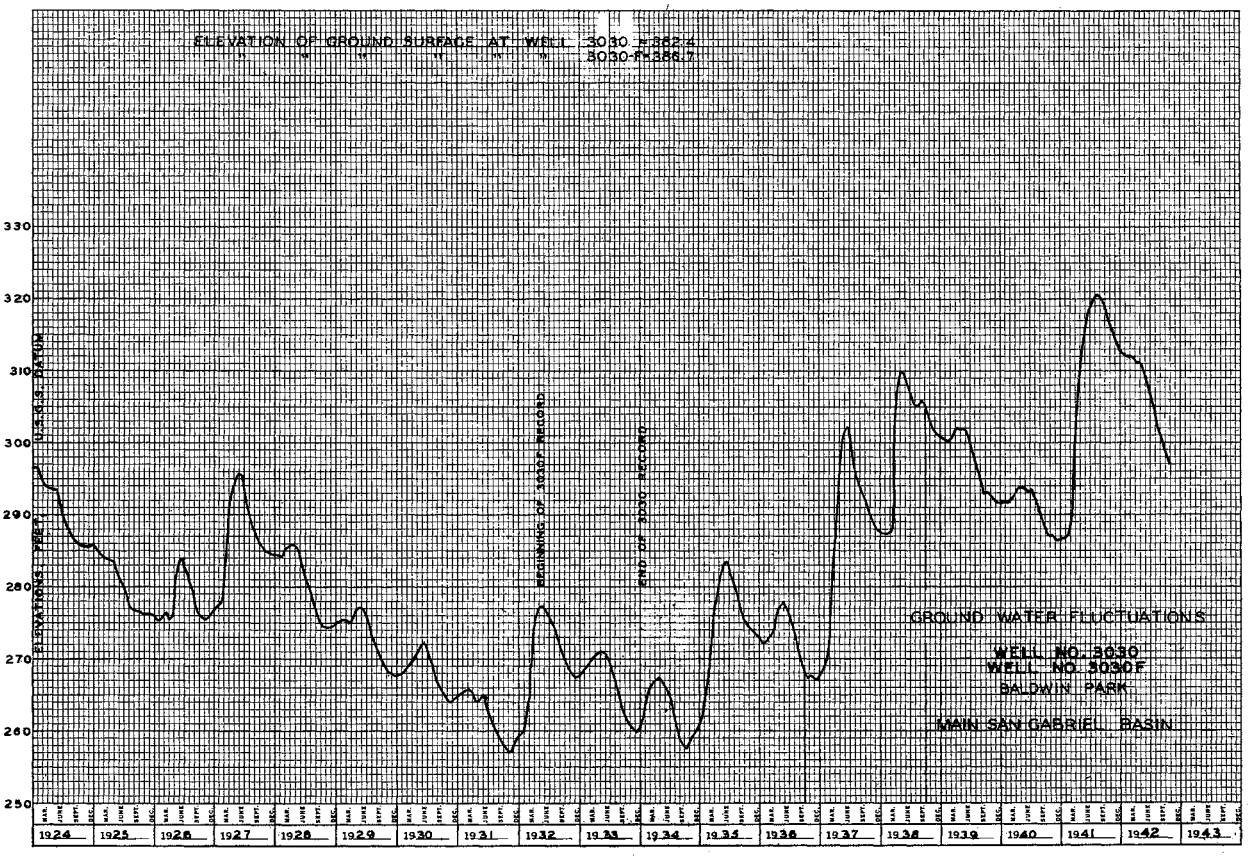

ELEVATION OF GROUND SURFACE AT WELL 4057F = 752.5
ELEVATION IN FEET USGS DATUM
720
710
700
690
680
670
660
650
640
GROUND WATER FLUCTUATIONS
WELL NO 4057F
RAYMOND BASIN
1911
1912
1913
1914
1915
1916
1917
1918
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928

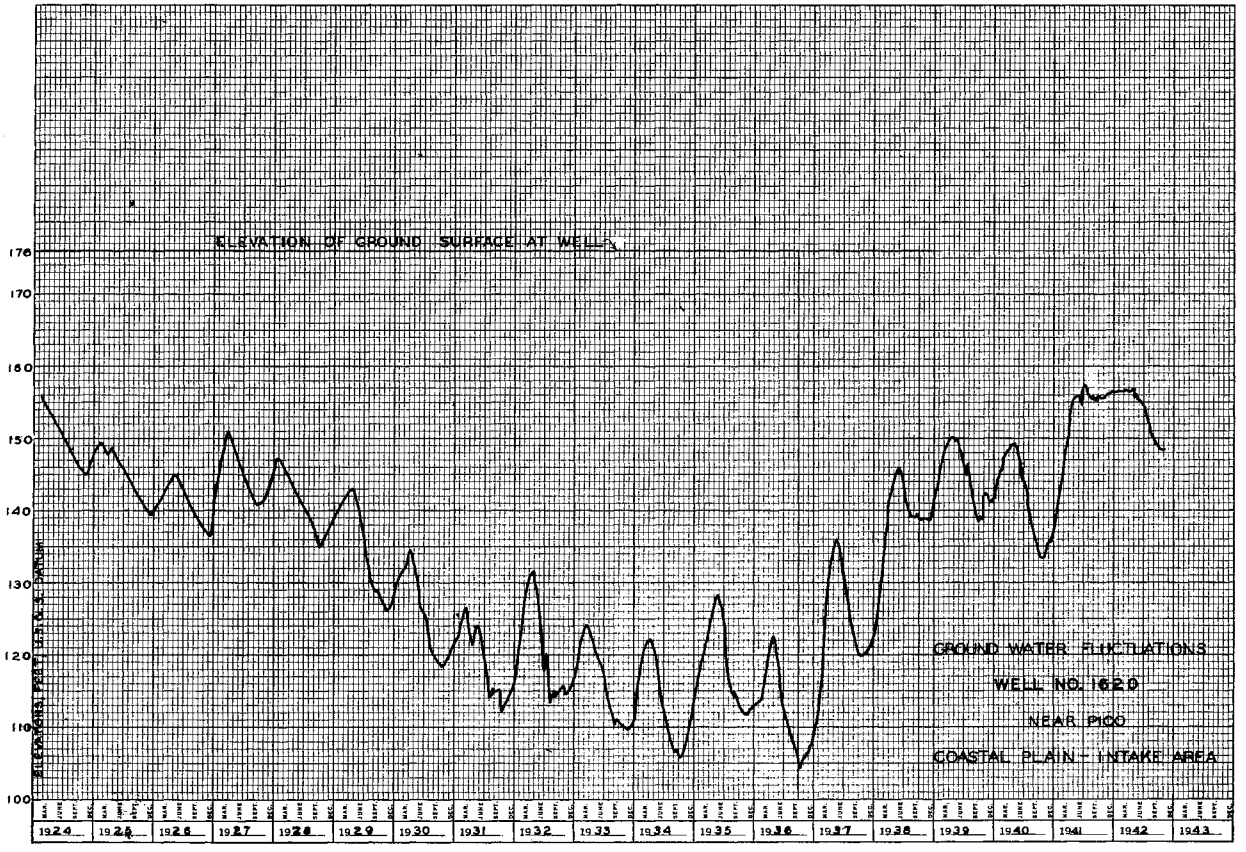

ELEVATION OF GROUND SURFACE AT WELL 4057-F = 752.5
" " " " " 4057-H = 749.9
END OF RECORD WELL 4057-F
ACTUAL END WELL NO 4057-H
ELEVATION IN FEET USGS DATUM
650
640
630
620
610
600
590
580
GROUND WATER FLUCTUATIONS
WELLS NOS. 4057-F & 4057-H
RAYMOND BASIN
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943

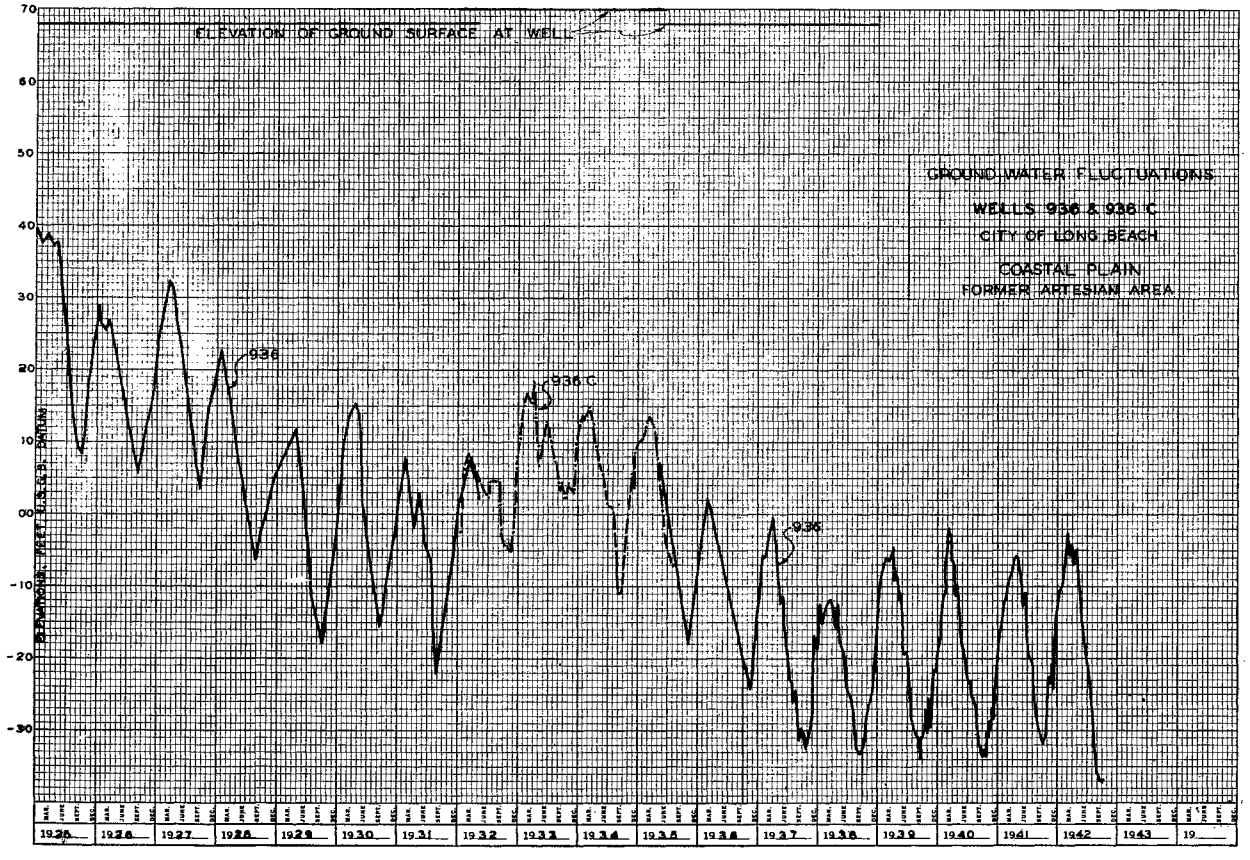

ELEVATION OF GROUND SURFACE AT WELL
ELEVATIONS, FEET, U.S.G.S. DATUM
700
690
680
670
660
650
640
630
620
610
600
590
580
570
560
550
540
GROUND WATER FLUCTUATIONS
WELL NO. 4265-A
NORTH OF AZUSA
SAN GABRIEL CANYON BASIN
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943

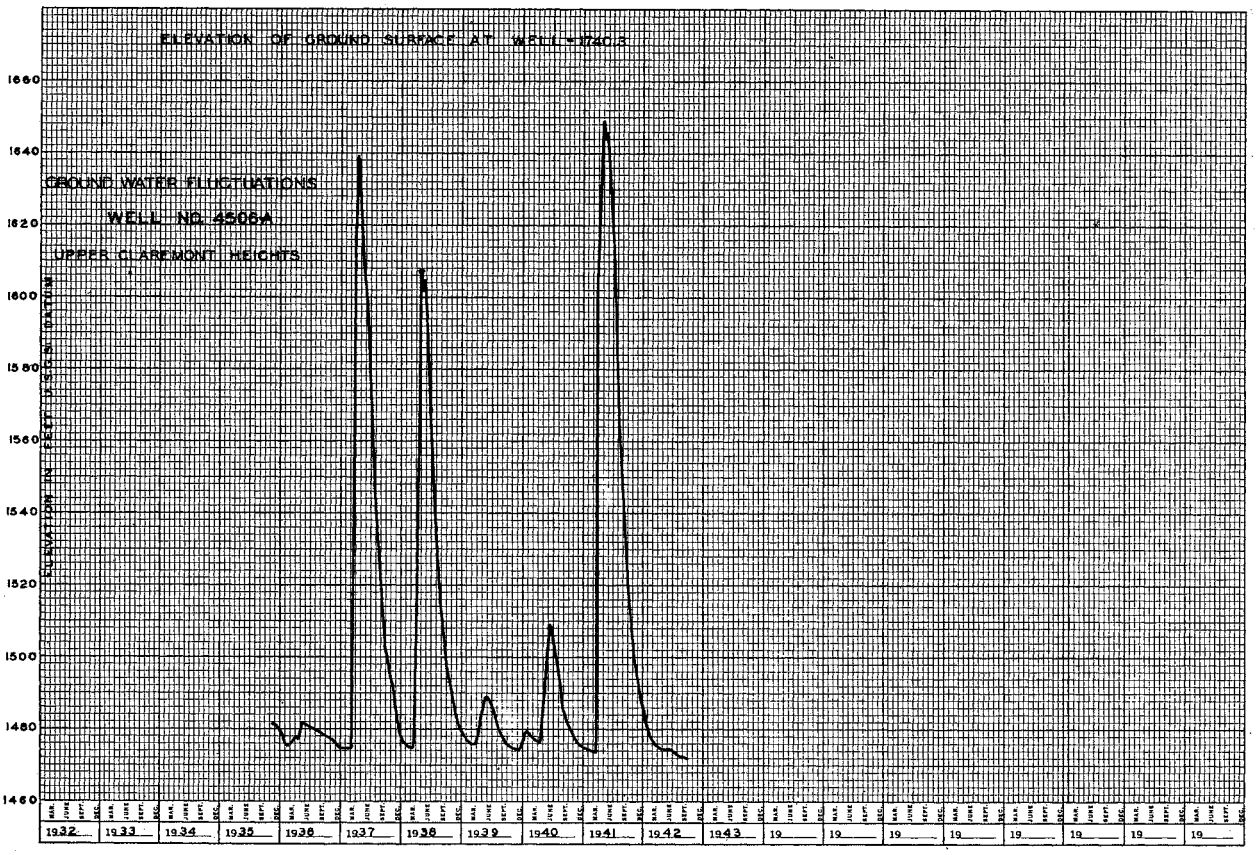

ELEVATION OF GROUND SURFACE AT WELL
ELEVATIONS, FEET, U.S.G.S. DATUM
280
270
260
250
GROUND WATER FLUCTUATIONS
WELL NO. 2903
SAN GABRIEL BOULEVARD NEAR WILMAR
MAIN SAN GABRIEL BASIN
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943

