Los Angeles County Flood Control District

HYDRAULIC DIVISION

REPORT TO M. E. SALSBURY, ACTING CHIEF ENGINEER

ANNUAL REPORT

ON

HYDROLOGIC DATA

SEASON 1940-41

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

October 1, 1942

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
LOS ANGELES, CALIFORNIA

H. E. HEDGER
CHIEF ENGINEER

751 S. FIGUEROA ST.
ROOM 410

October 1, 1942

FILE NO. 2-20
SUBJECT Annual Report on Hydrologic Data Season of 1940-41.

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

All Districts.

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 1940-41. This report is the eleventh of a series of annual or biennial reports which have been published covering fourteen 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

October 1, 1942

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

Dear Sir:

Transmitted herewith is the "Annual Report on Hydrologic Data" for the season 1940-41. 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

The precipitation records include the monthly records of 406 stations of which 402 furnished complete seasonal records. Of these stations, 77% have a continuous record for over ten years with 10 stations having a continuous record for over fifty years.

Intensity records were obtained from 62 automatic gages. Comparative intensities with maxima of record are included in this report for nine representative stations.

The rainfall for the season 1940-41 was over 200% of normal for the entire County. Records extending back 69 years show that 1940-41 seasonal rainfall was in general exceeded only in 1883-84, although in some localities the 1889-90 seasonal rainfall was heavier than that of 1940-41. The following indices show the distribution of rainfall throughout the County:

		% Normal
1.	San Gabriel Mt. Area	181
2.	Valley and Coastal Plain	214
3.	Santa Monica Mts.	231
4.	Desert Area - North of San Gabriel Mts.	200

Snowfall for five mountain locations is also summarized herein.

Monthly evaporation records for 23 stations are included in the report and comparative monthly values for stations for their respective periods of record. The total yearly evaporation recorded

at the various locations varied from over 6.4 feet at Encino Reservoir to less than 3.0 feet at Camp Singer (Opid's).

Runoff records include the data pertinent to the District's recording streamflow records, which include stream flow measurements, mean daily runoff and storm hydrographs.

The District operated 64 stations located on the main streams and tributaries. These records are similar to and supplement the records of the thirteen stations operated by the U.S.G.S. 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 seven stations from the local office of the U. S. Engineer Department.

Dam operation records included in this report show daily reservoir water surface, storage, inflow and outflow values for fourteen dams operated by the District. Maximum hourly inflow and outflow are also shown. These dams and two small debris dams control 410 square miles of mountain drainage with a total potential storage of over 92,000 acre feet.

The total combined inflow of 538,014 acre feet, was nearly equal to the combined inflow which occurred during the 1938 flood year.

Reference is also made to sluicing activities at various dams with results indicating the recovery of several hundred acre feet of valuable storage.

Conservation and Ground Water studies are of increasing interest, during recent years. These are being undertaken by the District with the cooperation of various interested individuals and agencies. Included in this report are ground water maps showing approximate high and low seasonal ground water conditions. These maps are compiled from measurements taken at approximately 1025 wells. The general trend indicates a depletion from the fall of 1939 to the fall of 1940. However, from the fall of 1940 to the spring of 1941 the recovery generally exceeded the depletion. Details of these changes are shown herein.

Total conservation of water effected during the season amounts to over 383,300 acre feet. Of this amount, about 113,180 acre feet was percolated in off channel spreading grounds while the remainder was percolated in natural and scarified channels. The most important spreading was as follows:

Spreading Grounds	Acre Feet
Pacoima	9760.
San Antonio	26630.
Rio Hondo Coastal Basin	9840.
San Gabriel Coastal Basin	4680.
San Gabriel River Water Committee	
Canyon Basin	45620.
Main Basin	13300.

A summarized table showing runoff wasted to the ocean is included in the report. This shows a total waste for 1940-41 of 532,200 acre feet.

Development of additional off-stream spreading areas will reduce this waste.

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

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Hydraulic Division

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PRECIPITATION RECORDS

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Hydraulic Division

REPORT ON PRECIPITATION

Season 1940-41

Foreword:

This report presents a ready reference in summarized form of the season's data which are available in the District's office.

It is the policy of the District to obtain rainfall records which give a representative coverage of Los Angeles County. This is being accomplished principally by a study of the areas where further data are required, and subsequently securing cooperative observers in these areas and equipping them.

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

Value of Precipitation Data:

I. Length of Record.

The value of precipitation data would be difficult to measure in dollars. It is the basis of hydrologic study and design and increases in worth with the length of record. With this in mind the District is continually striving to obtain and continue long time records.

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&over
Continuous records	161	96	46	10*
Broken records	16	8		
Total	177	104	46	10*

* In some cases the station was moved a short distance or another station in the immediate locality may have been substituted to give a continuous long time record.

II. Distribution of Gages.

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

Following a program started in the late 20's 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, 1941 406

The District has a good distribution of gages in the valley and foothill areas where more cooperative observers are available and is gradually obtaining a better coverage in the mountain area. The development of a remote control intensity gage and the construction of new roads in the mountains offer possibilities of a more representative coverage.

An annual inspection trip is made in the fall of each year at which time the location and condition of each gage is checked. At the same time helpful suggestions and instructions are given to observers to assist in obtaining more accurate and complete records. This trip also serves to investigate the locations for new stations and the securing of 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 mountain area these gages also furnish valuable data for dam operation.

The District maintained 52 automatic rain gages during the 1940-41 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. Operation of District Dams.
2. Estimates of flood flows for design purposes.
3. Water conservation studies.

The District is continually furnishing 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 data are also furnished to the District by the above and other agencies, greatly augmenting the data received and compiled during the season.

Source and Number of Records:

Table No. 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 1940-41	Total
(a)	Los Angeles County Flood Control District	Std.	8"		194	
		Std.	8"	*	37	
		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 Control Tipping Bucket			1	
		Can & Glass Graduates			11	
		Glass Graduate Special Henson Head			3	297
(b)	Los Angeles Water Department	Std.	8"		17	
		Std.	8"	*	2	
		Automatic-Lietz Type	10"	Cap.	1	20
(c)	United States Weather Bureau	Std.	8"		10	
		Std.	8"		7	
		Automatic-Tipping Bucket			1	18
(d)	City of Beverly Hills					
		Automatic-Fergusson Type	9"	Cap.	1	1
(e)	So. Calif. Edison Co.	Std.	8"		5	5
(f)	U.S. Forest Service	Std.	8"		4	
		Std.	8"	*	1	
		Automatic-Friez Tipping Bucket			2	7
(g)	L.A. City Storm Drain Division	Std.	8"	*	1	
		Automatic-Rational			2	
		Automatic Green Tipping Bucket			1	4
(h)	L.A. County Survey Dept. Storm Drain Div.					
		Automatic-Fergusson-Type	12"	Cap.	3	3
(i)	L.A. County Rec. Dept.	Std.	8"		3	
		Std.	8"	*	1	4
(j)	Pomona Valley Protective Association	Std.	8"		3	3
(k)	Pasadena Water Dept.	Std.	8"		8	
		Std.	8"	*	1	
		Automatic-Friez Tipping Bucket			1	10

TABLE I. Rain Gage Ownership and Type (Concluded)

			Number of Gages 1940-41	Total
(1)	Miscellaneous - Individuals, Companies, Cities, Towns, etc.	Std. 8"	58	
		Std. 8" *	6	
		Std. Type 6"	1	
		Std. Type 5"	3	
		Std. Type 4"	1	
		Std Type 3"	19	
		Dial Type	2	90
		Total		462
		Std. 8" **		- 56
Total gages from which the District receives records regularly.				406

* Represents a standard gage accompanying the automatic gage at the same location.

** Represents number of automatic gages deducted from total number of gages to agree with the number of records published.

The District owns 63% of all the gages from which daily records are received each month. The remainder are privately owned as shown on the preceding page, and are cooperative with the District. Each observer is supplied with all the necessary supplies such as forms, envelopes, etc., and records are sent in each month.

TABLE II. Complete Seasonal Reports.

Type	Season - 1940-41
F.C. Standard Gage with F.C. Auto. Gage	37
F.C. Standard Gage only	194
F.C. Automatic Gage only	1
F.C. Automatic with Private Standard Gage	12
F.C. Can and Glass Graduate	11
F.C. Glass Graduate and Special 8.81" Head.	3
Private Cooperative Standard Gage	130
Private Automatic Gage	6
Private Automatic and Private Standard Gage	6
Private Dail Gage	2
Total	402

The above table shows the number of stations which furnished complete records or records which could be completed by estimates from adjacent stations for not more than 10 percent of total seasonal amount. Thus out of the 406 stations reporting during the season, 98 percent furnished complete records.

The following table presents a complete list of the automatic raingages which were active during the season 1940-41, with the length of active record included.

TABLE III

ACTIVE AUTOMATIC RAIN GAGES

SEASON 1940-41

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
49	Altadena-Chiesa	1345	Rational-Float	4" (Private)	Arroyo Seco	2-4-39 to date
52B	Switzer Camp	3000	Fergusson	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
65	Sierra Madre	1160	"	9"	Rio Hondo	12-9-27 to 6-24-41
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±	Fergusson	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

TABLE III

ACTIVE AUTOMATIC RAIN GAGES

(Continued)

F.C. No.	Name of Station	USGS Elev.	TYPE and Capacity		Watershed	Period of Record
213	Hancock Park	177	Ferguson	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 Gab. 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 Gab. W. Fk.	1-14-32 to date
338	Mt. Wilson	5650	"	12"	Various	3-9-32 to 3-24-41
338B	Mt. Wilson-Airways Sta.	5709	"	12"	Various	3-24-41 to date
348C	Honor Camp #4	2000	"	12"	San Gab. E. Fk.	5-11-38 to 6-4-40
348C	Honor Camp #4	2000	"	9"	San Gab. 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 Gab. 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. Cleason	5450	J.P.Friez-Cam	30"	Pacoima-Santa Clara	9-21-37 to 6-4-40

TABLE III

ACTIVE AUTOMATIC RAIN GAGES

(Continued)

F.C. No.	Name of Station	Elev. USGS	Type and Capacity		Watershed	Period of Record
419	Mt. Gleason	5450	Fergusson	12"	Pacoima-Santa Cl	1.6-4-40 to date
425	San Gabriel Dam #1	1470	"	12"	San Gabriel	10-12-37 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 Gab.W.Fork	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
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	" " "	(Private)	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 and Trinity	208	Fergusson	12"	Compton Creek	10-9-40 to date
700	Los Angeles-Slauson & Long Beach Boulevard	176	"	12"	Compton Creek	10-28-40 to date
X-4	Towsley Canyon-Fire Area	1700	Fergusson	9"	Santa Clara	10-1-40 to date

The District also has records of 38 automatic gages at stations which are now inactive. These records are available in our files.

The following table is a complete list of inactive automatic rain gages for which the district has records, with the period of record included.

TABLE IV

INACTIVE AUTOMATIC RAIN GAGES

F.C. No.	Name of Station	Elev. U.S.C.S.	Type and Capacity		Watershed	Period of Record
4	Crags Country Club	575	Fergusson	9"	Triunfo & Malibu Canyons	3-6-28 to 11-28-34
11A	Upper Franklin Reservoir	867	"	9"	Franklin Canyon	9-29-37 to 9-19-39
11B	Upper Franklin Reservoir	870	"	9"	Franklin Canyon	9-19-39 to 9-20-40
21	Brant Ranch - Girard	876	"	9"	L. A. River	1-4-29 to 11-13-36
29	Granada	1130	"	9"	L. A. River	12-10-27 to 8-17-37
34	Dillons Ranch	2050	"	9"	Pacoima	10-27-27 to 5-7-30
41	Alta Canada	1765	"	9"	Verdugo Creek	3-29-27 to 11-21-31
45	Wildwood Lodge	1800	"	9"	Big Tujunga	12-17-25 to 9-18-29
50A	Altadena-Arroyo Seco Ptrl.	1700	"	9"	Arroyo Seco	10-26-27 to 7-12-29
51	Little Cienega (Headlee)	4650	"	12"	San Gabriel	11-12-28 to 11-26-35
52A	Switzer's Camp	3000	"	9"	Arroyo Seco	1-18-26 to 2-27-28
56	Valley Forge Lodge	3450	"	9"	San Gabriel	2-13-27 to 5-18-32
60C	Winter Creek	2400	"	12"	Big Santa Anita	10-13-39 to 9-27-40
75B	Edison Intake	1275	"	9"	San Gabriel	12-11-25 to 11- 3-37
76B	San Gabriel Camp #1	1500	"	9"	San Gabriel	12-10-37 to 12-22-37
78	Cold Brook Camp	3300	"	9"	San Gabriel	12-12-25 to 10-13-28
79	Iron Fork	3150	"	9"	San Gabriel	12-18-25 to 5-22-29
80	Prairie Forks	5680	"	9"	San Gabriel	1-7-26 to 11-30-33
87	San Dimas Ranger Station	1500	"	9"	San Dimas	12-11-25 to 11-23-26
88	Wolfskill Falls	2400	"	9"	San Dimas	12-9-27 to 12-12-28
107	Downey	117	"	9"	San Gab.& Rio Hondo	1-1-29 to 1-11-33
112	Sycamore Canyon	667	"	9"	L. A. River	3-1-27 to 9-18-29
130	Sandbergh's	4200	"	9"	Piru Creek	8-29-30 to 10-23-34
132	Chevy Chase	1035	"	9"	L. A. River	2-7-28 to 3-31-30
137	Curson Canyon	992	Ferguson and Marvin		Ballona	2-27-28 to 3-28-34
139	Orchards Camp	3050	Fergusson	9"	Santa Anita	11-12-28 to 2-24-34
159	Orchards Camp	3050	"	9"	Santa Anita	2-24-34 to 3-19-38
227	San Gabriel-Gleason	465	"	9"	Rubio inc. and Alhambra Wash	1-5-30 to 5-26-31
233	Covina-Mathews	527	"	9"	Walnut Creek	1-11-30 to 10-24-30
251	La Cresenta	1565	"	9"	Verdugo Wash	11-21-33 to 11-28-33
262	Aliso and Brown Cn.	2150	"	9"	Devils & Llajas	12-29-30 to 2-20-31
276	Sharp's Flat	1000±	"	9"	San Gabriel	12-18-26 to 3-31-27

TABLE IV

INACTIVE AUTOMATIC RAIN GAGES

F.C. No.	Name of Station	Elev. USGS	Type and Capacity		Watershed	Period of Record
311	Pasadena-Sunset Reservoir	930	Stevens Spcl.		Arroyo Seco	1-22-31 to July-32
311	Pasadena-Sunset Reservoir	930	Fergusson	9"	Arroyo Seco	10-23-34 to 9-14-38
323	Pine Flat-Pas. Rec. Camp	5050	"	12"	Big Tujunga	9-18-31 to 11-24-31
347	Baldwin Park	387	Marvin		Walnut Cr.	6-1-32 to Spring 1934; inc.
348B	Honor Camp#4	2500	Fergusson	12"	San Gabriel	4-8-37 to 5-11-38
349	Camp Rincon	1500	"	9"	San Gabriel	12-12-25 to 2-25-26
359	Polytechnic High School	220	"	9"	Ballona Cr.	12-8-32 to 11-5-34
363	Wilson Canyon	2900+	"	9"	Wilson Cn.	1-21-33 to 10-23-34
365	Mt. Sister Elsie	5040	"	9"	Big Tujunga & Verdugo	1-13-33 to 10-29-36
508	Arroyo Seco Ranger Station	1500	"	9"	Arroyo Seco	10-23-34 to 10-27-37
X-1	Saddle Peak Fire Area	2300	"	9"	Topanga	11-13-36 to 9-29-37
X-2	Rossmoyne Fire Area	1450	"	9"	Verdugo Wash	12-22-37 to 5-24-38
X-3	Rustic Canyon Fire Area	900	"	9"	Rustic Canyon	12-1-38 to 9-12-40

SUMMARY OF SEASONAL PRECIPITATION:

I. Storms

The 1940-41 seasonal rainfall was of record breaking proportions in many parts of the County. It was exceeded at the Los Angeles United States Weather Bureau Station, which has the longest period of record in the County, and at Glendora by only two season's rainfall, 1883-84 and 1889-90. The 1940-41 seasonal rainfall at Newhall and Pasadena exceeded all other season's of record. The following table shows five representative stations with long time records and compares 1940-41 season with previous record wet years.

Station	1883-84	1889-90	1940-41	69 yr. Normal
Los Angeles, U.S.W.B.	38.18	34.42	32.79*	15.72
Newhall	42.11	39.08	47.55	18.25
Pasadena	45.13	40.53	46.10	20.37
Glendora	60.02	49.89	40.54	22.93
Pomona	39.86	30.00	37.23	18.90

* Gage located at New Federal Building during 1940-41 season, gage at former station at 6th and Main street showed a season total of 34.48 or the second wettest year of record.

The 1940-41 County average was 206% of normal and has only been exceeded during the 1883-84 season in the past 69 years. The 1883-84 seasonal index was 222 or 222% of the County 69 year normal.

There were 31 storms during the 1940-41 season. The storm of February 19th to 22nd was the heaviest, but in general produced smaller peaks than the storm of March 3rd, 4th and 5th.

The maximum short time intensity occurred at Station No. 6, Topanga Ranger Station, February 20th, producing 1.15 inches in 25 minutes or at the rate of 2.65 inches per hour. This produced a runoff peak comparable to that of the March 2nd storm of 1938.

II. Comparison of Mountain and Valley Rainfall

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

The rainfall varied from 25.32 inches at Point Vicente Light House to 78.38 inches at Opid's Camp and 94.39 inches at Kelly's Camp in the Mountain area, and then decreased to 14.04 inches at Little Rock on the desert side.

The Santa Monica Mountain area shows the greatest and the San Gabriel Mountains the smallest departure from normal.

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:

	Elev.	Yrs of Record	69 yr. Normal Inches	1940 1941 Inches	% of Normal
Long Beach	80	47	13.31	27.76	208%
Los Angeles (USWB)	417	69	15.72	32.79	208%
Pasadena	865	69	20.37	46.10	216%
Winter Creek	2400	16	44.09	69.91	158%
Mouth of San Antonio Cn.	2500	37	27.18	48.58	179%
Colby's Ranch	2950	44	31.02	55.61	179%
Opid's Camp	4350	24	42.39	78.38	163%
Mount Wilson	5650	37	36.66	66.80	182%

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.

Area	No. of Sta. Used	Ave. 69yr Normal Inches	1940-41 Season Ave. Amt. Inches	% of 69 yr Normal
San Gabriel Mts.	18	29.74	54.88	181%
Valley and Coastal Plain	24	17.65	37.83	214%
Santa Monica Mountains	14	19.72	45.52	231%
Desert Side - Area North of San Gabriel Mts.	10	12.87	25.78	200%

Number of Days Rainfall - .01 inch or more

Los Angeles (USWB) (Valley)	57 days 5 p.m. to 5 p.m.
Opid's Camp (Mountains)	67 days 5 p.m. to 5 p.m.

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).

No.	Station	Minimum Seasonal	Maximum Seasonal	Maximum Day	Date
299C	Little Rock	14.04			
57B-E	Opid's Camp		78.38		
683	Sunset Guard Sta.			8.53	2-20-41
308	Kelly's Kamp **		94.39	7.40*	2-20-41

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

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

Table VI presents monthly and seasonal rainfall amounts for stations from which the District received records during the season 1940-41.

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

III Summary of Snowfall:

Snowfall at five high mountain points is shown as follows:

Sta.No.	Location	Elev.	Season-1940-41 Amt. in Inches
82	Table Mountain	7500 ft.	146
83	Big Pines Rec. Camp	5860 ft.	149
283a	Crystal Lake - E. Pine	5740 ft.	67
308	Kelly's Kamp	8300 ft.	333
402C	Cedar Springs	6665 ft.	109

The snow pack at Mount San Antonio averaged 41% water content March 21st and 43% April 19th. Upper Ice House Canyon (near Kelly's Kamp) averaged 47% water content March 20th and and 45% April 18th.

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 98% 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 this report possible.

Responsibility:

Records of rainfall and evaporation stations were supervised by Mr. C. George Carlson to July 25th, 1941 and after that date by Mr. R. E. Lindsay who compiled this report. This work was done under the immediate supervision of Mr. Walter J. Wood, Assistant Chief-Hydraulic Division.

TABLE V

COMPARATIVE MAXIMUM RAINFALL INTENSITIES IN INCHES

		5min.	10min.	15min.	30min.	60min.	120min.	300min.	24hrs.	Storm Total Auto.	Storm Total Std.
Sta.No. 577											
Los Angeles (USWB)1940-41	Amt.	.21	.33	.39	.54	.82	1.02	2.18	3.27	4.67	4.67
	Date	2-21-41	3-28-41	3-28-41	3-28-41	3-28-41	3-28-41	2-28-41	2-28,3-1-41	(2-19,20,21,22-41)	
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	2-18-14	2-18-14	2-18-14	3-2-38	12-31-33 1-1-34	12-31-33 1-1-34	3-2,10 -84
Sta.No. 15											
Van Nuys Whse. 1940-41	Amt.	.26	.33	.40	.53	.99	1.17	1.90	3.65	4.31	4.26
	Date	3-12-41	3-12-41	3-12-41	3-12-41	12-17-40	12-16,17-40	12-16,17-40	12-16,17-40	(2-14,15,16,17-41)	
Max.of Record	Amt.	.33	.42		.74	.99	1.36		6.94	7.85	7.81
	Date	12-15-38	1-8-40		1-8-40	12-17-40	12-14-38		12-31-33 1-1-34	(12-30-33 1-1-34)	
Sta.No. 178											
Azusa-Griffith 1940-41	Amt.	.28	.38	.47	.67	.93	1.07	1.72	3.38	4.79	
	Date	3-29-41	3-29-41	3-29-41	3-29-41	3-29-41	3-29-41	12-23-40	2-19,20-40	2-19,20,21,22-40	
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. 425											
San Gab.Dam #1 1940-41	Amt.	.25	.40	.54	.75	1.02	1.30	2.18	5.28	6.71	6.90
	Date.	3-12-41	3-12-41	3-12-41	2-11-41	2-20-41	2-11-41	3-4-41	3-3,4-41	(2-19,20,21,22-41)	
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. 261-E											
Acton-Wellen 1940-41	Amt.	.15	.18	.22	.30	.44	.58	1.08	1.68	2.47	2.70
	Date	3-28,29-41	3-28,29-41	3-28,29-41	3-28,29-41	3-28,29-41	3-28,29-41	12-16,17-40	12-16,17-40	(2-19,20,21,22-41)	
Sta. No.57B-S											
Opid's Camp 1940-41	Amt.	.29	.47	.64	.82	1.22	1.77	2.70	7.47	13.29	13.37
	Date	2-19-41	2-19-41	2-19-41	2-19-41	2-20-41	4-4-41	2-20-41	2-19,2-20-41	(2-19,20,21,22-41)	
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	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											
Winter Creek 1940-41	Amt.	.16	.26	.36	.56	1.00	1.77	2.78	5.24	8.77	8.89
	Date	2-21-41	2-21-41	2-21-41	2-21-41	4-4-41	4-4-41	2-28-41	2-19,20-41	2-19,20,21,22-41	
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
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 Cn. 1940-41	Amt.	.45	.60	.86	1.16	1.60	2.62	3.06	5.94	6.22	6.52
	Date	3-3-41	2-20-41	2-20-41	2-20-41	2-20-41	2-20-41	2-19,20-41	2-19,20-41	(2-19,20,21,22-41)	
Max.of Record	Amt.	.45	.60		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	12-31-33		12-31-33	12-29-33 1-1-34	12-29-33 1-1-34
Sta.No. 92											
Pomona College 1940-41	Amt.	.20	.27	.29	.40	.67	.94	1.50	3.22	4.50	4.53
	Date	3-12-41	3-12-41	3-12-41	3-12-41	3-12-41	3-12-41	2-19-41	3-3,4-41	(3-12,13,14-41)	
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		1-1-34 12-31-33	12-31-33 1-1-34	2-10,18-27

TABLE VI

SEASON 1940-41 MONTHLY RAINFALL SUMMARY

RAINFALL RECORDS IN INCHES

Sta. No.	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Season Total
2	Escondido Patrol Sta	1.79	.15	9.71	7.67	10.85	8.98	5.41+	0	0	.02+	0+	0+	44.58
3	Seminole Hot Springs	1.61	T	9.98	5.75	14.08	10.70	5.49	0	0	T	0	0	47.61
4	Crags Country Club	1.30	.30	12.73	6.76	13.84	10.19	5.65	0	0	0	0	0	50.77
5B	Calabasas	1.14	.06	10.36	3.12	14.98	8.76	3.50	0	0	0	0	0	41.92
6	Topanga Ranger Sta.	1.62	.19	11.97	6.61	16.47	11.13	6.82	0	0	.03	0	0	54.84
7C	Bel Air Bay Club	1.51	.16	6.62	4.12	9.88	7.31	3.42	0	T	.01	0	0	33.13
8	Mandeville Canyon	1.80	.30	8.23	4.11	12.72	9.51	4.05	0	0	0	0	0	40.70
9	Sepulveda-Chase	1.05	.10	6.76	2.58	12.22	10.98	4.32	.38	0	T	T	0	38.39
10	Bel Air	1.41	.24	8.63	4.25	12.53	8.98	5.17	0	T	.01	0	0	41.22
11C	Upper Franklin Reservoir	1.55	.20	8.59	3.51	14.38	8.85	5.23	0	T	0	.03	0	42.32
12	Franklin-Mulholland Patrol #1	1.50	.26	9.57	4.00	15.06	9.10	5.04	.62	0	0	0	0	45.15
13	No. Hollywood Blix	1.39	.34	8.63	2.63	11.09	10.14	4.92	.68	0	T	.06	0	39.88
14	Roscoe-Merrill	1.24	.28	6.89	1.65	10.53	10.24	4.41	.72	0	.01	.02	0	35.99
15	Van Nuys Warehouse	1.07	.25	8.68	2.49	11.25	11.41	4.18	.42	0	T	.02	0	39.77
16C	Sherman Oaks	1.20+	.37	9.49	3.61	16.79	11.70	4.78+	0+	0+	T+	T+	0+	47.94
17	Sepulveda-Mulholland Patrol #2	1.29	.35	10.74	4.18	14.72	10.81	5.89	0	0	T	0	0	47.98
18	Adohr Dairy	1.09	.13	10.05	2.65	16.37	8.38	4.02	0	0	T	0	0	42.69
19	Topanga-Summit	1.28	.18	10.11	4.33	15.24	9.22	4.76	0	0	.01	0	0	44.93
20B	Girard Reservoir	1.14	.18	10.35	3.03	15.09	10.25	4.12	0	0	0	T	0	44.16
21	Brant Ranch-Girard	.99	.13	9.00	2.75	11.81	8.04	3.55	0	0	0	.02	0	36.29
22	Bell Canyon-Johnson Ranch	1.07	.07	8.51	3.38	12.54	8.59	3.28	0	0	0	0	0	37.44
23E	Chatsworth Reservoir	1.04	.08	7.95	4.04	10.88	8.89	3.44	.30	0	0	.03	0	36.65
24C	Chatsworth	1.33	.07	8.18	3.77	13.31	8.11	3.59	0	0	0	0	0	38.36
25B	Northridge (Zelzah)-Andrews	1.11	.18	8.01	3.05	14.35	8.95	2.69	T	T	0	T	0	38.34
27	W. D. Miller Ranch	.97	.20	6.66	2.14	12.24	9.02	4.00	.02	0	0	.17	0	35.42
28	San Fernando Lemon Assoc.	No record.												
29B	Granada-Pump Plant	1.29	.18	7.35	2.93	12.01	10.50	5.56	.04	0	.01	.03	0	39.90
30	Sylmar	1.30	.18	7.52	3.49	12.47	9.43	4.31	0	0	.01	.06	0	38.77
32-E	Newhall-Soledad Hdqts.	1.10	.06	9.05	3.34	16.91	9.22	4.96	0	0	T	.01	0	44.65
33A'-E	Pacoima Dam	1.52	.21	7.72	3.35	13.00	8.98	5.27	.07	.03	.22	.04	0	40.41
38	Chappel Ranch	1.41	0	6.86	1.77	13.69	10.15	4.32	0	0	T	0	0	38.20
39B	Sunset Dam	1.66	.54	8.34	2.64	14.98	11.49	5.43	.08	T	.07	.01	0	45.24
42	Redondo-City Hall	.89	.20	5.35	2.17	7.86	6.05	3.36	0	0	.02	0	0	26.50
43A	Palos Verdes-Admin. Bldg.	1.30	.18	6.16	1.69	7.48	5.95	4.07	0	0	0	0	0	26.83
43B	Palos Verdes-Golf Course	1.16	.24	7.01	1.94	6.41	7.63	4.23	0	0	0	0	0	28.62
44	Point Vicente Light House	.91	.32	6.72	1.53	7.05	4.96	3.83	0	0	0	0	0	25.32
46B-E	Big Tujunga Dam (below)	1.56	.46	9.33	3.18	20.92	14.72	7.51	.02	0	0	0	0	57.70
46C	Big Tujunga Dam (near crest)	1.50	.45	9.18	3.22	20.63	14.17	7.66	.02	0	0	0	0	56.85
47A	Clear Creek	1.96	.96	9.01	3.71	20.00	15.85	9.11	T	0	T	.07	0	60.67
48	Oak Wilde	2.32	1.02	7.88	3.19	19.30	14.17	7.49	.30	0	0	.20	0	55.87
49	Altadena Chiesa	2.33	1.06	7.04	2.37	17.94	11.17	6.60	.12	.05	.18	.02	0	48.88
50B	Altadena Arroyo Patrol Sta.	2.23	.91	7.56	2.70	19.36	11.87	6.14	.09	0	.08	.03	0	50.97
51E	La Cienega-Hill	2.57	1.90	10.80	4.50	18.93	12.86	8.26	0+	T+	T+	.16+	0+	59.98
52B	Switzers Camp	1.90	.83	7.75	3.34	20.56	14.92	8.01	.01+	0+	0+	.04+	0+	57.49
53A	Sleepy Hollow Ranch (Colby's)	1.35	.46	9.29	3.42	21.84	11.55	7.60	0	0	0	.10	0	55.61
	Installed Remote Control Automatic Tipping Bucket Gage 2-14-41.													
54	Loomis Ranch	1.24	.71	7.67	2.39	12.85	10.67	4.92	.01	0	0	.10	0	40.56
56	Valley Forge Lodge-Camp Kole	1.86	1.03	8.58	5.15*	I	17.59	9.86	0	T	T	.33	0	68.54*
57B-E	Opids Camp	2.38	1.60	11.73	5.73	27.40	17.49	11.89	0	0	0	.16	0	78.38
58	Sturtevant	2.83	.71	9.58	5.05	19.87	14.45	10.77	.10	.06	.03	.03	0	63.58
60A	Camp LeRoy (Hoegee's)	2.98	2.24	11.08	5.09	20.66	15.62	12.11	.11	.06	.03	.03	0	69.91
63B-E	Big Santa Anita Dam	2.50	1.11	7.43	2.94	13.69	12.49	6.90	.21	.11	.13	.08	0	47.59
64	Clark's Half Way House	2.56	1.06	6.99	2.83	14.39	12.81	7.24	.16	.16	.14	.05	0	48.39
65	Sierra Madre-Mersey	2.35	.93	7.98	2.75	15.91	12.79	6.69	.11	.08	.11*	.06*	0*	49.76
66	Sierra Madre-Fegler Ranch	2.27	.87	7.23	2.84	12.61	12.38	5.26	0	0	0	0	0	43.46
67B	Monrovia-City Hall	2.02	1.00	7.56	1.96	10.70	12.05	5.42	.04	.01	.04	0	0	40.80
68B	Sawpit Dam	2.85	1.12	7.73	2.68	12.25	13.10	6.87	.20	.10	.11	.02	0	46.83
69	Sawpit Canyon	3.19	1.42	8.36	3.33	13.62	15.30	8.28	.31	.18	.13	.02	0	54.14
70-E	Dalton # 1	2.22	1.27	8.34	2.45	10.03	12.67	5.78	1.07	.04	.03	T	0	43.90
73	Glendora-Engle Wilde Ranch	2.47	1.07	8.63	2.54	11.42	11.46	4.68	0	.08	.03	0	0	42.38
76B	San Gabriel Dam #1 Camp	1.76	1.55	9.82	3.65	14.83	14.17	6.64	.05	0	T	.03	0	52.50
82	Table Mountain	.96	.94	4.35	1.71	5.12	5.05	3.16	.05	.09	T	.37	0	21.80
83-E	Big Pines Recreation Park	2.09	1.40	9.73	3.77	12.14	12.12	6.20	.06	.07	0	.35	0	47.93
85D	Camp Baldy Guard Station	2.69	1.71	10.73	4.08	14.19	15.49	7.81	.05	.47	0	.11	0	57.32
87	San Dimas Guard Station	2.25	1.34	8.60	2.92	11.08	10.34	4.80	.05	.07	0	.01	0	41.46
89-E	San Dimas Dam	2.38	1.13	5.73	2.74	8.99	11.92	4.72	.04	.06	0	0	0	37.71
90	Brydon Ranch	2.14	1.03	7.54	2.51	9.68	11.56	4.77	.09	.08	0	T	0	39.40
91	Indian Hill	2.32	.90	7.36	2.29	9.67	12.86	4.22	.04	.08	0	T	0	39.74
92	Pomona College-Claremont	1.72	.94	7.29	2.57	8.54	12.83	3.86	.03	.09	0	0	0	37.87
93	Claremont-Fire Station	1.82	.93	6.92	2.29	8.58	12.57	3.64	.04	.09	0	0	0	36.88
94	Charter Oaks-Fields Ranch	2.23	.96	5.48	2.65	9.67	11.22	4.46	0	0	0	0	0	36.66
95	San Dimas-Fire Warden	2.16	.85	7.41	2.68	9.92	10.46	4.35	.06	0	.02	T	0	37.92
96-E	Puddingstone Dam	1.85	.80	7.17	2.35	9.01	11.23	4.40	.09	.03	0	0	0	36.96
97	San Dimas-Ferguson Ranch	2.30	.83	7.69	2.82	8.84	11.11	4.60	0	.06	0	0	0	38.25
98	Azusa-Hibsch	1.81	1.00	7.82	2.35	9.87	11.25	4.22	.04	0	0	.01	0	38.37
99	Azusa-Foothill Ranch	2.05	.77	7.63	2.35	11.15	11.06	4.22	.06	0	0	0	0	39.29
100	Fish Canyon	2.49	1.38	8.64	2.71	13.67	11.36	7.78	.70	0	.03+	T+	0+	48.76
101	West Covina-Hurst Ranch	1.89	.73	7.80	2.50	9.73	11.08	4.03	.04	0	0	0	0	37.80
102	Walnut-(formerly Howell Rch)	1.04	.75	7.35	2.66	9.07	11.52	3.66	0	0	0	0	0	36.95
104	No. Whittier Hghts-Cole Rch.	1.79	.46	7.55	3.46	11.46	8.93	3.15	0	0	0	0	0	36.80

Sta. No.	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Season Total
105	E. Whittier-Sharples Ranch	1.40	.54	6.50	2.85	9.49	9.51	3.04	0	0	T	0		33.33
106	Whittier-City Hall	1.62	.42	6.28	2.51	9.03	6.33	3.06	0	0	T	0		32.85
107B	Downey-Fire Station	1.34	.43	7.09	3.43	9.67	8.93	3.26	0	.04	0	.02		34.21
108B	El Monte-Fire Station	1.80	.78	5.71	2.54	10.98	11.47	3.69	.05	0	0	0		37.02
109	West Arcadia	1.83	.78	7.97	2.61	11.28	13.85	4.59	0	0	T	0	0	43.67
110	Alhambra-City Hall	1.62	.60	8.61	3.01	11.89	10.47	4.78	.13	0	T	T	0	41.01
111	So. Pasadena-City Hall	1.40	.60	7.18	2.89	14.89	10.51	4.49	.04	0	0	.01	0	42.01
114	Rosecrans Rch.-Gardena	1.06	.24	6.58	3.91	7.83	6.45	2.90	0	0	0	0	0	28.55
116B	Inglewood-Fire Station	1.76	.16	7.20	3.02	8.56	7.54	4.86	0	.01	T	T	0	33.11
117B'	Compton-Fire Station	.80	.47	6.84	2.84	8.22	5.50	3.16	0	.03	0	0	0	29.06
117D	Compton-Junior College	.95	.44	6.90	3.51	7.04	5.95	3.01	0	0	0	.01	0	27.81
118B	Wilmington	1.19	.55	7.28	2.80	7.91	5.86	3.02	0	0	T	0	0	28.39
119B	Soldiers' Home	1.33	.14	5.43	3.89	9.36	9.08	4.96	0	0	T	T	0	34.19
120	Vincent Patrol Station	.61	.08	3.86	1.10	5.69	5.72	2.90	0	0	T	T	0	19.86
121	Lancaster-Union High School	.90	.20	3.57	1.82	3.65	5.28	2.06	0	0	.25	0	0	17.73
122	Rouff Ranch-Leonis Valley	1.08	0	4.97	3.08	6.28	5.33	3.73+	0+	0+	0+	T+	T+	24.47
123	Eliz. Lake-Eli Munz Ranch	N.R.	N.R.	N.R.	6.02	10.55	7.25	4.07	0	0	0	0	0	28.89 I
124B	Bouquet Canyon Reservoir	1.64	.22	4.61	3.56	9.14	7.41	4.29	.02	0	0	0	0	31.49
125	Power Hse #1-San Francisquito	2.19	.17	5.57	5.06	8.79	8.71	4.79	.41	0	T	0	T	35.69
126	Venice-City Yards	1.68	.10	7.89	5.26	8.14	7.36	4.57	0	0	0	0	0	35.00
127	Dry Canyon Reservoir	1.13	.29	5.56	3.40	8.76	8.35	3.51	.47	0	0	0	T	31.47
128	Radium Hot Springs	1.95	.17	6.18	6.27	12.85	9.26	6.72	0	0	.07	.02	0	43.49
130B	Sandberg - Quail Lake Co. Guard Station	1.34	.19	5.17	4.55	14.50	9.27	4.82	.62	0	0	.04	0	40.50
134	San Dimas-Stevens	2.55	.85	7.76	2.44	10.41	11.74	4.62	0	.05	0	0	0	40.42
135	Norwalk	.85	.61	6.84	3.69	8.41	7.89	2.97	0	0	0	0	0	31.26
136B	Hollywood-City Eng.	1.39	.20	6.91	2.65	12.78	7.76	4.08	0	0	0	T	.05	35.82
137B	Curson Canyon	1.83	.30	7.99	3.40	12.83	7.96	4.90	0	0	0	.18	0	39.39
139	L.A.W.D. 2nd & Broadway	1.47	.28	6.14	2.43	13.49	8.11	2.67	T	0	T	.01	0	34.60
F.C.	Roof 751 S. Figueroa St. L.A.	1.58	.29	6.98	2.74	12.44	8.30	3.76	0	0	0	.03	0	36.12
140	Sawtelle-City Hall	1.36	.15	7.03	3.94	10.35	7.83	4.04	0	0	T	T	0	35.58
143	Azusa-City Park	1.86	.81	8.11	2.47	10.77	11.56	4.35	.14	.05	.01	.02	T	40.15
144	Sierra Madre Dam	2.62	.90	7.85	2.53	12.93	14.12	6.04	1.61	.10	.07	.08	0	48.85
150	Monrovia Falls	2.87	1.55	8.30	3.55	13.82	14.63	7.88	.27	.06	.12	.02	0	53.07
155B	Little Rock Creek	.45	0	3.81	1.28	5.86	5.39	2.60	0	0	0	.01	0	19.39
156	La Mirada-Std. Oil Co.	1.03	.70	7.44	3.77	7.77	9.15	3.36	.29	0	0	T	0	33.51
157	El Segundo-Std. Oil Refinery	1.52	.10	6.01	3.36	8.00	6.76	3.91	T	0	T	T	0	29.56
158	Tanbark Flats	2.53	1.87	8.69	3.19	12.30	12.72	6.60	.20	.10	T	.03	0	48.23
164	Monrovia-O'Connor	2.15	.84	6.81	2.19	9.25	11.29	4.60	1.21	.02	.10	.06	0	38.52
167	Arcadia Pump Plant	2.29	.86	7.09	2.29	11.19	11.83	5.98	.07	.04	.05	.02	0	41.71
168	San Gabriel-Watts	1.75	.60	7.29	2.69	11.61	10.37	4.05	.06	0	0	.05	0	38.50
169	Sierra Madre Pump Plant	2.41	.85	7.01	2.41	10.36	12.32	4.74	1.49	.16	.04	.02	0	42.31
170	Potrero Heights	1.57	.69	6.69	3.06	9.92	10.97	4.03	0	0	0	0	0	36.93
171	Chapman Wells	2.14	.78	7.42	2.54	11.80	11.88	4.69	.03	0	.02	.06	0	41.36
174	Glendora-Warren	2.52	.88	7.70	2.55	11.52	11.88	4.00	.05	.07	.02	0	0	41.19
175B	Alta Canada-Reservoir #9	2.22	.86	8.29	3.20	16.04	13.55	5.96	1.40	0	.32	.03	0	51.97
176	Rubio Cn. Water Co.	2.01	.90	7.35	2.44	16.70	11.09	5.34	.04	0	.10	0	0	46.47
177B	La Canada-Jones	2.33	.89	8.21	2.70	18.02	12.25	6.15	.11	.02	.13	.04	.01	50.86
177C	La Canada-Bradford	Station "B" moved to "C" location 1-14-41.												
178	Azusa-Griffith	1.81	.68	7.38	2.23	10.53	9.98	3.23	.05	.02	0	0	0	35.91
179A&B	Sierra Madre. Carter	1.87	.87	7.79	3.00	16.44	13.24	6.70	.11+	.07	.11	.06	0	50.26
	Station "A" moved to "B" location 6-1-41.													
181B	Bassett-Clifford	1.70	.57	6.81	2.44	9.95	10.93	4.07	.02	T	0	T	0	36.49
182	Baldwin Park-Leech	1.53	.71	6.92	2.22	9.93	10.25	4.03	.07	.01	0	0	0	35.70
185	Glendora-West	2.19	.87	7.66	2.56	11.32	11.53	4.26	.07	.08	0	0	0	40.54
188	San Dimas #3-Howard	2.20	.76	7.29	2.39	9.40	11.88	3.51	.02	.08	0	0	0	37.53
189	San Dimas-Harris	2.32	.86	7.54	3.48	10.42	11.65	4.28	.08	.07	.02+	T+	0+	40.72
192B	Bell-Fire Station	1.63	.40	6.72	3.31	9.07	6.95	3.52	0	.02	0	.02	0	31.64
193	Covina #2-Temple	1.80	.71	7.45	2.38	9.19	10.72	3.80	.07	.02	0	.01	0	36.15
196	La Verne-Leader	1.58*	.99	7.71	2.04	9.50	10.03	3.27	.06	.05	0	T	0	35.23
198	Brand Estate	1.61	.30	6.61	2.09	12.21	8.51	4.65	.03	T	.07	T	0	36.12
199B	Huntington Park	1.71	.30	6.91	3.38	10.16	7.30	4.06	0	.01	0	.10	0	33.93
200	Saugus-S.C.E. Co. Sub.Sta.	1.01	.16	7.33	2.64	12.37	7.91	3.01	0	0	T	T	0	34.43
201	Puente Hills	1.63	.48	6.81	3.03	11.52	8.58	3.92	.04	0	0	0	0	36.81
205	Puente-S.C.E. Co. Sub. Sta.	1.07	.64	7.16	2.84	9.19	9.83	3.37	.03	0	T	0	0	34.13
206	Valencia Heights	1.49	.69	7.32	2.35	9.65	10.79	3.64	0	0	0	0	0	35.93
208	Artesia-Barr Lumber Co.	.98	.63	6.85	3.75	8.18	8.16	2.60	.01	0	0	.03	0	31.49
209	Big Tujunga Edison Patrol Sta.	1.31	.57	7.95	3.04	18.48	12.00	7.61	0	0	0	.03	+0+	51.89
210B	Brand Park	1.97	.38	8.73	2.64	15.03	9.72	5.20	.08	T	.07	.04	0	43.86
213	Hancock Park	1.41	.18	6.73	2.74	12.54	7.31	4.02	0	0	0	.02	0	34.75
215B	Bellflower-Fire Station	.97	.49	6.47	4.32	8.78	8.43	3.03	0	0	0	.01	-0	32.50
216	Glendale-Jonee	2.16	.53	7.17	2.41	13.56	10.22	5.07	.74	T	.03	T	0	41.91
217	Watts-Jordan High School	1.17	.42	8.03	4.22	7.15	8.23	5.08	0	0	0	0	0	35.20
218	Torrance-Gen'l Petrol Corp.	.87	.21	6.33	3.01	9.29	6.57	3.02	0	0	0	T	0	29.30
219	Paccima Warehouse	1.10	.28	6.35	2.12	12.98	10.28	4.45	0	0	0	.08	0	37.62
220	Whittier Narrows	1.86	.46	6.17	2.57	9.54	9.02	3.16	0	0	0	0	0	32.58
221B	Kiener Ranch (Davis Ranch)	1.31	.36	7.35	2.99	13.13	7.70	5.65	0	0	.14	.22	0	38.85
222	Lankershim Generating Plant	1.25	.25	7.46	1.78	10.00	10.61	3.86	.32	0	T	.12	0	35.65
223B-E	Big Dalton Dam	3.13	1.33	9.32	3.01	11.60	12.15	5.22	.23	.19	.06	T	0	46.24
224	Long Beach-Alamitos Land Co.	.99	.75	6.52	2.56	6.63	6.99	3.19	.13	0	T	0	0	27.76
225	Montana Ranch	1.02	.66	6.76	3.82	7.81	8.19	2.81	0	.06	T	.02	0	31.15
226	Burbank-City Hall	2.03	.40	7.95	2.40	13.14	10.36	4.83	T	T	.03	.01	0	41.15
227B	San Gabriel-Gleason	1.58	.66	7.75	2.67	11.18	10.54	4.53	.67	0	T	0	0	39.58

TABLE VI 1940-41 (Continued)

Sta. No.	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Season Total
228B	Beverly Hills-City Hall	1.20	.18	8.57	4.17	11.38	8.15	4.02	0	0	T	.08	0	37.75
230C	Live Oak Canyon-Elder	2.62	.94	7.79	2.27	9.58	12.24	4.07	.06	.09	0	T	0	39.46
253	Covina-Mathews	2.08	.82	7.00	2.27	10.37	10.43	3.66	0	T	0	0	0	36.73
234	Covina-Thorpe	1.58	.75+	6.72	2.10	8.81	8.88	3.64	.07+	.02+	0+	.01+	0	32.58
235B	Henninger Flats	3.01	1.42	7.89	2.80	18.57	13.56	7.37	.28	.18	.24	.10	0	55.42
236	Ford-Craig Ranch	1.51	.24	7.50	2.94	13.11	9.53	5.22	.11	0	0	0	0	40.61
237	Stone Canyon Dam	1.56	.17	9.59	4.57	11.88	10.19	4.33	0	0	0	.03	0	45.32
238	Hollywood Dam	1.54	.26	7.84	2.84	13.81	7.44	4.04	0	0	0	.09	0	37.86
240	Little Tujunga Canyon	1.58	.39	11.05	4.87	13.75	10.18	5.65	.07	.02	.06	.10	0	47.72
241	Long Beach-City Hall	1.03	.70	5.93	2.24	5.61	6.04	3.19	.12	.01	T	.02	0	24.89
242	La Verne-Hathaway	1.58	.85	7.54	Station discontinued.									
246B	Culver City-Bus Yard	1.62	.08	7.32	1.76	8.01	7.96	3.50	.40	0	0	0	0	30.45
247	Rivera	1.44	.40	6.61	2.90	9.49	9.21	2.97	0	.02	0	0	0	33.04
248E	West Saddle Peak-Malibu Cr.	1.68	.26	11.84	6.40	13.40	9.57	5.30	0	0	.08	0	0	48.63
249	Mint Canyon-The Oaks Garage	1.05	.40	5.10	2.06	7.61	6.91	3.09	.05	0	0	0	0	27.18
250B	Acton-Hefner Ranch	.66	.09	4.63	.07	6.71	5.71	3.32	0	0	T	0	0	22.09
250C	Acton-Charities Camp #2		Station "B" moved to "C" location 12-5-40.											
251	La Crescenta	1.67	.75	6.51	3.24	17.28	11.85	6.57	.08	0	.16	.05	0	48.14
253	Western Ave. Tank. L.A.W.D.	2.10	.18	6.57	3.50	9.84	7.42	4.09	0	0	0	T	0	33.70
254	Rowlands Ranch	1.00	1.02	7.30	3.16	10.16	10.56	3.54	0	0	0	0	0	36.82
255	State Narcotic Hospital	1.30	.89	7.10	2.62	9.44	11.82	3.20	.15	0+	0+	0+	0+	36.52
256A	Pomona S.P.R.R. Depot	1.10	.80	7.25*	2.10	7.64	11.71	3.25	.08	.03	0	.01	T	33.97
256B	Pomona Fire Station		Station "A" moved to "B" location 1-8-41.											
257	Griffith Park Nursery	1.64	.31	7.53	2.87	11.90	8.37	4.34	0	0	0	0	0	36.96
258a	Griffith Park-Tunnel Mt.Holl.	1.77	.25	7.88	2.94	13.42	9.29	4.71	0	0	0	0	0	40.26
258b	Griffith Park-S. Slope Mt. H.	1.98	.26	7.16	2.69	13.00	9.28	4.91	0	0	0	0	0	39.28
258c	Griffith Park-N. Slope Mt. H.	2.21	.35	8.30	3.26	14.25	9.57	4.93	0	0	0	0	0	42.87
259B	Chatsworth Patrol Sta.	1.47	.12	8.27	4.74	14.00	8.84	4.57	.01	0	0	0	0	42.02
261-E	Acton-Mellen	.84	.09	4.77	1.54	6.76	5.70	3.35	.05	0	T	0	0	23.10
263A	Pomona-Frater	1.27	.83	7.42	2.43	8.43	12.66	4.02	.07	T	T	0	0	37.13
264	Sand Cn. Brooks Ranch	1.05	.17	6.96	4.52+	12.85*	7.70*	4.53*	0+	.05+	0+	.03+	0+	37.86
265C-E	Puente Hills-Weisel Ranch	1.24	.63	7.03	2.75	8.70	8.87	3.27	0	0	T	0	0	34.49
266	Leffingwell Ranch E. Whittier	.90	.60	6.29	2.75	8.55	8.48	2.93	0	0	0	0	0	30.50
268-E	Torrance-190th & Western S.C.E. Co. Sub Sta.	.92	.24	6.29	3.12	9.41	6.59	3.09	0	0	0	T	0	29.66
269A	Diamond Bar Ranch #1 Residence	1.65	.67	8.20	3.29	9.49	10.49	3.28	.04	0	0	T	0	37.11
269B	Diamond Bar Ranch. Horse Camp	1.60	.47	8.10	3.07	9.48	10.76	3.72	0	0	0	0	0	37.20
270	County Farm-L.A.	1.05	.44	6.61	3.33	8.79	8.34	3.55	0	0	0	.06	0	32.17
271	Dominguez Hills	1.12	.45	6.47	3.06	7.04	6.20	3.27	0	.04	0	0	0	28.25
272	Headworks Pump Plant - L.A.	2.04	.37	7.60	3.03	14.51	8.98	4.97	0	T	.03	0	0	41.53
273	San Pedro Hills-McCarroll Rch	1.71	.26	6.65	2.18	9.97	6.61	4.31	0	0	0	0	0	31.69
274	Acton-(near) Hubbard	.79	.14	4.21	1.59	6.34	6.97	3.64	.06	0	0	0	0	23.74
275	San Marino-Huntington Library	1.93	.84	7.72	2.81	12.34	11.42	4.72	.92	0	0	.15	0	42.75
277	Sawmill Mt. Ranch	1.47	.23	5.75	5.83	15.21	9.84	5.81	T	0	.03	T	0	44.77
278B	Clark Memorial Library	1.35	.23	6.69	2.42	10.11	8.33	3.61	0	0	0	0	0	32.74
279B	Kinneloa Ranch	2.06	1.06	7.56	2.32	14.09	11.32	6.30	.16	.03	.14	.01	0	45.05
280B	Flintridge Fire Station	2.30	.72	7.76	2.83	19.48	11.78	6.03	.09	0	.08	T	0	51.07
282a	Crystal Lake - E. Pine Flat	2.89	1.68	11.42	5.19	18.09	16.25	10.66	0	T	T	.16	0	67.24
282b	Crystal Lake - W. Pine Flat	2.52	1.57	10.71	4.47	17.03	14.49	9.36	0	T	T	.16	0	60.70
284	Placerita Canyon	.83	.09	8.53	3.52	16.70	10.01	5.66	0	0	.06	.04	0	45.54
285C	Mt. Saint Mary's College	1.65	.24	9.46	3.02	12.76	10.14	4.58	0	0	.06	.53	0	44.46
286B	Cowans Res.-Osborne Ave.	1.23	.11	5.42	2.08	12.33	10.59	3.95	0	0	0	0	0	35.71
287	Glendora-Irrigation Co. Office	2.06	.87	7.27	2.34	10.67	11.27	4.12	.06	.09	.02	0	0	38.77
289	Laguna Bell Sub Sta. S.C.E.Co.	1.96	.42	6.79	3.21	10.63	8.27	3.62	0	0	0	T	0	34.50
290	Newmark S.C.E. Co. Sub. Sta.	1.29	.65	4.89	2.49	10.51	8.14	4.02	.03	0	0	0	0	32.16
291	96th & Central Ave.	2.13	.20	7.25	3.05	8.73	6.35	3.28	0	0	0	0	0	30.99
292-E	Encino Reservoir	1.14	.14	9.81	3.01	12.76	8.06	4.00	0	0	0	0	0	39.72
293	Lower Fernando Res.	1.24	.17	6.53	3.21	12.79	8.89	3.68	.06	0	0	.04	0	36.61
294	Mira Monte Pump Plant	2.57	.85	7.30	2.57	13.18	11.15	5.54	1.65	.04	.06	.04	0	48.45
295F	Glendale-Kennedy	2.00	.42	7.62	2.16	14.97	9.29	4.84	.02	T	T	.01	0	41.53
298	Corman	1.33	.20	4.86	4.27	5.70	8.03	3.52	0	0	0	0	0	31.21
299C	Calivalli Farms-Little Rock	.43	.03	2.70	.76	3.51	4.43	1.82	.07	0	0	.09	0	14.04
300B	Garrapata Canyon	1.07	.10	11.55	5.01	16.82	11.34	6.08	0	0	0	0	0	51.97
302B	Cal-Tech	2.23	.62	8.05	2.59	14.54	11.48	4.71	.05	0	0	.15	0	44.42
304	Deer Park - Monrovia	2.51	1.89	8.87	4.03	15.70	17.23	8.78	.35	.19	.05	.02	0	59.62
306	Arroyo Sequis-Mason Estate	2.39	.09	10.03	8.38	15.44	10.17	6.04	0	.01	.05	T	T	47.30
306A	Trancas Cn. at ocean	N.R.	N.R.	N.R.	N.R.	7.49	7.00	2.64	N.R.	N.R.	N.R.	N.R.	N.R	I
307	Snow Crest Camp	2.95	2.10	9.95	4.10	11.70	12.04	7.35	.04+	.17+	0+	.11+	0+	50.81
308	Kelly's Kamp	3.10	2.15	16.98	7.45	31.17	22.16	10.37	.52	.17	0	.32	0	94.59
309	Padua Hills	2.80	1.09	7.91	2.62	11.00	13.32	4.39	.17	.13	0	0	0	43.43
311b	Pasadena Meteorological Sta.	1.73	.80	7.38	2.59	17.59	11.71	5.41	.05	.01	.02	.02	T	47.31
312	Glendora-Azuss-Irrigation Co. Plt.	1.77	1.02	8.03	2.22	10.02	11.68	4.08	.03	.13	0	T	0	39.88
315	Glendora-E.C. Warren Res.	2.33	1.07	8.04	2.62	11.22	11.67	4.67	.04	.11	.04	0	0	41.41
317	Big Pines Sawmill Flats #2	2.09	1.16	10.24	3.17	10.87	10.86	5.62	.05	.07	0	.23	0	44.96
318	Big Pines-Jackson Lake	.70	.81	6.66	2.18	12.77	9.88	4.81	.16	0	0	.25	0	38.62
320A'	Sycamore Cn.-Chevy Chase	1.93	.53	7.60	2.70	18.80	10.98	5.17	.06	0	.02	0	0	47.89
321-E	Pine Cn. Patrol-Co. F.S. (Elizabeth Lake)	1.32	.05	5.75	4.41	10.88	8.46	5.49	0	0	0	T	T	36.36
322	Munz Valley Ranch	.70	0	4.70	1.95	6.90	4.41	2.61	0	0	0	0	0	21.17
326B	Santa Ynez Canyon	1.52	.17	11.35	6.06	14.38	8.28	6.63	0	0	T	0	0	48.42
334-E	San Gabriel Dam #2	1.87	1.38	12.02	4.27	22.14	14.61	9.60	0	T	T	.03	T	60.02
336	Silver Lake Reservoir	1.26	.28	6.91	2.44	12.17	7.70	3.02	0	0	0	0	0	34.78
338	Mt. Wilson	2.71	1.90	11.88	4.37	24.61	17.72	10.01	0	0	T	.13	T	74.13
		Automatic moved from "A" to "B" location 3-24-41.												
338B	Mt. Wilson Air Ways Sta.	2.47	1.87	10.56	3.79	23.34	15.71	9.12	T	0	T	.14	0	66.80

Sta. No.	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Season Total
339	Walnut-Fruit Growers Assn.	1.17	.31	7.37	2.50	10.63	10.06	2.01	.32	0	0	0	0	35.77
341	Blum Ranch	.66	.06	4.76	.99	6.54	5.81	3.53	0	0	T	0	0	22.30
342	Uplands-Wood	1.80	.96	7.72	2.46	9.54	13.45	4.70	.08	.14	0	.04	0	40.89
343	Telegraph Road	1.29	.42	7.01	3.21	9.81	9.19	2.96	0	0	0	0	0	33.89
347-E	Baldwin Pk. Exp. Station	1.62	.65	7.23	2.27	10.29	10.37	4.27	.02	T	0	.01	0	36.73
348C	Honor Camp #1-E. FK.	1.93	1.90	7.76	3.24	12.76	12.11	6.00	.05	+0+	T+	.05	+0+	46.08
349B	Camp Rincon	1.79	1.59	9.49	3.94	13.02	15.25	7.42	0	0	0	.03	0	53.43
351D	Palmdale	.64	.13	3.99	1.49	4.60	4.94	2.37	.25	0	0	.05	0	18.46
352	Lechuza Patrol-Co.F.S.	2.35	.09	10.68	9.11	11.20	11.11	6.82	0	0	.07	T	0	51.43
353	Duarte-Monrovia Citrus Assn.	1.90	.90	7.68	2.35	7.82	12.21	4.08	1.47	0	T	0	0	38.41
354B	Honor Camp#6	2.63	2.25	10.62	4.00	13.83	17.79	8.36	.15	.39	T	.11	0	60.13
355	L.A. City College	1.49	.25	6.65	2.50	12.19	7.58	5.02	0	0	0	.12	0	35.80
356	Diamond Bar Rch.#2 Office Spadra	1.12	.70	6.52	2.00	8.99	10.81	3.53	.05	0	0	0	0	33.72
357	Power House #3	1.41	.22	7.69	4.08	12.50	10.89	5.28	.57	0	0	.04	+0	42.68
358B	Aldrich Ranch	.65	.47	5.93	1.37	8.59	6.76	3.07	0	0	0	.15	0	26.93
360A	Haines Rock Crusher Flt.	Station "B" moved to "A" location 2-28-41.												
360B	Haines Debris Basin	1.55	.52	7.02	1.80	15.84	12.51	5.81	.08	.01	.15	.08	0	45.37
362	El Mirador Ranch	1.81	.66	7.30	2.80	10.09	11.08	5.58	.05	0	0	0	0	48.37
364	Haines Cn. Lower (U.S.C.S.)	1.69	.58	9.07	2.88	18.68	13.05	6.95	.11	.02	.02	.02	0	53.07
366	Valyermo	.53	.30	4.76	.07	6.62	5.32	2.72	0	0	T	.03	0	21.25
367	Haines Canyon, Upper	2.03	.75	9.99	3.37	21.87	14.35	8.75	.14	.03	0.15	.15	0	61.58
372	San Francisquito Cn. Power House #2	1.97	.21	5.50	4.50	8.89	8.77	4.57	.68	0	0	0	T+	35.09
373	Briggs Terrace	1.71	.80	8.34	3.40	18.61	13.00	6.88	.16	.05	.28	.03	0	53.26
375B	Griffith Park Zoo	1.49	.30	7.74*	3.23	13.70	9.30	4.40	0	0	0	T	0	40.36
377C	Lake Sherwood Est.	1.77	.05	10.28	4.23	13.11	7.07	5.07	0	0	T	0	0	41.58
378	La Canada-Skow	2.44	.97	Station discontinued.										I
379B	San Gabriel-East Fork-P&B	2.02	1.80	8.73	3.46	14.09	13.53	6.74	.05	0	T	.03	0	50.45
380	El Sereno	1.32	.44	6.32	2.33	13.56	9.36	3.82	0	0	0	0	0	37.15
381B	Santa Monica-"Outlook"	1.99	.14	8.24	4.11	7.58	9.11	3.53	0	0	T	T	0	34.70
384B	Highland Park-San Rafael Hills -Laverty	2.01	.59	7.50	2.67	16.10	10.43	4.72	.02	0	0	0	0	44.04
385	N. Whittier Heights-Smith	1.61	.51	7.98	3.48	11.84	9.16	3.90	.03	0	0	T	0	38.51
386B	Zuma Canyon-Oakley	2.05	.09	11.45	9.83	14.85	11.16	7.97	0	0	.08	0	0	57.48
387B	Covina-Water Co.	1.96	.73	5.58	2.33	9.51	9.85	3.39	.01	.02	0	.01	0	33.39
388B	Clear Water-Fire Sta.-Co.	.89	.50	6.38	3.62	8.73	7.79	3.00	0	0	0	T	0	30.91
389	Glendora-Brown	2.28	1.04	8.36	2.47	11.04	11.57	4.69	.09	.08	.04	.01	0	41.67
390B	Morris Dam	2.40	1.48	9.02	3.11	13.01	14.86	6.15	.13	.04	T	T	T	50.20
391	Montebello-Cotton	1.61	.50	5.70	3.84	9.62	9.79	2.74	0	0	0	0	0	33.80
392B	Altadena-Barton	2.21	.88	7.06	2.42	16.29	11.32	6.46	.16	.10	.16	.04	0	47.19
394	Highland Park.-Lindsay	1.52	.52	7.24	2.49	15.20	12.29	4.64	0	0	T	0	0	43.90
395	Olive View Sanatorium	1.52	.21	7.59	3.73	14.38	10.18	5.09	0	0	.14	0	0	42.84
396	Oneota Ranch-San Fernando	No records.												I
397	Begue Ranch-Tujunga	1.47	.41	9.43	2.77	16.01	14.04	6.49	0	0	0	0	0	50.62
398B	Trails Inn	3.04	1.75	12.67	4.56	19.11	16.54	7.18	.09	.47	0	.27	0	65.68
400	Pasadena-Washington & Palm Terrace.	1.80	.01	7.43	2.59	16.19	10.83	5.52	.08	.03	.07	.02	T	45.47
402C	State Prison Camp	2.30	1.67	10.09	8.03	16.23	16.00	10.37	0	0	0	.05	0	66.44
403	Altadena-Lindvall	2.44	1.17	7.44	2.43	17.03	11.80	6.48	.19	0	.30	.05	0	49.33
404	Glendale-Opid	2.01	.47	6.80	2.25	12.02	11.17	4.16	0	.01	0	.01	0	38.90
405	Soledad Canyon-Nelson	.73	.06	5.06	1.27	6.60	6.30	3.24*	.06+	0+	T+	0+	0+	26.32
406	West Azusa-Klein	1.61	.70+	7.50+	2.36	10.30	10.08	4.02	.11	.02+	0+	.01+	0+	36.66
407	Newhall-USFS. Hdqts.	.03	0	8.43	3.21	16.00	8.12	5.02	0	0	T	0	0	42.61
408	Soledad Cn.-Mitchell	.82	T	6.53	1.85	11.93	8.59	5.78	0	0	0+	0+	0+	35.50
409	Ridge Rt. (New) State Highway Maintenance Dept.	1.15	.18	7.33	5.44	15.00	10.51	5.72	0	0	0	0	0	45.35
410C	Ridge Route (New) Old Edison													
411	Rivera-Pico-Robinson	1.84	.41	6.72	2.80	8.97	9.53	2.81	0	0	0	0	.01	33.09
412B	Pasadena-Ohio & Euclid Ave.	1.82	.61	7.65	2.72	15.85	11.01	4.53	.09	T	T	.03	T	44.31
415	Signal Hill-City Hall	1.21	.66	6.17	2.77	7.56	6.34	2.65	0	.04	0	.02	0	27.42
416	Altadena-Ventura St.	2.15	.92	6.84	2.46	17.89	10.63	6.05	.14	.15	0	.03	0	47.24
417	Sierra Madre-Lamanda Park Citrus Assoc.	2.31	.79	8.29	2.65	12.88	12.96	4.85	.87	0	T	T	0	45.60
418	Pickens Cn. USFS Exp. Plots	1.79	.93	8.88	3.79	20.26	12.97	6.86	.11	.02	0	.07	0	55.68
419	Santa Clara Ridge-Mt. Gleason	1.36	.68	9.48	4.32	18.84	11.67	6.58	0	0	0+	.05+	0+	52.98
420A	Modie Ranch	.53	.11	6.45	2.21	11.15	8.44	3.67	0	0	T+	T+	0+	32.56
420B	Acton-Modie Ranch	Station "A" moved to "B" location 1-20-41.												
421	Lopez Canyon below Mouth	1.21	.24	6.90	2.32	10.68	9.72	4.77	.64	0	.06	.06	0	36.60
422	Pacoima Canyon	1.71	.24	7.43	4.47	13.78	11.30	7.30	.03	0	.05	.05	0	46.32
423	Aliso Cn.-Wagon Wheel Ranch	.88	.39	7.39	3.01	12.13	10.49	4.71	.03	0	T	.01	0	39.04
425-E	San Gabriel Dam # 1	1.95	1.65	9.56	3.58	14.75	15.16	6.70	.08	T	.02	.02	0	53.46
427	Downey-Jordan	1.42	.44	7.08	3.20	10.17	8.60	3.30	.01	.02	0	T	0	34.24
428	Altadena-Laity	2.48	1.21	6.93	2.27	16.32	11.71	6.46	.18	.11	.28	.05	0	48.00
429	Red Box-State Hwy. Maint.Dept	1.83	1.34	9.62	3.73	24.18	16.33	11.49	.01	0	0	.04	0	68.57
430	Saugus-State Hwy. Maint. Dept	.90	.08	7.61	2.09	14.05	8.20	4.00	0	0	T	T	0	36.93
431	Baldwin Hills-N. side	1.82	.20	6.31	3.11	11.21	7.87	3.98	0	0	0	.04	0	34.54
432	Santa Anita-Fern Lodge	2.54	1.88	9.45	3.76	17.15	17.59	9.20	.02	T	.12	.01	0	61.72
433	Altadena-Co. F.S. Rec. Park	3.02	1.17	7.33	2.43	18.37	11.69	6.96	.16	.09	.28	.06	0	51.56
434	Malibu Hdqts. Co. F.S.	1.55	.11	10.33	3.84	12.40	10.24	3.89	0	0	.01	0	0	42.37
435	Monte Nido Cn.-Co. F.S.	1.53	.27	12.41	6.32	13.41	9.09	5.68	0	0	.05	0	0	48.76
436A'	Hansen Dam-Control House	N.I.	N.I.	6.13	1.84	9.94	7.85	2.85	.01	0	0	0	0	28.42 I
436B	Hansen Dam-office	1.12	.29	6.39	1.57	11.10	7.00	3.66	.01	0	0	0	0	31.90
437	Hamilton Bowl-Long Beach	1.32	.64	5.42	2.38	6.93	6.39	2.89	0	.03	T	0	0	26.07
438	Encino-Quirello	1.29	.14	9.68	3.22	14.37	9.65	4.53	0	0	0	T	0	42.78
439B	Charlton Flats-U.S.F.S.	1.61	1.30	10.61	3.76	18.18	13.62	7.20	0	0	0	.10	0	56.38
440	Chilao Guard Sta. U.S.F.S.	1.36	.96	9.93	2.74	16.27	12.12	5.86	T	0	0	.09	0	49.33
441-E	Palmdale-Co. Rd. Maint. Dept.	.62	.06	4.12	1.47	4.56	4.77	.96	.25+	0+	0+	.05+	0+	16.86
442	Mescal Creek (Near)	.66	.27	3.15	1.12	4.98	5.28	2.08	.01	.03	0	.19	0	17.77