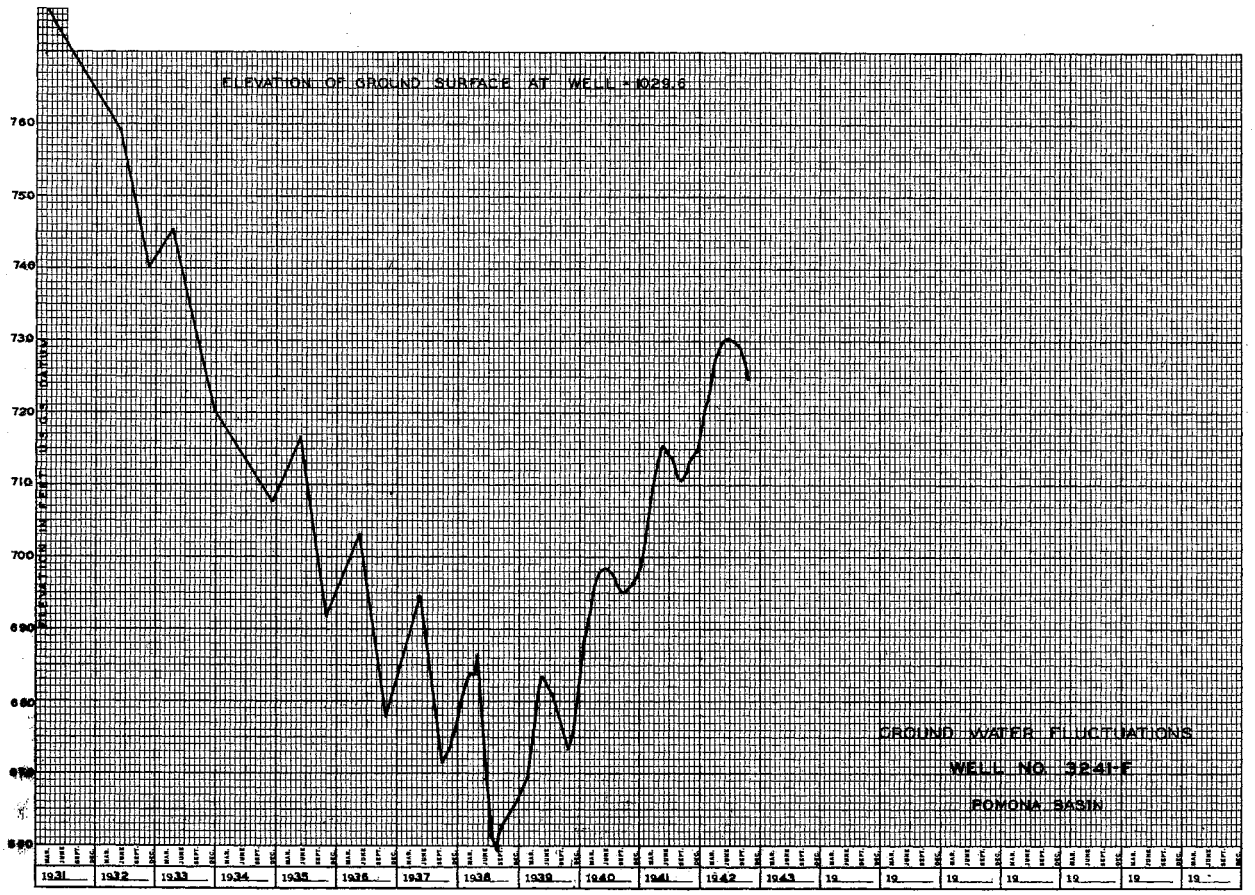

ELEVATION OF GROUND SURFACE AT WELL = 382.4
ELEVATIONS - FEET U.S.G.S. DATUM
330
320
310
300
290
280
270
260
GROUND WATER FLUCTUATIONS
WELL NO. 3030
BALDWIN PARK
MAIN SAN GABRIEL BASIN
1904
1905
1906
1907
1908
1909
1910
1911
1912
1913
1914
1915
1916
1917
1918
1919
1920
1921
1922
1923

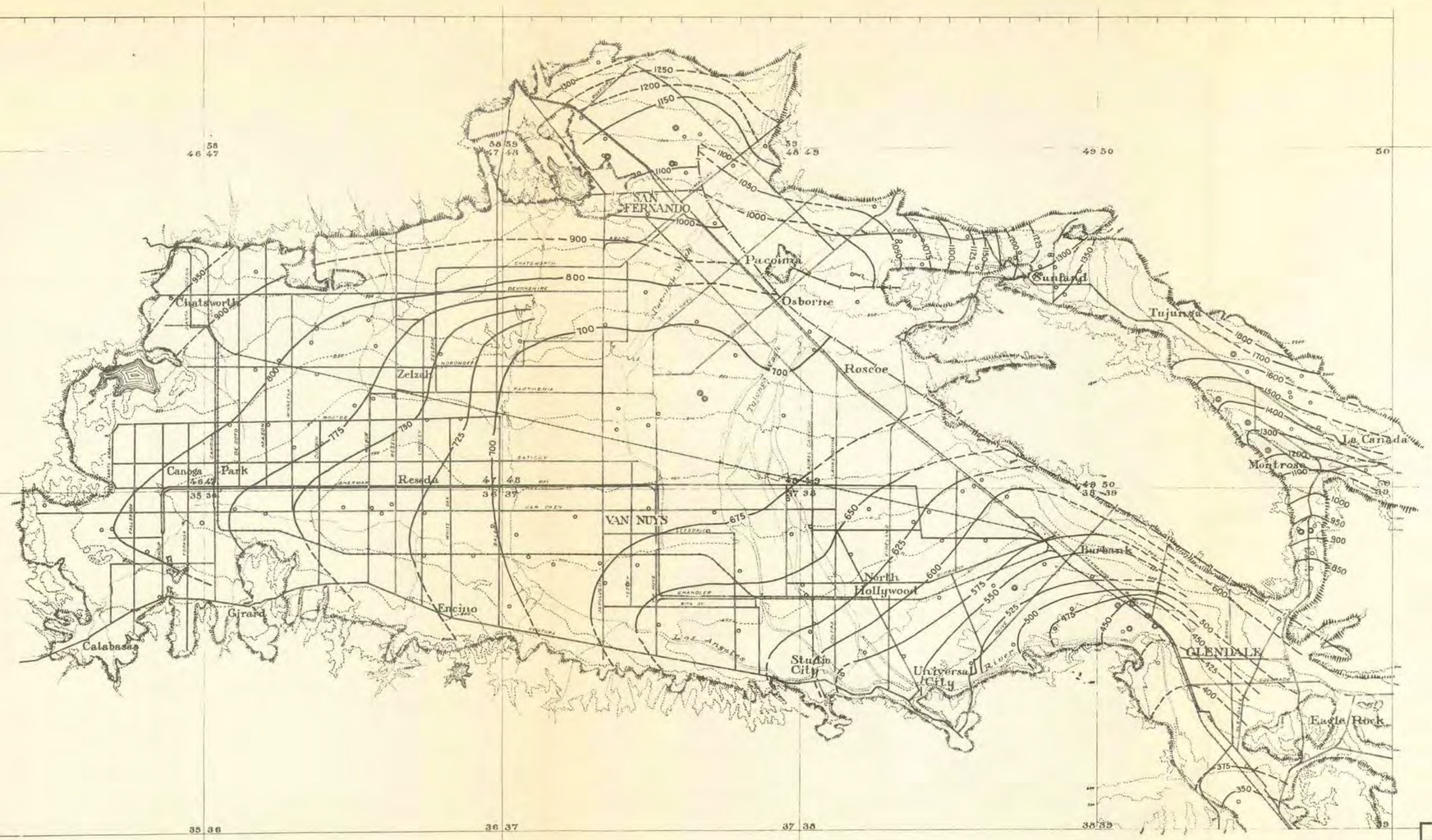

ELEVATION OF GROUND SURFACE AT WELL 3030 = 382.4
3030-F = 386.7
ELEVATIONS - FEET U.S.G.S. DATUM
330
320
310
300
290
280
270
260
250
BEGINNING OF 3030 RECORD
END OF 3030 RECORD
GROUND WATER FLUCTUATIONS
WELL NO. 3030
WELL NO. 3030F
BALDWIN PARK
MAIN SAN GABRIEL BASIN
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943


ELEVATION OF GROUND SURFACE AT WELL
GROUND WATER FLUCTUATIONS
WELL NO. 1629
NEAR PICO
COASTAL PLAIN - INTAKE AREA
ELEVATIONS, FEET U.S.G.S. DATUM
176
170
160
150
140
130
120
110
100
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943


ELEVATION OF GROUND SURFACE AT WELL
GROUND WATER FLUCTUATIONS
WELLS 936 & 936-C
CITY OF LONG BEACH
COASTAL PLAIN
FORMER ARTESIAN AREA
936
936-C
936
ELEVATIONS, FEET U.S.G.S. DATUM
70
60
50
40
30
20
10
00
-10
-20
-30
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943
19


ELEVATION OF GROUND SURFACE AT WELL - 1740.3
GROUND WATER FLUCTUATIONS
WELL NO. 4S06A
UPPER CLAREMONT HEIGHTS
ELEVATION IN FEET USGS DATUM
1660
1640
1620
1600
1580
1560
1540
1520
1500
1480
1460
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943


ELEVATION OF GROUND SURFACE AT WELL - 1029.6
ELEVATION IN FEET USGS DATUM
760
750
740
730
720
710
700
690
680
670
660
GROUND WATER FLUCTUATIONS
WELL NO. 3S-41-F
POMONA BASIN
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943



LEGEND

- ○ Wells representative of average ground water elevations, with comparable depth of hole, chemical analysis of water, and elevation of perforations.
- ⊙ Wells as above, except under heavy draught, or affected by heavy draught on nearby wells.
- • Wells which differ from average wells for various reasons, such as artesian characteristics, damaged casing, surface inflow, insufficient data, and erratic fluctuations of water in well.
- ● Wells of shallow depth, with perched water indications.
- ◆ Wells of deep water strata, not related to those of average wells.
- Lines of equal static ground water levels or of equal pressures
- Ditto,— location approximate
- Faults and other barriers to free ground water movement.
- Surface Contours

Scale in Miles

PREPARED BY
TRACED BY
CHECKED BY

REVISIONS		
MARK	DATE	DESCRIPTION

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

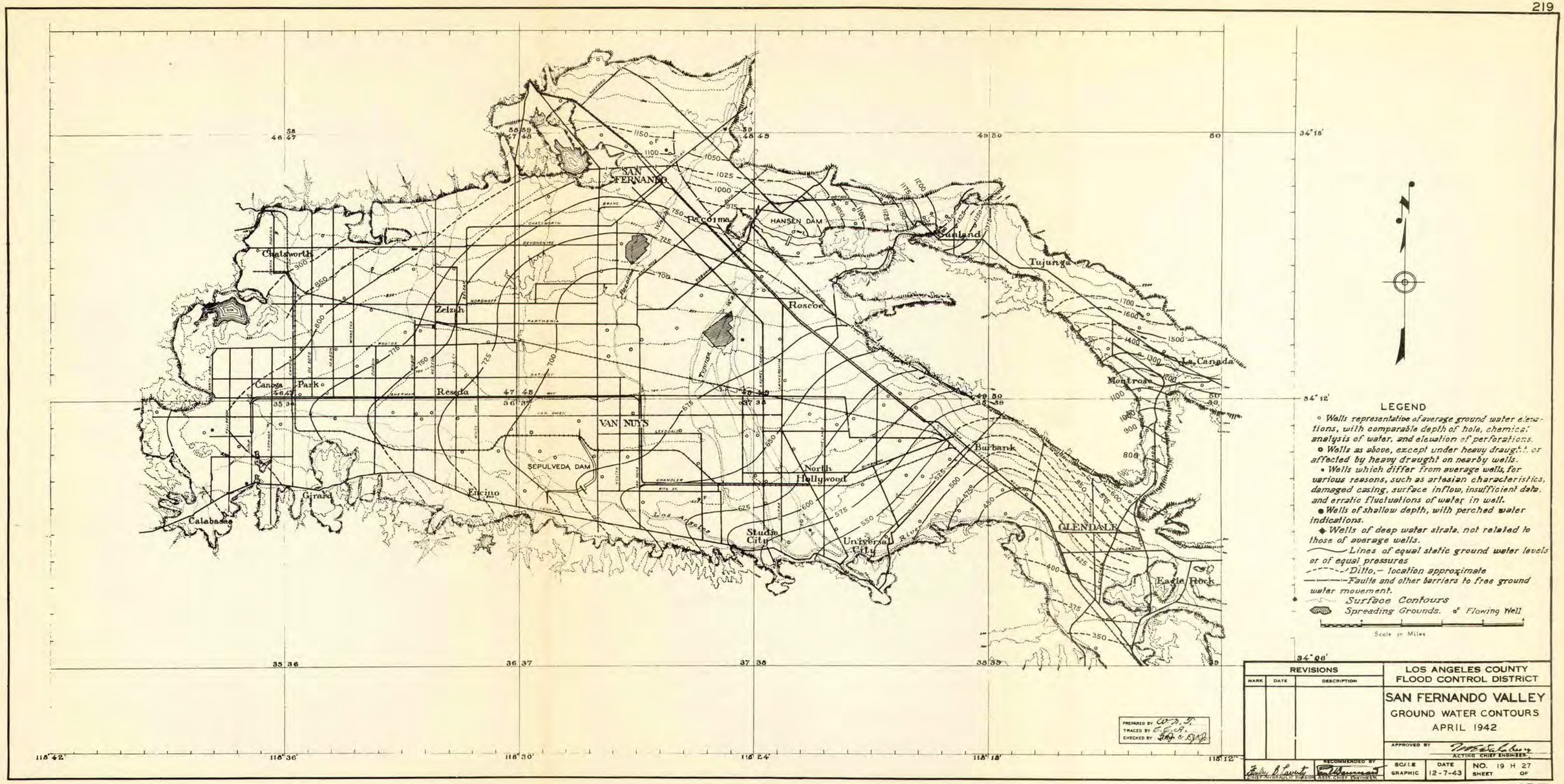
SAN FERNANDO VALLEY
GROUND WATER CONTOURS
OCT. - NOV. 1941

APPROVED BY — CHIEF ENGINEER

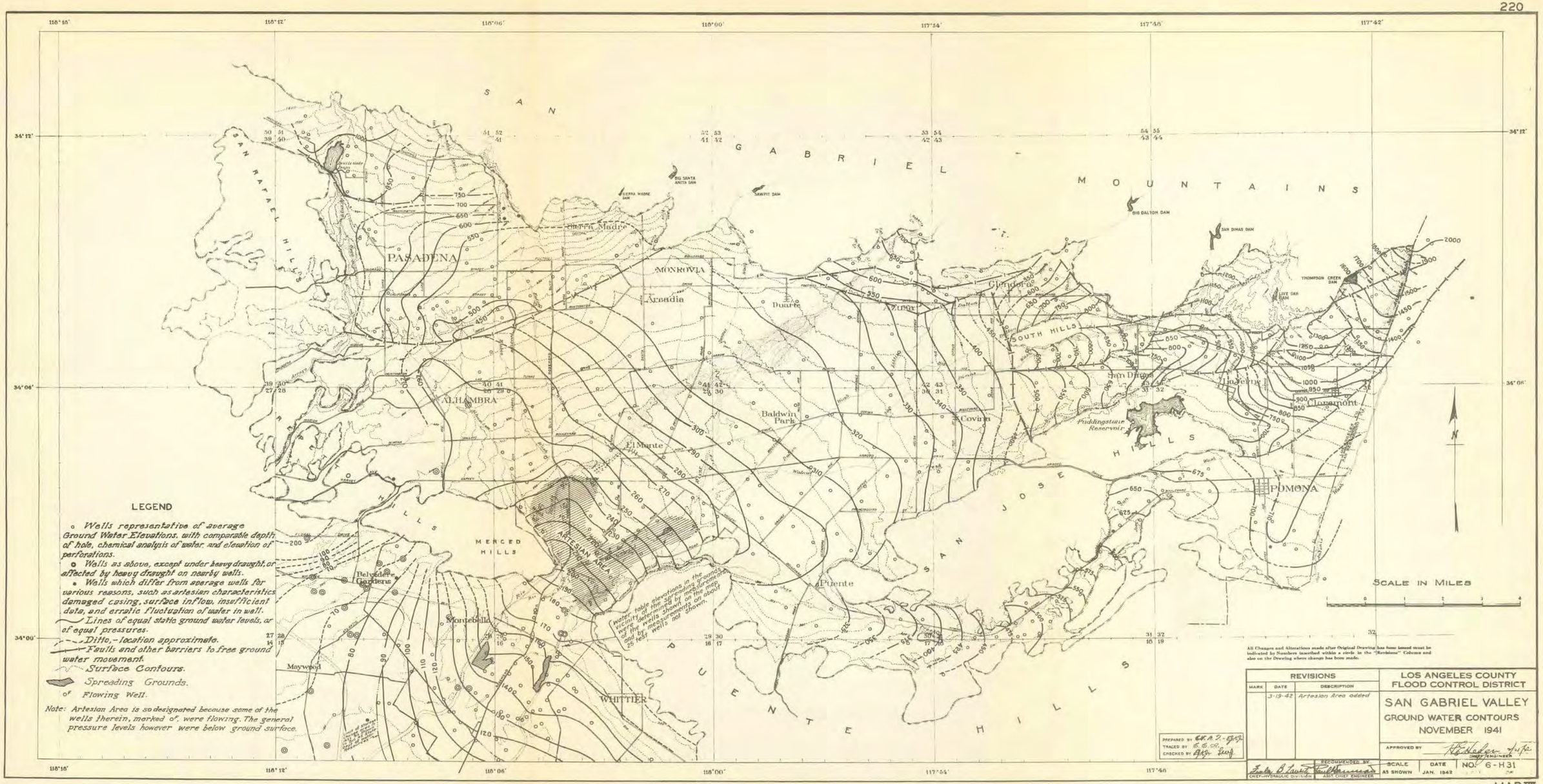
RECOMMENDED BY — CHIEF HYDRAULIC DIVISION — ASST. CHIEF ENGINEER

SCALE	DATE	NO.
As Shown	JAN. 1942	19-H26 SHEET

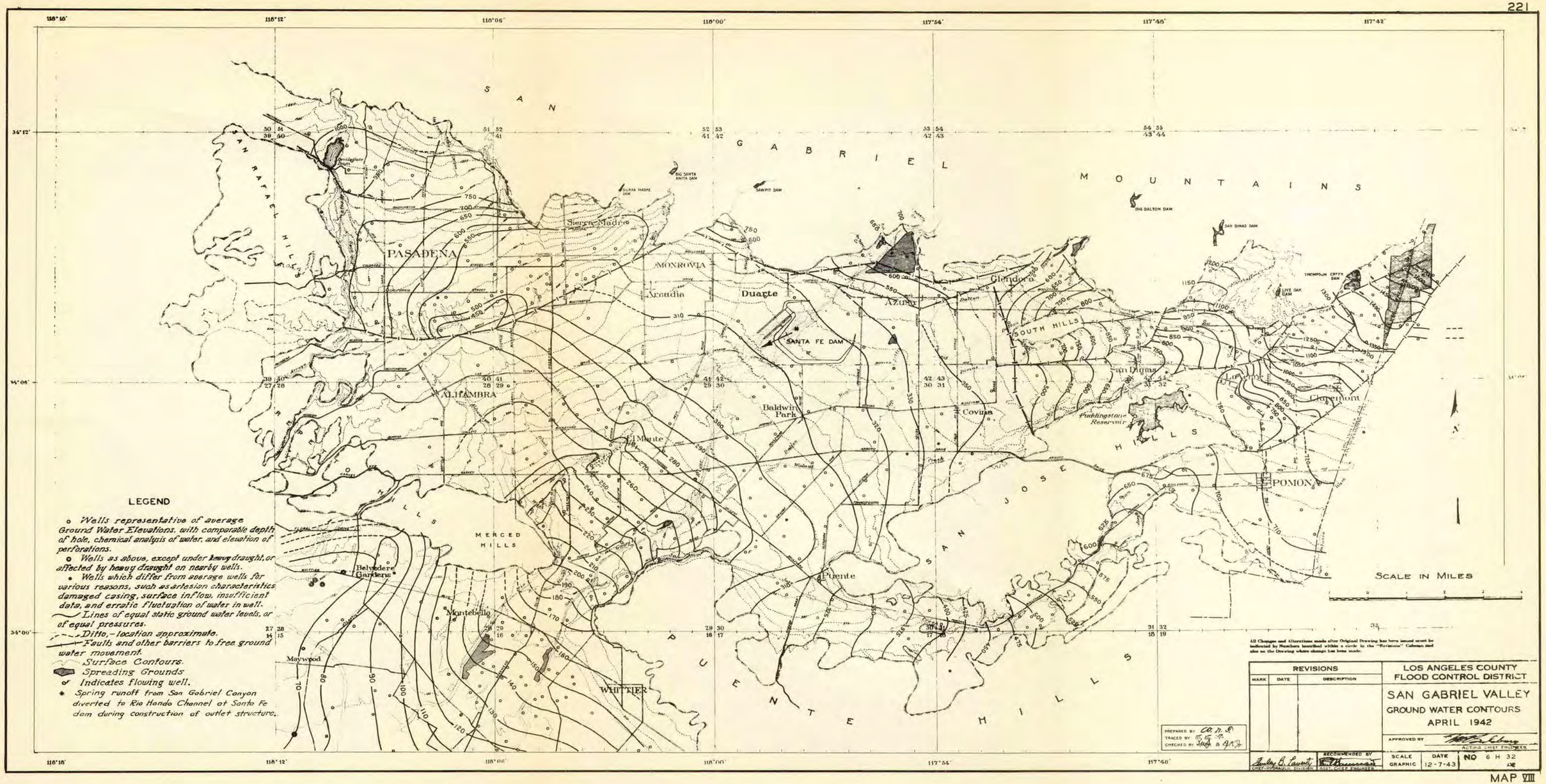
MAP V


SAN FERNANDO
Pacoima
HANSEN DAM
Sunland
Tujunga
Chatsworth
Zelzah
Roscoe
La Canada
Montrose
Canoga Park
Reseda
VAN NUYS
SEPULVEDA DAM
Burbank
North Hollywood
Encino
Girard
Calabasas
Studio City
Universal City
GLENDALE
Eagle Rock
34° 18'
34° 12'
34° 06'
118° 42'
118° 36'
118° 30'
118° 24'
118° 18'
118° 12'
LEGEND
Wells representative of average ground water elevations, with comparable depth of hole, chemical analysis of water, and elevation of perforations.
Wells as above, except under heavy draught or affected by heavy draught on nearby wells.
Wells which differ from average wells, for various reasons, such as artesian characteristics, damaged casing, surface inflow, insufficient data, and erratic fluctuations of water in well.
Wells of shallow depth, with perched water indications.
Wells of deep water strata, not related to those of average wells.
Lines of equal static ground water levels or of equal pressures
Ditto,— location approximate
Faults and other barriers to free ground water movement.
Surface Contours
Spreading Grounds.
Flowing Well
Scale in Miles
PREPARED BY
TRACED BY
CHECKED BY
REVISIONS
MARK
DATE
DESCRIPTION
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
SAN FERNANDO VALLEY
GROUND WATER CONTOURS
APRIL 1942
APPROVED BY
ACTING CHIEF ENGINEER
RECOMMENDED BY
CHIEF HYDRAULIC ENGINEER
ASST. CHIEF ENGINEER
SCALE
GRAPHIC
DATE
12-7-43
NO.
19 H 27
SHEET
OF

MAP VI


SAN GABRIEL MOUNTAINS
SAN RAFAEL HILLS
PASADENA
MONROVIA
Arcadia
Duarte
Azusa
Glendora
SOUTH HILLS
San Dimas
Claremont
POMONA
ALHAMBRA
El Monte
Baldwin Park
Covina
Puddingstone Reservoir
MERCED HILLS
ARTESIAN AREA
Belvedere Gardens
Montebello
Maywood
WHITTIER
Puente
SAN JOSE HILLS
PUENTE HILLS
Sierra Madre
BIG SANTA ANITA DAM
SAWPIT DAM
SIERRA MADRE DAM
BIG DALTON DAM
SAN DIMAS DAM
THOMPSON CREEK DAM
LIVE OAK DAM
Water table elevations in the vicinity of the Spreading Grounds and the Artesian Area are based on measurements on about 25 test wells not shown.
SCALE IN MILES
LEGEND
Wells representative of average Ground Water Elevations, with comparable depth of hole, chemical analysis of water and elevation of perforations.
Wells as above, except under heavy draught, or affected by heavy draught on nearby wells.
Wells which differ from average wells for various reasons, such as artesian characteristics, damaged casing, surface inflow, insufficient data, and erratic fluctuation of water in well.
Lines of equal static ground water levels, or of equal pressures.
Ditto,-location approximate.
Faults and other barriers to free ground water movement.
Surface Contours.
Spreading Grounds.
Flowing Well.
Note: Artesian Area is so designated because some of the wells therein, marked of, were flowing. The general pressure levels however were below ground surface.
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
3-19-42 | Artesian Area added
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
SAN GABRIEL VALLEY
GROUND WATER CONTOURS
NOVEMBER 1941
APPROVED BY
CHIEF ENGINEER
PREPARED BY
TRACED BY
CHECKED BY
RECOMMENDED BY
CHIEF HYDRAULIC DIVISION
ASST. CHIEF ENGINEER
SCALE AS SHOWN
DATE JAN. 1942
NO. 6-H31