TABLE VI 1940-41 (Continued)

Sta. No.	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Season Total
443	Latigo Cn. Hds. Junction with Mulholland	2.01	.07	11.63	7.76	14.60	10.69	7.10	0	0	.02	0	0	53.88
444	Rolling Hills-Palos Verdes	1.22	.20*	7.65	3.13	11.91	7.21	6.12	0	0	0	0	0	37.44
445	Live Oak Canyon-above dam	2.11	.89	7.62	2.16	9.39	13.04	4.75	.50*	.06*	0*	0*	0*	40.52
446	Aliso Cn.-Santa Susana Mts.	1.97	.20	9.13	6.21	17.94	10.33	6.70	0	0	.08	0	0	52.56
447	Las Flores Cn-Co. F.S.	1.36	.17	8.00	4.96	9.90	8.53	3.50	0	0	T	T	0	36.42
448A	Mint Canyon-Witt	.94	.18	5.22	2.57	7.07	7.50	2.99	0	0	0	0	0	26.47
448B	Mint Canyon-Weingarten	Station "A" moved to "B" location 2-13-41.												
449	Eaton Dam	1.96	.30	8.37	1.98	14.20	10.73	4.98	.11	.03	.09	0	0	42.75
450	Eagle Rock	2.02	.66	6.79	2.41	15.25	9.87	4.37	0	0	0	0	0	41.27
451	Castaic Guard St. Co. F. S.	.83	.37	5.07	3.43	10.63	6.46	3.02	0	0	0	0	0	30.80
452	Studio City-Thayer	1.23	.38	9.58	3.36	14.16	10.02	5.35	0	T	0	T	0	44.08
453	Devil's Gate Dam	2.08	.76	6.46	2.33	18.29	10.28	5.08	.04	.02	.06	.03	0	45.43
454	Los Angeles-W.J. Wood	1.43	.30	7.41	2.63	10.85	8.54	3.74	0	0	T	.16	0	35.06
455	Lancaster-State Hwy Maint. Dept.	.82	.03	4.72	1.77	3.81	5.23	2.10	0	0	0	.19	0	18.66
456	Yato Kya-Indian Museum Flute Butte	.52	.05	3.20	2.09	--------No record----------								I
457	Los Angeles-Carlson	1.29	.31	6.90	2.68	12.79	8.44	4.10	0	0	T	.05	0	36.56
458	Zuma Cn. Co. Forestry Patrol Station	1.63	.09	8.97	6.29	8.11	7.13	4.36	0	0	.02	0	0	36.60
459	Mill Creek-Honor Camp #3	N.I.	.50	7.27	2.61	12.66	9.87	6.00	.27	0	0	.36	0	39.54 I
460	Pleasant View Mesa-Matay	Station established 10-29-40. 1.00*	.45	4.83	1.86	8.31	8.72	3.18	3.71	0	0	0	0	32.06
461	Baldwin Hills-Std. Oil Field Office	Station established 10-29-40. N.I.	N.I.	7.44	3.15	8.46	8.35	3.45	0	0	0	0	0	30.85 I
462	Hillcrest Country Club	Station established 10-30-40. Installed Automatic 12-12-40. N.I.	.12	6.15	3.62	10.70	8.55	3.70	0	0	T	T	0	33.86 I
463	Mar Vista-So. Calif Water Co.	Station established 11-6-40. N.I.	.11	8.17	3.43	8.79	7.21	3.53	0	0	T	0	0	31.24 I
464	Tujunga Cn.-Honor Camp #5	Station established 11-6-40. N.I.	.58	8.12	3.48	10.15	13.38	8.26	0	0	0	.07	0	53.04 I
465	Sepulveda Dam	Station established 11-13-40. .98	.12	8.67	2.77	13.26	9.56	4.03	0	0	T	.02	0	39.41
466	Pacoima Cn. near Mendenhall Peak Lookout	N.I.	N.I.	N.I.(I)2.51	15.40	10.99	6.94	.18	0	.06	.02	0	36.10 I	
467	Glendale-Davis	Station established 1-16-41. N.I.	N.I.	N.I.(I)2.13	15.75	9.22	5.23	0	0	0	0	0	32.33 I	
468-E	Pickens Debris Basin	1.98	.90	6.80	3.31	16.92	11.72	5.90	.15	.03	.11	0	0	47.82
469	Los Angeles	1.47	.30	6.92	2.42	13.85	8.48	3.30	0	T	T	.15	0	36.89
481	Glendora-Green	2.19*	.87*	7.79	2.21	11.35	11.73	4.20	.07	.08	0	0	0	40.49
X-3A	Rustic Canyon Fire Area-Josepha	Station established Dec. 1940. 1.58	.27	10.09	5.56	12.70	9.68	5.57	0	0	0	0	0	45.45
X-3B	Rustic Canyon Fire Area at Mulholland	1.25	.10	11.49	4.38	15.73	9.04	5.12	0	0	T	T	0	47.11
X-3C	Pacific Palisades Fire Area	1.72	.24	8.64	4.69	10.29	8.40	3.38	.70	0	0	0	0	38.06
X-4	Towsley Cn.-Fire Area	1.55	.08	9.60	5.09	19.53	12.12	6.57	0	0	0	.02+	0	54.66
508B	Arroyo Seco Ranger Sta.	2.62	1.01	7.13	2.49	19.54	12.40	6.25	.15	.03	.25	T	T	51.87
516	Buena Park	.84	1.00	6.95	3.36	9.61	7.70	1.96	0	0	0	0	0	31.42
529	Chino-Amer. Beet Sugar Co.	1.16	.78	7.85	2.36	7.76	12.68	3.48	.76	0	0	0	0	36.83
530	Conejo Ranch	1.47	.11	8.05	3.04	7.84	9.36	3.13	.82	0	0	0	0	33.82
537	La Habra-Citrus Assn.	1.10	.67	6.33	3.02	8.53	9.01	2.99	0	0	0	0	0	31.65
564	Llano	.73	.24	2.82	1.11	3.91	5.06	1.50	0	0	T	.03	0	15.40
577	Los Angeles-U.S.W.B.	1.47	.34	5.50	2.21	12.42	8.14	2.67	T	T	T	.04	0	32.79
588B	Mt. Lowe-Wurmser	2.73	1.23	10.10*	3.14	24.51	13.68	10.71	.04	0	T	.10	0	66.24
589	Mountain Springs Ranch	2.28	1.02	7.50	2.55	9.70	11.13	4.11	.25	.11	0	0	0	38.65
593B	Newhall Ranch	.98	.30	9.50	4.26	11.09	7.10	3.86	0	0	T	T	0	37.02
594	Newhall-S.P.R.R. Depot	1.07	.07	10.32	3.77	18.44	8.54	5.34	0	0	0	0	0	47.55
597	Newbury Park	1.99	.13	8.15	3.27	7.28	9.06	3.37	.82	0	0	0	0	34.67
610A	Pasadena-Morris Jones	1.80	.81	7.67	2.47	16.72	10.76	5.68	.10	.09	0	0	0	46.10
610B	Pasadena-City Hall	1.96	.62	7.72	2.66	16.77	11.43	5.08	.06	.02	.02	.07	T	46.41
611	Pasadena-Allen	1.99	.92	6.89	2.18	15.69	12.42	4.59	1.71	.04	0	.03	0	46.36
612	Pasadena-Chlorine Plant	2.57	.99	7.14	2.45	19.67	12.32	6.14	.13	.01	.21	.02	T	51.55
613B	Pasadena-Hurlbut Fire Sta.	1.85	.55	7.70	2.61	15.84	10.75	4.35	.06	0	0	T	0	43.71
618	Santa Susana-Wolff Ranch	1.53	0	6.61	3.04	11.12	9.21	3.67	0	0	0	0	0	35.18
634	Santa Monica-City Hall	1.89	.11	6.84	3.65	7.37	8.59	4.04	T	0	T	T	0	32.49
656B	Sunland-Bonner	1.27	.40	7.01	2.00	14.19	10.26	4.24	0	0	0	0	0	39.37
671B	Los Angeles-S.C.E. Co. #3 Sub. Sta.	1.20	.40	6.08	2.28	12.40	8.72	3.78	.04	0	0	.04	0	34.94
672	Eagle Rock-S.C.E. Co. Sub.Sta.	1.85	.67	7.20	2.59	17.30	11.32	5.12	.06	0	.01	.02	0	46.14
673	Seal Beach-L.A. P&L. Corp.	.72	1.41	5.50	2.29	7.75	6.33	2.53	0	T	T	T	0	26.53
674	Compton-Amer. Beet Sugar Co.	.94	.53	6.84	3.21	6.69	6.03	3.51	.42	0	0	0	0	28.17
676	Los Angeles - W. 80th St.	2.03	.19	7.74	3.64	10.16	8.35	4.10	0	T	T	.02	0	36.23
677	Pasadena-Hayes	1.89	.68	7.41	2.78	19.77	10.77	5.66	.09	.02	.09	.03	0	48.19
678	Pasadena-Sheldon Res.	1.88	.80	6.96	2.52	18.05	11.43	5.62	.07	.02	.04	.02	T	48.41
679	No. Whittier Citrus Assn.	1.50	.53	7.02	3.08	10.20	8.58	3.09	0	0	0	.03	0	34.03
680	U.C.L.A.	1.36	.28	8.35	3.90	10.10	9.77	5.00	.50	0	.01	.01	0	39.28
681	Santa Anita Ranger Sta.	2.64	1.19	6.87	2.58	11.27	12.70	6.09	.06	.05	.12	.09	0	44.26
682	Gould Sta. S.C.E. Co. Sub.Sta	2.36	1.06	7.38	2.61	17.86	12.26	6.59	.11	.02+	.13+	.04+	.01+	50.43
683	Sunset Guard Sta. U.S.F.S.	.01(I)	1.13	6.95	2.47	19.89	12.55	6.70	.18	0	.41	0	T	53.34 I
684	Arcadia Warehouse U.S.F.S.	2.19	.78	7.47	1.82	11.42	11.80	5.12	.07	.03	T	.07	0	40.77
685B	So. Pasadena-Marsh	1.70	.60	7.70	3.03	13.98	11.16	4.46	.88	0	0	0	0	43.51
686	Big Dalton-Spreading Grounds	2.83	1.17	8.61	3.00	12.23	11.95	4.86	.22	.18	.08	T	0	45.16
689B	San Marino-Cooper	1.63	.67	7.40	2.90	14.25	10.85	5.17	.04	0	0	.01	0	43.02
690	San Antonio Guard Sta. USFS	2.55	1.47	8.20	2.82	11.09	15.18	6.68	.10	.16	0	.05	0	48.30
691	San Antonio Spreading Grounds	2.84	1.07	7.29	2.23	9.45	12.60	4.92	.13	.13	0	.03	0	40.69
693	Bellflower-Anthony	.85	.50	6.09	3.42	7.78	7.55	2.70	0	T	T	T	0	28.89
694	Tujunga Cn.-Guard Sta. USFS	1.26	.36	7.05	2.18	18.92*	12.66*	5.33	.06	T	.13	.01	0	46.86
695	Tujunga Cn. Valhalla Ranch	1.29	.63	8.86	3.03	21.39	15.88	9.12	1.80	0	0	0	0	61.70
696	Pasadena Glen	2.12	1.08	7.66	2.51	16.40	11.01	6.48	.23	.15	.21	.06	0	47.91
697	Venice-Sunset Pier	1.58	.10	7.74	5.31	7.19	7.87	3.50	0	0	.01	0	0	33.30
699	Los Angeles 30th & Trinity	1.45	.18	6.37	2.61	11.17	7.33	3.41	0	T	0	.06+0		32.58
700	Los Angeles-Slauson & Long Beach Avenue	1.67	.25	6.48	3.12	10.88	7.65	3.98	0	.01	0	.08+0		34.12
701	Altadena-Mesa Alto Ranch	2.16	.86	7.61	1.51	14.34	9.44	6.73	.44	0	.31	.05	0	43.15
702	Arcadia Fisher	1.95	.72	----------Station discontinued----------										I
703	Glendale-McIntyre	1.86	.44	7.31	2.39	15.46	8.59	3.87	0	.01+	0	.01+0		39.94
704	Pasadena-Concha	2.43	1.14	7.22	2.42	18.34	11.78	6.34	.24	.11	.30	.09	0	50.41
706	Rivera-Hadley Ranch	1.77	.40	7.32	3.10	10.42	10.05	2.87	0	0	0	0	0	35.93
708	Glendora-Gordon Ranch	2.35	.79	7.73	2.51	9.42	12.96	3.62	.93	0	.04	0	0	40.33

Legend

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

TABLE VII

RAIN GAGE STATION LOCATION

SEASON 1940-41

Sta. No.	Type Gage	Quad. Index	Elev. U.S.G.S.	Observer	Location
2	S	22-25	1025	Mack Couchois	Upper Escondido Canyon
3	S	34-09	875	V. A. Ward & Son	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	E. C. Roth	.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
16C	S	37-35	900	Sam Costa	420 Pacheco Drive, Cahuenga Park
17	S	37-07	1400	City Fireman	Sepulveda Canyon at Mulholland Highway
18	S	36-73	815*	E. M. Sherman	Adohr Dairy, Ventura Blvd.
19	S	35-96	1520	R. L. Scott	Summit-Topanga Canyon Road
20B	S	36-84	986	L. A. W. D.	Girard Reservoir
21	S	36-02	876*	Carl Wyninger	Canoga Road, N. of Ventura Blvd.
22	SA	46-58	930	Paul Johnson	23800 Cohassett St., Bell Cn. San Fernando Valley
23-E	Scw	46-87	865	R. F. Melrose	East end Chatsworth Reservoir
24C	S	46-91	966	E. L. Johnson	10239 Jordan Ave., Chatsworth
25C	Sp	47-57	796	Jack Andrews	19055 W. Parthenia Sts., Northridge
27	S	48-64	944	W. D. Miller	14163 Van Nuys Blvd., Pacoima
28	S	46-32	950*	B. Hanneman	11030 Sepulveda Blvd., San Fernando
29B	S	47-01	1130	L.A.W.D. Operator	Mayerling St., at L.A.W.D. Pump Plant, Granada
30	Scw	59-20	1250*	W. C. Simonds	Sylmar Olive Packing Plant
32-E	S	58-61	1243	Milan A. Priest	Inland Highway, ½ 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	8-01"66	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 Malaga Cove Plaza, Palos Verdes Estates
43E	Sp	2-20	450	Comer Sims	Golf Club-Palos Verdes Estates
44	Sp 3"	1-05	125	A. Trittinger	Near Point Vincente Light House
46B-E	S	51-01	2050	D. J. Robertson	Big Tujunga Canyon, below Dam
46C	SA	51-10	2200	D. J. Robertson	West of Spillway, Big Tujunga Dam
47A	SA	51-22	3100	Mrs. F. F. Rogers	1.6 mile 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	F. J. Durand	352 Foothill, Flintridge
51	S	65-69	4650	Mrs. R. F. Hill	1 mile N. of Coldbrook Camp (Little Cienega)
52B	SA	51-44	3000	J. A. Percell	Switzers Camp; Long Cn. tributary to Arroyo Seco
53A	SA	62-89	3500	F. C. Employee	Sleepy hollow Rch, Coldwater Cn. 1 mile S. of Big Tujunga Creek
54	SwbA	63-55	4050	Mrs. L. G. Loomis	Near June. 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	Tex Strange	Upper Big Santa Anita Cn.(Sturtevant Camp)
60A	SA	52-69	2750	Le Roy Haynes	W. Fork Santa Anita Cn.-(Hoegee's Camp)
63B-E	S	41-01	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
65	SwbA	41-42	1160	Laura A. Hersey	575 N. Hermosa Ave., Sierra Madre
66	S	41-64	665	C. J. Pegler	415 E. Live Oak Ave., Sierra Madre
67B	S	41-65	560*	C. F. 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
70-E	SA	42-93	800	Roger Dalton	Mouth of San Gabriel Canyon
73	S	43-64	1200	Mrs. J.P. Englehart	Mouth of Englewilde Canyon
76B	S	54-57	1500	Ted Cooper	San Gabriel Dam #1 Camp

* #70 is 10 ft. above ground. #10 is 12 ft. above. #18 is 12 ft. above. #20A is 10 ft. above. #21 is 15 ft. above. #23 is 10 ft. above. #30 is 20 ft. above. #39B is 8 ft. above. #42 is 30 ft. above. #43A is 20 ft. above. #67 is 40 ft. above ground.

Sta. No.	Type Gage	Quad Index	Elev. U.S.C.S.	Observer	Location
82	S	67-11	7500	Greeley & Warner	Top of Table Mountain
83-E	SA	67-02	6860	Leslie E. Mac Donald	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
89-E	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	Dr. W. T. Whitney	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
96-E	S	31-90	1030	W. A. Pollard	Knoll above Caretaker's 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	August Bohm	Above U.S.C.S. Gaging Station, Fish Canyon
101	S	30-53	358	Hurst Bros.	S. E. cor. Merced and Orange St. W. Covina
102	S	31-29	475	C. Cullum	1 mile W. of Walnut P.O., S. of R.R. track
104	Sp	30-09	600	Bert Priest	S. end of 7th Ave., North Whittier Heights
105	S	16-64	215	Peter E. Sharpless	1226 Laurel Ave., Whittier
106	S	16-61	365*	E. W. Honeyman	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 Sorensen	126 S. Tyler St., El Monte Fire Station
109	S	41-37	490	Mamie L. Picard	2307 Naomi Drive, Arcadia
110	S	28-70	485*	J. W. Clay	N.W. cor 2nd & Main Sts, Rear of City Hall, Alhambra
111	Sp	40-48	660*	Norval B. Krug	N.W. cor. Mound & Mission Sts-City Hall, South Pasadena
114	S	14-09	64	C. E. Rosecrans	S. E. cor. 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.C.C.	8-70	68	C. 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 Boulevard
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	Mrs. Cy Cooke	Bouquet Cn. Rd., ½ mi. S. of Elizabeth Canyon Road
123	Sp	96-73	3250	Eli Munz	Between Elizabeth and hughes Lakes
124B	Acw	84-31	3000	R. W. Mathews	Bouquet Cn. W. of orchard & Reservoir 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 C. Klein	Elizabeth Lake Canyon 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 Boulevard
137B	S	38-48	1125	F. C. Employees	East side Curson Cn. near Mulholland Hwy.
139	Scw	27-54	300*	D. A. Lane & 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	41-62	1100	Al Freeland	Foot 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 miles below Dam
156	S	10-61	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 5"	41-93	690	Charles J. O'Connor	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

* #106 is 15 ft. above ground. #108B is 16 ft. above. #110 is 15 ft. above. #111 is 30 ft. above. #116B is 12 ft. above. #118B is 10 ft. above. #119B is 11 ft. above. #126 is 10 ft. above. #136B is 20 ft. above. #139 is 85 ft. above. F. C. Roof is 75 ft. above #140 is 20 ft. above. #168 is 6 ft. above ground.

TABLE VII (Continued)

Sta. No.	Type Gage	Quad. Index	Elev. U.S.C.S.	Observer	Location
169	Sp	41-63	700	Al Freeland	621 Sierra Madre Ave. S. M. Pump Plant
170	S	29-15	320	J. A. Reifer, Jr.	3623 Delta St., San Gabriel
171	S	41-35	635	W. E. Comerford	South Michillinda near L. 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 Sacremento St., Altadena
177B	S	51-19	1275	Mrs. Essie Jones	4619 No. Orange Knoll, La Canada
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
179A	Swb	41-42	1110	Arthur N. Carter	N. of upper end Baldwin Ave., Sierra Madre
179B	SA	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. Salveil	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 Park
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	C. C. Moisington	S.C.E. Co. Sub Sta. Valley Blvd. 1.5 mile 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
209	S	62-49	2600	F. C. Employee	Big Tujunga at Lucas Creek Edison Patrol Station
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. L.A.
215B	S	9-71	73	Cap't. K.L. Grogan	917 E. Flower St. Bellflower Fire Station
216	Swb	39-43	620	J. M. Jones	318 E. Randolph St. Glendale
217	Sp 3"	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	58-99	1375	Louis Coronada	Keiner Ranch, Pacoima Wash
222	Scw	38-10	732	Station Operator	11845 Vose St., No. Hollywood Generating Plant
225B-E	S	43-83	1575	Paul Keiser	Caretaker's house below Big Dalton Dam
224	S	4-03	30*	W. N. Beach	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	40-99	487	Geo. B. Gleason	424 N. Milton Ave., San Gabriel
228B	Ap	26-02	255*	C. Valle Miestra	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 Street
235B	SpA	41-10	2550	Co. F.S. Employees	Henninger Flats, Forestry Nursery, Mt.Wilson
236	S	59-68	1455	V. H. Craig	Craig Ranch, San Fernando. N. end Hubbard Avenue
237	Scw	37-49	725	L.A.W.D. Employees	Stone Canyon Dam
238	Scw	38-68	750	L.A.W.D. Employees	Hollywood Dam
240	S	60-67	1700	F. J. Wright	4.3 mi. up Little Tujunga Canyon, from old Foothill Boulevard
241	Sp	4-03	30*	C. Bower	Utilities Bldg., Long Beach
242	Sp 3"	32-20	1036	W. O. Hathaway	P.E. R.R. Station, La Verne

* #224 is 50 ft. above ground. #226 is 15 ft. above. #228B is 30 ft. above #241 is 38 ft. above ground.

Sta. No.	Type Gage	Quad. Index	Elev. U.S.C.S.	Observer	Location
246B	S	26-18	65*	Bus Depot Employee	Cor. Jefferson & Duquesne Sts., Culver City
247	S	15-93	151	J. S. Robinson	253 Burke St., Rivera
248-E	S	23-12	890	Ralph Miehlke	W. Slope Saddle Peak, above Crater Camp
249	S	84-48	2400	W. A. Bodrill	Mint Canyon Rd. - The Oaks Garage
250B	S	73-85	2555	Joe Schadler	Soledad Canyon - 2 miles West of Acton
250C	S	74-04	2550	Wm. Carrington	Soledad and Arrastra Cn. Roads., Acton
251	S	50-57	1665	H. A. Scheuner	2905 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	D. T. Herrera	Ext. Trazido Rd & S. edge of Rowland Ranch
255	S	31-55	770	L. P. Groff	State Narcotic Hospital, near Spadra
256A	S	32-44	862*	Station Operator	S.P. R.R. Depot, Pomona
256B	S	32-44	852*	Chief A.B. Cooke	5th and Thomas St. Pomona
257	SA	30-17	750	J. Kladler	2650 W. Commonwealth Ave., Griffith Park Nursery
258a	C.C.C.	30-07	1100	Louis Strauss	W. of Tunnel, Pt. of Ridge, Griffith Park
258b	C.C.C.	39-07	1400	Louis Strauss	South Slope of Mt. Pollywood " "
258c	C.C.C.	39-06	1600	Louis Strauss	North Slope of Mt. Hollywood " "
259B	SA	46-92	1249	Geo. M. Cuthbert	21080 Mayon Dr., Co. F.S. Twin Lakes Park
261-E	SA	73-30	3075	H. F. Mellen	Escondido Canyon, N. Branch, near Acton
263A	S	32-56	770	Milton Prater	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	F. J. Weisel, Jr.	Anaheim Rd., 1 mi. N. of Whittier Blvd., Puente Hills
266	Sp	17-06	253	C. A. Hewitt	1234 Santa Gertrudes Ave., Whittier
268-E	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	Bert Walker	Diamond Bar Ranch, Horse Camp
270	S	15-46	104	Clyde Morrow	County Farm #1, 741 Old River School Road
271	S	0-63	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 Rd. just E. of Summit
275	Sp 3"	40-67	670	C. L. Brown	Huntington Estates, San Marino
277	S	108-17	3700	Clarence Scates	Sawmill Mt. Rch., 8.9 mi. N.W. of Lake Hughes
278B	S	26-06	203*	H. M. Hughs	2205 W. Adams, Los Angeles
279B	Sp	41-21	1500	Ross W. Lockhart	Kinneloa Rch., E. Side Eaton Wash
280B	SA	40-01	1325	Station Employees	1028 Inverness Dr., Flintridge Fire Station
283a	ScoA	69-67	5740	F. Richards	Crystal Lake Co. Park,-East Pine Flat
283b	Sco	65-68	5370	F. Richards	Crystal Lake Co. Park,-West Pine Flat
284	S	59-22	1480	John Wood & D.W. Pollock	Placerita Canyon-formerly Dulin Ranch
285C	S	25-11	1025	Martin Bullinger	Mt. St. Mary's College-Santa Monica Mts.
286B	C.C.C.	49-22	1120	John Hermann	11332 Osborne Ave., San Fernando
287	Sp	43-36	782*	H. C. Warren	234 N. Michigan Ave., Glendora
289	Aco	15-52	140	L. A. Co. Surveyors	Compton & Aloneria Rd. just N. of Baker Ave.
290	Aco	28-75	375	L. A. Co. Surveyors	La Merced Hills-Garfield Ave., at S.C.E. Co. Sub Station
291	Aco	14-45	121	L. A. Co. Surveyors	96th & Central Sts., Los Angeles
292-E	Scw	36-85	1000	John H. Cowen	Crest of Encino Dam - 1 mi. S. W. of Encino
293	Scw	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 Plt. near Mt. Wilson Trail
295F	S	39-34	530	Morris Kennedy	415 W. Lexington Ave., Glendale
298	S	105-40	3030	J. L. Ralphs & Hamilton	Gorman, Ridge Route N.W. 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. N. E. 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. Fk. Arroyo Sequis, S. of Road
306A	S	21-56	10	Mrs. May Bozeman	Roosevelt Hwy., Trancas Canyon
307	Sp	56-73	6500	Samuel Mac Intyre	Snow Crest Camp Rear of Tavern
308	Sp	56-96	8300	M. S. Delker	Kelly's Kamp, 1½ mi. N. E. of Ontario Peak

* #246B is 10 ft. above ground. #256 is 12 ft. above. #256B is 30 ft above. #269A is 10 ft. above. #278B is 8 ft. above. #287 is 15 ft. above. #300B is 5 ft. above ground.

TABLE VII (Continued)

Sta. No.	Type Gage	Quad. Index	Elev. U.S.C.S.	Observer	Location
309	Sp	45-05	1768	Kenneth B. Forbes	4064 Monte Vista Ave., Padua Hills
311b	SpAp	40-43	918	Pasadena Water Dept.	1083 Mentone St., Pasadena
312	Sp	42-05	675	F. F. Kammerdiener	1-mi. N. W. Azusa, 0.4 mi. W. of West end Sierra Madre Ave.
315	Sp	43-15	665	J. M. Boggman	300 ft.W.of Ben Lomand Av.on Sierra Madre Av
317	Sco	67-12	6750	L. MacDonald	.6 mi. SE of Main Rd. near Swartout--Valley Park Entrance
318	Sco	66-70	6075	Leonard M Lurlan	So. edge Jackson Lake
319	Sco	66-81	5900	" "	Big Pines Pk., Apple Tree Flat
320A	S	30-93	900	C. W. Burroughs	2816 E. Chevy Chase Blvd.
321C	S	96-72	3400	Co. Forestry Employees	Guard Sta. bet. Elizabeth & Hughes Lakes
322	CCC	110-48	2600	Eric Munz	Lancaster-Bailey Rd.14 mi.W.of Lancaster
326B	S	24-43	500	W. W. Culp	2 mi. in Santa Ynez Cn. from Beverly Blvd.
334E	SA	53-35	2335	F. C. Employee	San Gabriel Dam #2-W. Fk. San Gabriel River
336	Scw	39-39	455	Res. Caretaker	Silver Lake Reservoir, Los Angeles
338	Swb	52-47	5650*	J. O. Rickox	50 ft. S. of 60 in. Telescope, Mt. Wilson
338	A	52-47	5650*	J. O. Rickox	50 ft. S. of 60 in. Telescope, Mt. Wilson
338B	SwbA	52-57	5709	V. W. Kellogg	½ mi. W. of 60 in. Telescope, Mt. Wilson
339	Sp	31-49	533	Packing House 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	L. Wood	1544 N. Benson St., Upland
343	Sp	16-04	141	T. 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. McKelvey	.6 mi. NNE of Camp Bonita, E.Fk.San Gab. Riv
349B	S	84-46	1530	Mrs.C.M. Schmidt	Camp Rincon.1.3 mi.W.of Forks. San Gab. Riv.
351E	Swb	86-82	2648	H. P. Schoiller	Ave.Q 7 St.bet.E.8 & E.9 Sts.S.Side-Palmdale
352	SA	21-21	1530	L. Desena	4 mi. from Coast on Decker Road
353	Sp	42-26	458	R. T. Chew	Duarte Rd. at Buena Vista St. Duarte
354E	S	56-27	4527	M. H. Smith	Divide bet. Cow & San Antonio Canyons 1-½ mi. S.W. of Camp Baldy
355	S	27-01	315*	Frank S. Trueblood	855 N. Vermont Ave., Los Angeles
356	SpA	31-06	675*	W. P. Collins	Spadra Ofc. Diamond Bar Ranch, 0.5 miles S. E. Pomona Blvd.
357	Scw	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. N.W. Devil's Punch Bowl
360A	S	50-23	2150	G. W. Hutton	Haines Canyon Rock Crusher
360B	GG Spl H	50-23	2196	F. C. Employee	Haines Canyon Debris Basin
362	Sp	40-23	1025	J. D. Hoffman	1475 El Mirador Drive, Pasadena
364	Swb	50-23	2450	F. C. Employee	50 ft.E.of USGS Caging Sta. Haines Creek
366	S	77-45	3740	L. F. Noble	¼ 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	Scw	82-76	1580	Sta. Operator	San Francisquito Cn.11 mi. NE of Saugus
373	SA	50-76	2310	L. R. Fleitz	5613 Canyon Side Dr., Briggs Terrace
375B	S	39-16	650	Charles Allen	Griffith Park Zoo, Los Angeles at new house
377C	Sp	V-Co	1050	H. J. Kircher	N.W. edge of Lake Sherwood-Ventura County
378	Sp 3"	51-09	1350	C. J. Skow	4874 Commonwealth Ave. La Canada
379B	S	54-96	1600	F. C. employee	East Fork, 2.7 mi. above confluence E. & W. Fks. S. Gab. River
380	SA	28-11	553	Geo. P. Morgan	4566 Badillion St., El Sereno
381B	S	25-08	100*	Paul F. Knief	1245 - 4th St., Santa Monica
384B	S	40-26	825	F. B. Laverty	502 Lake View Road, 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	V. C. Johnson	227 S. Hollenbeck Ave. Covina
388B	S	9-40	71	Fire Station employee	210 N. Paramount Blvd., Clearwater
389	Sp	43-35	825	Frank E. Brown	Rear of Ranch, cor. Penn and Sierra Madre Ave., Glendora
390B	Sp	43-21	1210	Pasadena Water Dept.	Morris Dam, San Gabriel Canyon
391	Sp	29-08	205	Mrs. Lola Cotton	117 W. Washington Ave. Montebello
392B	Sp	40-71	1335	C. W. Barton	1330 Hull Lane, Altadena
394	S	40-28	620	Robert E. Lindsay	6425 Elgin St., Highland Park
395	S.	59-57	1425	R. N. Loomis	Olive View Sanitarium, San Fernando
396	Sp	48-63	1005	W. H. Bowlus, Jr.	13761 Payton Avenue, San Fernando
397	Sp	50-25	1838	Philip Berue	9743 Tujunga Canyon Rd. at Summit

* #336 Standard and automatic are 6 ft. above ground. #355 is 20 ft. above #356 is 10 ft. above. #381B is 1½ ft. above ground.

Sta. No.	Type Gage	Quad. Index	Elev. U.S.C.S.	Observer	Location
398B	Sp	54-85	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	A. V. Thomas	10.5 Mi. NE of Chilao
403	Sp	40-90	1360	F. C. Lindvall	1860 Allen Drive, Altadena
404	S	39-54	653	John Opid	811 N. Glendale Ave., Glendale
405	S	73-06	2250	James E. Nelson	11.7 mi. E of Solemint on Soledad Cn. Rd.
406	S	42-88	505	Geo. E. Love	624 W. Broadway, W. Azusa
407	S	58-82	1325	Ray McCormick	17700 San Fernando Road, 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. ¼ mi. S. of Whittier Blvd.
412B	Sp	40-57	755		E.of Euclid Ave.100 ft.S. of Chio, 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	D. W. Boore	Rd. of Pacoima Cn. on Santa Clara Ridge, Mt. Gleason
420A	S	74-07	3100	D. W. Boore	3.3 mi. S. of Acton on Mt. Gleason Truck Trail
420B	S	74-07	3100	D. W. Boore	3.9 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 Canyon 1.1 mi. off Angeles Forest Hwy.
425-E	SA	54-49	1470	F. C. Employee	East Abutment, San Gabriel Dam #1
427	S	15-64	127	L. W. Jordan	751 W. Florence Ave. Downey
428	Sp	40-90	1340	E. J. Laity	2323 Rubio Drive, 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. Dept.
431	S	26-48	150	J. M. Donovan	3870 S. La Brea Ave., Baldwin Hills
432	Swb	52-89	2035	R. B. Rosford	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 Mt. Crags Road
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 Drive, 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. Nelan	Palmdale, County Road, Maint. yard
442	S	78-53	3810	E. A. Eberle	Near Mescal Creek on Fort Tejon Rd.-Desert
443	S	21-80	1725	W. A. Brandenberger	Jct. Latigo Cn.Rd. and Kulholland Hwy.
444	S	2-52	475	C. C. Miller	"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	G. A. Tidrick	5.5 mi. above Devonshire St.in Aliso Cn.
447	S	23-65	138	T. E. Cheney	0.7 mi.from Coast in Los Flores Cn.at Co. F.S. Guard Station
448A	CCG	72-03	1875	J. V. Witt	Mint Canyon, 5 mi. N.of Solemint
448B	CCC	71-93	1805	Louis Weingarten	Mint Canyon 4.7 mi. N. of Solemint
449	GG Spl H	41-03	902 *	F. C. Employee	Eaton Dam, Altadena
450	S	40-26	770	Carl A. Wohl	5052 Monte Bonita St., Eagle Rock
451	S	69-83	1066	W. M. Kleinsmith	24819 Route #99, Castaic

* #415 is 10 ft. above ground. #417 is 10 ft. above. #436A is 23 ft. above. #436B is 15 ft. above. #437 is 17 ft. above. #449 is 13 ft. above ground.