MAP VII


SAN GABRIEL MOUNTAINS
SAN RAFAEL HILLS
PASADENA
ALHAMBRA
MONROVIA
Arcadia
Duarte
Sierra Madre
Azusa
Glendora
SOUTH HILLS
San Dimas
Covina
Baldwin Park
El Monte
Puddingstone Reservoir
Claremont
POMONA
SAN JOSE HILLS
PUENTE HILLS
MERCED HILLS
Belvedere Gardens
Montebello
Maywood
WHITTIER
Puente
SANTA FE DAM
BIG SANTA ANITA DAM
SAWPIT DAM
BIG DALTON DAM
SAN DIMAS DAM
LIVE OAK DAM
THOMPSON CRK'S DAM
SCALE IN MILES
LEGEND
Wells representative of average Ground Water Elevations, with comparable depth of hole, chemical analysis of water, and elevation of perforations.
Wells as above, except under heavy draught, or affected by heavy draught on nearby wells.
Wells which differ from average wells for various reasons, such as artesian characteristics, damaged casing, surface inflow, insufficient data, and erratic fluctuation of water in well.
Lines of equal static ground water levels, or of equal pressures.
Ditto,-location approximate.
Faults and other barriers to free ground water movement.
Surface Contours.
Spreading Grounds
Indicates flowing well.
Spring runoff from San Gabriel Canyon diverted to Rio Hondo Channel at Santa Fe dam during construction of outlet structure.
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
PREPARED BY
TRACED BY
CHECKED BY
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
SAN GABRIEL VALLEY
GROUND WATER CONTOURS
APRIL 1942
APPROVED BY
ACTING CHIEF ENGINEER
CHIEF HYDRAULIC DIVISION
RECOMMENDED BY
ASST. CHIEF ENGINEER
SCALE
GRAPHIC
DATE
12-7-43
NO 6 H 32

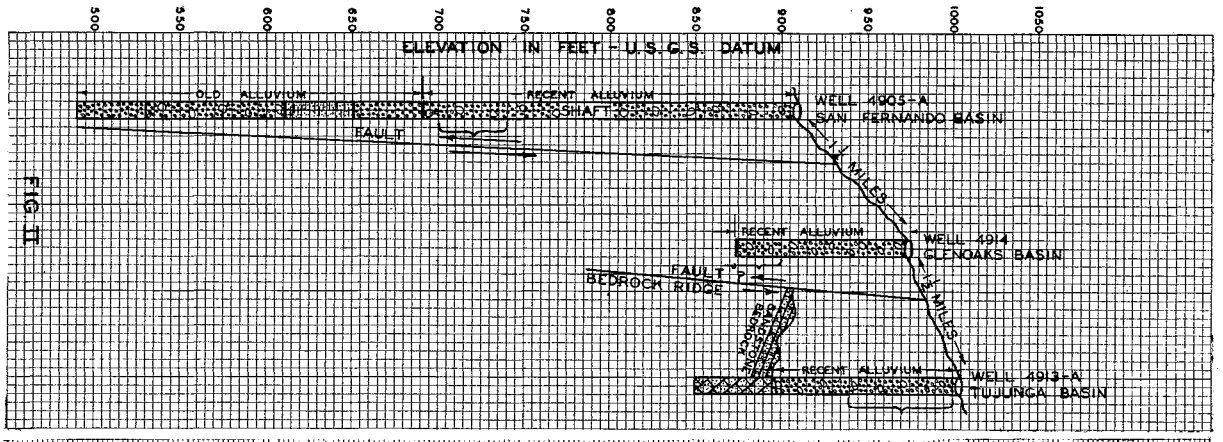
MAP VIII

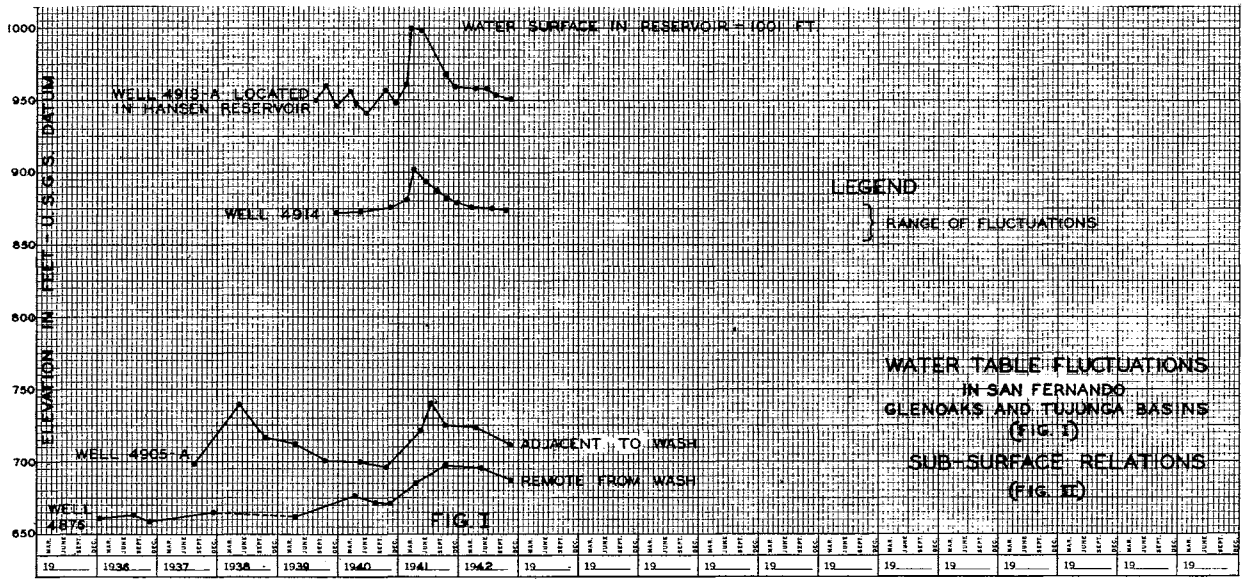
SANTA MONICA MOUNTAINS
LOS ANGELES
Limit of storage change area in 1933 as shown in Bul. 42 State Dept. of Water Resources.
Water table elevations in the vicinity of the spreading grounds were determined by measurements of the wells shown on the map and by measurements on about 25 test wells not shown.
BALDWIN HILLS
PUENTE HILLS
DOMINGUEZ HILLS
SAN PEDRO HILLS
SIGNAL HILL
ARTESIAN AREA
ORANGE COUNTY
SAN PEDRO BAY
LONG BEACH
SANTA MONICA
Beverly Hills
Rowfelle
Palms
Culver City
Venice
INGLEWOOD
Hawthorne
El Segundo
Manhattan Beach
Hermosa Beach
Redondo Beach
Torrance
Harbor City
Wilmington
SAN PEDRO
Gardena
COMPTON
Athens
WATTS
Lynwood
Vernon
Maywood
HUNTINGTON PARK
Southgate
Belvedere Gardens
Montebello
Downey
Norwalk
Clearwater
Hynes
Bellflower
Virginia City
Artesia
El Monte
WHITTIER
Santa Fe Springs
ALHAMBRA
SCALE IN MILES
LEGEND
Wells representative of average Ground Water Elevations with comparable depth of hole, chemical analysis of water, and elevation of perforations.
Wells as above, except under heavy draught or affected by heavy draught on nearby wells.
Wells which differ from average wells for various reasons, such as artesian characteristics, damaged casing, surface inflow, insufficient data, and erratic fluctuations of water in well.
Wells of shallow depth with perched water indications.
Wells of deep water strata, not related to those of average wells.
Lines of equal static ground water levels, or of equal pressures. *
Ditto,- location approximate. *
Faults and other barriers to free ground water movement.
* In area N.E. of barriers,-
north of line thus contours show equal static ground water levels
south of line thus contours show equal ground water pressures.
In area S.W. of barriers, all contours show static ground water levels.
Surface Contours.
Spreading Grounds.
Flowing Well.
Note: Artesian Area is so designated because some of the wells therein, marked o, were flowing. The general pressure levels however were below ground surface.
All Changes and Alterations made after Original Drawing has been issued must be indicated by Numbers in-scribed within a circle in the "Revisions" Column and also on the Drawing where change has been made.
REVISIONS
MARK DATE DESCRIPTION
3-11-42 ARTESIAN AREA ADDED
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
COASTAL PLAIN
GROUND WATER CONTOURS
NOVEMBER 1941
APPROVED BY
CHIEF ENGINEER
RECOMMENDED BY
CHIEF HYDRAULIC DIVISION
ASST. CHIEF ENGINEER
SCALE AS SHOWN
DATE JANUARY 1942
NO. 2-H 54
SHEET OF
PREPARED BY
TRACED BY
CHECKED BY

MAP IX

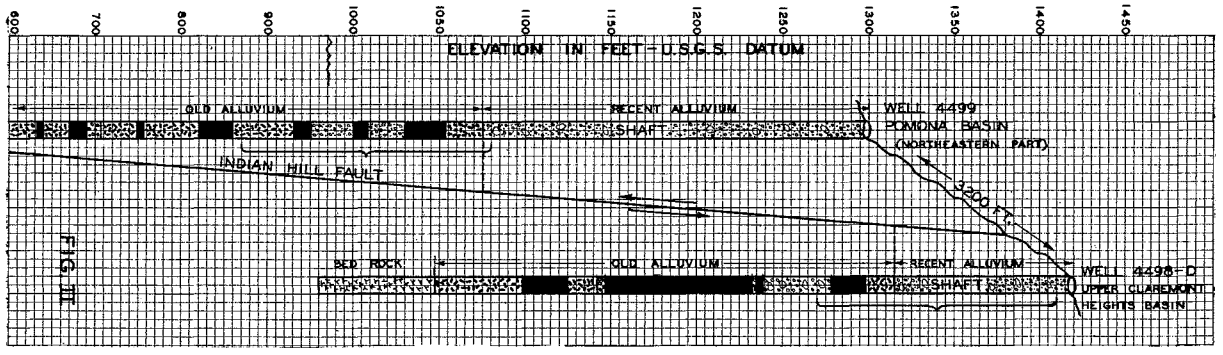
SANTA MONICA MOUNTAINS
LOS ANGELES
BALDWIN HILLS
PUENTE HILLS
DOMINGUEZ HILLS
SIGNAL HILL
SAN PEDRO HILLS
SAN PEDRO BAY
ORANGE COUNTY
LONG BEACH
Beverly Hills
Culver City
Palms
SANTA MONICA
Venice
Vernon
Belvedere Gardens
Montebello
El Monte
Maywood
HUNTINGTON PARK
WHITTIER
INGLEWOOD
South Gate
WATTS
Downey
Santa Fe Springs
El Segundo
Hawthorne
Athens
Lynwood
Norwalk
Clearwater
COMPTON
Hynes
Bellflower
Manhattan Beach
Gardena
Hermosa Beach
Artesia
Virginia City
Redondo Beach
Torrance
Harbor City
Wilmington
SAN PEDRO
Line of storage change area in 1923 as shown in Bul. 45 State Dept. of Water Resources.
34°08'
34°00'
33°54'
33°46'
118°00'
118°36'
118°24'
118°18'
118°12'
118°06'
SCALE IN MILES
0 1 2 3 4 5
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
Indicates 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" Column and also on the Drawing where change has been made.
REVISIONS
MARK DATE DESCRIPTION
PREPARED BY
TRACED BY
CHECKED BY
RECOMMENDED BY
CHIEF HYDRAULIC DIVISION
ASST. CHIEF ENGINEER
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
COASTAL PLAIN
GROUND WATER CONTOURS
APRIL 1942
APPROVED BY
ACTING CHIEF ENGINEER
SCALE GRAPHIC
DATE 12-7-43
NO. 2 H 63
SHEET OF

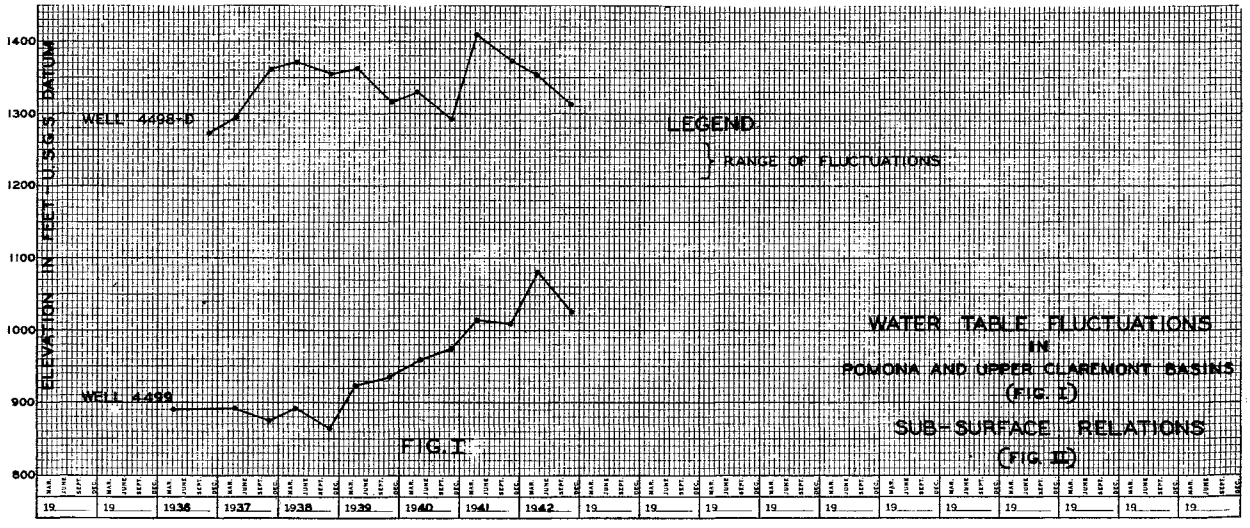
MAP I


ELEVATION IN FEET - U.S.G.S. DATUM
500
550
600
650
700
750
800
850
900
950
1000
1050
OLD ALLUVIUM
RECENT ALLUVIUM
SHAFT
WELL 4905-A
SAN FERNANDO BASIN
FAULT
14 MILES
RECENT ALLUVIUM
WELL 4914
GLENOAKS BASIN
FAULT
BEDROCK RIDGE
14 MILES
RECENT ALLUVIUM
WELL 4913-A
TUJUNGA BASIN
FIG II


WATER SURFACE IN RESERVOIR = 1001 FT.
WELL 4913-A LOCATED IN HANSEN RESERVOIR
WELL 4914
LEGEND
RANGE OF FLUCTUATIONS
WELL 4905-A
ADJACENT TO WASH
REMOTE FROM WASH
WELL 4876
ELEVATION IN FEET - U.S.G.S. DATUM
1000
950
900
850
800
750
700
650
FIG. I
WATER TABLE FLUCTUATIONS
IN SAN FERNANDO
GLENOAKS AND TUJUNGA BASINS
(FIG. I)
SUB-SURFACE RELATIONS
(FIG. II)
1936
1937
1938
1939
1940
1941
1942

I


ELEVATION IN FEET - U.S.G.S. DATUM
600
700
800
900
1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
OLD ALLUVIUM
RECENT ALLUVIUM
SHAFT
WELL 4499
POMONA BASIN
(NORTHEASTERN PART)
INDIAN HILL FAULT
2300 FT.
BED ROCK
OLD ALLUVIUM
RECENT ALLUVIUM
SHAFT
WELL 4498-D
UPPER CLAREMONT HEIGHTS BASIN
FIG II


WELL 4498-D
LEGEND
RANGE OF FLUCTUATIONS
WELL 4499
ELEVATION IN FEET - U.S.G.S. DATUM
1400
1300
1200
1100
1000
900
800
FIG. I
WATER TABLE FLUCTUATIONS
IN
POMONA AND UPPER CLAREMONT BASINS
(FIG. I)
SUB-SURFACE RELATIONS
(FIG. II)
1936
1937
1938
1939
1940
1941
1942

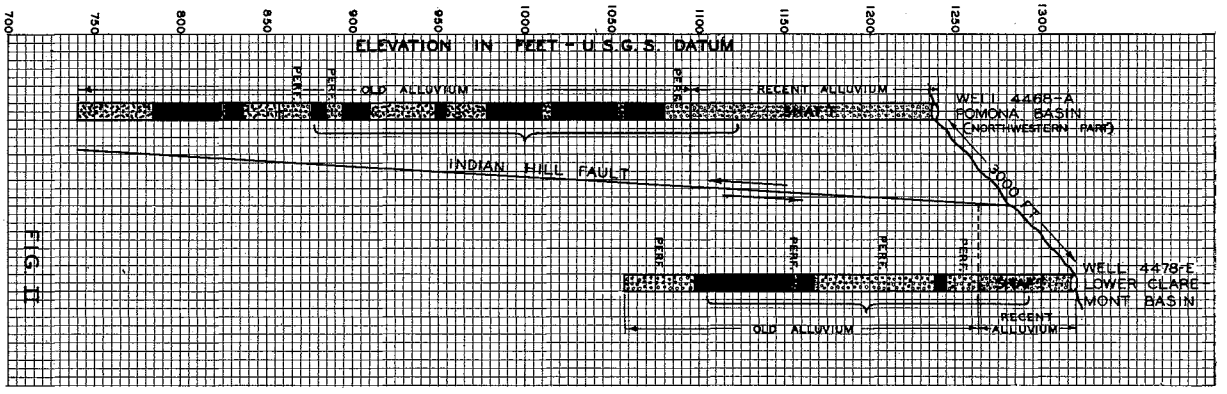
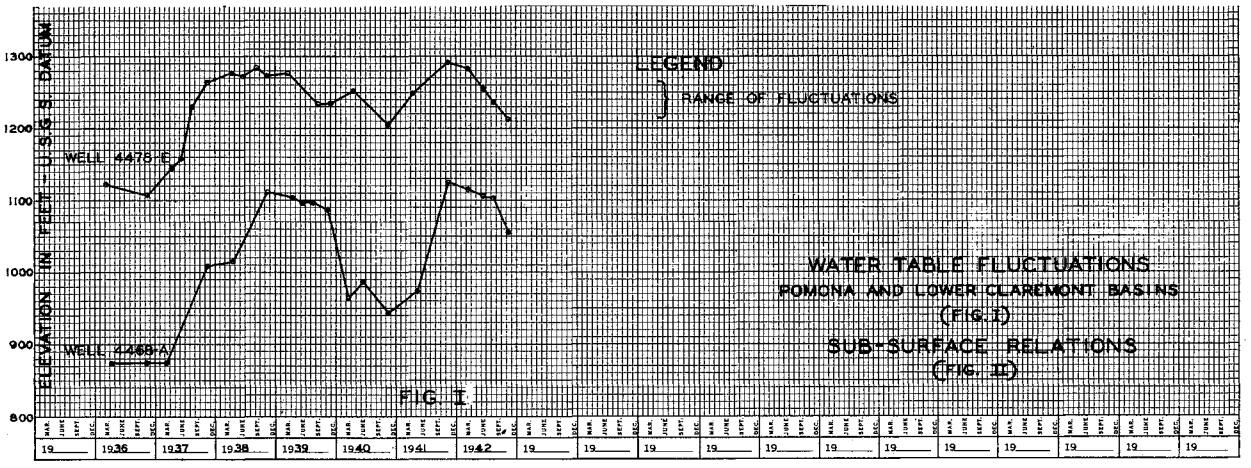


FIG. II



III

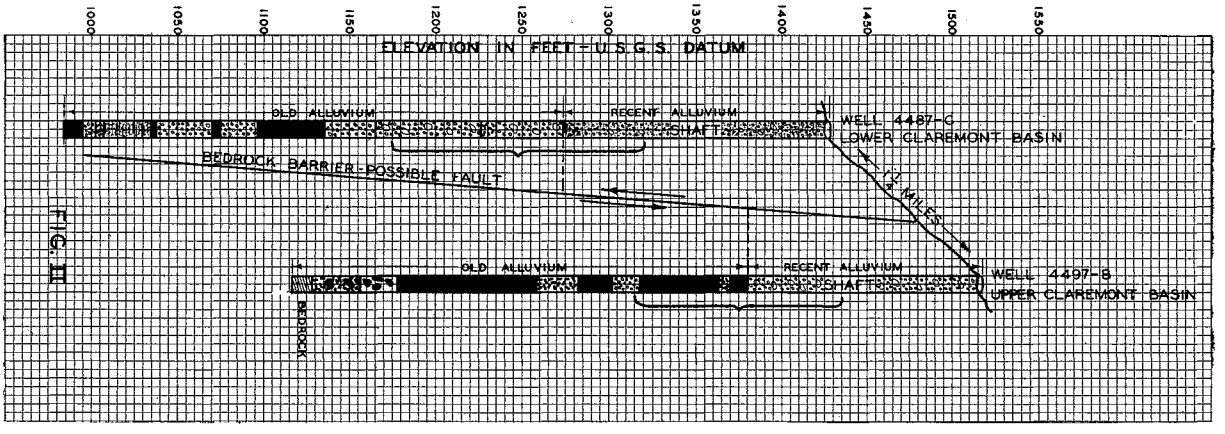
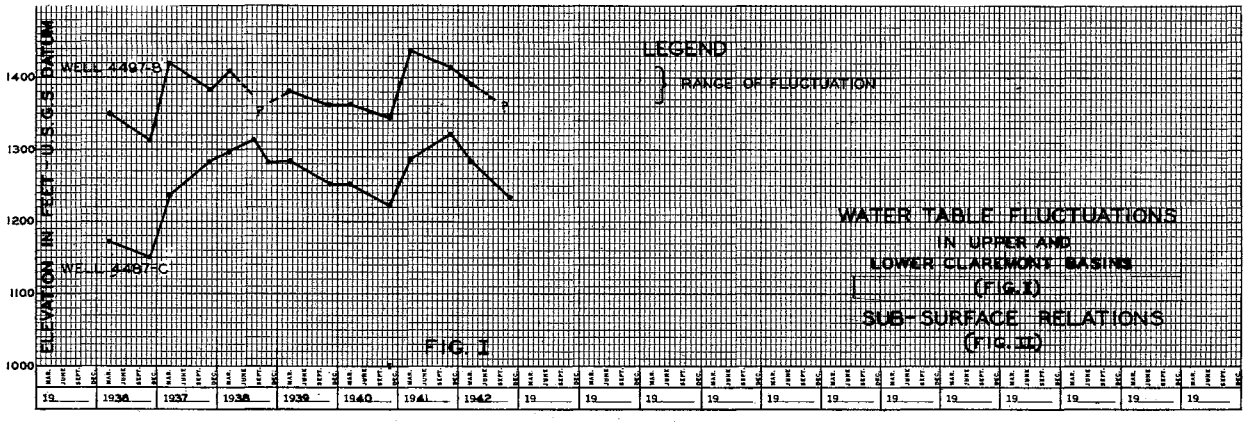
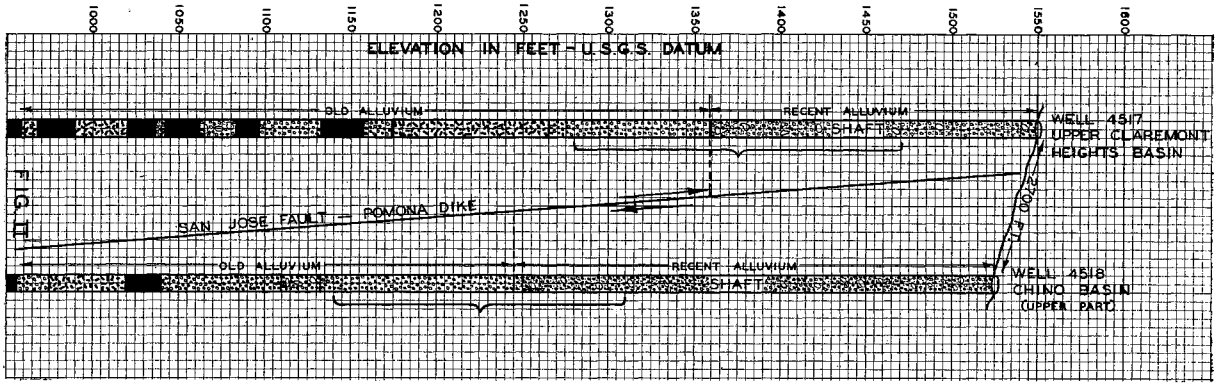
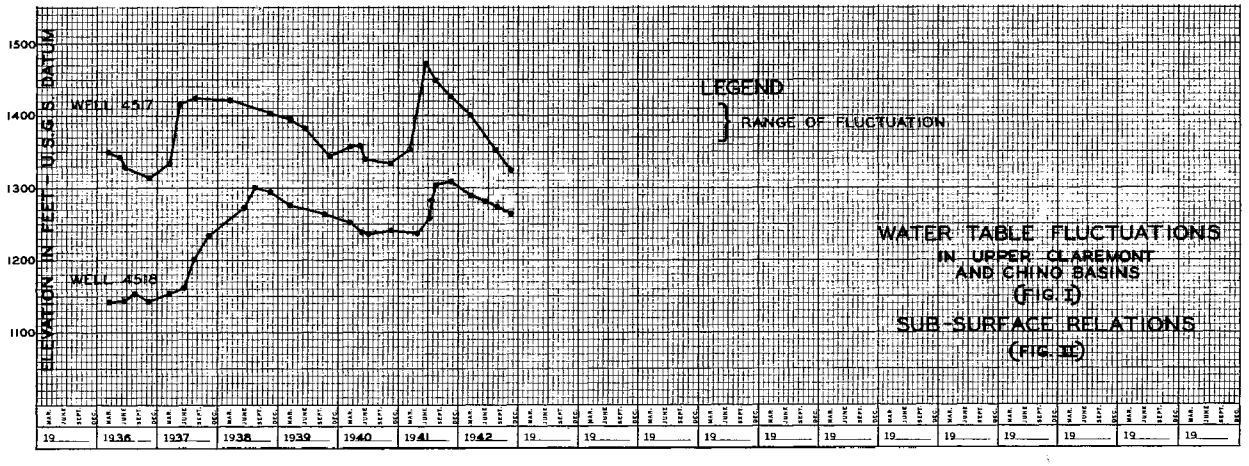