TABLE VII (Continued)

Sta. No.	Type Gage	Quad. Index	Elev. U.S.C.S.	Observer	Location
452	CCG	38-05	637	W. N. Thayer	3817 Mound View Ave., Studio City
453	GG 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	2600	C. D. Williamson	Yoto Kyo Indian Museum 22 mi. E. 3 mi. S of Lancaster
457-B	S	27-32	400	Geo. Carlson	425 Zalvideo St. Los Angeles
458	S	22-08	115	W. M. Kleinsmith	Roosevelt Hwy. E. of Walnut Creek. Forestry Guard Sta.
459	S	62-95	3600	R. G. Kent	County Det. Camp. #3 Mill Creek
460	S	76-65	4265	L. Matey	.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. of 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.F.S. 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
468-B	S GG	50-77	1600	F. C. Employee	Pickens Debris Basin
469	Sp	27-14	235	R. F. Crisler	1015 Magnolia Ave. Los Angeles
X-3A	S	24-82	500	W. Miller	Rustic Canyon Fire Area, 2100 Rustic Cn. Rd.
X-3B	S	36-77	1900	L.A.City Fire Sta.	Employee Rustic Canyon Fire Area, nr. Mulholland Hwy.
X-3C	S	24-74	420*	W. G. Robertson	15015 McKendree Ave. Pacific Palisades
X-4	SA	58-15	1700	C. 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. U.S.F.S.
516	Sp 5"	O-Co	75	Nelson Hardware	Employee 932 Grand Ave., Buena Park
529	S 3"	S.B.Co	728	J. Crane	Central and Chino Ave., Chino
530	Sp	V -Co	650	Guy N. Turner	Conejo Ranch, Ventura County
557	Sp 3"	O -Co	300	A. Chewning	La Habra, Citrus Assn. 305 S. Hiatt St.
564	Swb	77-50	3400	F. J. Lecher	0.7 mile So. of Llano
577	Awb	27-54	313*	U S W B	New Federal Bldg. N. Spring St. L.A.
580B	S	51-07	4450	J.W. Wurmser	Mt. Lowe in Grand Canyon
589	Sp	44-25	1400	Mrs. E.P. White	Mouth of San Limas 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
624	Sp 3"	58-72	1270	A. B. Thatcher	Southern Pacific R. R. Depot, Newhall
697	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	40-65	864	M. J. Sievert	City Hall, Pasadena
611	S	40-92	1052	W. Allen	2057 Pepper Drive, Altadena
612	Sp	51-39	1161 *	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	960	J. M. Fuller	1 mi. W. of Santa Susana, Wolff Rch.Ventura County
634	Sp	25-08	80	Kolesoft	City Hall, Santa Monica
656B	CCG	46-83	1265	John Donner	10921 O'Dell Ave., Sunland
671B	Sp	27-94	325	Station Operator	1006 N. Breed St., Los Angeles, SCE Co.Sub Station
672	Sp	40-14	1000*	" "	N. Figueroa St., N. of Colorado Blvd. SCE Co. Sub. Station
673	Scw	4-85	15	" "	Seal Beach,LA power plt.San Gab.Riv.at Ocean
674	Sp 3"	8-85	32	Operator Am.Beet Sugar Co.	600 N. Dominguez; 900 E. Alameda
676	Sp 4½"	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	40-27	910	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 Av. Arcadia
682	Sp	51-17	1900	Station Operator	Gould Sub Sta. Angeles Crest Hwy.
683	Sp	51-59	2110	U.S.F.S.Employees	Sunset Guard Sta. bet. Millard & West Ravine Canyon
684	Ap	41-65	518	U.S.F.S.Employees	Arcadia Warehouse, U S F S
685B	Sp 3"	40-59	557	M. F. Marsh	1934 Milan Ave. So. Pasadena
686	Sp	43-64	1175	N. D. Meacham	Big Dalton Spreading Grounds
689B	Sp 6"	43-66	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. C. Ulrich	Tujunga Canyon, Valhalla Rch. 2.6 mi. above F. C. Gaging Sta. #215
696	Sp	41-21	1400	Robert Casamajor	Pasadena Glenn - L. A. County
697	Ap Sp	12-21	6*	A. J. Bernal	Sunset Pier, Venice
699	Aco	27-30	205	St. Drain Div. Employee	30th & Trinity St. Los Angeles
700	Aco	14-61	176	" " " "	Slauson & Long Beach Ave. Los Angeles
701	Sp 3"	41-22	1300	Ranch Employee	Mesa Alta Ranch, Altadena
702	Sp	41-36	570	R. L. Fisher	Michillinda Ave. near California, Arcadia
703	Sp	32-54	603	P.J. McIntyre	3015 N. Adams, Glendale
704	Sp	40-70	1655	H. F. Jerauld	939 Concha St., Pasadena
706	Sp	15-92	155	W. H. Williams	Hadley Ranch, Rivera
708	Sp 5"	43-66	878	G. Clarke	¼ mi. E. of Valley Center Ave. and Foothill Blvd. Glendora

* #453 is 24 ft. above ground. #X-3B is 14 ft. above #577 New Federal Bldg. is 235 ft. above. #612 is 10 ft. above. #672 is 120 ft. above. #691 is 15 ft. above ground. #697 is 35 ft. above sea level.

LEGEND REGARDING GAGE TYPES 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.

CCG - - - 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 wit. special Henson type collector ring.

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.

Dial - - Gage registers cumulative rainfall only.


LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
LOCATION OF
ACTIVE RAINGAGES
AND
ISOHYETAL MAP
SEASON 1940-1941
LOS ANGELES COUNTY
APPROVED BY
ACTING CHIEF ENGINEER
SUBMITTED BY
CHIEF HYDRAULIC DIVISION
RECOMMENDED BY
ASS'T CHIEF ENGINEER
DATE
2-H 55
MAP I
LEGEND
Flood Control Standard Gages.
Flood Control Standard & Automatic Gages.
Flood Control Standard Gage Active-Automatic Gage Inactive.
Flood Control Automatic & Private or U.S Weather Bureau Standard.
United States Weather Bureau Standard Gage.
United States Weather Bureau Automatic Gage.
Private Gage, Standard Type.
Private Gage, Automatic Type.
Capital Letters (A, B, etc.) Following a Station Number Denote Successive Locations of a Gage in a Locality
Lower Case Letters (a, b, etc.) Following a Station Number Denote Several Gages Operated Simultaneously by a Single Observer.
"E" At a Station Denotes a Flood Control Evaporation Tank
SCALE
ANTELOPE VALLEY
MOHAVE DESERT
ROSAMOND LAKE
SAN GABRIEL MOUNTAINS
SANTA SUSANA MOUNTAINS
SANTA MONICA MOUNTAINS
PACIFIC OCEAN
LIEBRE MOUNTAIN
SAWMILL MOUNTAIN
PORTAL RIDGE
SIERRA PELONA
Gorman
Sandberg
Neenach
Fairmont
Del Sur
Lancaster
Palmdale
Little Rock
Llano
Roosevelt School House
Lovejoy Buttes
Lovejoy Springs
Grey Butte
Vincent
Acton
Soledad Canyon
Castaic
Saugus
Newhall
San Fernando
Chatsworth
Zelzah
Owensmouth
Reseda
Van Nuys
Lankershim
Tujunga
Sunland
PASADENA
Sierra Madre
Arcadia
Monrovia
Azusa
Glendora
Alhambra
San Gabriel
El Monte
HOLLYWOOD
LOS ANGELES
Sawtelle
Santa Monica
Venice
Culver
BALDWIN HILLS
Inglewood
Huntington Park
Montebello
Whittier
Puente
Downey
Norwalk
El Segundo
Gardena
Compton
Bellflower
Artesia
Redondo Beach
Torrance
DOMINGUEZ HILLS
LONG BEACH
San Pedro
PALOS VERDES HILLS
PUENTE HILLS
SAN JOSE HILLS
POMONA
Claremont
PUDDINGSTONE DAM
MORRIS DAM
SAN GABRIEL DAM NO 1
SAN GABRIEL DAM NO 2
PACOIMA DAM
TUJUNGA DAM
DEVILS GATE DAM
BIG SANTA ANITA DAM
BIG DALTON DAM

EVAPORATION RECORDS

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Hydraulic Division

REPORT ON EVAPORATION

Season 1940-41

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 reading. Most stations include maximum and minimum thermometers, as standard equipment and some stations are further equipped with anemometers and psychrometers, to make a more nearly complete weather station.

The minimum seasonal total for most of the district's evaporation stations was recorded during this season, due to the unusual number of cloudy days.

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

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

Number of Stations:

The District maintained 21 land evaporation stations and 2 lake pans during the season. 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 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 the District, are equipped with hook gages for reading the evaporation.

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 identical.

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 - Acton	77.190	
Maximum Monthly Amt. Inches -- Acton	12.215	in July
Maximum Daily Amt. Inches - Encino Reservoir	0.550	July 20 & Aug. 13
Minimum Seasonal Amt. Inches - Opid's Camp	35.450	
Minimum Monthly Amt. Inches - Opid's Camp	0.035	in Jan.

The next largest seasonal evaporation measured in the District's pans was at Encino Reservoir and amounted to 75.020 inches.

The next lowest seasonal evaporation measured in the District's pans was at Puente Hills and amounted to 38.205 inches.

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.

Table II summarizes monthly evaporation records for stations for their respective periods of record. The maximum and minimum monthly totals of each station for period of record are underlined.

TABLE I

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

HYDRAULIC DIVISION

EVAPORATION RECORDS

IN INCHES Season 1940-41

Sta. No.	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
23	Chatsworth	6.220	5.730	3.080	1.755	1.615	2.900	3.460	7.250	6.925	8.925	7.530	6.750	62.140
32	Newhall	6.900	5.245	2.620	1.275	1.200	2.650	3.625	6.715	6.790	8.305	7.215	6.525	59.065
33	Pacoima Dam	7.115	6.995	4.580	2.800	2.355	3.930	3.790	7.350+	5.650	8.645	6.640	6.085	65.735
46	Big Tujunga	6.060	3.860	1.914	1.170	1.085	2.235	2.515	6.725	7.385	10.250	10.550	9.800	63.849
57	Opids	2.550	1.095#	0.305#	0.035#	0.090	0.790#	1.965	5.425	5.860	7.395	5.955	3.985	35.450#
63	Santa Anita	5.310	4.745	3.470	2.380	1.660	3.255	2.780	5.010	4.325	6.285	5.385	5.305	49.910
70	Dalton	7.320	5.010	3.555	2.335	2.115	3.530	4.175	6.165	6.300	8.405	7.411	6.515	62.836
83	Big Pines Pk.	5.200	1.625#	0.625*	N.R.	N.R.	N.R.	N.R.	4.930*	7.735	10.225	8.375	7.515	47.530*
89	San Dimas Dam	7.955	5.845	3.825	1.745	2.440	2.690	2.795	6.090	4.635	8.850	8.400	8.225	63.495
96	Puddingstone	6.275	4.925	5.025	3.725	2.575	3.660	3.650	5.950	5.950	8.935	7.775	5.625	64.070
223	Big Dalton	5.025	2.750	1.738	1.450	0.775	1.875	2.550	5.175	5.225	8.500	6.325	5.650	47.038
246	W. Saddle Pk.	4.255	2.975	1.625	1.410	1.445	1.865	2.500	4.800	4.550	5.425	5.000	4.430	40.270
261	Acton (near)	6.645	5.285	3.565	2.295	2.105	3.570	4.225	8.320	9.605	12.215	10.320	9.040	77.190
265	Puente Hills	3.668	2.422	1.375	0.940	0.445	1.845	2.545	4.760	4.500	6.010	5.320	4.335	38.205
268	Torrance	4.580	2.300	1.205	0.747	0.745	2.944	4.125	7.875	7.250	7.815	6.980	6.545	53.081
292	Encino-F.C.	7.515	5.775	3.130	1.920	1.650	3.510	4.445	9.295	8.880	10.430	9.995	8.475	75.020
	Encino USWB	6.73	4.21	1.92	1.53	1.12	3.33	2.80	7.82	8.02	9.66	8.22	6.98	62.34
	Encino Lake	5.83	5.04	1.563	1.37	0.90	2.35	2.50	6.97	7.35	8.73	7.44	6.89	57.023
321	Pine Cn. Patrol	4.705	2.395	2.105	1.190	1.215	2.910	2.920	6.600	7.740	10.060	9.540	7.550	59.010
334	San Gab. Dam # 2	7.390	4.160	2.230	1.590	1.425	3.200	3.910	6.965	8.010	11.560	9.955	8.865	69.260
	S.G. Dam # 2 Lake	N.R.	N.R.	1.785+	1.511	1.195	2.898	3.275	5.875	6.405	8.845	8.105	7.845	47.739*
347	Baldwin Park - F.C.	5.050	2.833	2.017	1.407	1.468	2.965	3.515	7.035	6.655	8.505	7.300	6.395	55.145
	" " USWB	5.01	2.98	2.34	1.88	2.07	3.63	4.29	7.48	6.51	8.41	6.91	6.12	57.63
	" " 6 ft.	4.36	2.53	1.67	1.33	1.48	2.70	3.34	5.89	5.69	7.24	6.05	5.49	47.87
	" " 2 ft.	5.09	2.92	1.93	1.47	1.56	2.96	3.69	6.85	6.42	8.22	7.00	6.46	54.57
425	San Gab. Dam #1	8.390	5.345	3.375	2.540	2.065	3.595	4.440	7.530	7.635	10.870	9.027	7.975	72.787
	" " Dam #1 Lake	5.325	3.650	2.080	1.925	1.525	2.485	3.415	6.945	7.005	8.695	7.950	5.865	56.965
441	Palmdale	3.863+	2.100	1.610	1.495	1.665	2.730	2.735	5.795	7.875	10.320	8.210	7.180	55.578

TABLE I

EVAPORATION RECORDS

Legend

+---------- Partly estimated.
<---------- Incomplete record.
#---------- Records incomplete-partly frozen.
N.R.------ No record.

TABLE II

EVAPORATION RECORDS

MONTHLY EVAPORATION AT CHATSWORTH RESERVOIR

STATION #23

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Mean
1931-32	7.475	5.245	3.686	4.095	3.302	5.900	7.235	7.615	8.410	10.100	10.350	7.355	80.768	6.731
1932-33	7.655	7.600	4.310	4.688	5.425	6.605	5.705	8.055	8.300	10.025	9.525	6.925	84.818	7.068
1933-34	6.690	8.125	2.500	5.460	2.565	5.325	7.925	9.400	6.685	10.425	9.550	8.680	83.330	6.944
1934-35	6.415	3.840	3.730	3.131	4.320	2.835	3.670	4.900	7.025	10.195	9.850	8.425	68.386	5.699
1935-36	7.680	4.865	4.585	4.985	2.165	4.735	5.140	8.425	9.540	10.625	10.170	8.460	81.375	6.781
1936-37	6.105	6.700	3.460	2.820	2.440	4.285	6.120	5.460	6.675	10.075	9.750	8.875	73.065	6.089
1937-38	6.425	3.775	5.265	5.870	2.625	4.540	5.775	7.680	7.945	9.600	9.725	8.965	78.190	6.516
1938-39	6.645	7.485	4.195	3.465	3.830	3.185	5.045	7.315	8.900	10.225	9.935	8.380	78.605	6.550
1939-40	7.470	3.635	3.415	1.960	2.670	3.705	4.625	7.590	8.200	11.350	10.125	7.675	72.430	6.035
1940-41	6.220	5.730	3.080	1.755	1.615	2.900	3.460	7.250	6.625	8.625	7.530	6.750	62.140	5.178
Total	68.780	57.000	38.226	38.279	27.510	44.015	54.710	73.690	78.905	101.545	96.510	80.490	763.107	63.592
Mean	6.878	5.700	3.823	3.828	2.751	4.402	5.471	7.369	7.891	10.155	9.651	8.048	76.311	

MONTHLY EVAPORATION AT NEWHALL

STATION #32

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Mean
1931-32	6.300	4.145	2.825	3.515	2.490	5.287	7.110	6.295	9.010	11.425	10.305	8.290	76.987	6.415
1932-33	7.165	6.315	3.835	1.970*	3.485	4.120	5.400	7.455	8.145	10.385	10.320	7.270	75.865*	6.322
1933-34	6.365	5.745	2.305	3.600	2.440	5.345	6.630	8.355	5.905	9.840	9.600	8.375	74.505	6.209
1934-35	6.235	3.930	3.155	2.585	3.985	3.750	4.695	6.830	8.900	9.705	9.485	8.085	71.340	5.945
1935-36	7.005	4.030	3.765	3.705	2.630	4.900	4.950	8.555	9.370	10.135	10.265	8.455	77.765	6.480
1936-37	6.105	5.710	3.230	1.995	2.145	3.365	6.325	5.835	7.515	8.545	9.595	8.380	68.745	5.729
1937-38	6.795	3.885	3.520	3.545	1.750	3.580	5.160	6.990	6.565	9.325	9.185	8.180	68.480	5.707
1938-39	6.540	6.305	4.185	3.270	3.620	4.280	6.270	7.485	7.955	9.325	9.570	8.400	77.205	6.434
1939-40	6.500	4.670	3.580	2.585	2.450	4.095	4.480	6.740	8.225	9.798	8.675	8.350	70.148	5.846
1940-41	6.900	5.245	2.620	1.275	1.200	2.650	3.625	6.715	6.790	8.305	7.215	6.525	59.065	4.922
Total	65.910	49.980	33.020	28.045	26.195	41.372	54.645	71.255	78.380	96.788	94.215	80.300	720.105	60.008
Mean	6.591	4.998	3.302	2.805	2.620	4.137	5.465	7.125	7.838	9.679	9.422	8.030	72.011	

MONTHLY EVAPORATION AT PACOIMA DAM

STATION #33

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Mean
1930-31	6.070	7.100	4.460	2.720	2.980	7.610	6.500	5.180	6.850	9.540	8.580	8.640	76.230	6.352
1931-32	7.280	5.030	2.510	2.330	1.915	5.435	6.565	5.280	7.815	9.285	9.045	7.830	71.220	5.935
1932-33	7.290	7.810	3.355	3.415	4.320	5.640	4.940	5.725	6.210	9.120	8.105	6.735	72.665	6.055
1933-34	6.895	7.280	3.460	4.620	2.790	4.990	6.015	6.270	5.675	7.695	7.265	7.690	68.645	5.720
1934-35	6.195	3.740	3.330	2.285	3.115	2.780	3.165	3.800	4.725	6.780	7.415	6.665	53.995	4.500
1935-36	5.810	4.290	3.610	3.340	1.930	4.220	4.530	5.510	5.515	6.705	7.110	7.985	60.555	5.046
1936-37	5.560	5.650	3.080	.735#	1.940	3.825	5.100	3.925	4.850	7.170	6.585	6.990	55.710#	4.642
1937-38	5.590	3.285	3.045	3.185	1.835	3.215	4.215	3.965	3.915	6.090	6.700	7.485	52.505	4.375
1938-39	6.750	10.025	5.745	4.670	4.230	4.270	6.215	6.330	8.120	8.885	8.060	7.760	81.060	6.755
1939-40	8.750	6.845	6.175	2.965	3.410	4.870	4.685	6.375	6.690	10.160	7.400	6.930	75.255	6.271
1940-41	7.115	6.995	4.580	2.800	2.355	3.930	3.790	7.150+	5.650	8.645	6.640	6.085	65.735	5.477
Total	73.305	68.030	43.350	33.065#	30.820	50.785	56.020	59.510	64.015	90.075	82.905	80.795	733.575	61.131
Mean	6.664	6.266	3.940	3.005	2.801	4.616	5.092	5.410	5.819	8.188	7.536	7.345	66.688	

Note: Evaporation is excessive for November 1938 to May 1939 inclusive due to a leaky tank.

MONTHLY EVAPORATION AT BIG TUJUNGA DAM

STATION #46

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Mean
1931-32	6.000	3.300	.525	.475	.675*	5.425	5.950*	6.225	8.025	10.600	9.975	8.675	65.850*	5.488
1932-33	7.075	6.400	2.675	2.125	3.900	5.378	4.945	5.850	8.475	10.850	9.325	7.875	74.873	6.239
1933-34	6.775	5.225	1.800	3.125	2.400	5.200	6.450	7.575	6.275	9.275	8.725	8.935	69.560	5.797
1934-35	5.325	2.830	1.900	1.575	2.350	2.450	2.950	4.500	6.050	8.000	7.500	7.000	53.330	4.444
1935-36	5.675	2.975	2.585	2.450	1.250	4.025	4.350	6.900	7.650	8.800	9.250	7.575	63.485	5.290
1936-37	5.175	3.875	1.650	.580	1.275	2.650	4.500	5.200	7.225	9.175	9.025	8.325	58.655	4.888
1937-38	5.925	3.425	2.825	2.525	1.525	2.075	3.660	5.440	7.150	9.175	9.225	8.030	60.980	5.082
1938-39	5.955	5.555	2.875	2.070	2.510	3.000	4.700	5.825	8.325	9.675	8.860	6.700	67.850	5.654
1939-40	4.875	3.875	2.585	1.695	1.920	3.330	4.010	6.115	8.825	10.775	10.150	7.575	65.730	5.477
1940-41	6.060	3.860	1.914	1.470	1.085	2.235	2.515	6.725	9.385	10.250	10.550	9.800	63.849	5.320
Total	58.840	41.320	21.334	18.090	18.890	35.768	44.130	60.455	76.685	96.575	93.585	78.490	644.162	53.680
Mean	5.884	4.132	2.133	1.809	1.889	3.577	4.413	6.046	7.669	9.658	9.359	7.849	64.416	

MONTHLY EVAPORATION AT OPID'S CAMP

STATION #57

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Mean
1931-32	2.136	1.375	1.775	Froz	Froz	1.822	3.310	4.300	5.368	7.940	7.680	5.450	41.156#	3.430
1932-33	3.060	2.025	.255#	Froz	Froz	.010#	2.460	3.460	4.955	6.825	6.715	5.100	34.965#	2.914
1933-34	2.985	8.550	.100	2.050	2.700	.625	3.815	5.265	5.220	6.845	6.500	2.235	47.190	3.932
1934-35	1.710	1.200	.240#	Froz	.116#	.277#	1.822	2.625	4.485	5.580	5.320	4.195	27.570#	2.298
1935-36	5.560	2.190	.698#	1.284#	.625#	2.047#	2.662#	5.475	6.052	8.046	7.310	6.205	48.154#	4.013
1936-37	3.890	2.294	.660#	Froz	Froz	1.320	2.949	6.040	8.340	10.665	11.210	7.910	55.278#	4.606
1937-38	4.935	1.905	1.300#	.980#	.275#	1.049#	3.120	5.135	7.190	8.830	8.075	5.450	48.241#	4.020
1938-39	2.250	1.835	.945	.240	Froz	.785#	4.280	5.745	7.675	8.005	8.035	3.840	43.635#	3.636
1939-40	2.290	1.128	.695#	.150#	.255#	1.615#	2.545	5.130	6.825	8.400	8.090	4.430	41.453#	3.454
1940-41	2.550	1.095#	.305#	.035#	.090	.790#	1.965	5.425	5.860	7.395	5.955	3.985	35.450#	2.954
Total	31.366	23.597#	6.873#	4.739#	4.061#	10.640#	28.928#	48.600	61.970	78.631	74.890	48.800	423.095#	35.257
Mean	3.137	2.360	.687	.474	.406	1.064	2.893	4.860	6.197	7.863	7.489	4.880	42.310	

TABLE II

EVAPORATION RECORDS

MONTHLY EVAPORATION AT BIG SANTA ANITA DAM

STATION #63

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Mean
1930-31	6.980	6.290	5.990	3.560	2.450	5.950	4.820	4.560	6.100	7.820	6.980	6.880	68.380	5.698
1931-32	5.175	3.860	2.675	3.040	2.380	4.345	5.470	4.635	5.540	6.875	7.635	5.565	57.195	4.766
1932-33	5.930	6.595	3.490	3.535	3.410	4.810	4.420	4.370	5.505	5.990	5.365	4.150	57.570	5.798
1933-34	4.125	4.810	2.675	3.375	2.010	3.720	3.695	4.165	2.840	4.460	4.445	4.625	44.945	3.745
1934-35	6.395	4.275	4.080	3.275	4.410	3.470	3.730	4.465	6.135	9.025	9.205	7.265	65.730	5.478
1935-36	6.710	5.195	4.585	4.285	2.350	4.780	4.620	6.970	7.365	8.365	8.320	7.735	71.270	5.939
1936-37	6.090	6.535	3.935	1.990	2.375	4.045	5.260	4.680	5.245	7.905	8.080	7.550	63.690	5.308
1937-38	6.015	3.730	4.220	3.955	2.490	3.000	3.710	4.370	4.435	6.100	6.995	7.005	56.025	4.669
1938-39	5.150	4.715	2.770	2.300	2.050	2.275	3.820	4.455	5.892	6.280	6.470	6.260	52.467	4.372
1939-40	5.870	4.740	4.035	2.065	2.495	3.720	3.310	5.000	5.060	7.680	6.340	6.060	56.365	4.697
1940-41	5.310	4.745	3.470	2.380	1.660	3.255	2.780	5.010	4.325	6.285	5.385	5.305	49.910	4.159
Total	63.750	55.480	41.925	33.760	28.070	43.370	45.635	52.710	58.442	76.785	75.220	68.400	643.547	53.628
Mean	5.795	5.043	3.811	3.069	2.551	3.942	4.149	4.791	5.312	6.980	6.838	6.218	58.504	

MONTHLY EVAPORATION AT DALTON'S RANCH

STATION #70

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Mean
1932-33	7.385	8.165	3.596	3.983	4.650	6.075	5.585	6.310	8.038	8.845*	6.315*	N.R.	inc.	
1933-34	7.060	8.110	3.813	4.715	3.096	6.115	7.145	8.540	6.422	9.661	9.589	9.340	83.606	6.967
1934-35	7.040	4.924	3.875	2.760	4.215	3.620	3.550	5.360	7.140	9.145	9.745	7.780	69.154	5.762
1935-36	7.183	5.552	4.745	4.340	2.407	4.506	4.710	7.600	8.855	10.150	9.845	8.820	78.713	6.559
1936-37	6.935	7.215	4.220	1.935	2.645	4.280	5.585	5.750	7.375	10.135	10.050	9.500	75.625	6.302
1937-38	7.575	4.380	3.975	3.735	2.970	3.633	4.935	5.962	6.265	8.170	8.515	8.400	68.495	5.707
1938-39	6.940	6.420	4.005	3.290	3.575	3.320	4.685	6.100	7.725	8.645	8.695	9.190	72.590	6.049
1939-40	7.460	5.679	5.150	2.565	2.858	4.450	4.099	6.580	7.060	9.830	8.770	7.810	72.311	6.025
1940-41	7.320	5.010	3.555	2.335	2.115	3.530	4.175	6.165	6.300	8.405	7.411	6.515	62.836	5.236
Total	64.898	55.455	36.934	29.658	28.531	39.529	44.469	58.347	65.180	82.986	78.935	67.355	583.330	48.607
Mean	7.210	6.161	4.103	3.295	3.170	4.392	4.941	6.483	7.242	9.220	8.770	8.419	72.916	

MONTHLY EVAPORATION AT BIG PINES PARK

STATION #83

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Mean
1931-32	6.245	2.585	#	#	#	2.780*	5.255	6.300	8.675	11.415	12.160	9.005	inc#	
1932-33	6.565	5.295	1.025#	##	##	##	4.470#	5.842	10.215	9.790	7.770	9.065	inc#	
1933-34	5.998	4.080	#	#	#	#	#	8.160	7.295	9.505	8.885	7.450	inc#	
1934-35	4.340	2.450	#	#	#	#	#	6.125	9.245	9.795	8.593	6.948	inc#	
1935-36	6.380	3.260	.941*	#	#	#	#	8.415	9.050	8.388	8.922	8.710	inc#	
1936-37	5.153	3.270	#	#	#	#	#	7.047	9.265	10.125	10.400	8.440	inc#	
1937-38	6.215	4.115	#	#	#	#	#	6.805	8.390	9.155	9.305	7.070	inc#	
1938-39	4.822	4.140	1.380#	#	#	#	2.905#	6.790	9.635	10.310	9.365	5.191	inc#	
1939-40	4.510+	2.680	N.R.	N.R.	N.R.	N.R.	N.R.	6.665	9.795	10.900	9.930	7.880	inc#	
1940-41	5.200	2.625#	.925*	N.R.	N.R.	N.R.	N.R.	4.930*	7.735	10.225	8.375	7.515	inc#	
Total	55.428	64.500						67.079	89.300	99.608	93.705	77.274		
Mean	5.543	6.450						6.708	8.930	9.961	9.371	7.727		

MONTHLY EVAPORATION AT SAN DIMAS DAM

STATION #89

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Mean
1934-35	7.280	2.975	1.685	.640	.575	.650	.645	1.250	2.775	3.020	4.870	5.390	31.755	2.646
1935-36	5.220	3.232	1.943	1.861	.785	2.632	2.615	4.424	5.308	6.255	7.260	7.010	48.545	4.045
1936-37	5.360	3.790	1.540	.335#	.905	2.035	2.795	3.270	4.750	7.711	8.455	7.715	48.661	4.055
1937-38	6.640	2.850	2.840	1.580	.475	.945	1.790	1.540	1.955	3.260	4.455	5.250	33.560	2.796
1938-39	3.885	4.465	1.680+	.605	.615	.600	.970	.975	1.815	5.705	4.880	3.945	30.140	2.511
1939-40	4.645	4.265	2.635	1.345+	.900+	1.700+	1.400+	2.575	4.475	7.000	7.750	7.800	46.490+	3.874
1940-41	7.955	5.845	3.825	1.745	2.440	2.690	2.795	6.090	4.635	8.850	8.400	8.225	63.495	5.291
Total	40.985	27.422	16.148	8.111	6.695	11.252	13.010	20.124	25.693	41.801	46.070	45.335	302.646	25.218
Mean	5.855	3.917	2.306	1.158	.954	1.607	1.858	2.874	3.670	5.971	6.581	6.476	43.235	

MONTHLY EVAPORATION PUDDINGSTONE DAM

STATION #96

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Mean
1929-30	7.90	7.73	5.32	2.29	2.76	3.60	4.52	4.64	6.73	11.65	10.52	7.37	75.03	6.25
1930-31	7.43	3.30	5.24	3.25	1.67	5.78	5.27	5.86	7.29	10.17	9.16	8.66	73.08	6.09
1931-32	6.04	3.735	2.325	2.235	1.605	4.200	5.47	5.500	6.650	9.415	9.295	6.695	63.165	5.266
1932-33	6.530	6.755	3.380	3.295	3.885	5.325	5.175	6.165	7.250	10.065	9.375	6.585	73.785	6.149
1933-34	6.990	7.325	4.175	4.100	2.675	4.440	4.745	8.815	6.390	9.990	9.670	8.553	77.868	6.489
1934-35	6.460	3.670	3.495	2.720	2.650	3.325	3.840	5.730	6.720	9.485	9.845	7.685	65.625	5.469
1935-36	6.685	5.190	4.360	3.965	2.455	3.866	4.655	7.610	8.605	10.100	10.775	9.240	77.496	6.458
1936-37	7.375	6.725	3.907	2.350	2.150	3.330	5.500	5.757	7.580	10.235	9.725	8.950	73.584	6.132
1937-38	6.965	4.330	3.879	3.525	2.178	3.001	3.820	4.820	6.500	9.300	9.755	8.880	66.953	5.579
1938-39	7.410	6.345	4.265	3.000	3.369	2.975	5.025	5.850	8.575	10.125	8.645	7.640	73.224	6.102
1939-40	6.330	4.115	3.855	2.026	2.605	3.690	3.795	4.150	4.790	7.300	8.300	6.940	58.496	4.874
1940-41	6.275	4.925	5.025	3.725	2.575	3.660	3.650	5.950	5.950	8.335	7.775	5.625	64.070	5.339
Total	82.390	64.115	49.216	36.481	30.577	47.192	55.465	71.147	83.030	116.770	112.540	92.823	842.376	70.198
Mean	6.865	5.370	4.101	3.040	2.548	3.932	4.622	5.928	6.919	9.731	9.403	7.735	70.198	

TABLE II

EVAPORATION RECORDS

MONTHLY EVAPORATION AT BIG DALTON DAM

STATION #223

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Mean
1930-31	10.220	9.170	5.840	4.660	3.860	8.860	7.740	8.020	9.800	12.760	11.970	11.160	104.060	8.672
1931-32	7.320	5.085	3.025	3.210	2.710	6.020	7.195	7.150	8.410	11.025	11.835	8.885	81.840	6.820
1932-33	6.785	7.875	3.100	4.250	4.350	6.470	5.510	6.605	9.390	10.925	10.225	7.775	83.260	6.938
1933-34	8.030	7.990	3.220	4.515	2.845	6.425	7.075	9.425	6.755	12.150	11.355	11.015	90.800	7.567
1934-35	7.025	3.770	3.520	2.870	4.165	3.250	4.425	5.725	8.300	10.450	10.425	7.825	71.750	5.979
1935-36	6.500	4.125	3.275	2.875	1.850	4.050	4.100	7.000	8.235	9.325	9.550	8.450	69.335	5.778
1936-37	6.225	5.000	2.925	1.500	1.925	3.275	5.750	5.000	6.600	9.400	9.400	8.250	65.250	5.438
1937-38	6.975	3.800	3.225	3.400	2.650	2.125	2.650	3.450	6.075	8.950	8.800	7.530	59.630	4.969
1938-39	5.275	4.650	4.075	2.975	3.475	2.475	3.550	4.275	6.325	7.700	7.875	6.975	58.625	4.969
1939-40	4.850	3.750	2.825	1.550	2.250	3.225	2.650	5.575	6.405	8.848	8.425	6.775	58.128	4.840
1940-41	5.025	2.750	1.738	1.450	.775	1.875	2.550	5.175	5.225	8.500	6.325	5.550	47.038	3.920
Total	74.230	57.960	36.768	33.255	30.855	48.050	53.195	67.400	81.520	111.233	106.185	90.260	790.716	65.890
Mean	6.748	5.269	3.342	3.023	2.805	4.368	4.836	6.127	7.411	10.112	9.653	8.205	71.462	