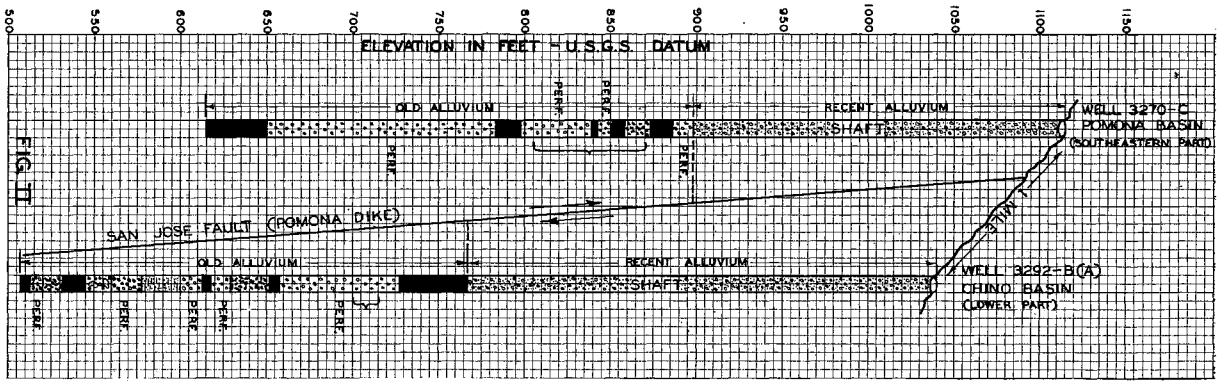
FIG. III

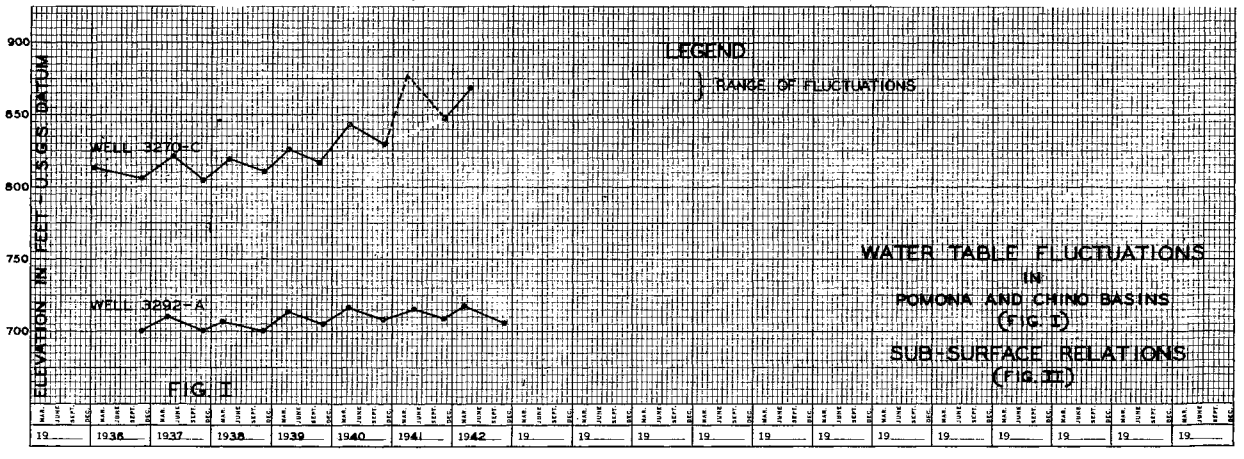



ELEVATION IN FEET - U.S.G.S. DATUM
1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500
1550
1600
OLD ALLUVIUM
RECENT ALLUVIUM
SHAFT
WELL 4517
UPPER CLAREMONT HEIGHTS BASIN
2700 FT.
SAN JOSE FAULT — POMONA DIKE
OLD ALLUVIUM
RECENT ALLUVIUM
SHAFT
WELL 4518
CHINO BASIN
(UPPER PART)
FIG. II

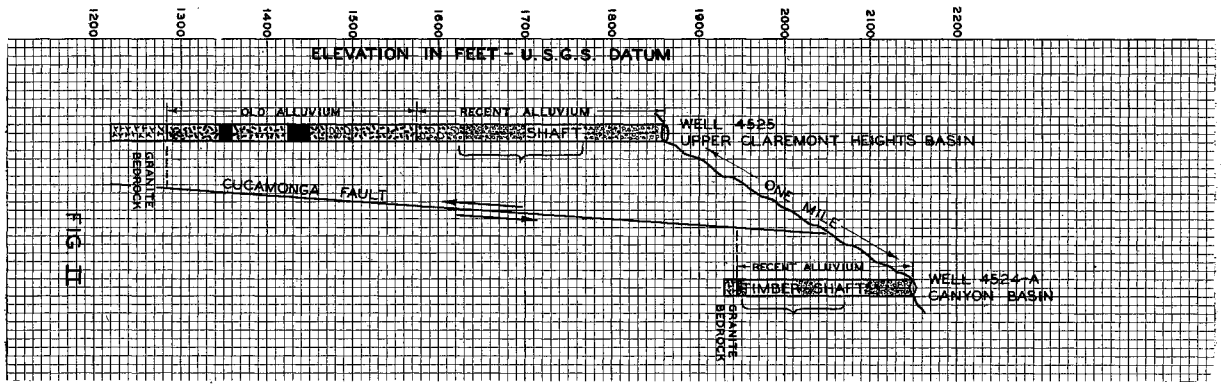

ELEVATION IN FEET - U.S.G.S. DATUM
1500
1400
1300
1200
1100
WELL 4517
WELL 4518
LEGEND
RANGE OF FLUCTUATION
WATER TABLE FLUCTUATIONS
IN UPPER CLAREMONT AND CHINO BASINS
(FIG. I)
SUB-SURFACE RELATIONS
(FIG. II)
1936
1937
1938
1939
1940
1941
1942

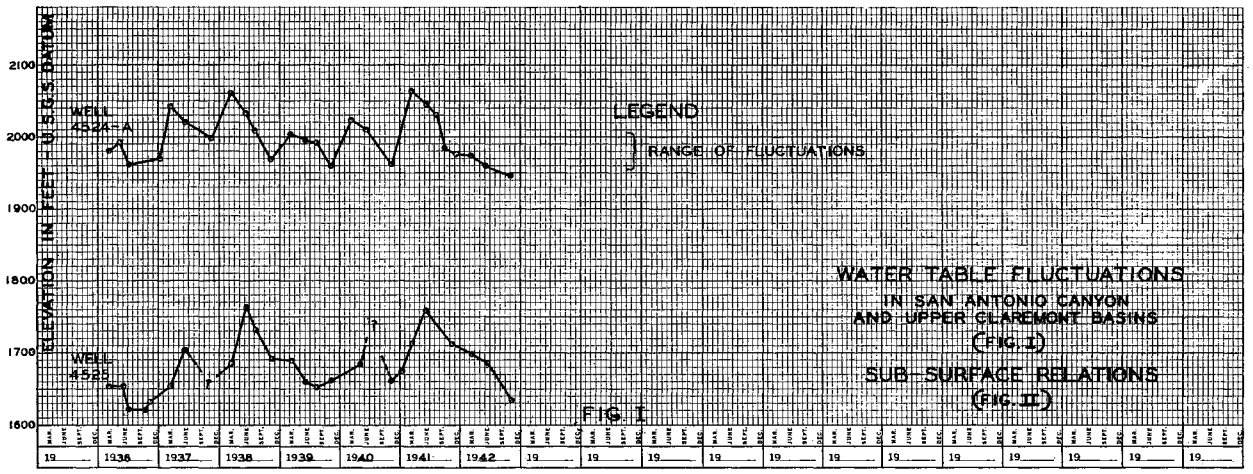
V


ELEVATION IN FEET - U.S.G.S. DATUM
500
550
600
650
700
750
800
850
900
950
1000
1050
1100
1150
OLD ALLUVIUM
PERF.
RECENT ALLUVIUM
SHAFT
WELL 3270-C
POMONA BASIN
(SOUTHEASTERN PART)
SAN JOSE FAULT (POMONA DIKE)
OLD ALLUVIUM
RECENT ALLUVIUM
SHAFT
WELL 3292-B(A)
CHINO BASIN
(LOWER PART)
FIG. I

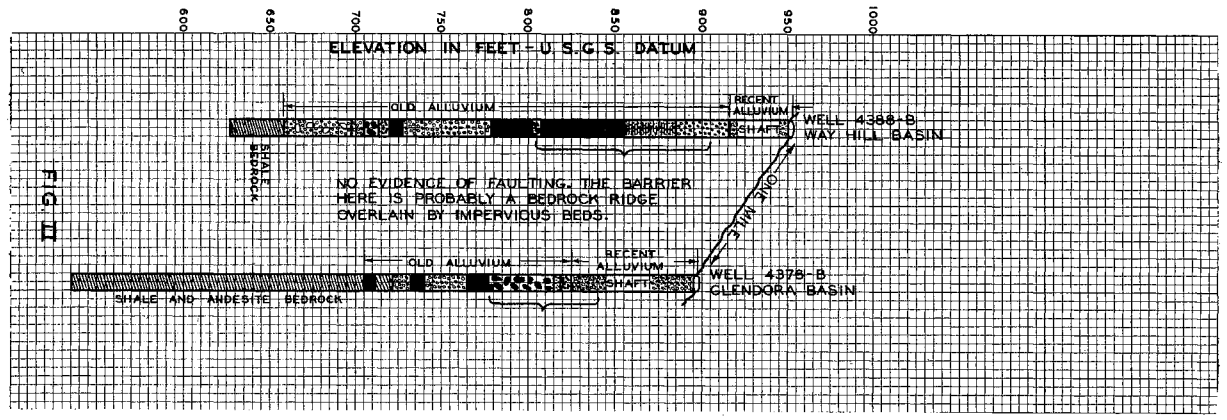

ELEVATION IN FEET - U.S.G.S. DATUM
900
850
800
750
700
WELL 3270-C
WELL 3292-A
LEGEND
RANGE OF FLUCTUATIONS
WATER TABLE FLUCTUATIONS
IN
POMONA AND CHINO BASINS
(FIG. I)
SUB-SURFACE RELATIONS
(FIG. II)
FIG. II
1936
1937
1938
1939
1940
1941
1942

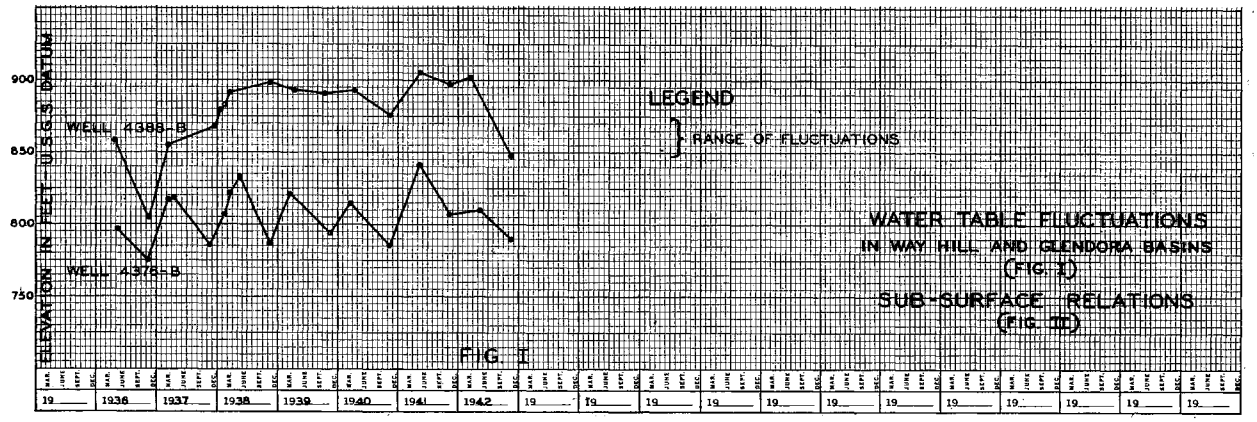
VI


1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
ELEVATION IN FEET - U.S.G.S. DATUM
OLD ALLUVIUM
RECENT ALLUVIUM
SHAFT
WELL 4525
UPPER CLAREMONT HEIGHTS BASIN
GRANITE BEDROCK
CUCAMONGA FAULT
ONE MILE
RECENT ALLUVIUM
TIMBER SHAFT
WELL 4524-A
CANYON BASIN
GRANITE BEDROCK
FIG. II

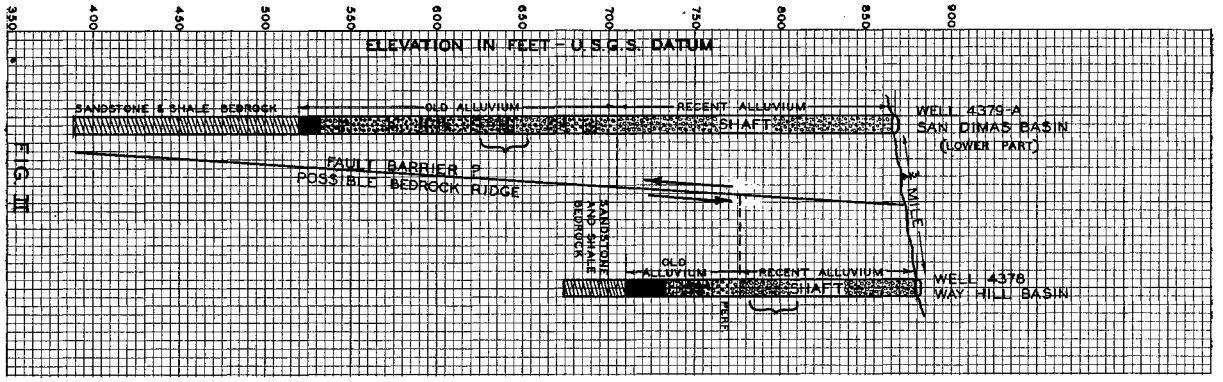

ELEVATION IN FEET - U.S.G.S. DATUM
2100
2000
1900
1800
1700
1600
WELL 4524-A
WELL 4525
LEGEND
RANGE OF FLUCTUATIONS
WATER TABLE FLUCTUATIONS
IN SAN ANTONIO CANYON
AND UPPER CLAREMONT BASINS
(FIG. I)
SUB-SURFACE RELATIONS
(FIG. II)
FIG. I
MAR. JUNE SEPT. DEC.
19 1936 1937 1938 1939 1940 1941 1942 19 19 19 19 19 19 19 19 19 19 19 19