MONTHLY EVAPORATION AT WEST SADDLE PEAK

STATION #248

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Mean
1931-32	5.150	3.360	1.545	1.635	3.950	4.235	5.695	5.915	7.150	7.875	8.020	5.625	60.155	5.013
1932-33	5.050	4.535	2.576	6.165	3.285	4.130	4.505	5.950	6.300	7.905	7.560	5.320	63.281	5.273
1933-34	4.665	3.960	1.415	2.305	1.620	3.785	5.135	6.625	5.445	7.865	7.525	6.240	56.585	4.715
1934-35	4.410	2.485	1.510	.960	2.350	2.140	2.990	4.595	6.270	8.150	7.445	6.220	49.505	4.126
1935-36	4.635	2.725	2.180	2.090	1.125	3.345	3.560	5.650	7.000	7.010	7.575	6.190	54.275	4.523
1936-37	3.960	3.285	1.490	1.185	1.445	2.875	4.425	4.455	6.505	7.960	7.250	6.415	51.250	4.271
1937-38	4.855	2.680	2.665	2.720	1.585	2.690	3.595	5.175	4.980	6.940	7.200	5.950	51.035	4.253
1938-39	4.345	3.785	2.570	2.005	2.955	3.505	3.840	4.825	6.175	6.747	6.745	5.965	53.462	4.455
1939-40	4.485	2.480	1.760	1.495	1.915	2.865	3.590	4.710	5.650	6.590	5.910	5.330	46.780	3.898
1940-41	4.255	2.975	1.625	1.410	1.445	1.965	2.500	4.800	4.650	5.415	5.000	4.430	40.270	3.355
Total	45.810	37.270	19.336	21.970	21.675	31.435	39.835	53.000	60.115	73.257	70.230	57.665	526.598	43.883
Mean	4.581	3.227	1.934	2.197	2.168	3.144	3.984	5.300	6.012	7.326	7.023	5.767	52.660	

MONTHLY EVAPORATION AT MELLEN'S RANCH (Near ACTON)

STATION #261

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Mean
1931-32	6.810	4.325	2.185	2.636	1.945	5.885	6.925	7.795	10.180	13.375	13.980	10.935	86.976	7.248
1932-33	7.890	6.490	3.130	3.045	4.415	6.260	6.860	7.100	10.189	12.775	12.290	10.075	90.519	7.543
1933-34	8.105	7.455	3.950	4.625	3.545	7.175	9.000	10.895	9.230	13.795	13.430	10.350	101.555	8.463
1934-35	7.710	4.565	3.915	2.940	3.990	4.010	5.385	8.020	11.805	13.005	11.670	10.240	87.255	7.271
1935-36	7.800	5.537	4.638	4.750	2.210	6.000	6.530	10.125	11.340	13.040	13.215	10.820	96.005	8.000
1936-37	6.965	6.740	3.510	1.805	2.655	4.350	6.365	7.623	9.845	13.265	13.535	10.580	87.338	7.278
1937-38	7.920	4.625	4.300	4.360	2.350	3.240	5.620	7.320	9.255	11.865	11.820	9.510	81.985	6.832
1938-39	6.965	7.125	3.911	3.015	3.320	3.965	6.235*	8.025	10.770	12.505	13.090	7.590	86.519	7.210
1939-40	7.085	4.525	4.220	2.380	2.618	4.525	5.915	9.205	11.150	13.940	13.250	8.815	87.628	7.302
1940-41	6.645	5.285	3.565	2.295	2.105	3.570	4.225	8.320	9.605	12.215	10.320	9.040	77.190	6.432
Total	73.995	56.772	37.327	31.851	29.153	48.980	62.960	84.428	103.469	129.780	126.400	97.955	883.070	73.580
Mean	7.390	5.677	3.733	3.185	2.915	4.898	6.296	8.443	10.347	12.978	12.640	9.796	88.297	

MONTHLY EVAPORATION AT PUENTE HILLS

STATION #265

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Mean
1931-32	4.720	3.220	1.845	1.155	.805	2.530	5.580	4.875	5.785	6.765	6.900	5.340	49.620	4.127
1932-33	4.505	4.900	2.315	2.265	3.065	3.200	3.730	4.950	6.630	6.500	6.205	5.210	52.445	4.370
1933-34	4.500	4.550	2.380	2.500	1.605	2.605	4.670	6.365	4.455	6.745	6.605	6.160	53.610	4.468
1934-35	3.870	2.110	1.525	1.165	1.835	1.600	2.505	4.085	5.100	6.825	6.025	5.255	43.310	3.609
1935-36	4.700	3.080	2.800	2.505	1.460	2.700	3.820	5.640	6.940	6.980	7.035	5.740	51.900	4.325
1936-37	4.155	4.285	2.245	1.615	1.260	2.300	3.410	4.100	6.530	6.120	6.765	6.125	48.200	4.017
1937-38	4.300	2.560	2.970	2.860	1.600	2.440	3.470	4.240	5.035	6.445	6.805	6.365	49.080	4.090
1938-39	4.575	4.480	2.630	1.745	2.522	2.753	Inc.	N.R.	6.837	6.245	5.865	5.347	41.987*	4.199
1939-40	3.905	2.457	1.637	.777	1.630	2.875	3.210	4.580	4.417	6.553	5.982	4.933	42.736	3.561
1940-41	3.658	2.472	1.375	.940	.445	1.845	2.545	4.760	4.500	6.010	5.320	4.335	38.205	3.183
Total	42.888	34.114	21.722	17.897	16.017	24.938	32.630	43.595	52.219	65.418	64.445	55.110	470.003	39.249
Mean	4.280	3.411	2.172	1.790	1.602	2.494	3.263	4.360	5.222	6.542	6.445	5.511	47.009	

MONTHLY EVAPORATION AT TORRANCE

STATION #268

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Mean
1931-32	5.170	2.320	1.220	1.160	1.470	4.240	6.160	6.660	6.965	7.645	7.600	5.580	56.190	4.683
1932-33	4.315	2.525	1.608	1.180	2.085	4.125	4.940	7.105	6.095	7.030	7.325	5.030	53.763	4.480
1933-34	4.335	2.715	.985	1.105	1.161	3.775	5.580	8.010	5.030	7.880	7.810	6.635	55.031	4.661
1934-35	4.575	1.715	1.125	.400	1.840	2.805	3.955	6.055	6.055	8.160	7.610	5.875	50.160	4.180
1935-36	4.895	2.145	1.320	1.720	1.765	3.910	4.185	7.170	7.640	8.375	8.000	6.860	58.205	4.867
1936-37	4.705	2.310	1.155	1.005	1.410	3.960	5.515	6.035	7.325	8.160	7.605	7.110	56.715	4.726
1937-38	5.150	2.075	1.801	1.650	1.416	4.407	5.375	6.835	7.020	8.545	8.240	7.410	60.013	5.001
1938-39	4.880	3.030	1.245	1.060	2.300	3.160	5.215	6.405	7.545	8.250	7.605	7.540	58.125	4.844
1939-40	5.020	1.525	1.015	.910	1.340	3.684	5.340	6.875	6.545	8.625	7.945	6.605	55.429	4.619
1940-41	4.580	2.300	1.205	.747	.745	2.914	4.125	7.875	7.250	7.815	6.880	6.545	53.081	4.423
Total	47.625	22.660	12.679	10.037	15.622	37.070	50.690	66.025	68.170	80.815	76.810	65.590	557.693	46.474
Mean	4.763	2.266	1.268	1.004	1.562	3.707	5.069	6.603	6.817	8.082	7.681	6.559	55.769	

TABLE II

EVAPORATION RECORDS

MONTHLY EVAPORATION AT ENCINO RESERVOIR

STATION #292 (Land Pan)

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Mean
1932-33	7.580	7.405	3.845	4.030	5.300	7.190	7.072	9.386	9.135	11.388	10.703	8.058	92.172	7.681
1933-34	7.797	7.568	3.460	4.065	3.060	7.305	9.030	11.335	7.720	12.145	10.755	10.630	96.070	8.006
1934-35	7.840	4.610	3.705	2.710	4.290	3.045	5.585	7.255	8.975	11.000	11.680	9.560	82.345	6.862
1935-36	7.625	4.815	3.890	4.210	2.225	5.315	6.405	9.845	10.940	12.175	12.125	10.575	90.455	7.538
1936-37	6.750	6.881	3.485	2.320	2.580	4.252	8.375	7.680	9.445	13.420	11.560	10.585	87.343	7.279
1937-38	8.145	4.445	4.094	4.535	2.690	4.370	6.780	9.320	8.356	11.695	12.125	11.360	87.911	7.326
1938-39	8.265	6.685	3.053	3.180	3.800	4.175	7.790	8.460	10.480	12.070	11.730	10.690	91.358	7.613
1939-40	8.930	5.580+	4.280	2.680	3.155+	5.285	7.065	9.460	9.260	13.700	10.610	9.900	89.625	7.468
1940-41	7.515	5.775	3.330	1.920	1.650	3.510	4.445	9.295	8.880	10.430	9.095	8.475	78.020	6.251
Total	70.447	53.754	33.932	30.850	28.840	45.347	62.547	82.046	83.210	108.933	102.273	90.123	792.302	66.025
Mean	7.827	5.972	3.770	3.427	3.204	5.038	6.949	9.116	9.245	12.103	11.363	10.013	88.033	

MONTHLY EVAPORATION AT ENCINO RESERVOIR

STATION #292 (Lake Pan)

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Mean
1932-33	6.252	5.412	3.394	3.66+	3.696	4.788	5.476	7.260	7.212	9.276	9.394	7.164	72.974+	6.081
1933-34	6.024	5.700	2.856	3.564	1.788	4.824	6.888	8.460	6.120	9.204	8.868	8.208	72.504	6.042
1934-35	6.528	3.384	2.904	1.644	2.172	2.628	3.624	5.604	7.188	8.976	8.856	7.284	60.792	5.066
1935-36	6.300	3.264	2.880	2.772	2.784	3.828	4.668	7.284	8.244	9.360	9.288	7.944	68.616	5.718
1936-37	5.448	4.632	2.916	2.088	1.956	3.204	6.396	6.204	7.032	9.384	8.508	7.608	65.376	5.448
1937-38	5.580	3.432	2.664	3.276	2.160	4.704	5.136	6.756	7.104	8.748	9.372	7.740	66.872	5.556
1938-39	6.264	6.000	3.168	2.008	3.516	2.868	4.920	6.312	7.224	8.796	8.904	7.452+	67.432+	5.619
1939-40	6.384	3.912	3.120	1.848	2.304	3.948	6.504	6.962	7.190	9.810	8.470	7.630	68.082	5.673
1940-41	5.830	5.040	1.563	1.370	.900	2.350	2.500	6.970	7.350	8.730	7.440	6.890	57.023	4.751
Total	54.610	40.776	25.465	22.230	21.276	33.142	46.112	61.812	64.664	82.284	79.090	67.920	599.471	49.955
Mean	6.067	4.530	2.829	2.470	2.364	3.682	5.123	6.868	7.184	9.142	8.787	7.546	66.607	

MONTHLY EVAPORATION AT PINE CANYON

STATION #321

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Mean
1931-32	6.395	3.840	1.425	1.775	1.000*	6.700	8.700	9.350	11.515	16.300	15.527	12.425	94.952*	7.913
1932-33	8.670	6.510	2.960	1.725	3.475	5.670	6.346	7.760	9.825	12.790	12.250	10.325	88.306	7.359
1933-34	8.325	6.200	3.100	3.965	3.130	6.430	8.455	10.610	8.700	13.075	12.175	10.060	94.225	7.852
1934-35	6.513	3.627	3.187	2.804	3.375	3.713	4.854	7.195	11.075	12.450	10.515	9.845	82.153	6.846
1935-36	7.500	3.938	2.615	2.635	2.215	5.145	6.275	8.885	10.485	11.550	11.660	9.400	82.303	6.859
1936-37	6.440	4.725	2.545	1.360#	1.680	3.095	5.595	6.715	8.485	12.050	10.775	8.075	71.540#	5.962
1937-38	5.660	2.925	3.110	2.475	1.620	2.625	4.920	6.000	8.120	9.715	9.055	7.225	63.450	5.287
1938-39	4.530	3.785	2.560	1.710	2.520	3.555	5.045	6.710	9.360	10.285	9.725	6.450	66.235	5.519
1939-40	5.005	2.675	1.615	1.345	2.045	4.050	5.235	8.330	9.415	10.140	10.220	7.700	67.775	5.648
1940-41	4.705	2.395	2.105	1.190	1.215	2.910	2.920	6.680	7.740	10.060	9.540	7.550	59.010	4.918
Total	63.743	40.620	25.222	20.984	22.275	43.893	58.345	78.235	97.720	118.415	111.442	89.055	769.949	64.163
Mean	6.374	4.062	2.522	2.098	2.228	4.389	5.835	7.824	9.772	11.842	11.144	8.906	76.995	

MONTHLY RECORDS AT SAN GABRIEL DAM #2

STATION #334 (Land Pan)

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Mean
1935-36	7.180	4.129	3.050	2.915	1.425	4.325	4.600	6.165	9.825	11.700	11.510	10.005	76.829	6.402
1936-37	5.790	4.675	1.885	1.070	1.810	2.685	6.060	6.280	8.390	11.395	10.640	10.395	71.075	5.922
1937-38	7.915	4.950	3.635	3.168	4.920	3.075	5.455	6.875	8.985	11.860	11.740	10.660	83.238	6.936
1938-39	6.755	5.935	3.780	3.035	3.245	3.945	6.405	8.060	10.735	13.105	12.795	8.850	86.645	7.220
1939-40	7.070	4.879	3.050	1.915	2.475	4.575	4.915	7.985	10.275	12.070	12.050	9.355	80.614	6.717
1940-41	7.390	4.160	2.230	1.590	1.425	3.200	3.910	6.965	8.010	11.560	9.955	8.865	69.260	5.771
Total	42.100	28.728	17.630	13.693	15.300	21.805	31.345	42.330	56.220	71.690	68.690	58.130	467.661	38.971
Mean	7.016	4.788	2.938	2.282	2.550	3.634	5.242	7.055	9.370	11.948	11.448	9.688	77.943	

MONTHLY EVAPORATION AT BALDWIN PARK

STATION #347
(2 ft. Flood Control Tank)

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Mean
1932-33	5.630	4.805	2.442	2.213	3.145	4.880	5.825	7.750	9.085	10.100	9.410	6.593	71.878	5.990
1933-34	4.987	4.050	1.735	1.715	1.625	4.330	6.355	9.060	6.805	9.785	8.925	7.975	67.347	5.612
1934-35	4.250	2.650	2.190	1.770	2.710	3.090	4.390	6.375	8.520	10.190	9.635	7.345	63.115	5.260
1935-36	6.125	3.425	2.450	2.325	2.075	3.675	4.705	8.490	9.760	10.290	9.565	7.560	70.445	5.871
1936-37	5.110	4.045	1.957	1.410	2.060	3.845	5.820	6.055	8.320	10.170	10.210	8.210	67.192	5.599
1937-38	5.093	2.975	2.330	2.495	1.950	3.385	4.705	6.740	7.320	8.985	8.865	7.425	62.268	5.189
1938-39	5.200	4.065	2.425	1.875	3.125	2.940	4.610	6.495	8.570	9.065	8.455	7.135	63.960	5.330
1939-40	4.665	2.925	2.300	1.120	2.265	3.455	4.525	6.586	7.039	9.210	8.368	7.007	59.465	4.955
1940-41	5.050	2.833	2.017	1.407	1.468	2.965	3.515	7.035	6.655	8.505	7.300	6.395	55.145	4.595
Total	46.110	31.773	19.846	16.330	20.423	32.565	44.450	64.566	72.074	86.300	80.733	65.645	580.815	48.401
Mean	5.123	3.530	2.205	1.814	2.269	3.618	4.938	7.174	8.008	9.588	8.970	7.293	64.535	

TABLE II

EVAPORATION RECORDS

MONTHLY EVAPORATION AT SAN GABRIEL DAM #1

STATION #425 (LAKE PAN)

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Mean
1939-40	N.R.	3.715	2.720	1.577	1.995	3.425	4.170	6.930	7.575	9.653	8.450	6.060	56.272*	Inc.
1940-41	5.325	3.650	2.080	1.925	1.525	2.485	3.415	6.945	7.005	8.695	7.950	5.965	56.965	4.747

MONTHLY EVAPORATION AT SAN GABRIEL DAM #1

STATION #425°° (LAND PAN)

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Mean
1931-32	5.24	3.51	1.310	1.690	2.020	4.135	5.445	6.050	7.165	8.900	9.755	7.690	62.910	5.243
1932-33	6.640	4.940	1.955	1.585	2.930	4.460	5.135	5.705	7.645	8.167	8.713	6.770	64.645	5.387
1933-34	6.350	4.905	2.140	2.310	2.105	4.810	5.610	5.930	7.590	9.810	8.360	7.055	66.975	5.581
1934-35	4.145	2.945	1.850	1.615	1.970	2.620	3.130	4.095	6.780	8.020	7.850	6.655	51.675	4.306
1935-36	5.280	3.130	2.415	2.155	1.395	3.639	4.060	6.150	7.350	7.915	8.475	7.620	59.584	4.965
1936-37	4.995	3.685	1.820	.950	1.755	3.180	5.190	5.025	6.765	8.115	8.420	7.740	57.640	4.803
1937-38	7.269	4.369	3.735	3.405	2.270	2.565	5.085	6.765	7.130	9.425	10.030	9.930	71.978	5.998
1938-39	7.220	6.810	3.730	3.095	3.615	3.560	5.055	6.135	7.585	8.410	8.910	7.138	70.263	5.855
1939-40	6.705	5.210	4.085	1.985	2.335	3.745	3.635	6.090	6.190	9.875	8.910	7.340	66.085	5.507
1940-41	8.390	5.345	3.375	2.540	2.065	3.595	4.440	7.530	7.635	10.870	9.027	7.975	72.787	6.065
Total	62.234	44.849	26.415	21.310	22.460	36.309	46.785	59.475	71.835	89.517	88.450	75.913	644.542	53.711
Mean	6.223	4.485	2.642	2.131	2.246	3.631	4.679	5.948	7.184	8.952	8.845	7.591	64.454	

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

MONTHLY EVAPORATION AT PALMDALE

STATION #351

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Mean
1931-32	7.345	4.600	3.110	2.865	2.095	6.505	8.110	10.666	12.695	16.610	17.140	13.025	104.766	8.731
1932-33	8.145	4.690	2.870	1.975	3.555	5.700	7.355	8.955	11.520	17.000	13.890	11.600	97.255	8.105
1933-34	8.725	4.950	2.690	2.793	3.885	6.290	9.300	12.700	12.345	16.160	15.640	10.950	106.228	8.852
1934-35	6.775	3.540	1.795	1.585#	2.635	3.860	6.755	10.720	15.545	16.365	13.395	11.725	94.695#	7.891
1935-36	7.705	4.115	3.115#	3.680	2.195	6.695	7.655	11.425	13.330	15.150	14.645	11.575	101.285#	8.440
1936-37	6.975	4.450	2.555	2.084	2.440	4.055	6.215	9.920	12.080	15.960	14.765	10.955	92.454	7.705
1937-38	7.080	4.815	2.710	2.785#	2.380	4.320	6.485	11.120	14.625	15.770	14.185	10.020	96.295#	8.025
Total	52.750	31.160	18.845	17.767	18.985	37.425	51.875	75.506	92.140	113.015	103.660	79.850	692.978	57.749
Mean	7.536	4.451	2.692	2.538	2.712	5.346	7.411	10.787	13.164	16.144	14.809	11.407	98.997	

No record for 1938-39 season, tank moved to Station #441, Sept. 1939.

STATION #441

1939-40	5.260	2.365	2.035	1.800	2.915	4.450	5.455	7.530	8.875	9.250	8.320	6.470	64.725	5.393
1940-41	3.863+	2.100	1.610	1.495	1.665	2.730	2.735	5.795	7.875	10.320	8.210	7.180	55.578	4.631
Total	9.123	4.465	3.645	3.295	4.580	7.180	8.190	13.325	16.750	19.570	16.530	13.650	120.303	10.028
Mean	4.562	2.232	1.822	1.648	2.290	3.590	4.095	6.662	8.375	9.785	8.265	6.825	60.152	

EVAPORATION RECORDS IN INCHES

LEGEND FOR EVAPORATION RECORDS

Maximum monthly amount for the period	_____
Minimum monthly amount for the period	_____
Records incomplete	*
Records incomplete - partly frozen	#
No record	N.R.
Partly estimated	+

Station numbers are identical with numbers of rainfall stations at which evaporation data are taken.

RUNOFF RECORDS

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Hydraulic Division

RUNOFF RECORDS

Season 1940-41

Foreword:

This report is the eleventh of a series of annual or biennial reports summarizing the collection of runoff data by the District. These reports cover 14 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.

Purpose:

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

1. Streamflow measurements and records on channels below dams and in the valley reaches are essential to proper reservoir operation. Such measurements provide the information necessary to correlate flood releases with valley runoff and channel capacities. Continuous streamflow records also provide a correct knowledge of percolation rates thereby enabling a reservoir to be operated for a maximum conservation benefit as well as determining the actual extent of such benefit.

2. The determination of proper design and economic feasibility of adequate channels and flood control structures depends on the extent and length of streamflow records.

3. Proper planning of present and future conservation works and determining available water supply is entirely dependent on streamflow records. This type of data becomes more valuable to future planning as the length of record increases.

Extent and Method of collecting Data:

The Flood Control District operated 64 recording streamflow stations during the current season. These stations are distributed on the main streams and tributaries of the various drainage systems as follows:

Antelope Valley Drainage	1	stations
Santa Clara River Drainage	1	"
Santa Monica Mountains - Coastal Drainage	3	"
Ballona Creek Drainage	3	"
Los Angeles River Drainage	22	"
Rio Hondo Drainage	14	"
San Gabriel River Drainage	19	"
San Antonio Creek Drainage	1	"

* See Note on Page 36 .

The locations of all stations are shown on Map II, Page 37.

The types of control sections are listed below in order of predominance.

(1) Natural controls - 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 the 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	19	continuous
*HCF	30	continuous
Stevens (Type A)	2	continuous
Stevens (Type L)	6	weekly or daily
Rational (Horizontal)	4	weekly
Rational (Duplex)	1	12 days or daily
Leitz (Horizontal	1	continuous
Friez	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 usually 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) List of Measurements giving all the actual meter measurements together with observed water stage, areas of cross-section, and mean velocities. These lists include 5060 measurements taken by the District during 1940-41 at 64 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 flow versus time for the larger storms of the period. In general, the storm producing the peak flow of the season at the maximum number of stations was selected so that hydrographs on a major stream system might be compared. More than one storm hydrograph was plotted in some instances where the magnitude or volume varied enough to be considered of sufficient interest.

Included in this report as additional information are the records of the thirteen 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 292 such measurements were taken. The U.S.G.S., in turn, publishes the records of sixteen flood control stations in their Water Supply Papers for Pacific Slope Basins in California.

Records of 842 measurements taken at various staff gage stations are also included herein. These measurements are correlated with the water stage at an established metering section. Included in this type of record are the measurements of "Rising Water at Whittier Narrows" which are taken weekly, at established staff gage stations.

In addition to the above, the report includes 455 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 Pacoima Wash, Tujunga Wash, Rio Hondo, Dalton Wash and San Dimas Wash. Included, in addition to these sets, is a table of percolation losses on various reaches of the San Gabriel River and Rio Hondo. These losses were determined from stations or measurements as indicated on the table. The percolation data are shown beginning on page 211.

Cooperation

Certain records included in this report were obtained with 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. Acknowledgement is given with each individual record.

Runoff Summary

Rainfall and Runoff were both far above average during this season. Although total yearly Runoff was the highest of record with the exception of the 1938 flood year, no important floods occurred. Heavy runoff occurred on frequent dates and continued for several days during extended periods of rainfall. The most important storms occurred on December 23, February 19, 20, and 21 and March 3 and 4.

Peak flows for the season occurred at some stations during each of the storms mentioned, however, most peak flows occurred during the storms of February 19, 20, and 21 or March 3 and 4. Although the latter storm produced the greater number of peak flows, apparently the February 19, 20, and 21 storm was particularly intense in the Santa Monica Mountain region for Topanga Canyon produced a peak runoff, the magnitude of which compared with that produced in the March 2, 1938 flood.

Beginning on Page 218 of this report is a complete summary of the annual runoff in acre feet and the peak flows for each year of record on all the stations at which the Flood Control District has kept records.

Limitations:

Descriptions of certain stations are published without records. The records are available in the office of the Hydraulic Division of the Los Angeles County Flood Control District unless otherwise noted.

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 values.

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.

Legend: (Continued)

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's characteristics facilitates making such estimates while leaving the record incomplete may make it necessary to provide the estimate in later years when the reconstruction of the available data would be much more difficult.

E - indicates estimated flow.

I - indicates flow interpolated between measurements.

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 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 lost or was considered unreliable.

Responsibility:

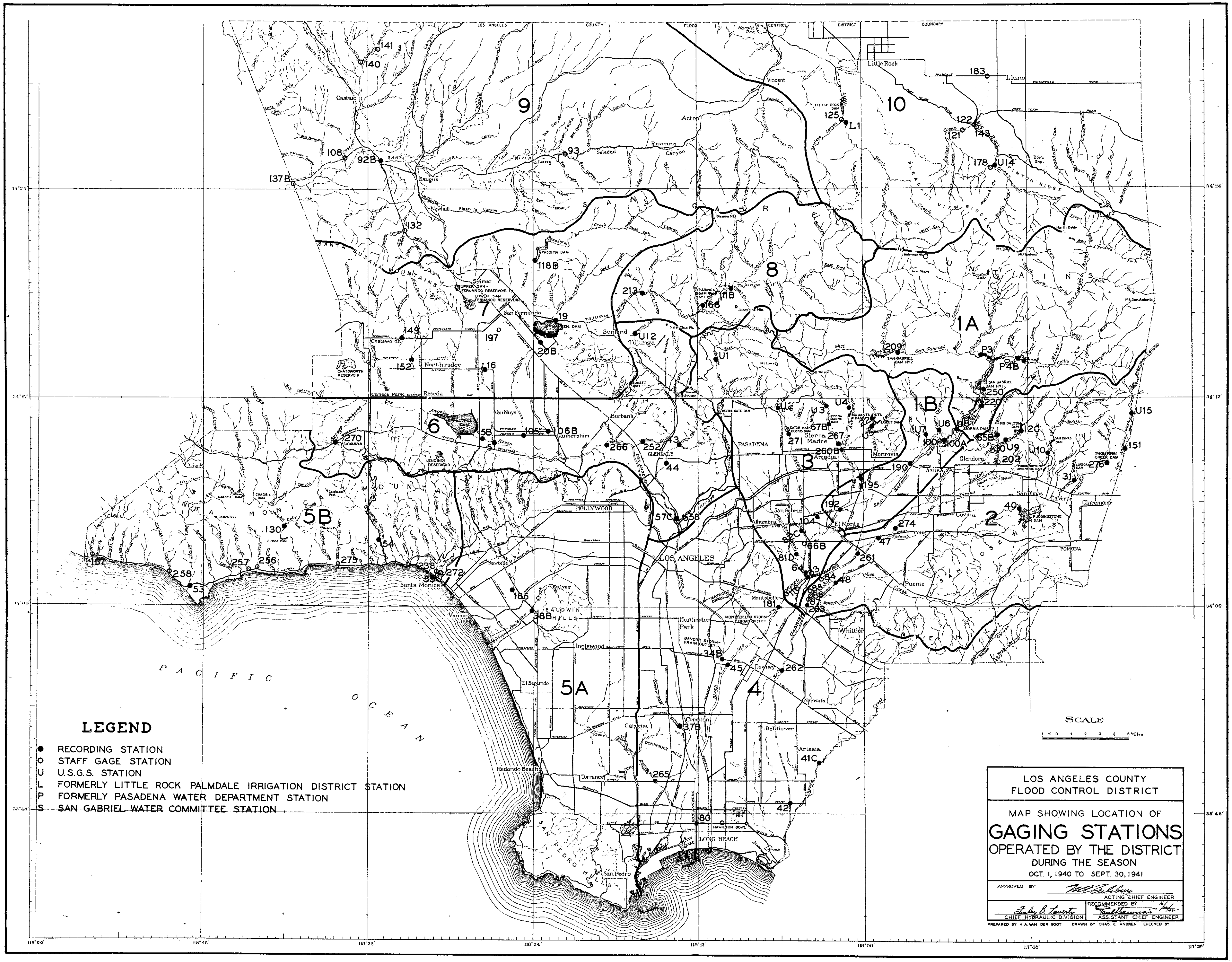
The collection of the field data was the responsibility of the following district hydrographers:

District	Name
1 A	T. A. Cooper assisted by E. W. Godfrey, G. Brown, G. H. Middleton and A. A. Ingram.
1 B & 3	R. E. Lindsay assisted by P. A. Haig.
2	C. L. Brewster assisted by J. H. Wallace.
4	E. S. Bonadiman assisted by L. W. Jordan.
5 A & 5 B	T. E. Moon.
6	C. E. Bollinger.
8	L. J. Turner assisted by E. J. Koch.
7, 9 & 10	J. W. Luce assisted by W. D. Miller

The compilation of the records was performed under the direction 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 direct supervision of W. J. Wood, Assistant Chief-Hydraulic Division.

* 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.


LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
MAP SHOWING LOCATION OF
GAGING STATIONS
OPERATED BY THE DISTRICT
DURING THE SEASON
OCT. 1, 1940 TO SEPT. 30, 1941
APPROVED BY
ACTING CHIEF ENGINEER
CHIEF HYDRAULIC DIVISION
RECOMMENDED BY
ASSISTANT CHIEF ENGINEER
PREPARED BY H. A. VAN DER GOOT
DRAWN BY CHAS. C. ANDREN
CHECKED BY
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
SCALE
5 Miles
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT BOUNDARY
PACIFIC OCEAN
SAN GABRIEL MOUNTAINS
SANTA SUSANA MOUNTAINS
SANTA MONICA MOUNTAINS
SAN JOSE HILLS
PUENTE HILLS
BALDWIN HILLS
SAN PEDRO HILLS
DOMINGUEZ HILLS
LOS ANGELES
PASADENA
GLENDALE
HOLLYWOOD
LONG BEACH
Santa Monica
Venice
Redondo Beach
San Pedro
Inglewood
El Segundo
Torrance
Gardena
Compton
Huntington Park
Downey
Norwalk
Bellflower
Artesia
Whittier
Montebello
Alhambra
San Gabriel
El Monte
Arcadia
Monrovia
Sierra Madre
Azusa
Glendora
Covina
San Dimas
La Verne
Claremont
Pomona
Puente
Burbank
Lankershim
Van Nuys
Reseda
Canoga Park
Northridge
Chatsworth
San Fernando
Sylmar
Sunland
Tujunga
Montrose
Calabasas
Sawtelle
Culver
Saugus
Newhall
Castaic
Lang
Soledad
Ravenna
Acton
Vincent
Little Rock
Llano
1A 1B 2 3 4 5A 5B 6 7 8 9 10
34°24′
34°12′
34°00′
33°48′
119°00′
118°48′
118°36′
118°24′
118°12′
118°00′
117°48′
117°36′

MAP II

RECORDER STATION RECORDS

STATION F81D-R

ALHAMBRA WASH near Short Street

TION:

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.

AGE AREA:

14.5 square miles.

EL 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.

ARGE MEASUREMENTS:

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

RDER:

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, 1940 to September 30, 1941.

LATION:

None.

RSIONS:

None.

DS 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, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 1470. second-feet, March 3.
Minimum no flow at various times.
1929-1941 (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 by comparison due to recorder clock failure.