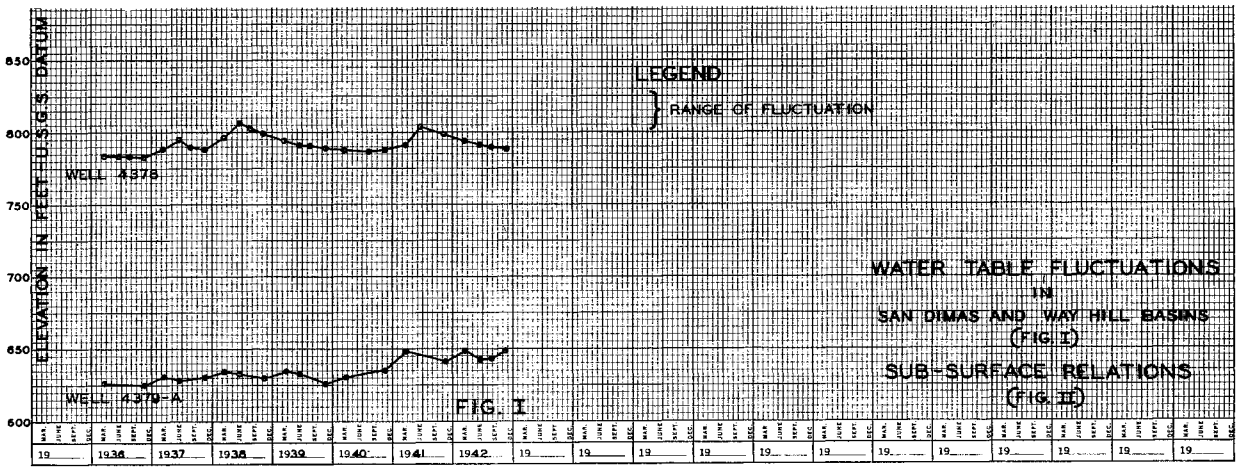
VII


600
650
700
750
800
850
900
950
1000
ELEVATION IN FEET - U.S.G.S. DATUM
OLD ALLUVIUM
RECENT ALLUVIUM
SHAFT
WELL 4388-B
WAY HILL BASIN
SHALE BEDROCK
NO EVIDENCE OF FAULTING. THE BARRIER
HERE IS PROBABLY A BEDROCK RIDGE
OVERLAIN BY IMPERVIOUS BEDS.
ONE MILE
OLD ALLUVIUM
RECENT ALLUVIUM
SHAFT
WELL 4378-B
GLENDORA BASIN
SHALE AND ANDESITE BEDROCK
FIG. II

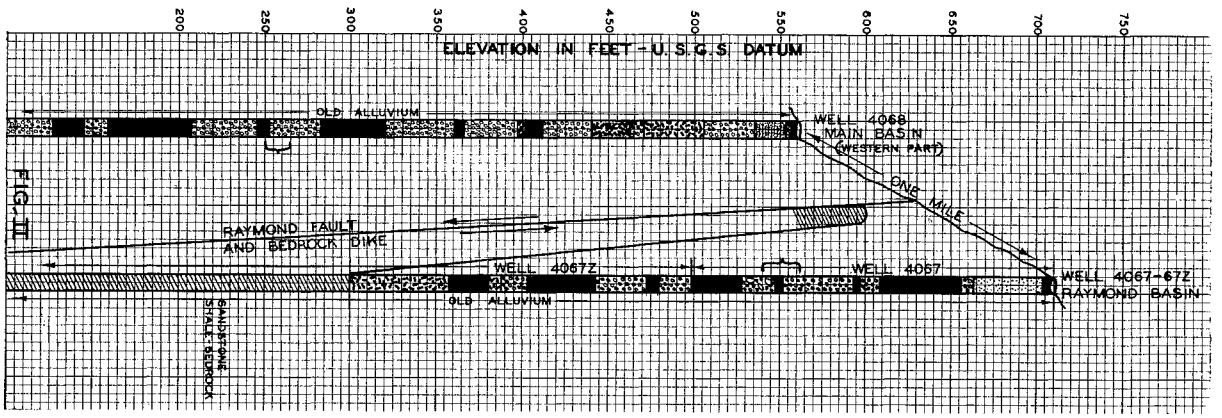

ELEVATION IN FEET - U.S.G.S. DATUM
900
850
800
750
WELL 4388-B
WELL 4378-B
LEGEND
RANGE OF FLUCTUATIONS
WATER TABLE FLUCTUATIONS
IN WAY HILL AND GLENDORA BASINS
(FIG. I)
SUB-SURFACE RELATIONS
(FIG. II)
FIG. I
MAR. JUNE SEPT. DEC.
19 1936 1937 1938 1939 1940 1941 1942 19 19 19 19 19 19 19 19 19 19 19 19

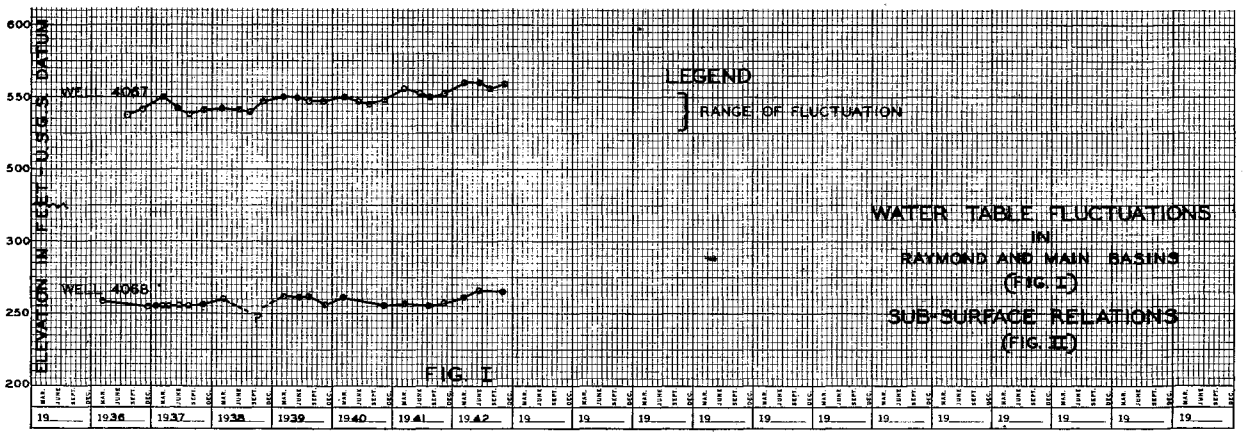
VIII


ELEVATION IN FEET - U.S.G.S. DATUM
SANDSTONE & SHALE BEDROCK
OLD ALLUVIUM
RECENT ALLUVIUM
SHAFT
WELL 4379-A
SAN DIMAS BASIN
(LOWER PART)
FAULT BARRIER P
POSSIBLE BEDROCK RIDGE
SANDSTONE AND SHALE BEDROCK
OLD ALLUVIUM
RECENT ALLUVIUM
SHAFT
WELL 4378
WAY HILL BASIN
PERK
FIG. III

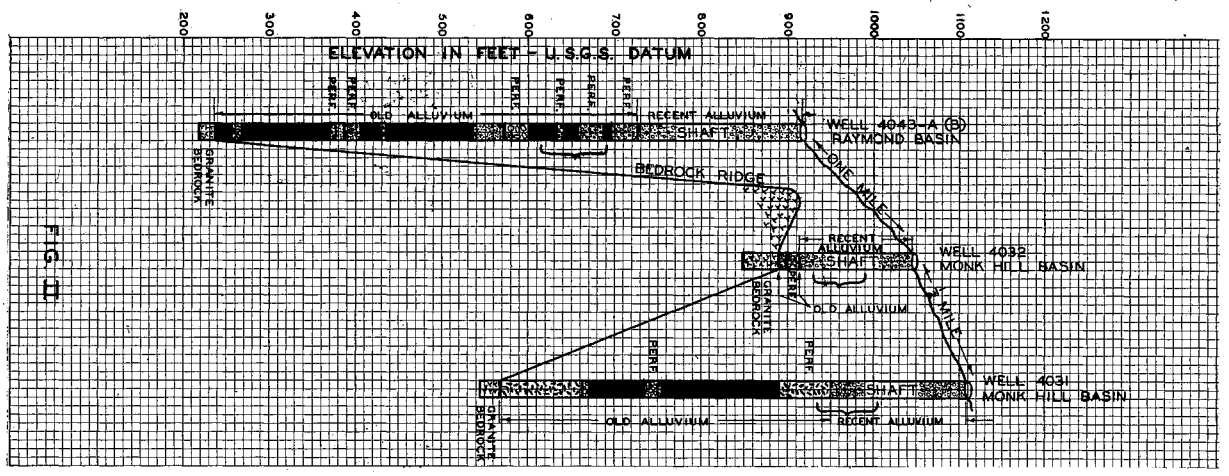

ELEVATION IN FEET - U.S.G.S. DATUM
LEGEND
RANGE OF FLUCTUATION
WELL 4378
WELL 4379-A
WATER TABLE FLUCTUATIONS
IN
SAN DIMAS AND WAY HILL BASINS
(FIG. I)
SUB-SURFACE RELATIONS
(FIG. II)
FIG. I

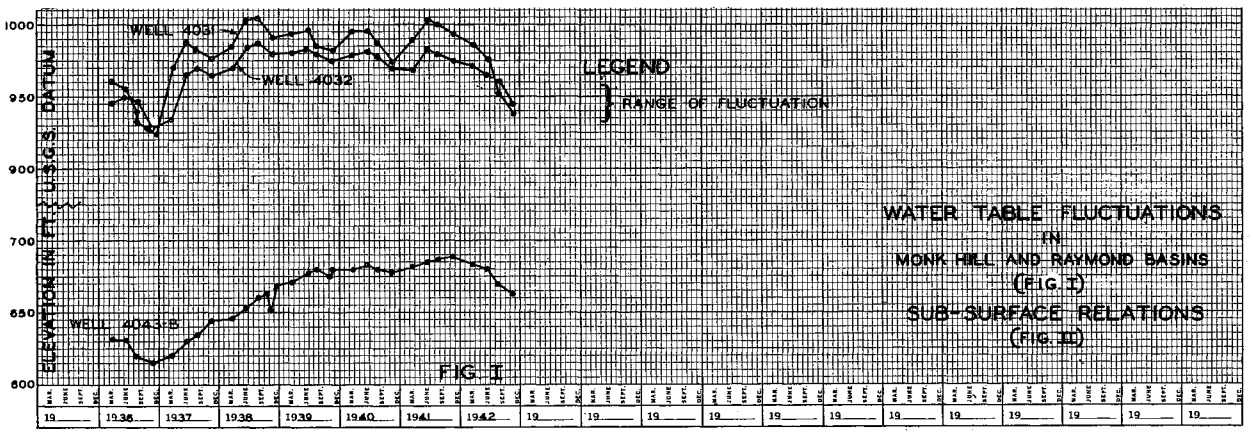
IX


ELEVATION IN FEET - U.S.G.S. DATUM
OLD ALLUVIUM
WELL 4068
MAIN BASIN
(WESTERN PART)
ONE MILE
RAYMOND FAULT
AND BEDROCK DIKE
WELL 4067Z
WELL 4067
WELL 4067-67Z
RAYMOND BASIN
OLD ALLUVIUM
SANDSTONE
SHALE BEDROCK
FIG. II

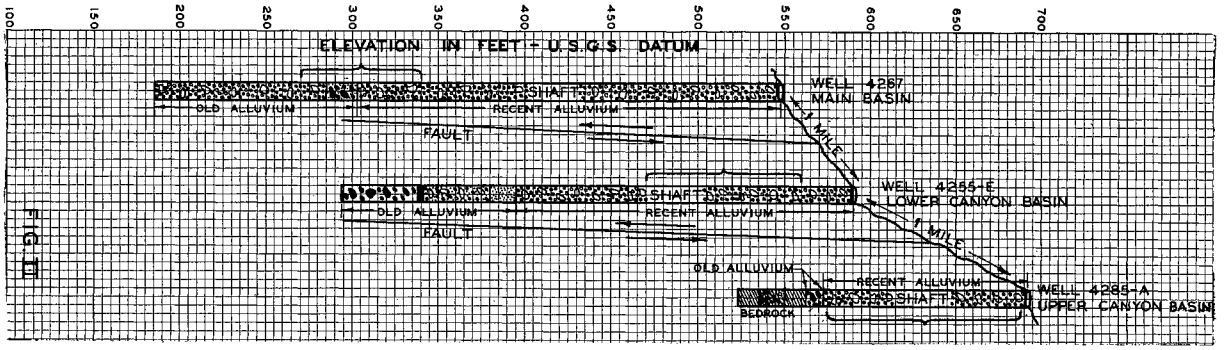

ELEVATION IN FEET - U.S.G.S. DATUM
WELL 4067
WELL 4068
LEGEND
RANGE OF FLUCTUATION
WATER TABLE FLUCTUATIONS
IN
RAYMOND AND MAIN BASINS
(FIG. I)
SUB-SURFACE RELATIONS
(FIG. II)
FIG. I