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 5M 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 41

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
		912A											Pitot
60	2-6	920A	Haig-Trentham	29.0	8.21	5.02	0.52	41.2		.6	4	-.05	Tube
		730P											
61	2-19	801P	" "	40.0	64.3	13.1	2.00	840.		.6	6	-.55	"
		205P											
62	3-27		Haig	12.0	0.71	0.90	0.10	0.57	Float	4	0		
		313P											
63	4-13	315P	"	10.0	0.50	0.60	0.09	0.30	Float	1	0		

F. C. D. Form 104 5M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

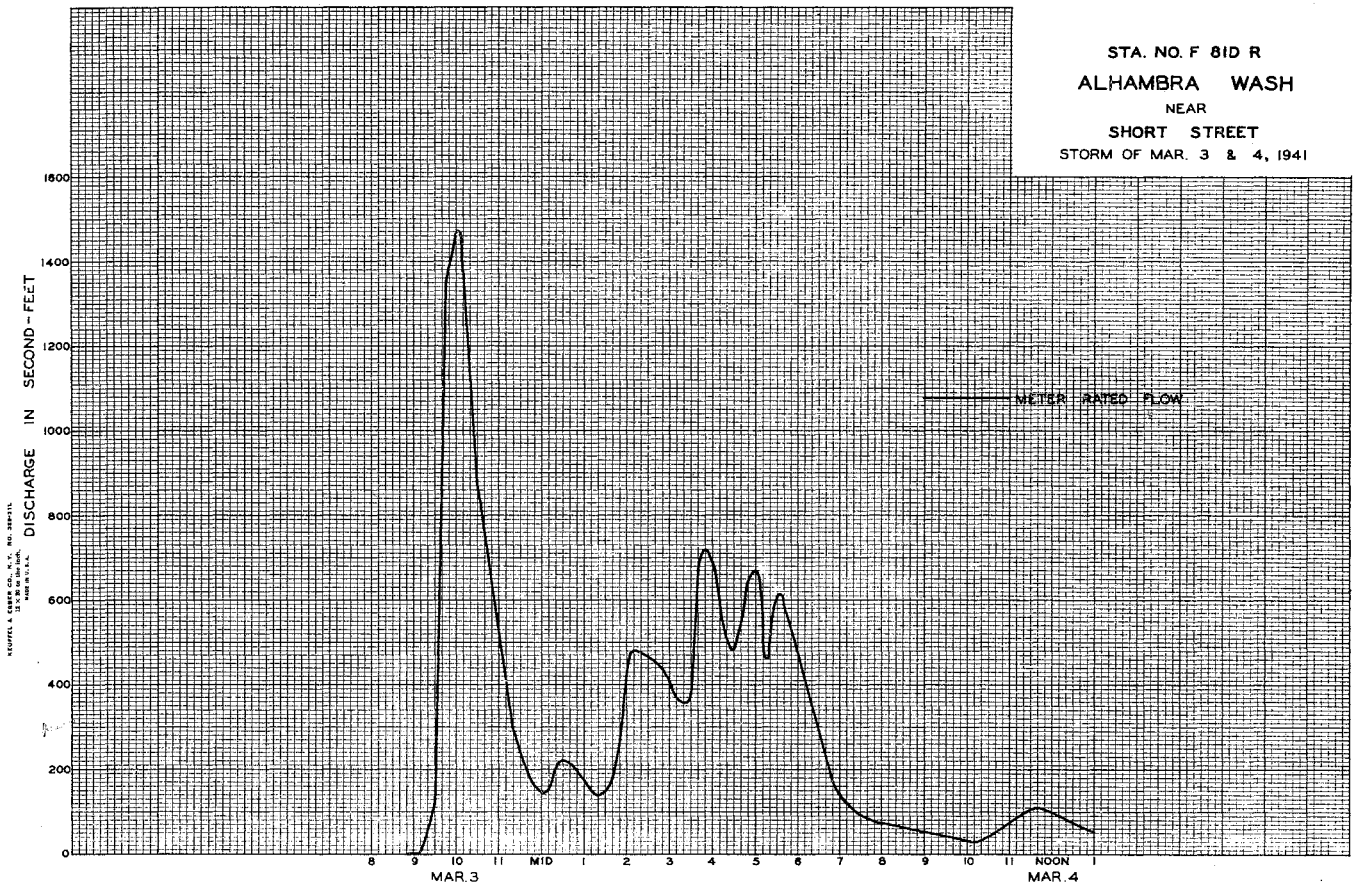
Sta No. F81D-R

Daily discharge, in second-feet of ALHAMBRA WASH near Short Street for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1	+	0.1	+	+	+	37	23	0.5	0.1	0.2	0.2	+
2	+	+	+	+	+	48	13	0.1	0.5	0.1	0.2	0.1
3	+	0.1	+	+	+	75	0.1	0.1	1.0	0.2	0.1	0.1
4	0.1	0.1	+	0.1	0.1	219	43	0.1	1.5	0.1	0.1	0.1
5	0.1	+	+	0.1	0.1	3.2	1.7	0.4	1.5	0.1	0.2	0.1
6	+	+	+	0.1	61	0.6	0.1	0.3	1.7	0.1	0.1	0.1
7	0.1	+	+	0.1	+	0.4	0.1	0.2	1.2	0.1	0.1	0.1
8	0.1	0.1	+	0.1	0.1	0.3	0.1	0.1	0.2	0.3	0.1	0.1
9	0.3	0.1	+	0.1	+	0.3	7	0.7	0.3	0.2	0.1	0.1
10	0.1	+	+	8	+	0.4	E17	0.3	0.3	0.2	0.1	0.1
11	1.4	0.	1.1	0.1	35	1.0	E39	0.1	0.1	0.2	0.1	+
12	0.4	+	2.0	+	+	105	0.2	0.3	0.1	0.3	0.2	+
13	0.1	+	+	0.1	+	22	0.1	0.1	0.1	0.1	0.2	+
14	0.4	+	+	13	E106	28	0.1	0.4	0.1	0.1	0.3	+
15	0.6	0.1	0	0.1	59	0.5	0.1	0.2	0.1	0.2	0.3	+
16	0.4	0.1	106	+	68	0.2	0.1	0.2	0.1	0.2	0.2	0.1
17	0.3	14	30	+	33	0.3	0.1	0.4	0.1	0.3	0.1	0.1
18	0.1	15	33	0.1	0.1	0.4	0.1	0.2	0.1	0.5	0.1	0.1
19	0.1	0.1	0.1	+	185	0.2	0.8	0.3	0.2	0.2	0.1	0.1
20	0.1	+	0.1	0.1	149	0.1	0.4	0.5	0.1	0.1	0.1	0.1
21	0.1	+	0.1	8.5	176	0.1	0.2	0.4	0.1	0.1	0.1	0.1
22	0.2	+	0.1	10	35	0.1	0.2	0.2	0.1	0.1	0.1	+
23	0.3	0.1	147	4.6	0.1	0.1	0.2	0.2	0.1	0.2	0.1	+
24	0.4	+	70	90	12	0.2	0.2	0.2	0.2	0.2	0.1	0.1
25	72	+	0.1	0.1	0.1	0.1	0.6	0.3	0.2	0.2	0.1	0.1
26	15	+	0.1	4.4	0.1	0.1	0.3	0.4	0.2	0.2	0.2	0.1
27	0.2	+	0.1	0.1	0.1	0.2	0.1	0.4	0.1	0.1	0.3	0.1
28	+	+	0.1	+	161	80	0.2	0.5	0.1	0.1	0.4	0.1
29	+	+	10	+		59	0.1	0.8	0.1	0.1	0.2	0.1
30	0.1	+	6.5	+		0.1	80	0.6	0.1	0.1	0.1	0.1
31	+		0.1	+		108		0.3		0.2	+	
	930		456.5		1080.8		228.2		10.7		4.7	
		29.9		139.8		790.1		9.8		5.4		2.2
MEAN	3.00	1.00	14.7	4.51	38.6	25.5	7.61	0.32	0.36	0.17	0.15	0.07
ACRE FEET	184	59	905	277	2140	1570	453	19	21	11	9.3	4.4

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

YEAR OR PERIOD MEAN 7.81
ACRE FEET 5650



STATION F152R

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 November 3, 1940 to September 30, 1941.

REGULATION AND/ OR DIVERSIONS:

None.

RECORDS AVAILABLE:

November 3, 1939 to September 30, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum not determined. - probably in excess of 1500 c.f.s. on February 20.
Minimum no flow at various times.
1939-1941
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. F152R

DISCHARGE MEASUREMENTS OF ALISO WASH

AT Nordhoff Street DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
22	10-25	510P 515P	Luce	2.0	0.33	0.88	0.87	0.29		.6	3	+.05	FC 39
23	12-17	108A 112A	Luce-Pardieck	16.0	13.9	4.46	1.87	61.9		.6	9	-.06	"
24	12-17	125A 130A	" "	16.0	13.2	4.32	1.83	57.2		.6	8	-.01	
25	12-17	135A 142A	" "	16.0	12.8	4.30	1.82	55.3		.6	8	-.03	"
26	12-17	215A 220A	" "	15.0	9.11	3.84	1.64	35.4		.6	6	+.11	"
27	12-17	835A 837A	" "	1.0	0.05	0.60	0.78	0.03		.6	2	0	"
28	12-18	1015P 1017P	" "	0.8	0.03	0.33	---	0.01		.6	2	---	"
29	12-23	1150A 1158A	" "	12.0	4.64	3.02	1.11	13.6		.6	9	-.06	"
30	12-24	920A 928A	" "	14.5	12.6	5.00	1.50	62.9		.6	10	-.09	"
31	1-24	516P 519P	" "	2.5	0.28	1.32	0.27	0.37		.6	4	-.02	"
32	2-11	930P 935P	Luce-Truitt	2.2	0.64	1.88	0.20	1.2		.6	4	0	"
33	2-13	1020A 1022A	Luce	1.0	0.08	0.62	0.02	0.05		.6	2	0	"
34	2-14	257P 305P	"	12.3	12.6	5.32	1.09	66.9		.6	7	-.02	"
35	2-15	227A 231A	Luce-Pardieck	8.0	2.22	2.70	0.20	6.0		.6	5	0	"
36	2-15	534P 539P	" "	12.0	6.04	3.64	0.48	22.4		.6	8	0	"
37	2-15	543P 558P	Luce-Pardieck	9.0	5.08	4.13	0.47	20.8		.6	10	-.02	FC 39
38	2-20	332P 340P	" "	15.5	6.99	4.43	0.49	30.6		.6	9	-.02	"
39	2-22	1230P 1238P	" "	15.0	7.74	3.88	0.18	30.0		.6	9	0	"
40	2-24	941A 949A	" "	16.0	10.3	3.98	0.60	41.4		.6	10	-.06	"
41	2-27	1030A 1035A	Luce	5.3	0.84	1.31	0.14	1.1		.6	6	0	"
42	3-1	811A 820A	Luce-Pardieck	15.5	9.26	4.00	0.15	37.0		.6	9	-.02	"
43	3-4	P10A P16A	" "	16.0	9.74	4.31	0.09	42.4		.6	9	+.02	"
44	3-5	316P 322P	" "	15.0	5.17	3.68	0.17	19.6		.6	8	+.02	"
45	3-12	603P 607P	" "	15.0	5.63	3.55	0.54	19.7		.6	8	0	"
46	3-14	1225P 1230P	Luce-Pardieck	4.0	0.47	0.98	0.33	0.46		.6	4	0	FC 39
47	3-28	1000P 1006P	Luce	12.5	2.93	2.63	0.78	7.7		.6	6	0	"
48	3-30	325P 330P	"	2.0	0.15	0.60	0.76	0.09		.6	2	0	"
49	3-31	332P 336P	Luce-Pardieck	12.5	2.97	1.78	0.86	3.7		.6	5	0	"
50	4-2	240P 252P	" "	10.0	1.66	1.45	0.85	2.4		.6	9	0	"
51	4-5	1013A 1017A	" "	13.0	3.04	2.20	1.02	6.7		.6	6	0	"
52	4-10	1145A 1150A	Luce	3.5	0.40	1.25	0.88	0.51		.6	3	0	"
53	4-12	833A 836A	"	12.0	2.14	1.20	1.06	2.6		.6	4	0	"
54	4-17	1140A 1142A	"	1.0	0.15	0.73	0.98	0.11		.6	2	0	"
55	4-30	843A 847A	Luce-Pardieck	6.5	0.94	1.28	0.98	1.2		.6	4	0	"
56	5-2	1138A 1142A	Luce	1.4	0.07	0.71	1.06	0.05		.6	3	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

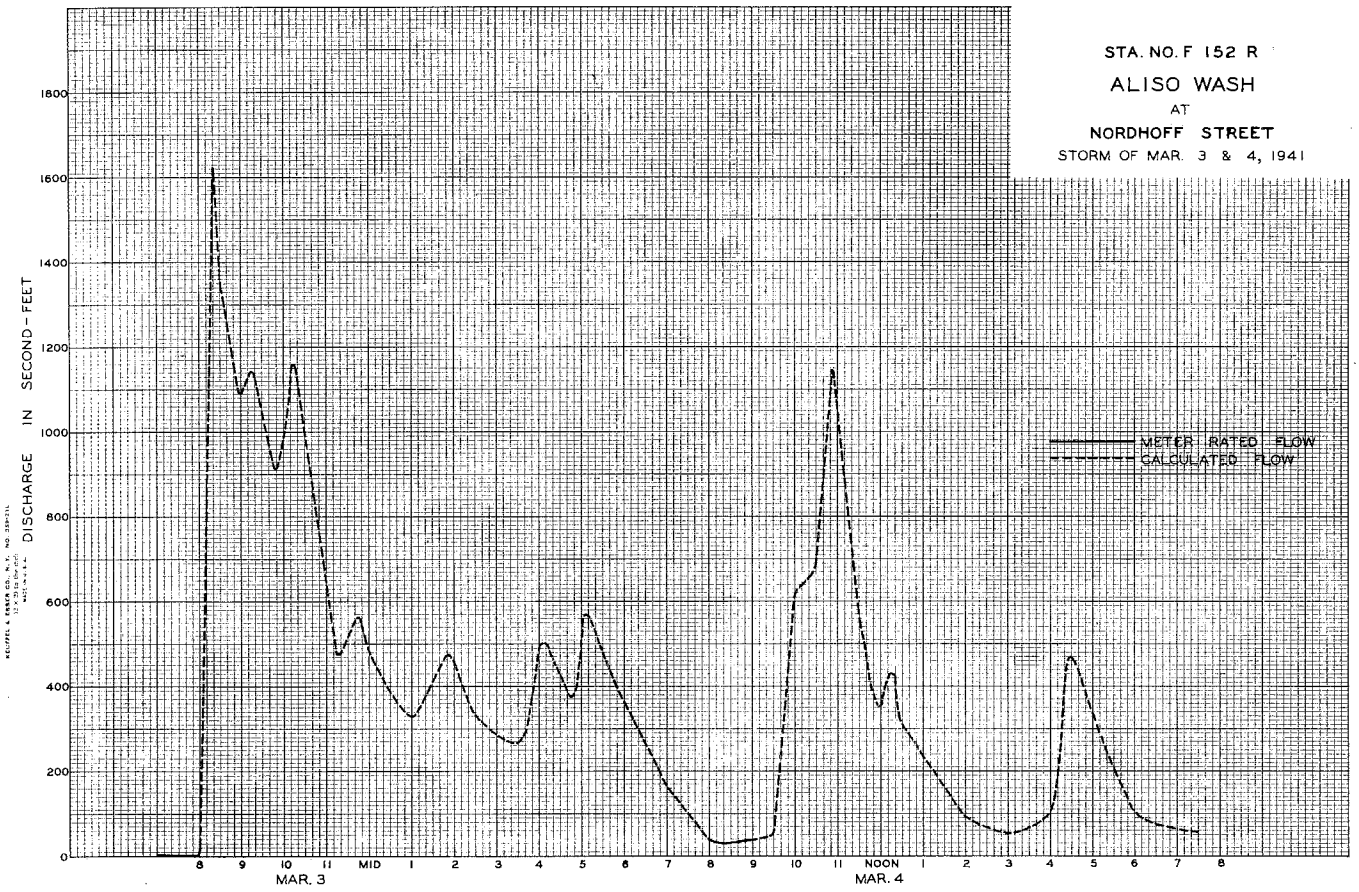
Sta. No F152R

Daily discharge, in second-feet of ALISO WASH at Nordhoff Street for the year ending September 30, 1941

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	35	6	0.1	0	0	0	0
2	0	0	0	0	0	11	3.4	+	0	0	0	0
3	+	0	0	0	0	158	3.0	+	0	0	0	0
4	+	0	0	0	0	255	21	0	+	0	0	0
5	+	0	0	0	0	22	6	0	0	0	0	0
6	+	0	0	0	29	15	4.3	0	0	0	0	0
7	+	0	0	0.3	0	8	3.6	0	0	0	0	0
8	0	0	0	0	0	3.5	2.5	0	0	0	0	0
9	0	0	0	0	0	0.3	0.4	0	0	0	0	0
10	+	0	0	+	0	0	17	0	0	0	0	0
11	0	0	0	0	26	1.2	3.2	0	0	0	0	0
12	0	0	+	0	0.1	16	2.7	0	0	0	0	0
13	0	0	+	0	+	20	0.7	0	0	0	0	0
14	0	0	+	0.1	43	24	0.5	0	0	0	0	0
15	0	0	0	0	111	0.8	0.3	0	0	0	0	0
16	0	0	1.9	0	7.5	0	0.2	0	0	0	0	0
17	0	0	7.5	0	9.5	0	0.1	0	0	0	0	0
18	0	0	3.2	0	2.0	0	0	0	0	0	0	0
19	0	0	0	0	E169	0	0	0	0	0	0	0
20	0	0	0	0	E290	0	0	0	0	0	0	0
21	0	0	0	0	E 70	0	0	0	0	0	0	0
22	0	0	0	0.5	E 10	0	0	0	0	0	0	0
23	0	0	3.5	1.0	2.5	0	0	0	0	0	0	0
24	+	0	3.4	3.8	36	+	0	0	0	0	0	0
25	0.4	0	0	0	1.7	+	0	0	+	0	0	0
26	+	0	0	+	13	0.1	0	0	0	0	0	0
27	0	0	0	0	13	+	0	0	0	0	0	0
28	0	0	0	0	206	89	0	0	0	0	0	0
29	0	0	0	0		75	0	0	0	0	0	0
30	0	0	0	0		0.1	0.7	0	0	0	0	0
31	0		0	0		62		0		0	0	
	0.4	0	81.6	39.9	1101.4	796.0	75.6	0.1	+	0	0	0
MEAN	0.01	0	2.63	1.29	39.3	25.7	2.52	+	+	0	0	0
ACRE-FEET	0.79	0	162	79	2180	1580	150	0.19	+	0	0	0

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

YEAR OR PERIOD MEAN 5.74 ACRE FEET 4150



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, 1940 to September 30, 1941.

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, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 17300 second-feet, December 23.
Minimum + second-feet, January 17.
1928-1941 (Stations F38R and F38B-R)
Maximum 19000 second-feet March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Fair.
Low flows occasionally estimated due to channel scour and fill.

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 41

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.
400	10-3	946A / 953A	Moon	12.0	3.86	0.82	2.20	3.2		.6	6	0	FC 22
401	10-10	1238P / 1248P	"	12.5	4.17	0.89	2.24	3.7		.6	6	0	"
402	10-17	902A / 952A	"	11.7	3.72	0.84	2.15	3.1		.6	7	0	"
403	10-24	859A / 908A	"	13.6	4.66	1.04	2.24	4.8		.6	7	-.01	"
404	10-25	1215P / 1220P	Moon & U.S.E.D.	92.0	291.	5.10	6.27	1490.	Float	6		+.04 -.05	
405	10-25	334P / 420P	U.S.E.D.	86.0	315.	5.77	6.90	1820		.6	7	+.50 -.45	35617
406	10-25	1220P / 1049P	Moon	95.0	325.	5.32	6.72	1730.		.6	6	+.06 -.08	FC 22
407	10-26	1100A / 1109A	"	21.0	9.17	1.50	2.28	13.7		.6	7	0	"
408	10-27	138A / 150A	"	38.0	27.2	2.74	2.82	74.8		.6	8	-.03	"
409	10-31	1035A / 1043A	"	8.3	3.84	1.21	2.20	4.6		.6	7	0	"
410	11-7	944A / 951A	"	9.0	3.87	1.23	2.23	4.7		.6	6	-.01	"
411	11-14	917A / 925A	"	8.7	3.74	0.98	2.15	3.7		.6	7	-.02	"
412	11-18	304A / 315A	Moon-Eckert	50.0	62.8	2.81	3.30	177.		.6	9	-.05	"
413	11-18	915A / 924A	Moon	15.8	8.81	2.08	2.39	18.3		.6	6	-.01	"
414	11-20	930A / 936A	"	10.0	3.72	0.84	2.10	3.1		.6	5	0	"
415	11-28	955A / 1003A	"	9.5	4.19	1.10	2.12	4.6		.6	6	0	"
416	12-5	1100A / 1107A	"	10.0	4.92	1.35	2.20	6.6		.6	6	0	"
417	12-10	855A / 902A	"	9.9	4.48	1.15	2.15	5.2		.6	6	0	"
418	12-12	958A / 1006A	"	11.5	5.83	1.91	2.31	11.4		.6	6	0	"
419	12-16	257A / 306A	"	11.0	4.70	1.08	2.13	5.1		.6	6	0	"
420	12-16	555A / 618A	"	72.0	171.	3.68	4.83	630.		.6	6	0	"
421	12-16	810A / 831A	U.S.E.D.	71.0	166.	3.18	4.36	529.		.6	7	+.02	35617
422	12-16	1010A / 1052A	"	79.0	196.	3.45	4.86	676.		.6	8	-.90	"
423	12-16	1215P / 1255P	"	77.0	188.	3.15	4.94	590.		.6	7	-.02	"
424	12-16	420P / 429P	U.S.E.D.	45.0	61.5	2.51	3.27	154.		.6	5	-.06	35617
425	12-16	426P / 440P	Moon	59.0	62.2	2.52	3.16	157.		.6	12	-.10	FC 22
426	12-16	820P / 840P	U.S.E.D.	78.0	259.	4.40	5.60	1140.		.6	8	-.39	35617
427	12-16	935P / 1025P	"	101.0	506.	5.09	8.16	2580.		.6	10	+.27 -.17	"
428	12-16	1111P / 1154P	"	106.0	660.	7.45	9.06	4960.		.6	11	-1.60	"
429	12-17	908A / 928A	Moon-Mellen	90.0	256.	4.84	6.03	1240.		.6	9	-.84	FC 22
430	12-17	149P / 200P	" "	33.0	28.0	2.12	2.59	59.4		.6	8	-.02	"
431	12-18	917A / 928A	Moon	16.5	5.88	1.28	1.99	7.6		.6	8	0	"
432	12-18	746P / 810P	U.S.E.D.	74.0	181.	3.19	4.75	577.		.6	8	-.40	35617
433	12-19	1105A / 1117A	Moon	23.0	13.9	0.92	1.87	12.7		.6	9	-.01	FC 22
434	12-23	335A / 358A	"	75.0	194.	3.47	4.88	674.		.6	8	-.36	"
435	12-23	513A / 545A	Moon-Mellen	98.0	368.	6.00	7.22	2210.		.6	10	+2.48	"
436	12-23	625A / 658A	" "	128.0	791.	8.47	10.33	6700.		.6	11	+.86	"
437	12-23	756A / 827A	" "	133.0	1020.	8.55	12.19	8720.		.6	10	-.20 +1.05	"
438	12-23	930A / 1016A	U.S.E.D.	130.0	1110.	9.17	11.53	10170.		.6	13	-3.63	35617
439	12-23	440P / 450P	Moon-Mellen	45.0	86.4	1.06	2.56	91.9		.6	11	-.04	FC 22
440	12-24	545A / 614A	" "	100.0	586.	8.07	8.80	4730.		.6	10	+1.40	"
441	12-24	710A / 730A	" "	114.0	664.	7.84	9.21	5210.		.6	10	-1.18	"
442	12-24	351P / 402P	" "	34.5	37.3	1.79	2.22	66.9		.6	9	-.03	"
443	12-26	1055A / 1049A	Moon	23.0	16.6	0.49	1.61	8.1		.6	8	0	"
444	12-29	120A / 205A	U.S.E.D.	61.0	140.	2.67	3.34	374.		.6	10	-.24	35617
445	12-29	702A / 715A	Moon-Mellen	33.0	31.0	1.35	2.19	41.8		.6	11	-.02	FC 22
446	12-29	949A / 1010A	U.S.E.D.	80.0	237.	4.11	4.98	973.		.6	8	+.08 -.43	35617
447	12-30	1009A / 1021A	Moon	Two Channels			1.63	10.9		.6	10	0	FC 22
448	1-2	951A / 946A	Moon	Two Channels			1.52	6.3		.6	11	0	FC 22
449	1-7	1050A / 1044A	"	34.5	28.5	1.66	2.17	47.5		.6	10	-.04	"
450	1-9	925A / 938A	"	Two Channels			1.56	4.6		.6	10	0	"
451	1-10	1027A / 1041A	"	42.0	42.5	2.13	2.45	91.		.6	11	+.11	"
452	1-10	1052A / 1108A	"	45.0	68.0	2.75	2.86	187.		.6	10	+.22	"
453	1-11	203P / 215P	"	Two Channels			1.60	4.2		.6	10	-.01	"
454	1-14	647A / 701A	"	44.5	61.3	2.38	2.83	147.		.6	11	-.10	"
455	1-14	956A / 1006A	"	35.0	27.1	1.35	2.13	36.6		.6	9	-.01	"
456	1-16	959A / 1012A	Moon	Two Channels			1.60	3.9		.6	10	-.01	FC 22
457	1-21	1115P / 1135P	Moon-Mellen	78.0	231.	4.38	5.24	1010.		.6	8	-.13	"
458	1-22	730A / 740A	" "	34.5	27.6	1.46	2.12	40.2		.6	9	-.01	"
459	1-23	1109A / 1121A	Moon	35.0	30.1	1.55	2.18	46.8		.6	9	0	"
460	1-24	1215P / 1227P	Moon-Mellen	38.0	52.6	2.19	2.42	115.		.6	11	-.04	"
461	1-25	913A / 927A	Moon-Eckert	25.0	16.6	0.55	1.63	9.1		.6	9	0	"
462	1-26	1009A / 1017A	Moon-Mellen	35.0	27.8	1.22	1.87	33.8		.6	9	-.01	"
463	1-30	931A / 947A	Moon	Two Channels			1.56	6.9		.6	12	0	"
464	2-6	721A / 740A	Moon-Mellen	102.0	464.	6.06	7.50	2810.		.6	9	-.80	"
465	2-6	855A / 911A	U.S.E.D.	64.0	166.	3.14	4.16	521.		.6	7	-.32	35617
466	2-6	925A / 951A	"	50.0	84.0	3.76	3.20	316.		.6	5	-.10	"
467	2-6	1011A / 1025A	"	50.0	89.0	2.54	3.00	226.		.6	5	-.10	"
468	2-6	1027A / 1047A	"	50.0	85.0	2.34	2.88	199.		.6	5	-.07	"
469	2-6	1243P / 1252P	Moon-Mellen	37.5	48.7	1.83	2.28	89.1		.6	10	0	FC 22
470	2-7	1144A / 1154A	Moon	23.0	9.57	1.03	1.45	9.9		.6	8	+.01	"
471	2-11	950A / 1020A	U.S.E.D.	93.0	394.	6.32	6.66	2490.		.6	9	+1.20	35617
472	2-11	1021A / 1051A	U.S.E.D.	103.0	482.	6.26	7.40	3020.		.6	10	-.30	35617
473	2-11	1236P / 1253P	"	85.0	297.	5.27	5.80	1560.		.6	9	-.75	"
474	2-11	143P / 203P	"	63.0	143.	3.24	3.92	462.		.6	7	-.50	"
475	2-11	436P / 444P	Moon-Mellen	37.0	43.2	2.29	2.29	98.9		.6	9	-.02	FC 22
476	2-12	956A / 1010A	Moon-Eckert	Two Channels			1.65	11.8		.6	12	0	"
477	2-13	938A / 952A	Moon	36.3	24.3	1.42	1.89	34.4		.6	10	+.02	"
478	2-14	203P / 233P	U.S.E.D.	105.0	485.	7.21	7.69	3510		.6	11	+1.67	US 1
479	2-14	233P / 305P	"	112.0	646.	7.12	8.53	4600.		.6	11	+.63 -.10	"
480	2-14	358P / 416P	"	91.0	343.	5.54	6.30	1900.		.6	11	-.70	"
481	2-14	532P / 612P	"	113.0	631.	8.00	8.88	5050.		.6	13	+2.25	"
482	2-14	613P / 656P	"	116.0	931.	9.73	11.33	9050.		.6	13	+2.20 -1.52	"
483	2-14	723P / 754P	"	95.0	402.	6.05	6.94	2430.		.6	11	-1.85	"
484	2-14	817P / 846P	"	75.0	219.	4.25	4.90	931.		.6	8	-.80	"
485	2-15	1257P / 121P	"	94.0	383.	5.90	6.42	2260.		.6	12	-1.1	"
486	2-16	917A / 928A	Moon-Eckert	37.5	28.5	1.36	1.78	38.8		.6	11	-.02	FC 22
487	2-16	750P / 818P	U.S.E.D.	91.0	327.	4.73	6.01	1550.		.6	10	-.15	US 1
488	2-16	1054P / 1110P	"	67.0	192.	3.68	4.27	707.		.6	8	-.40	"
489	2-17	1253A / 115A	"	85.0	202.	4.41	5.76	1290.		.6	10	+1.0	"
490	2-17	116A / 146A	"	94.0	448.	7.38	7.55	3310.		.6	11	+2.00	"
491	2-17	152A / 249A	"	123.0	957.	10.0	11.39	9610.		.6	13	+3.15 -0.30	"
492	2-17	250A / 345A	"	127.0	959.	8.57	10.74	8210.		.6	14	-1.9	"
493	2-17	446A / 510A	"	101.0	527.	5.65	7.35	2980.		.6	11	-.90	"
494	2-17	241P / 300P	Moon-Mellen	42.5	59.6	2.09	2.35	125.		.6	13	-.02	FC 22
495	2-19	109P / 125P	Hall-Moon	Two Channels			2.13	90.3		.6	12	+.02	"
496	2-19	658P / 730P	U.S.E.D.	83.0	279.	4.71	5.44	1320.		.6	10	-1.6	US 1
497	2-20	125P / 149P	Mellen-Eckert	87.0	296.	5.15	5.97	1520.		.6	9	-.86	FC 42
498	2-20	246P / 258P	U.S.E.D.	80.0	258.	4.92	5.35	1270.		.6	9	-.10	FC 1
499	2-21	740A / 755A	Mellen-Eckert	82.0	247.	5.32	5.25	1310.		.6	8	+2.05	FC 42
500	2-21	805A / 821A	" "	91.0	365.	6.16	6.50	2250.		.6	9	-.60	"
501	2-21	856A / 921A	U.S.E.D.	102.0	541.	7.92	7.90	4280.		.6	12	+1.00	US 1
502	2-21	922A / 948A	"	112.0	690.	8.21	8.85	5660.		.6	12	-1.60	"
503	2-21	448P / 510P	"	97.0	465.	7.85	7.58	3650.		.6	11	+.75	"
504	2-21	511P / 539P	"	114.0	662.	8.15	9.74	5400.		.6	12	+2.75	"
505	2-21	541P / 615P	"	125.0	918.	7.19	9.42	6590.		.6	13	-1.95	"
506	2-21	850P / 925P	"	110.0	657.	7.45	8.55	4900.		.6	11	+.40	"
507	2-21	927P / 953P	"	111.0	695.	7.90	8.95	5490.		.6	11	+.58 -.20	"
508	2-21	1123P / 1144P	"	89.0	337.	4.69	6.10	1580.		.6	9	-.70	"
509	2-22	534A / 556A	"	87.0	299.	5.72	6.06	1710.		.6	9	-.10	"
510	2-22	120P / 131P	Moon-Eckert	40.0	62.9	2.77	2.52	174.		.6	10	-.02	FC 22
511	2-24	851A / 922A	U.S.E.D.	113.0	745.	8.52	9.47	6350.		.6	12	+1.05	US 1
512	2-25	950A / 1005A	Moon	38.0	42.6	1.63	1.89	69.6		.6	10	0	FC 22
513	2-27	904A / 918A	"	38.0	33.5	1.35	1.71	45.2		.6	11	0	"
514	2-28	153P / 230P	U.S.E.D.	118.0	744.	8.65	9.79	6450.		.6	13	+4.2	US 1
515	2-28	231P / 307P	"	128.0	1050.	9.31	11.54	9790.		.6	14	+.48 -1.26	"
516	2-28	330P / 354P	"	118.0	768.	8.10	9.65	6220.		.6	12	-.04 +.04	"

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 41

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.
517	2-28	410P / 446P	U.S.E.D.	132.0	1130.	9.74	12.28	11000.		.6	14	+1.60 -.55	US 1
518	2-28	959P / 1030P	"	83.0	337.	4.39	5.92	1480.		.6	8	-1.06	"
519	3-1	322P / 333P	Moon-Mellen	39.0	101.	2.42	2.88	244.		.6	10	-.05	FC 22
520	3-2	1125A / 1135A	Moon-Mellen	40.0	93.1	2.30	2.74	214.		.6	10	-.04	FC 22
521	3-3	246P / 302P	Moon	41.5	54.8	1.58	2.05	86.9		.6	11	0	"
522	3-3	1012P / 1048P	Moon-Mellen	122.0	844.	8.93	10.75	7540.		.6	11	-1.60	"
523	3-3	1130P / 1151P	U.S.E.D.	99.0	469.	5.72	7.10	2680.		.6	11	-.70	US 1
524	3-4	408A / 455A	"	120.0	940.	9.50	10.92	8940.		.6	13	+2.07 -1.87	"
525	3-4	300P / 324P	"	84.0	269.	3.87	5.45	1080.		.6	7	-.30	"
526	3-5	1111A / 1125A	Moon	39.0	65.4	2.72	2.53	178.		.6	10	-.01	FC 22
527	3-6	901A / 917A	"	41.0	56.8	2.09	2.14	119.		.6	11	0	"
528	3-10	228P / 243P	"	41.0	39.1	1.58	1.84	61.9		.6	10	0	"
529	3-12	435P / 511P	U.S.E.D.	104.0	568.	8.31	8.34	4710.		.6	11	+1.10	US 1
530	3-12	512P / 535P	"	107.0	596.	7.23	8.45	4310.		.6	11	+.10 -.80	"
531	3-13	940A / 950A	Moon-Eckert	39.5	48.7	2.44	2.20	119.		.6	10	-.01	FC 22
532	3-20	1026A / 1042A	Moon	37.0	26.0	1.17	1.73	30.5		.6	10	+.02	"
533	3-27	947A / 1002A	"	38.0	22.2	1.16	1.66	25.7		.6	10	-.01	"
534	3-28	821P / 902P	Moon-Eckert	96.0	401.	6.48	7.05	2600.		.6	9	+.26 -1.00	"
535	3-29	945A / 955A	" "	39.5	39.6	1.68	1.91	66.2		.6	11	-.02	"
536	3-31	1040A / 1059A	Moon-Andren	99.0	449.	7.40	7.52	3330.		.6	10	-.56	"
537	3-31	110P / 127P	U.S.E.D.	68.0	225.	4.56	4.69	1020.		.6	7	-.72	US 1
538	3-31	804P / 909P	"	110.0	690.	9.25	9.40	6380.		.6	12	+2.05 -.35	"
539	4-1	941A / 952A	Moon-Mellen	51.0	103.	2.73	2.89	281.		.6	11	-.02	FC 22
540	4-3	1045A / 1100A	Moon	37.0	33.6	0.83	1.61	27.9		.6	11	0	"
541	4-5	751A / 802A	Moon-Eckert	43.0	39.6	1.48	1.95	58.9		.6	10	0	FC22
542	4-10	816A / 830A	Moon	38.5	34.7	1.10	1.77	38.2		.6	10	0	"
543	4-11	222P / 232P	Moon-Eckert	40.0	53.6	1.75	2.08	94.5		.6	11	-.03	"
544	4-17	915A / 926A	Moon	16.8	9.86	1.44	1.54	14.2		.6	9	0	FC 22
545	4-24	900A / 910A	"	17.5	9.65	1.26	1.33	12.2		.6	9	0	"
546	4-30	608A / 628A	"	91.0	333.	6.80	6.54	2270.		.6	9	+.28 -.11	"
547	4-30	305P / 320P	Moon-Mellen	58.0	87.6	3.33	2.85	292.		.6	14	-.10	"
548	5-1	929A / 947A	Moon	Two Channels			1.61	17.3		.6	12	0	"
549	5-8	910A / 925A	"	" "			1.56	10.9		.6	11	-.02	"
550	5-15	942A / 958A	"	" "			1.57	10.2		.6	12	0	"
551	5-22	910A / 925A	"	" "			1.51	6.2		.6	13	-.02	"
552	5-29	903A / 920A	"	" "			1.51	7.4		.6	14	+.10	"
553	6-5	859A / 912A	"	" "			1.49	4.8		.6	11	-.01	"
554	6-12	905A / 917A	"	" "			1.44	3.7		.6	10	0	"
555	6-19	920A / 935A	"	" "			1.55	9.5		.6	13	0	"
556	6-26	917A / 933A	"	" "			1.58	11.7		.6	13	0	"
557	7-3	908A / 923A	"	" "			1.52	5.9		.6	13	0	"
558	7-10	919A / 940A	"	" "			1.52	4.1		.6	10	0	"
559	7-17	902A / 915A	"	" "			1.53	5.3		.6	10	-.01	"
560	7-24	850A / 909A	"	" "			1.58	10.5		.6	14	-.01	"
561	7-31	933A / 945A	"	" "			1.53	7.2		.6	12	0	"
562	8-7	858A / 915A	"	" "			1.58	10.9		.6	14	0	"
563	8-13	929A / 942A	"	" "			1.50	5.6		.6	12	-.01	"
564	8-20	1020A / 1032A	"	" "			1.47	5.1		.6	13	0	"
565	8-27	1039A / 1050A	Bonadiman	" "			1.44	4.0		.6	7	0	FC 40
566	9-3	945A / 1000A	"	" "			1.48	5.3		.6	8	0	"
567	9-11	906A / 918A	Moon	" "			1.46	4.6		.6	11	0	FC 22
568	9-18	940A / 953A	Moon	Two Channels			1.48	4.9		.6	12	-.01	FC 22
569	9-25	915A / 930A	"	" "			1.50	5.1		.6	13	0	FC 42

P.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

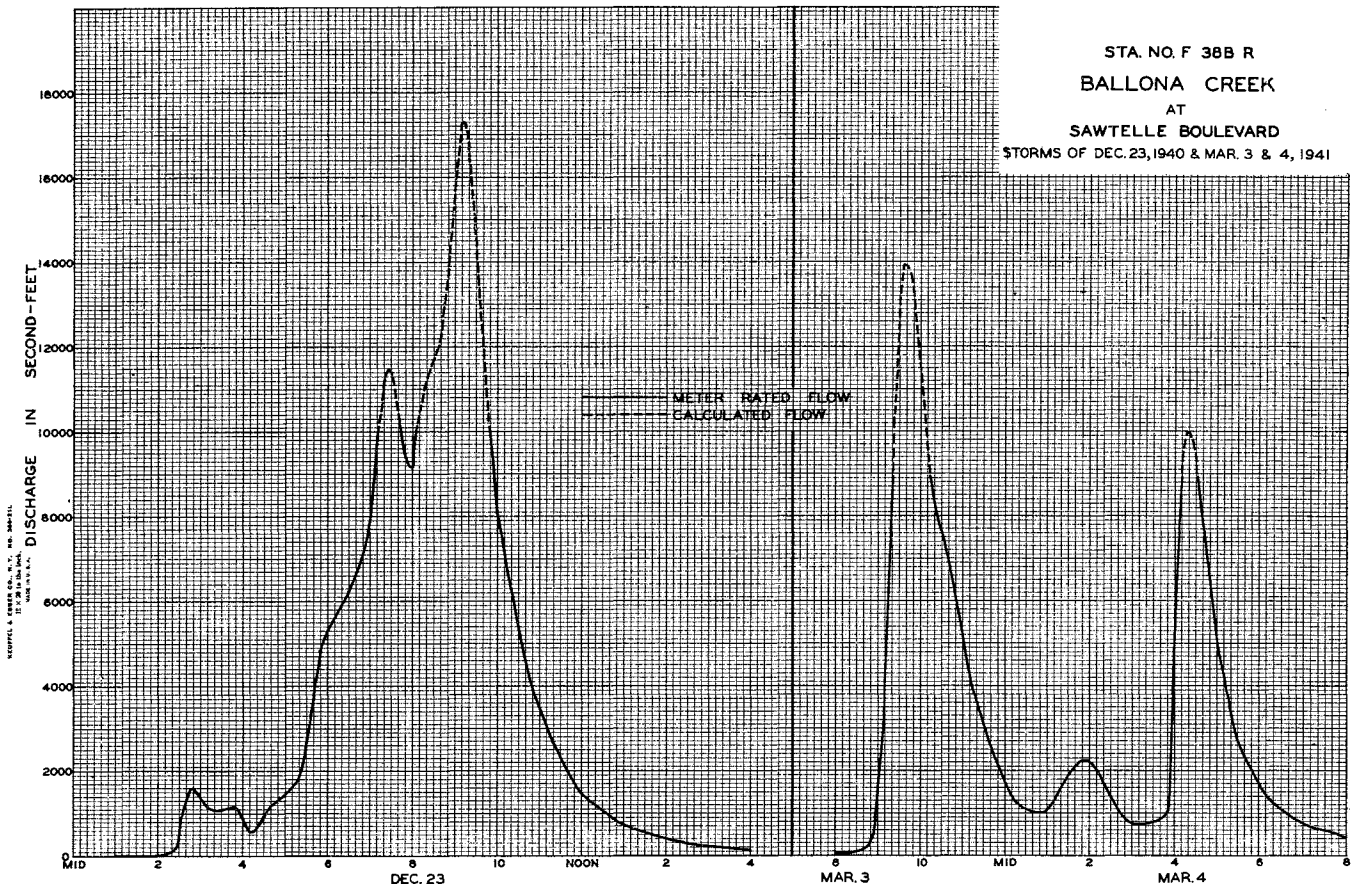
Sta. No F38B-R

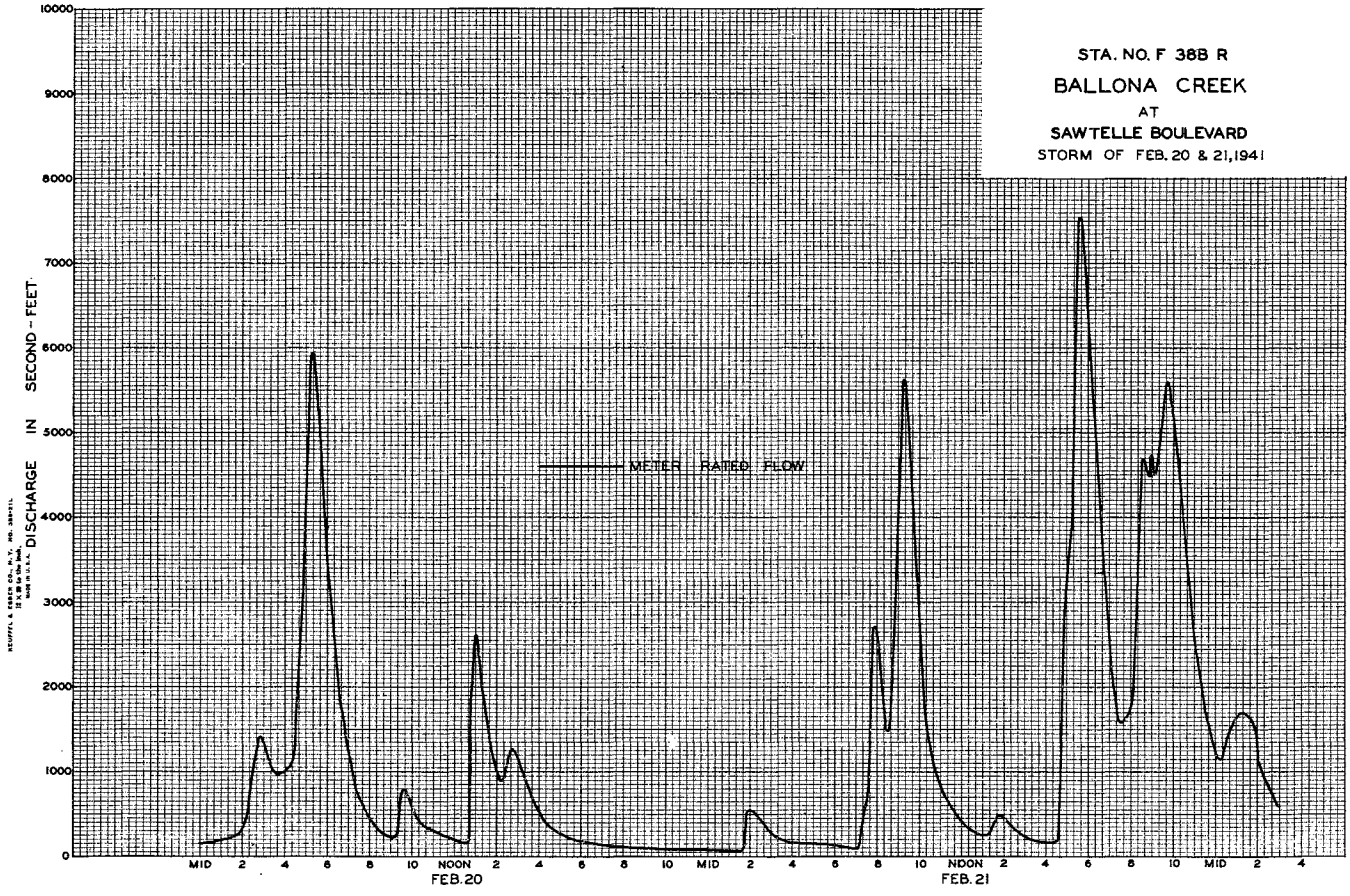
Daily discharge, in second-feet of BALLONA CREEK at Sawtelle Boulevard for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5	6	6	7	7	706	324	23	10	12	9	5.5
2	4.5	6	6.5	9	7	692	157	16	7.5	13	9.5	E 5.5
3	3.9	5	5.5	7	8	959	36	15	7.5	10	9	E 6
4	3.9	8	6.5	7	7.5	1400	363	11	9.5	10	8	7
5	3.9	6.5	6	6	27	200	67	11	7.5	12	8	7
6	3.1	5	6.5	7.5	1070	122	40	10	7.5	9.5	9	6
7	3.7	6	6.5	86	13	100	44	9.5	8	11	9	5.5
8	4.8	8	5.5	11	64	74	40	13	6	11	9.5	5.5
9	5.5	5	7	5.5	35	61	54	15	7.5	12	10	5.5
10	4.2	3.5	8	6.6	30	57	202	15	9	10	9.5	6
11	3.1	4.8	11	8	429	46	330	14	8	11	9.5	7
12	3.5	5.5	20	4.4	29	848	163	14	7.5	11	10	7.5
13	3.1	6	11	6	35	137	36	13	7.5	9	7.5	7
14	3.7	5	6.5	74	1170	70	34	13	9.5	10	7.5	6
15	4.8	6	4.8	6	795	43	28	11	8	9.5	7.5	6
16	4.8	4.5	858	5	521	36	23	11	12	10	30	E 6
17	6	21	486	4.4	1460	39	18	9.5	7.5	9.5	E 10	E 6
18	7	42	611	4.4	60	36	16	7	13	10	E 9	E 6
19	6.5	4.2	15	4.4	309	35	14	8	13	9.5	E 9	9
20	6.5	4.2	10	15	817	28	13	9.5	18	6	E 9	7
21	7.5	4.2	8	154	1660	30	13	10	15	8	9	6
22	8	6	7.5	126	740	25	14	10	14	7.5	9	8
23	7.5	6	2430	255	59	24	14	9.5	18	8	8	6
24	6	3.9	1090	1200	508	31	15	9	19	8	7.5	6
25	444	6	16	9	68	31	13	7.5	11	8	7.5	7
26	113	6.5	12	59	56	30	14	9	14	9.5	8	8
27	20	6	10	8	46	27	11	9	11	8	7.5	7.5
28	7.5	6	32	7.5	2680	471	14	8	10	9	10	7
29	7	6	159	8		433	18	9	8	9	7.5	7
30	6	6	14	7.5		31	549	8	11	9	7	9
31	6		11	7		1290		10		8	6	
	724.0	218.8	5886.8	2184.6	12710.5	8112	2677	347.5	315.0	298.0	286.5	198.5
MEAN	23.4	7.29	190	70.5	454	262	89.2	11.2	10.5	9.61	9.24	6.62
ACRE-FEET	1440	434	11680	4330	25210	16090	5310	689	625	591	568	394

Remarks: E = estimated.

YEAR OR PERIOD MEAN 93.0
ACRE-FEET 67360


STA. NO. F 38B R
BALLONA CREEK
AT
SAWTELLE BOULEVARD
STORMS OF DEC. 23, 1940 & MAR. 3 & 4, 1941
DISCHARGE IN SECOND-FEET
METER RATED FLOW
CALCULATED FLOW
DEC. 23
MAR. 3
MAR. 4


STA. NO. F 38B R
BALLONA CREEK
AT
SAWTELLE BOULEVARD
STORM OF FEB. 20 & 21, 1941
DISCHARGE IN SECOND-FEET
METER RATED FLOW
FEB. 20
FEB. 21

STATION F12OR

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, 1940 to September 30, 1941.

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, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 67 second-feet, March 5.
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.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F12OR

DISCHARGE MEASUREMENTS OF BIG DALTON CREEK

at below Big Dalton Dam DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
20	12-24	115P / 120P	Brewster & Smith	3.0	0.77	1.49	0.08	1.2		.6	3	0	FC 24
21	12-25	900A / 905A	Brewster	0.5	0.12	0.67	0.01	0.08		.6	1	0	"
22	12-31	1115A / 1118A	Brewster	0.5	0.12	0.17	0.01	0.02		.6	1	0	FC 24
23	2-12	1022A / 1025A	"	2.0	0.24	0.42	0.03	0.10		.6	2	0	"
24	2-17	105P / 110P	Brewster & Smith	2.5	0.39	1.03	0.07	0.40		.6	4	0	"
25	2-19	1016A / 1020A	Brewster	1.0	0.24	1.17	0.04	0.28		.6	2	0	"
26	2-22	1025A / 1030A	Brewster & Smith	4.0	0.94	0.88	0.06	0.83		.6	4	0	"
27	2-26	940A / 952A	Brewster	8.5	7.57	2.46	0.61	18.6		.6	9	0	"
28	2-26	950P / 1000P	VanderGoot	9.0	7.41	2.41	0.59	17.8		.6	8	0	FC 13
30	3-3	445P / 455P	Brewster	6.0	3.10	1.78	0.28	5.5		.6	6	0	FC 24
31	3-6	925A / 945A	Brewster & Smith	35.0	22.4	2.98	1.46	66.6		.6	11	0	"
32	3-13	520P / 530P	" "	12.0	7.20	2.34	0.57	16.8		.6	6	0	"
33	3-17	1130A / 1140A	Brewster	11.0	10.2	2.96	0.81	30.1		.6	7	0	"
34	3-19	1040A / 1050A	"	12.0	10.0	2.81	0.79	28.1		.6	7	0	"
35	3-21	1100A / 1110A	Brewster & Keiser	12.0	6.72	2.04	0.49	13.7		.6	6	0	"
36	3-26	1140A / 1150A	Brewster	11.0	6.64	1.92	0.47	12.8		.6	6	0	"
37	4-2	1039A / 1045A	"	7.0	2.38	0.42	0.10	1.0		.6	4	0	"
38	4-9	1050A / 1100A	"	7.0	2.94	0.50	0.10	1.0		.6	4	0	"
39	4-12	1115A / 1130A	Green	10.4	6.46	1.49	0.38	9.6		.6	11	0	FC 19
40	4-12	250P / 300P	"	9.0	6.05	1.65	0.38	10.4		.6	10	0	"
41	4-14	1155A / 1210P	Brewster	11.0	5.78	1.67	0.39	9.7		.6	11	0	FC 24
42	4-16	1034A / 1050A	"	11.0	5.96	1.60	0.39	9.5		.6	11	0	"
43	4-23	1024A / 1030A	"	4.0	1.42	0.39	0.08	0.55		.6	4	0	"
44	4-30	222P / 230P	"	4.0	1.50	0.44	0.09	0.66		.6	4	0	"
45	5-7	1039A / 1045A	"	8.0	2.12	0.40	0.08	0.86		.6	4	0	"
46	5-10	320P / 325P	Green	2.5	0.88	0.61	0.07	0.55		.6	5	0	FC 19
47	5-14	1024A / 1030A	Brewster	6.0	1.94	0.38	0.07	0.74		.6	4	0	FC 24
48	5-21	1020A / 1030A	"	4.0	1.02	0.59	0.55	0.60		.6	5	0	"
49	5-24	130P / 140P	Green	8.8	4.18	0.98	1.18	4.1		.6	9	-.02	FC 19
50	5-28	1025A / 1035A	Brewster	9.0	4.02	0.70	1.04	2.8		.6	6	0	FC 24
51	6-4	1035A / 1045A	"	9.0	3.58	0.56	0.91	2.0		.6	6	0	"
52	6-7	1245P / 1255P	Green	6.3	2.86	0.64	0.94	2.0		.6	7	-.01	FC 19
53	6-21	325P / 330P	"	6.7	3.83	1.07	1.23	4.1		.6	7	0	"

F.C. Dist. Form 55 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No F12OR

Daily discharge, in second-feet of BIG DALTON CREEK below Big Dalton Dam, for the year ending September 30, 1941

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	0	0	0	0	E 1.0	1.1	0.5	2.1	6	6	4.9
2	+	0	0	0	0	E 1.0	1.1	0.5	2.1	6	6	4.8
3	+	0	0	0	0	E 3.1	0.9	0.6	2.0	4.6	6	4.6
4	+	0	0	0	0	E 1.2	1.4	0.6	2.1	1.8	6	4.5
5	+	0	0	0	0	E 4.7	2.3	0.6	2.1	4.9	6	4.5
6	+	0	0	0	+	6.6	1.9	0.8	2.2	6	6	4.4
7	+	0	0	0	0	6.6	1.9	0.9	2.2	5.5	6	4.4
8	+	0	0	0	0	3.4	1.6	0.9	2.1	5.5	6	4.4
9	+	0	0	0	0	1.7	0.9	0.8	1.9	5.5	6	4.3
10	+	0	0	0	0	1.7	1.2	0.6	1.6	5.5	6	4.3
11	+	0	0	0	0.2	1.7	4.6	0.6	1.8	5.5	6	4.0
12	+	0	0	0	0.1	1.7	10	0.6	1.7	5.5	6	4.7
13	+	0	0	0	0.1	1.8	10	0.8	2.5	5.5	5.5	5
14	+	0	0	0	0.1	3.2	10	0.8	2.8	5.5	5.5	4.9
15	+	0	0	0	0.2	2.7	10	0.8	2.8	5.5	5.5	4.8
16	+	0	0	0	0.4	2.0	9.5	0.8	2.8	5.5	5.5	4.7
17	+	0	0	0	0.3	3.0	9.5	0.8	2.8	5.5	5.5	4.5
18	0	0	0	0	0.2	3.0	9.5	0.8	2.8	5.5	5.5	4.4
19	0	0	0	0	0.3	2.1	9.5	0.8	3.7	5.5	5.5	4.2
20	0	0	0	0	0.4	1.4	9.5	0.6	4.2	5.5	5.5	4.2
21	0	0	0	0	0.4	1.4	9.5	0.6	4.2	5.5	5	4.5
22	0	0	0	0	6.5	1.4	10	0.8	4.2	6	5	4.4
23	0	0	0.4	0	2.1	1.4	3.7	2.3	4.2	6.5	5	4.0
24	0	0	0.8	0.3	2.1	1.4	0.5	2.6	5.5	6.5	5	3.4
25	0	0	0.2	0.4	2.0	1.3	0.5	2.9	6	6.5	5	2.0
26	0	0	0.1	0.3	1.9	1.3	0.5	2.3	6	6.5	5	+
27	0	0	0.1	0.1	2.9	1.3	0.5	2.3	6	6.5	5	+
28	0	0	0.1	0	E11	7.5	0.5	2.3	6	6.5	5	0
29	0	0	0.1	0		1.1	0.6	2.3	6	6	5	0
30	0	0	0.1	0		1.1	0.6	2.2	6	6	5	0
31	0		0.1	0		1.1		2.2		6	4.9	
	+ 0		2.0	1.1	130.2	595.9	133.3	37.0	102.4	174.8	170.9	108.8
MEAN	+	0	0.06	0.04	4.65	19.2	4.44	1.19	3.41	5.64	5.51	3.63
ACRE-FEET	+	0	4.0	2.2	258	1180	264	73	203	347	339	216

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

YEAR OR PERIOD: Mean 3.99; ACRE FEET 2890

STATION F274R

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.
A Horizontal Rational recorder was in service from October 1, 1940 to January 21 1941. An H.C.F. continuous recorder was in service from January 21, 1941 to September 30, 1941.

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, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 674 second-feet March 13.
Minimum no flow at various times.

ACCURACY:

Fair.
Flows frequently estimated during summer months due to 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. F274R

DISCHARGE MEASUREMENTS OF DALTON WASH

AT Merced Avenue DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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	MEAS. METH OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1	12-10	1005A 1015A	Brewster	5.0	1.58	1.67	1.33	2.6		.6	5	0	FC 24
2	12-16	940A 950A	Brewster-Smith	10.0	2.84	0.90	1.40	2.6		.6	5	0	"
3	12-16	241P 249P	Hall-Haig	15.0	1.61	0.87	1.30	1.4		.6	6	-.02	FC 33
4	12-17	1206A 1214A	Haig-Hall	31.0	18.3	3.75	1.97	68.7		.6	6	0	"
5	12-17	520A 524A	Hall-Haig	30.0	11.5	2.95	1.66	33.9		.6	6	-.04	"
6	12-17	242P 250P	Brewster-Smith	9.0	2.42	1.26	1.33	3.0		.6	5	-.02	FC 24
7	12-23	1100A 1135A	Linden-Wallace	36.5	67.5	6.59	3.26	444.		.6	12	-.44	FC 23
8	12-24	1130A 1147A	Wallace-Linden	30.0	23.9	4.52	1.98	108.		.6	11	-.25	"
9	12-24	410P 420P	Brewster-Smith	11.0	2.66	1.15	1.41	3.1		.6	5	-.02	FC 24
10	1-2	335P 340P	Brewster	3.0	0.46	0.26	1.20	0.12		.6	3	0	"
11	1-16	335P 341P	"	4.0	0.70	0.57	1.25	0.40		.6	4	0	"
12	1-24	420A 425A	Haig-Trentham	26.0	8.52	2.17	1.60	18.5		.6	6	0	FC 33
13	1-24	945A 957A	Brewster-Smith	24.0	10.2	1.92	1.63	19.6		.6	7	-.02	FC 24
14	1-24	100P 104P	Haig-Trentham	26.0	4.97	0.90	1.45	4.5		.6	5	0	FC 33
15	2-6	1045A 1055A	Brewster-Smith	24.0	5.38	1.07	1.46	5.8		.6	7	0	FC 24
16	2-11	134P 146P	" "	28.0	23.7	4.12	2.00	97.7		.6	8	0	"
17	2-14	520P 535P	" "	27.0	20.0	3.82	1.87	76.6		.6	8	0	"
18	2-14	810P 822P	" "	27.0	19.1	3.32	1.80	63.5		.6	8	-.01	"
19	2-15	1015A 1020A	" "	6.0	1.22	0.84	1.29	1.0		.6	4	0	"
20	2-15	435P 445P	" "	31.0	26.5	4.17	1.94	111.		.6	9	-.01	"
21	2-16	1001A 1010A	" "	8.0	1.53	0.86	1.30	1.3		.6	4	0	"
22	2-17	234A 239A	Haig-Trentham	24.5	3.65	0.78	1.36	2.8		.6	6	0	FC 33
23	2-17	715A 725A	Brewster-Smith	24.0	11.0	2.60	1.60	28.6		.6	7	+.01	FC 24
24	2-17	342P 347P	" "	5.0	0.91	0.85	1.27	0.77		.6	3	0	"
25	2-19	852P 900P	Wallace-Linden	36.5	64.6	7.76	3.56	501.		.6	10	+.02	FC 23
26	2-19	925P 940P	" "	36.5	63.5	7.70	3.64	489.		.6	7	-.11	"
27	2-20	508A 515A	" "	27.0	13.0	2.68	1.58	34.9		.6	6	0	"
28	2-21	820A 832A	Linden-Wallace	29.5	19.3	4.25	1.88	82.1		.6	8	+.02	"
29	2-21	1125A 1140A	Brewster-Smith	28.0	16.6	3.11	1.69	51.6		.6	8	-.02	FC 24
30	2-22	1125A 1140A	" "	26.0	10.7	2.15	1.56	23.0		.6	8	-.01	"
31	2-24	850A 900A	Brewster	20.0	9.28	2.01	1.50	18.6		.6	6	0	"
32	2-25	925A 935A	"	19.0	5.22	1.30	1.40	6.8		.6	6	0	"
33	2-28	830A 845A	"	19.0	5.97	1.42	1.42	7.2		.6	6	0	"
34	2-28	703P 716P	Wallace-Linden	36.5	55.4	7.01	3.14	388.		.6	9	+.07	FC 23
35	3-1	233A 244A	Linden-Wallace	28.0	16.0	3.44	1.74	55.0		.6	10	-.01	"
36	3-1	938A 950A	Brewster-Smith	26.0	17.4	4.21	1.82	73.3		.6	8	-.01	FC 24
37	3-2	1020A 1028A	Linden-Wallace	26.0	10.5	2.19	1.56	23.4		.6	7	0	FC 23
38	3-2	105P 115P	Brewster-Smith	27.0	12.5	2.91	1.60	36.4		.6	8	0	FC 24
39	3-4	1202A 1216A	Wallace-Linden	36.5	64.0	7.66	3.66	490.		.6	8	+.02	FC 23
40	3-4	650A 700A	Linden-Wallace	29.0	19.2	4.54	1.88	87.1		.6	7	+.06	"
41	3-4	208P 220P	Brewster-Smith	30.0	31.0	5.00	2.19	155.		.6	8	-.06	FC 24
42	3-4	705P 721P	Linden-Wallace	36.5	58.8	6.72	3.18	395.		.6	8	+.04	FC 23
43	3-6	150P 200P	Brewster-Smith	26.0	9.54	1.89	1.54	17.9		.6	7	-.01	FC 24
44	3-12	200P 215P	" "	26.0	9.54	2.43	1.55	23.2		.6	7	0	"
45	3-12	446P 457P	Linden-Wallace	36.5	65.2	7.25	3.32	473.		.6	9	-.15	FC 23
46	3-13	253A 305A	Wallace-Linden	36.5	74.9	8.72	4.07	653.		.6	8	+.15	FC 23
47	3-13	1120A 1130A	Brewster-Smith	27.0	11.6	2.72	1.60	31.6		.6	7	0	FC 24
48	3-20	1130A 1136A	Brewster	4.0	0.72	0.85	1.27	0.61		.6	4	0	"
49	3-27	410P 414P	"	2.0	0.22	0.27	1.18	0.06		.6	2	-.01	"
50	3-29	100P 105P	Brewster-Smith	8.0	1.64	1.11	1.29	1.8		.6	4	0	"
51	3-31	116P 126P	Linden-Wallace	28.0	17.0	3.65	1.76	61.6		.6	7	+.03	FC 23
52	4-1	251P 300P	Brewster-Smith	18.0	4.36	1.19	1.40	5.2		.6	5	0	FC 24
53	4-7	120P 130P	Brewster	14.0	3.18	0.92	1.35	2.9		.6	5	0	"
54	4-10	450P 500P	"	18.0	4.90	1.35	1.46	6.6		.6	6	+.01	"
55	4-11	210P 220P	"	18.0	7.24	2.35	1.55	16.6		.6	6	0	"
56	4-17	357P 407P	"	16.0	5.06	1.31	1.38	6.6		.6	5	0	"
57	4-24	440P 450P	"	15.0	4.41	1.30	1.37	5.7		.6	5	0	"
58	4-30	408P 420P	"	20.0	7.98	2.48	1.52	19.8		.6	6	-.01	"
59	5-1	434P 440P	"	4.0	0.79	0.77	1.20	0.54		.6	4	-.01	"
60	5-8	342P 345P	"	2.0	0.22	0.27	1.12	0.06		.6	2	0	"
61	6-26	524P 530P	"	4.0	0.70	0.81	1.19	0.57		.6	4	0	"
62	7-3	310P 316P	"	8.0	1.40	0.93	1.25	1.3		.6	4	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

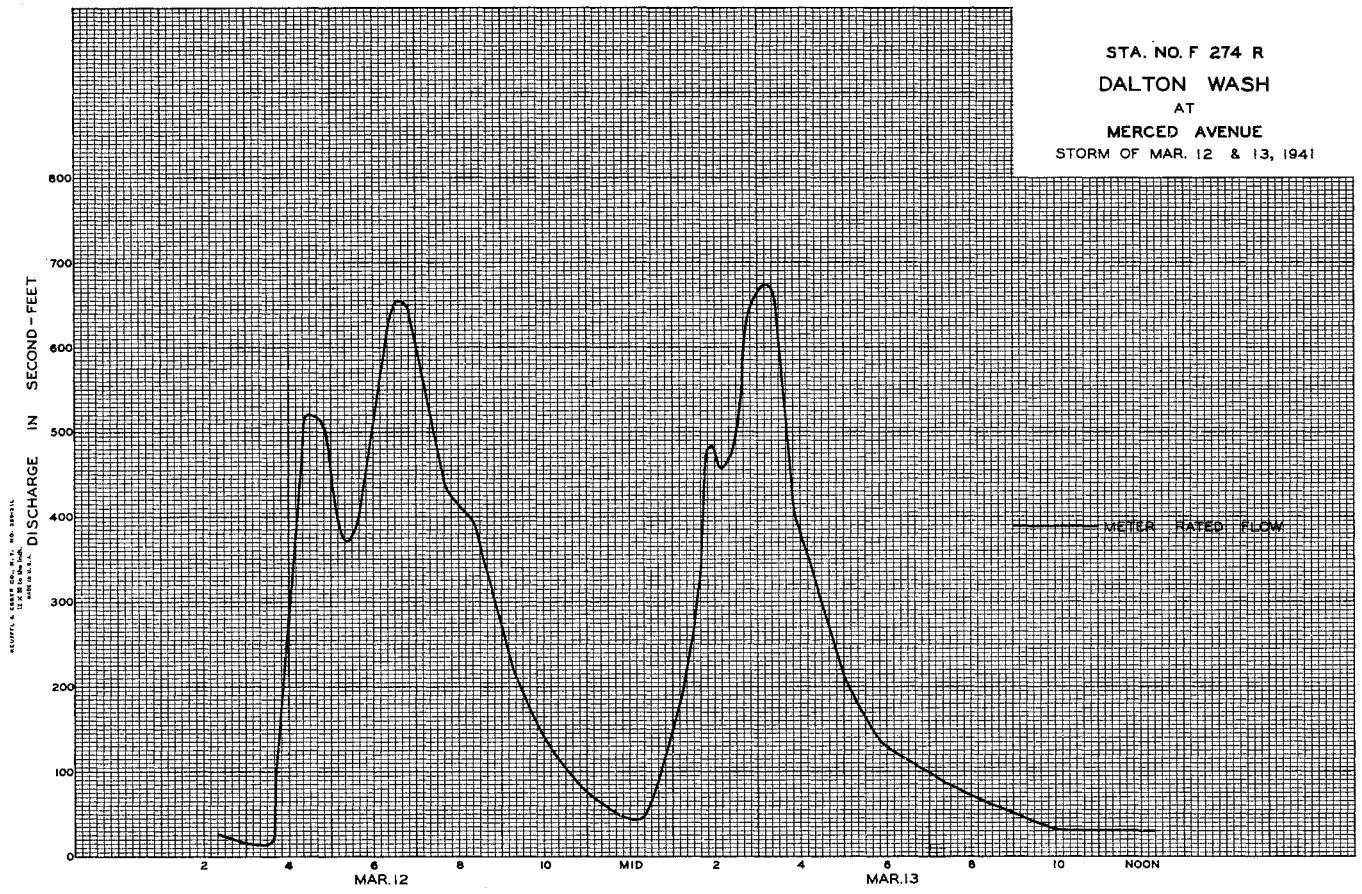
Sta. No. F274R

Daily discharge, in second-feet of DALTON WASH at Merced Avenue, for the year ending September 30, 1941

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	1.9	+	0	36	17	3.9	0.4		0	
2	0	0	1.4	0.1	0	25	8.5	3.7	0.3		0	
3	0	0	0.1	0	0	20	0	7	0.4		+	
4	0	0	+	1.3	0	206	7.5	3.4	+		0.5	
5	0	0	0	1.2	0	63	11	2.2	0.8		+	for period
6	0	0	0	1.2	3.2	46	2.9	1.9	0.7		0.8	
7	0	0	1.4	0.7	3.4	51	2.6	0.7	0.5		0.7	
8	0	0	1.7	0	1.8	25	4.1	0.1	0		+	
9	0	0	1.7	0	0.1	0	7	0.6	0.3	for period	+	
10	0	0	1.8	0.9	0.8	0	13	4.5	+		0	
11	0	0	0.7	0	18	0	26	0.2	0.2		0.9	
12	0	0	+	0	1.7	122	20	0.1	0.6		0	
13	0	0	0.1	1.8	0.9	104	9.5	+	0.3		+	5.2
14	0	0	0	0.4	18	48	4.1	0.4	0		+	
15	0	0	0.7	0.3	22	5	4.8	0.7	+	12.1		
16	0	0	9	0.3	3.0	3.7	2.2	4.8	+			
17	0	0	5.6	0.2	7.5	1.5	5	4.5	0.3		for period	
18	0	0	7.5	0.1	0.5	0.8	10	4.1	0.3			
19	0	0.3	+	0	68	0.2	10	3.4	0.3	total		total
20	0	0	0	0	147	0.1	10	1.5	1.1			
21	0	0.2	0	0	58	0.2	6	0	0.9			
22	0	0.5	0	0	31	0.3	7	0	1.3			
23	0	0.6	8.2	0	9	0.3	6	0.2	1.4			
24	0	+	6.6	1.3	1.2	0.2	8	0.8	2.7		3.3	+
25	0	0	0	0.3	8	0.1	10	0.5	1.5			0.8
26	0	0.5	0	1.0	7	0.1	11	+	1.3			0
27	0	0	0	0.6	7	+	11	0.5				0
28	0	0	0	0.5	9.2	2.8	7	0.1	2.4			0
29	0	0	0	0.2		20	4.5	0.3			total	0
30	0	0.4	0	0		+	14	1.2				0
31	0		0	0		23		0				
	0	25	232.0	24.1	519.9	804.3	259.7	E 51.3	E 18.0	E121	E 62	E 6.0
Mean	0	0.08	7.48	0.08	18.6	25.9	8.66	1.65	0.60	0.39	0.20	0.20
Acre-Feet	0	5.0	460	48	1030	1600	515	102	36	24	12	12

Remarks: Records unreliable subsequent to 5-8-41
E = estimated

Year or Period — Mean 5.30 — Acre-Feet 3840



STATION F111B-R

BIG TUJUNGA CREEK above Edison Road

LOCATION:

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

DRAINAGE AREA:

67 square miles.