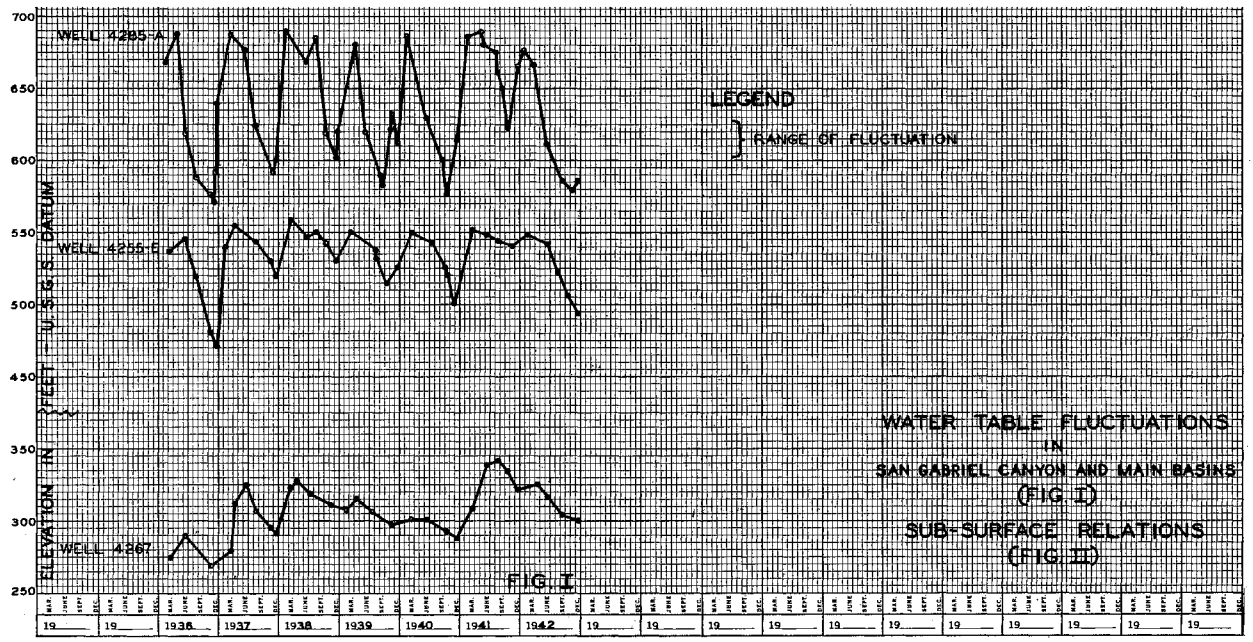
X


ELEVATION IN FEET - U.S.G.S. DATUM
200
300
400
500
600
700
800
900
1000
1100
1200
PERF.
OLD ALLUVIUM
RECENT ALLUVIUM
SHAFT
WELL 4043-A (B)
RAYMOND BASIN
GRANITE BEDROCK
BEDROCK RIDGE
ONE MILE
WELL 4032
MONK HILL BASIN
WELL 4031
MONK HILL BASIN
FIG. II

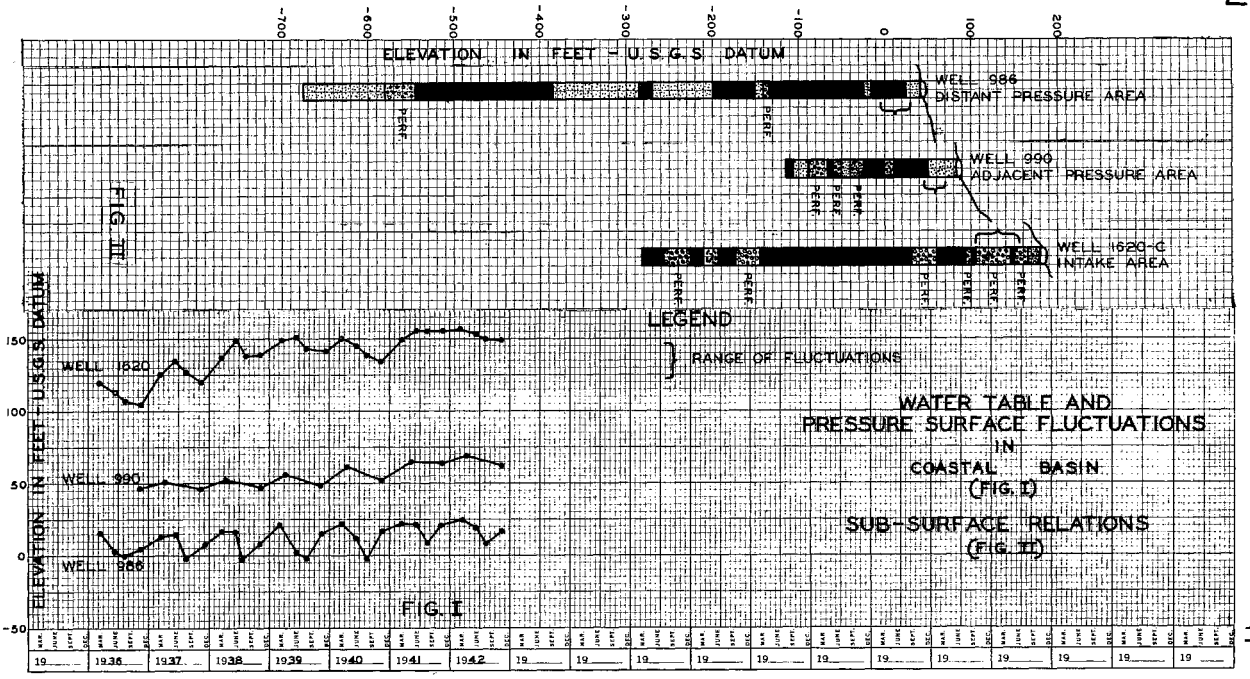

ELEVATION IN FEET - U.S.G.S. DATUM
1000
950
900
700
650
600
WELL 4031
WELL 4032
WELL 4043-B
LEGEND
RANGE OF FLUCTUATION
WATER TABLE FLUCTUATIONS
IN
MONK HILL AND RAYMOND BASINS
(FIG. I)
SUB-SURFACE RELATIONS
(FIG. II)
FIG. I
1936
1937
1938
1939
1940
1941
1942

XI

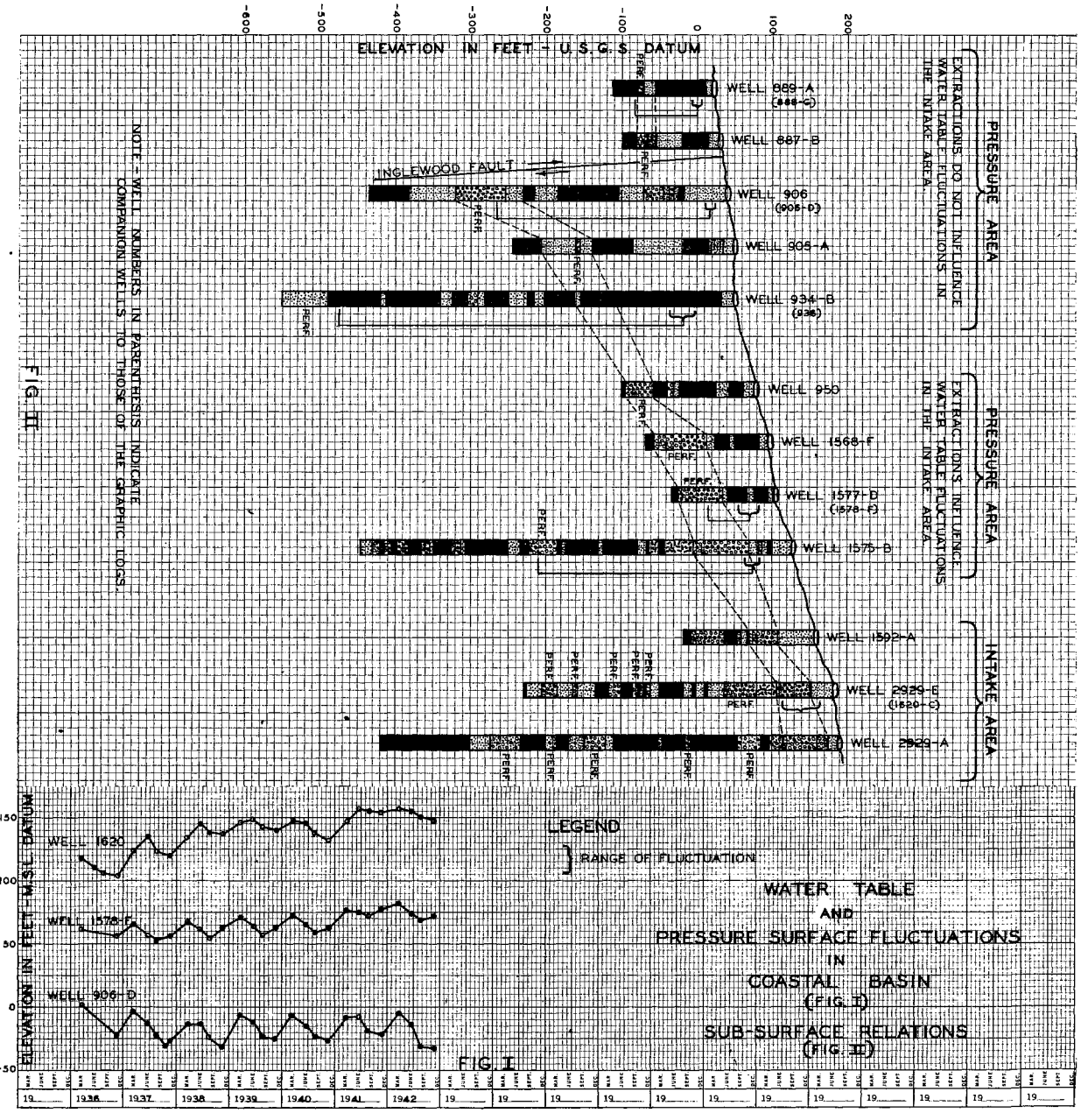

ELEVATION IN FEET - U.S.G.S. DATUM
100
150
200
250
300
350
400
450
500
550
600
650
700
WELL 4267
MAIN BASIN
OLD ALLUVIUM
RECENT ALLUVIUM
FAULT
SHAFT
ONE MILE
WELL 4255-E
LOWER CANYON BASIN
WELL 4285-A
UPPER CANYON BASIN
BEDROCK
FIG. II


ELEVATION IN FEET - U.S.G.S. DATUM
700
650
600
550
500
450
350
300
250
WELL 4285-A
WELL 4255-E
WELL 4267
LEGEND
RANGE OF FLUCTUATION
WATER TABLE FLUCTUATIONS
IN
SAN GABRIEL CANYON AND MAIN BASINS
(FIG. I)
SUB-SURFACE RELATIONS
(FIG. II)
FIG. I
1936
1937
1938
1939
1940
1941
1942

XII


ELEVATION IN FEET - U.S.G.S. DATUM
WELL 986
DISTANT PRESSURE AREA
WELL 990
ADJACENT PRESSURE AREA
WELL 1620-G
INTAKE AREA
PERF.
FIG. II
LEGEND
RANGE OF FLUCTUATIONS
WATER TABLE AND
PRESSURE SURFACE FLUCTUATIONS
IN
COASTAL BASIN
(FIG. I)
SUB-SURFACE RELATIONS
(FIG. II)
ELEVATION IN FEET - U.S.G.S. DATUM
WELL 1620
WELL 990
WELL 986
FIG. I
1936
1937
1938
1939
1940
1941
1942

XIII


ELEVATION IN FEET - U.S.G.S. DATUM
WELL 889-A
(888-C)
WELL 887-B
INGLEWOOD FAULT
WELL 906
(905-D)
WELL 905-A
WELL 934-B
(936)
PRESSURE AREA
EXTRACTIONS DO NOT INFLUENCE WATER TABLE FLUCTUATIONS IN THE INTAKE AREA
WELL 950
WELL 1568-F
WELL 1577-D
(1578-F)
WELL 1575-B
PRESSURE AREA
EXTRACTIONS INFLUENCE WATER TABLE FLUCTUATIONS IN THE INTAKE AREA
WELL 1592-A
WELL 2929-E
(1620-C)
WELL 2929-A
INTAKE AREA
NOTE - WELL NUMBERS IN PARENTHESIS INDICATE COMPANION WELLS TO THOSE OF THE GRAPHIC LOGS.
FIG. II
LEGEND
RANGE OF FLUCTUATION
WATER TABLE
AND
PRESSURE SURFACE FLUCTUATIONS
IN
COASTAL BASIN
(FIG. I)
SUB-SURFACE RELATIONS
(FIG. II)
ELEVATION IN FEET - M.S.L. DATUM
WELL 1620
WELL 1578-F
WELL 906-D
FIG. I
1936
1937
1938
1939
1940
1941
1942

XIV