CHANNEL AND CONTROL:

Channel-gravel and boulders.
No artificial control.

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed on November 30, 1930 at Station F111R: removed August 17, 1932.
Installed on September 15, 1932 at Station F111B-R over a 24 inch diameter corrugated iron pipe stilling well.
An Au continuous recorder was in service from October 1, 1940 to September 30, 1941.

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, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 1375 second-feet, February 20.
Minimum 0.7 second-foot.
1930-1941 (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 sand obstructing communication.

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 BIG TUJUNGA CREEK

[redacted] above Edison Road DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
255	10-10	230P / 240P	Turner	5.0	1.07	0.75	5.93	0.8		.6	6	0	FC 5
256	10-31	105P / 112P	"	6.0	1.50	0.79	5.99	1.2		.6	6	0	"
257	11-14	235P / 245P	"	6.3	1.53	0.78	5.97	1.2		.6	6	0	"
258	11-20	245P / 255P	"	6.3	1.73	0.87	6.00	1.5		.6	7	0	"
259	11-28	200P / 210P	"	6.5	1.77	0.82	6.00	1.4		.6	7	0	"
260	12-12	210P / 220P	"	6.5	1.83	1.00	6.02	1.8		.6	7	0	"
261	12-19	1105A / 1115A	"	10.0	2.95	1.75	6.20	5.1		.6	8	0	"
262	12-26	1155A / 1205P	"	14.5	6.12	3.12	6.60	19.1		.6	9	0	"
263	12-30	1248P / 1258P	"	11.2	6.58	1.53	6.34	10.1		.6	7	0	"
264	1-2	135P / 147P	"	14.0	5.43	1.55	6.24	8.5		.6	8	0	"
265	1-9	1220P / 1230P	"	11.0	2.97	1.77	6.29	5.2		.6	6	0	"
266	1-21	210P / 220P	"	9.5	3.00	1.71	6.21	5.1		.6	7	0	"
267	1-29	920A / 932A	"	14.2	5.56	2.17	6.36	12.1		.6	8	0	"
268	2-5	135P / 145P	"	14.5	4.13	1.57	6.27	6.5		.6	8	0	"
269	2-13	1155A / 1210P	"	22.0	11.6	4.04	7.04	46.9		.6	11	0	"
270	2-18	410P / 420P	"	35.5	31.2	3.91	7.58	122.		.6	8	0	"
271	2-23	1242P / 101P	Moon	45.0	49.9	5.23	8.32	261.		.6	8	-.02	FC 22
272	2-23	200P / 221P	"	45.0	49.0	5.43	8.27	266.		.6	8	-.02	"
273	2-26	1219P / 1235P	Moon-Giggar	34.0	32.2	4.29	7.79	138.		.6	11	-.02	"
274	3-2	1150A / 1212P	Turner	41.0	59.6	6.31	8.50	376.		.6	9	0	FC 5
275	3-5	1205P / 1225P	"	57.0	84.5	6.57	9.07	555.		.6	12	0	"
276	3-9	1035A / 1050A	"	39.0	50.5	5.11	8.03	258.		.6	9	0	"
277	3-12	845A / 900A	"	37.0	42.1	5.12	7.87	216.		.6	11	0	"
278	3-20	1110A / 1130A	"	36.0	38.5	3.88	7.48	149.		.6	17	0	"
279	3-22	1050A / 1108A	Turner	35.0	36.8	3.59	7.33	132.		.6	17	0	FC 5
280	3-26	1230P / 1250P	"	34.0	32.6	2.79	7.06	91.1		.6	17	0	"
281	3-29	235P / 250P	"	34.0	37.8	4.26	7.62	161.		.6	9	-.01	"
282	4-2	1135A / 1150A	"	38.0	53.1	4.14	7.84	220.		.6	15	0	"
283	4-9	1105A / 1125A	"	36.0	50.2	3.05	7.52	153.		.6	12	0	"
284	4-17	1125A / 1145A	"	36.0	49.2	3.29	7.57	162.		.6	17	0	"
285	4-24	130P / 150P	"	34.0	42.2	2.76	7.24	117.		.6	17	0	"
286	4-28	1040A / 1100A	"	35.0	41.0	2.41	7.14	99.1		.6	17	0	"
287	5-1	305P / 325P	"	36.0	41.2	2.82	7.26	116.		.6	17	0	"
288	5-5	1040A / 1100A	"	34.0	37.3	2.31	7.00	86.4		.6	17	0	"
289	5-8	855A / 920A	"	34.0	35.3	2.21	6.91	78.1		.6	17	0	"
290	5-8	920A / 1005A	"	34.0	35.3	2.15	6.90	75.6	.2 / .8	17		-.01	"
291	5-12	920A / 940A	"	33.0	32.4	2.16	6.80	69.7		.6	17	0	"
292	5-15	1045A / 1105A	"	31.0	30.4	2.11	6.73	64.1		.6	17	0	"
293	5-22	1105A / 1130A	"	32.0	27.6	1.92	6.57	52.7		.6	17	0	"
294	5-29	1150A / 1210P	"	30.0	24.9	1.85	6.48	45.7		.6	15	0	"
295	6-5	930A / 955A	"	29.5	23.4	1.79	6.42	41.9		.6	16	0	"
296	6-11	130P / 150P	"	28.5	20.4	1.62	6.28	32.6		.6	16	0	"
297	6-19	145P / 210P	"	29.0	18.8	1.44	6.21	27.2		.6	16	0	"
298	6-26	1125A / 1145A	"	22.0	16.7	1.62	6.21	27.0		.6	12	0	"
299	7-24	1020A / 1035A	"	22.0	11.6	1.06	5.91	12.2		.6	11	0	"
300	8-20	1020A / 1035A	Luce	22.7	11.1	0.83	5.79	9.1		.6	12	0	FC 39

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

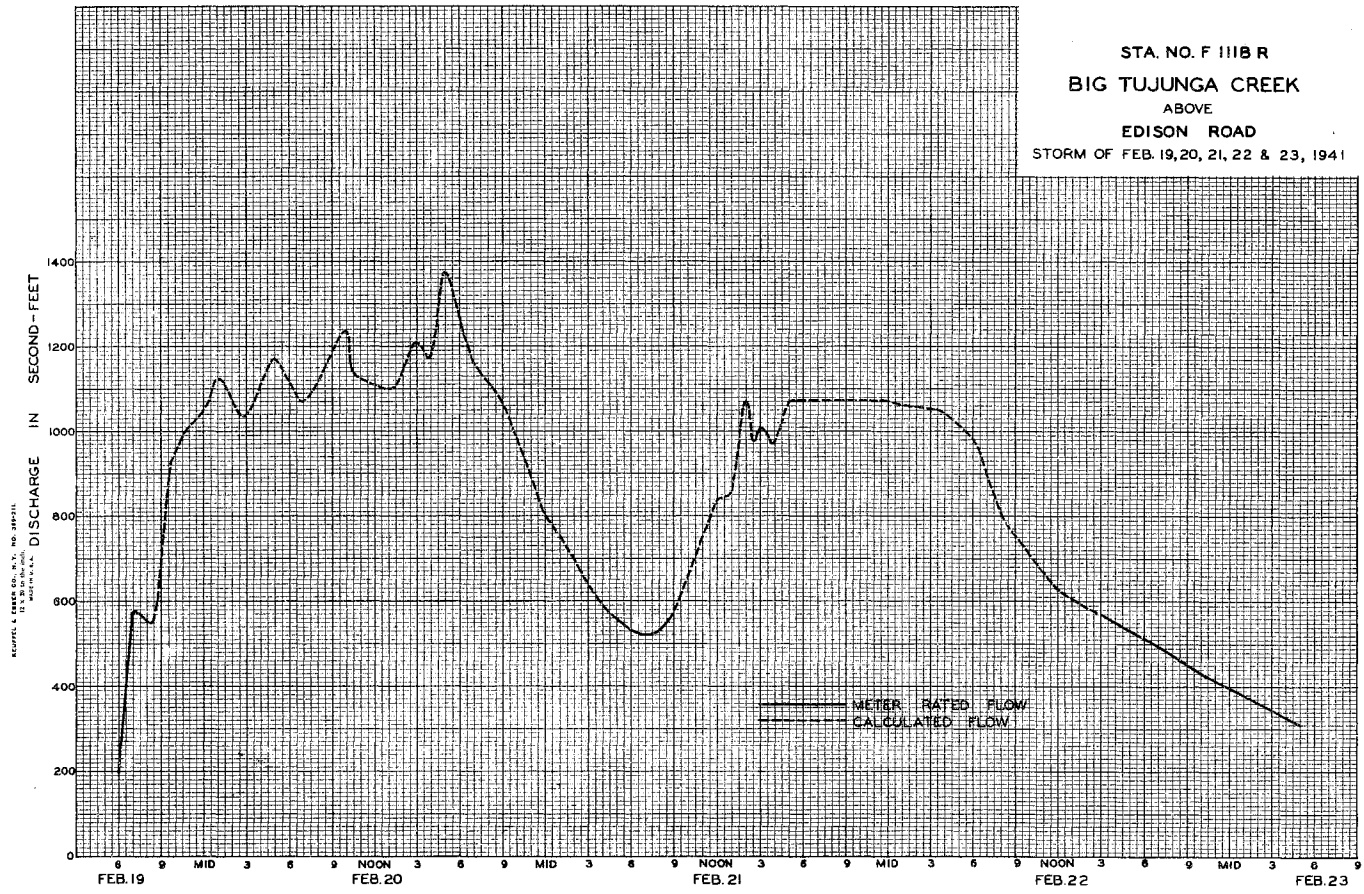
Sta. No. F111B-R

Daily discharge, in second-feet of BIG TUJUNGA CREEK above Edison Road, for the year ending September 30, 1941

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.8	1.1	1.5	9.5	8.5	561	233	125	43	22	11	7.5
2	0.8	1.1	1.5	8.5	6.5	365	234	108	43	20	11	7.5
3	0.8	1.1	1.5	7	5.5	370	194	100	41	20	10	7.5
4	0.8	1.3	1.5	6	5	939	259	93	40	19	10	7.5
5	0.8	1.3	1.6	5	6.5	636	340	84	39	19	10	7.5
6	0.8	1.3	1.6	4.5	25	483	205	81	38	18	10	7
7	0.8	1.3	1.6	5	13	379	174	75	39	17	10	7
8	0.8	1.3	1.6	6	14	319	160	71	39	16	10	7
9	0.9	1.5	1.6	5.5	12	259	154	69	37	15	10	7
10	0.9	1.4	1.6	7.5	10	230	180	68	36	15	10	7
11	0.9	1.4	1.6	7.5	144	213	302	65	34	15	10	7
12	0.9	1.4	1.9	6.5	128	461	238	65	33	15	9.5	7
13	0.9	1.3	1.8	6.5	49	429	203	66	32	14	9.5	7
14	0.9	1.3	1.8	7	127	343	200	66	31	14	9	7
15	0.9	1.3	1.7	6	242	297	188	62	30	14	9.5	7
16	0.9	1.3	11	6	203	245	170	58	29	14	10	7
17	0.9	1.4	64	5	503	205	162	57	28	13	9	7
18	0.9	2.3	14	5	151	181	153	54	27	13	8.5	7
19	0.9	1.6	5.5	5.5	262	160	149	54	27	13	8	7
20	0.9	1.5	3.1	5.5	1120	152	139	52	26	12	8	7
21	0.9	1.5	3.1	5.5	831	139	135	51	26	12	8.5	7
22	0.9	1.5	3.3	6.5	712	130	130	50	25	12	8.5	7
23	0.9	1.5	154	5.5	287	120	126	50	24	12	8.5	7
24	1.0	1.5	171	43	246	109	120	49	25	12	8.5	7
25	2.2	1.5	51	22	201	100	117	47	25	13	9	6.5
26	1.9	1.5	19	22	140	94	108	46	25	13	9	6.5
27	1.5	1.5	12	16	123	89	101	45	25	13	9	6.5
28	1.3	1.5	8.5	14	323	115	96	47	25	13	8.5	6.5
29	1.2	1.5	12	12		206	94	46	24	12	8.5	6.5
30	1.2	1.5	11	11		116	168	45	23	11	8.5	6.5
31	1.2		12	10		153		43		11	8	
	314	425	5789	2925	5898.0	8598	5232	1996	939	452	287.5	209.5
Mean	1.01	1.42	18.7	9.44	211	277	174	64.4	31.3	14.6	9.27	6.98
Acre-Feet	62	84	1150	580	11700	17050	10380	3960	1860	897	570	416

Remarks:

Year or Period — Mean 67.3 — Acre-Feet 48710



STATION F168R

BIG TUJUNGA CREEK below Big Tujunga Dam No. 1

LOCATION:

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

DRAINAGE AREA:

81.7 square miles.

CHANNEL AND CONTROL:

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

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed on November 8, 1932. Washed out during the March 2, 1938 storm.
Installed on May 31, 1938 in a concrete house over a 4 ft. x 4 ft. concrete well at approximately the same location as the old well.
An Au continuous recorder was in service from October 1, 1940 to September 30, 1941.

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, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 1590 second-feet, February 21.
Minimum 0.2 second-foot at various times.
1932-1941
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 No.1 DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
445	10-3	1030A / 1045A	Turner	11.5	11.4	1.44	4.90	16.2		.6	13	0	FC 5
446	10-3	300P / 315P	"	18.5	12.0	1.36	4.90	16.3		.6	11	0	"
447	10-10	930A / 945A	"	18.0	11.3	1.25	4.86	14.2		.6	10	0	"
448	10-14	---	Robertson	10.0	7.20	0.90	4.66	6.5		.6	5	--	FC 31
449	10-17	225P / 240P	Turner	10.0	9.05	1.02	4.74	9.2		.6	10	0	FC 5
450	10-24	815A / 830A	"	12.0	8.33	0.85	4.68	7.1		.6	12	0	"
451	10-24	330P / 335P	"	5.0	1.44	0.31	4.26	0.45		.6	5	0	"
452	10-31	1000A / 1012A	"	12.3	8.64	1.00	4.70	8.6		.6	13	0	"
453	11-7	1135A / 1141A	"	3.0	0.88	0.40	4.24	0.35		.6	6	0	"
454	11-14	1005A / 1010A	"	3.0	0.68	0.22	4.20	0.15		.6	6	0	"
455	11-20	1000A / 1005A	"	3.0	0.64	0.23	4.20	0.15		.6	6	0	"
456	11-28	1200N / 1205P	"	3.0	0.74	0.22	4.20	0.16		.6	6	0	"
457	11-30	815A / 830A	Ealy	12.0	5.90	0.71	4.50	4.2		.6	7	0	FC 31
458	12-5	1025A / 1035A	Turner	4.6	3.13	0.73	4.46	2.3		.6	7	0	FC 5
459	12-12	1000A / 1010A	"	7.0	2.38	1.07	4.47	2.5		.6	7	0	"
460	12-19	205P / 215P	Turner	2.5	0.61	1.33	4.32	0.81		.6	6	0	FC 5
461	12-19	430P / 440P	Robertson	13.0	11.1	1.20	4.75	13.1		.6	7	0	FC 31
462	12-23	1115A / 1125A	Turner	8.0	2.58	0.64	4.46	1.6		.6	8	0	FC 5
463	12-24	1240P / 1253P	Turner & Robertson	21.5	18.7	1.80	5.27	33.6		.6	11	0	"
464	12-24	240P / 255P	" "	26.0	26.2	2.01	5.54	52.7		.6	14	-.01	"
465	12-26	300P / 320P	Turner	25.5	22.4	1.98	5.39	44.6		.6	14	0	"
466	12-29	1050A / 1056A	"	3.0	0.78	0.78	4.27	0.61		.6	6	0	"
467	12-30	905A / 925A	"	26.0	27.4	2.31	5.65	63.2		.6	14	0	"
468	12-30	1025A / 1050A	"	25.5	24.5	2.11	5.48	51.9		.6	14	0	"
469	1-2	1045A / 1058A	Turner	12.4	9.63	1.13	4.74	10.6		.6	13	0	FC 5
470	1-9	300P / 315P	"	13.0	10.2	1.57	4.90	16.0		.6	13	0	"
471	1-9	410P / 425P	"	12.7	8.37	1.31	4.73	11.0		.6	13	0	"
472	1-15	1105A / 1125A	Robertson	12.5	9.53	1.50	4.85	14.3		.6	7	0	FC 31
473	1-16	155P / 210P	Turner & Robertson	13.0	8.50	1.26	4.74	10.7		.6	13	0	FC 5
474	1-23	1145A / 1150A	Turner	2.8	0.45	0.71	4.23	0.32		.6	5	0	"
475	1-24	1110A / 1130A	"	24.5	22.7	2.11	5.42	48.0		.6	14	0	"
476	1-27	---	Robertson	26.0	26.2	2.03	5.5	53.1		.6	13	--	FC 31
477	1-30	1030A	"	11.0	8.31	0.83	4.60	6.9		.6	11	--	"
478	1-30	1245P / 100P	Turner & Robertson	13.0	11.6	1.29	4.81	14.8		.6	13	0	FC 5
479	1-30	345P / 355P	Turner	12.7	9.33	0.93	4.65	8.7		.6	13	-.06	"
480	1-30	355P / 405P	"	12.7	8.79	0.85	4.62	7.5		.6	13	-.01	"
481	2-4	1040A	Robertson	11.5	8.79	1.02	4.66	9.0		.6	10	0	FC 31
482	2-6	805A / 815A	Turner	11.0	4.72	0.29	4.38	1.4	Float	6		-.01	---
483	2-6	1105A / 1120A	"	18.5	13.6	1.51	4.97	20.5		.6	10	0	FC 5
484	2-11	125P / 130P	"	6.0	1.92	0.93	4.40	1.8		.6	6	0	FC 31
485	2-12	930A / 1000A	Robertson	26.0	29.6	2.17	5.61	64.4		.6	13	0	"
486	2-13	910A / 930A	Turner	26.0	29.1	2.30	5.59	67.1		.6	14	0	FC 5
487	2-14	1115P / 1130P	"	27.0	33.8	2.36	5.77	80.1		.6	8	-.01	"
488	2-15	845A / 900A	"	57.0	59.3	2.42	6.30	143.		.6	13	0	"
489	2-15	1025A / 1040A	"	59.0	71.3	2.53	6.50	180.		.6	13	0	"
490	2-16	1010A / 1028A	"	59.0	69.9	2.74	6.50	191.		.6	14	0	"
491	2-17	830A / 845A	"	62.0	127.	4.87	7.47	620.		.6	12	0	"
492	2-17	950A / 1010A	"	45.8	113.	4.18	7.25	470.		.6	12	0	FC 31
493	2-17	1050A / 1110A	Turner	62.0	116.	4.40	7.25	511.		.6	12	0	FC 5
494	2-18	820A / 835A	"	62.0	110.	4.45	7.20	489.		.6	12	0	"
495	2-18	815P / 845P	"	61.0	104.	4.09	7.17	424.		.6	12	0	FC 31
496	2-19	810A / 830A	"	59.0	112.	3.58	7.12	401.		.6	16	0	"
497	2-20	230A / 250A	"	65.0	164.	5.46	8.06	898.		.6	8	-.01	"
498	2-20	325A / 355A	"	65.0	167.	5.49	8.07	918.		.6	13	0	"
499	2-20	140P / 205P	"	70.0	181.	5.56	8.32	1010.		.6	14	0	"
500	2-21	105A / 150A	"	77.0	222.	6.96	8.71	1550.		.6	15	-.01	"
501	2-21	1000A / 1025A	"	70.0	176.	4.97	8.05	876.		.6	14	0	FC 5
502	2-21	845P / 915P	"	72.0	191.	5.46	8.30	1040.		.6	14	0	"
503	2-22	1040A / 1113A	"	70.0	188.	5.00	8.14	941.		.6	14	-.01	"
504	2-23	1130A / 1200N	"	68.0	168.	4.61	7.96	774.		.6	15	-.02	"
505	2-23	323P / 333P	"	14.0	4.97	1.25	5.31	6.2		.6	8	0	FC 31
506	2-23	445P / 510P	"	67.0	168.	4.68	7.91	783.		.6	13	-.04 +.01	FC 5
507	2-23	1120P / 1145P	"	60.0	146.	4.28	7.52	623.		.6	12	0	"
508	2-24	650A / 710A	"	59.0	118.	3.64	7.22	428.		.6	11	0	"
509	2-24	938A / 958A	"	63.5	116.	3.75	7.21	434.		.6	16	0	FC 31
510	2-24	1130A / 1150A	"	57.0	74.9	2.76	6.62	207.		.6	14	0	"
511	2-24	340P / 400P	"	71.0	195.	5.37	8.34	1050.		.6	13	-.01	FC 5
512	2-24	445P / 605P	"	60.0	138.	4.13	7.55	569.		.6	12	0	"
513	2-25	815A / 835A	"	57.5	82.9	3.04	6.76	253.		.6	15	0	FC 31
514	2-26	1120A / 1140A	"	57.5	81.6	2.91	6.73	238.		.6	15	0	"
515	2-27	815A / 833A	"	56.0	74.1	2.74	6.63	203.		.6	15	0	"
516	2-27	940A / 955A	"	54.0	58.7	2.50	6.39	147.		.6	14	0	"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F168R

DISCHARGE MEASUREMENTS OF BIG TUJUNGA CREEK

AT OR NEAR below Big Tujunga Dam No. 1 DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
517	2-28	833A / 848A	Turner	38.5	36.7	2.11	6.06	77.2		.6	10	0	FC 31
518	3-1	135A / 205A	"	60.0	126.	3.94	7.38	499.		.6	12	+.01	FC 5
519	3-1	335A / 410A	"	63.0	166.	4.90	7.92	813.		.6	12	0	"
520	3-1	735P / 758P	"	58.0	120.	3.71	7.26	447.		.6	11	0	"
521	3-2	845A / 905A	"	58.0	108.	3.58	7.12	386.		.6	14	0	FC 31
522	3-3	510P / 528P	"	57.0	88.7	3.06	6.82	272.		.6	15	0	FC 5
523	3-4	700A / 725A	"	63.0	162.	4.66	7.93	753.		.6	12	0	"
524	3-5	850A / 915A	"	64.0	172.	5.16	8.11	887.		.6	13	0	"
525	3-6	850A / 915A	"	63.0	164.	5.06	8.00	831.		.6	13	+.04 -.04	"
526	3-6	835P / 900P	"	58.0	140.	4.32	7.60	606.		.6	11	-.01	"
527	3-7	100P / 120P	"	58.0	105.	3.66	7.10	383.		.6	15	0	"
528	3-7	230P / 250P	"	57.0	104.	3.42	7.05	357.		.6	11	0	"
529	3-7	300P / 320P	"	58.0	101.	3.40	7.05	343.		.6	14	0	"
530	3-7	430P / 445P	"	58.0	104.	3.55	7.08	368.		.6	14	0	"
531	3-10	1135A / 1155A	"	60.0	130.	4.12	7.44	537.		.6	11	-.02	"
532	3-11	835A / 855A	"	55.5	78.5	2.80	6.64	220.		.6	15	0	"
533	3-11	150P / 208P	"	56.5	86.7	2.93	6.77	254.		.6	15	0	"
534	3-12	950P / 1012P	"	61.0	158.	4.68	7.81	742.		.6	12	0	"
535	3-13	832A / 850A	"	58.0	120.	3.70	7.25	445.		.6	11	0	"
536	3-15	850A / 910A	"	55.0	63.4	2.50	6.40	159.		.6	14	0	"
537	3-16	600A / 620A	"	58.0	90.2	2.87	6.77	259.		.6	14	0	"
538	3-17	135P / 150P	"	57.0	79.3	2.66	6.61	211.		.6	14	0	"
539	3-19	820A / 840A	Turner	58.0	93.8	3.07	6.87	288.		.6	14	0	FC 5
540	3-20	815A / 833A	"	60.0	157.	4.68	7.76	734.		.6	12	0	"
541	3-24	815A / 830A	"	52.0	57.9	2.59	6.38	150.		.6	13	0	"
542	3-26	335P / 350P	"	28.0	38.7	3.13	6.24	121.		.6	12	0	"
543	3-28	1140A / 1155A	"	57.0	31.8	3.64	6.82	116.		.6	12	0	"
544	3-29	1050A / 1110A	"	59.0	47.9	4.78	6.56	229.		.6	13	---	"
545	3-29	1155A / 1210P	"	57.0	40.2	4.00	6.39	161.		.6	12	0	"
546	3-30	845A / 900A	"	58.5	38.2	3.84	6.44	147.		.6	13	+.02 -.02	"
547	4-1	1230A / 1250A	"	59.0	26.8	3.45	6.33	92.4		.6	12	+.02 -.02	"
548	4-1	635A / 650A	"	64.0	48.2	4.38	6.75	212.		.6	12	0	"
549	4-2	1250A / 100A	"	65.0	56.2	4.88	6.97	274.		.6	7	0	"
550	4-2	850A / 900A	"	65.0	67.4	5.06	7.06	341.		.6	8	+.04	"
551	4-3	850A / 905A	"	57.5	87.8	3.76	6.84	330.		.6	13	0	"
552	4-3	940A / 955A	"	57.5	87.1	4.41	6.91	384.		.6	13	0	"
553	4-3	120P / 135P	"	57.5	81.5	4.61	6.90	376.		.6	14	0	"
554	4-3	330P / 345P	"	58.0	88.4	4.52	6.94	400.		.6	14	0	"
555	4-4	750A / 805A	"	47.5	29.6	2.40	5.95	71.0		.6	11	0	"
556	4-5	300A / 318A	"	54.0	51.8	2.93	6.27	151.		.6	13	0	"
557	4-5	435A / 455A	"	55.0	60.9	3.30	6.43	201.		.6	13	0	"
558	4-5	835A / 853A	"	58.0	79.3	3.80	6.72	302.		.6	13	0	"
559	4-5	1210P / 1228P	"	58.0	80.5	3.64	6.72	293.		.6	13	0	"
560	4-5	150P / 210P	"	60.0	87.4	4.07	6.90	356.		.6	14	0	"
561	4-5	600P / 615P	"	57.0	96.2	4.25	7.04	408.		.6	11	0	"
562	4-7	1245P / 105P	"	62.0	102.	3.93	6.97	402.		.6	15	0	"
563	4-8	800A / 815A	Turner	38.0	32.1	2.23	5.95	71.5		.6	10	0	FC 5
564	4-8	600P	Robertson	26.0	32.0	2.44	5.99	78.1		.6	13	0	FC 31
565	4-9	800A / 820A	Turner	27.0	28.3	2.03	5.85	57.4		.6	15	0	FC 5
566	4-10	150A / 210A	"	27.0	28.8	1.85	5.87	53.4		.6	10	0	"
567	4-10	925A / 940A	"	27.0	28.4	2.09	5.88	59.4		.6	15	0	"
568	4-12	850A / 905A	Turner & Robertson	54.0	61.8	2.98	6.38	184.		.6	13	0	"
569	4-12	130P / 150P	Turner	61.0	94.9	3.47	6.86	329.		.6	15	0	"
570	4-12	430P / 445P	"	63.0	104.	3.71	7.01	385.		.6	15	0	"
571	4-13	1155A / 1215P	"	58.0	113.	4.01	7.23	455.		.6	11	0	"
572	4-14	1130A / 1148A	"	58.0	108.	3.82	7.11	413.		.6	11	0	"
573	4-17	225P / 240P	Turner	58.0	105.	3.62	7.02	380.		.6	11	0	FC 5
574	4-18	950A / 958A	Robertson	26.0	26.1	1.80	5.78	46.6		.6	13	0	FC 31
575	4-18	500P / 512P	"	26.0	30.4	1.94	5.88	59.2		.6	13	0	"
576	4-19	443P / 458P	Turner-Ealy	54.0	56.8	2.52	6.27	143.		.6	13	0	FC 5
577	4-20	904A / 924A	Moon	56.0	73.2	3.06	6.52	224.		.6	13	0	FC 22
578	4-20	1032A / 1053A	"	56.8	78.1	3.10	6.60	242.		.6	13	0	"
579	4-20	156P / 216P	"	57.0	82.0	3.21	6.67	263.		.6	13	0	"
580	4-23	1215P / 1235P	Turner	56.0	81.9	3.11	6.68	255.		.6	13	0	FC 5
581	4-23	315P / 335P	"	57.0	87.8	3.36	6.75	295.		.6	13	0	"
582	4-23	800P / 820P	"	57.0	87.6	3.30	6.74	289.		.6	13	0	"
583	4-24	805A / 825A	"	57.0	85.8	3.18	6.71	273.		.6	13	0	"
584	4-24	935A / 955A	"	57.0	90.1	3.33	6.78	300.		.6	13	0	"
585	4-25	755A / 815A	"	56.5	84.6	3.17	6.69	268.		.6	13	0	"
586	4-25	950A / 1008A	"	57.0	91.2	3.21	6.79	293.		.6	13	0	"
587	4-25	250P / 308P	Turner	57.0	89.0	3.25	6.75	289.		.6	13	0	FC 5
588	4-26	635A / 653A	"	55.5	75.3	3.01	6.54	227.		.6	13	0	"
589	4-26	200P / 215P	"	54.5	61.9	2.60	6.35	161.		.6	13	0	"
590	4-28	1250P / 110P	"	50.0	48.3	2.61	6.24	126.		.6	12	0	"
591	4-30	735A / 750A	"	58.0	43.2	4.14	6.44	179.		.6	13	0	"
592	4-30	900A / 910A	"	58.0	45.8	4.21	6.49	193.		.6	9	0	"
593	4-30	945A / 955A	"	58.0	48.2	4.44	6.54	214.		.6	9	0	"
594	4-30	1020A / 1030A	"	58.0	52.7	4.41	6.58	233.		.6	9	0	"
595	5-1	1105A / 1120A	Turner & Robertson	57.0	38.7	4.21	6.38	163.		.6	11	0	"
596	5-1	1225P / 1235P	Turner	58.0	48.8	4.59	6.56	224.		.6	8	0	"
597	5-1	125P / 135P	"	58.0	44.8	4.13	6.48	185.		.6	8	0	"
598	5-4	120P	Robertson	65.0	41.4	5.31	7.02	220.		.6	14	0	FC 31
599	5-4	500P	"	67.0	61.4	4.80	7.11	295.		.6	16	---	"
600	5-5	830A / 845A	Turner	45.0	48.3	4.74	6.86	229.		.6	12	0	FC 5
601	5-6	725A / 737A	"	42.0	32.6	3.50	6.13	114.		.6	9	-.01	"
602	5-6	120P / 135P	"	42.5	31.0	3.55	6.15	110.		.6	11	-.01	"
603	5-8	1250P / 105P	"	43.0	28.2	3.39	6.08	95.8		.6	11	0	FC 5
604	5-8	105P / 130P	"	43.0	29.7	3.37	6.08	100.		.6	12 / 8	11	0
605	5-12	1100A / 1115A	"	47.0	22.1	3.86	6.56	84.8		.6	10	0	"
606	5-15	150P / 205P	"	45.0	20.0	4.00	7.40	80.0		.6	10	+.10	"
607	5-22	200P / 215P	"	44.0	16.0	3.75	8.40	60.1		.6	11	---	"
608	5-29	200P / 215P	"	47.0	15.8	3.54	9.02	55.8		.6	13	0	"
609	6-5	1150A / 1205P	"	Two Channels			9.7	54.8		.6	13	---	"
610	6-18	222P / 235P	Waddicor	8.0	2.36	3.87	---	9.3		.6	8	---	FC 31
611	6-19	350P / 405P	Turner	Two Channels			---	11.3		.6	12	---	FC 5
612	6-26	250P / 310P	"	11.0	5.02	2.99	---	14.6		.6	11	---	"
613	6-27	1000A / 1015A	Robertson	7.0	2.76	2.97	---	8.2		.6	7	---	FC 31
614	7-3	1000A / 1010A	Turner	6.0	3.03	2.24	9.64	6.8		.6	6	0	FC 5
615	7-3	255P / 310P	"	11.0	3.72	3.23	---	12.4		.6	9	0	"
616	7-10	1000A / 1015A	"	9.5	5.05	2.73	10.32	13.8		.6	10	0	"
617	7-17	950A / 1000A	"	8.0	4.00	2.48	10.25	9.9		.6	8	0	"
618	7-17	1100A / 1115A	"	11.0	4.44	2.23	10.25	9.9		.6	10	0	"
619	7-24	255P / 305P	"	7.2	3.57	2.35	10.51	8.4		.6	7	0	"
620	7-31	1005A / 1015A	"	8.5	3.92	2.19	10.26	8.6		.6	9	0	"
621	8-7	1000A / 1010A	"	9.0	4.54	2.64	10.2	12.0		.6	9	---	"
622	8-14	920A / 930A	"	8.5	4.00	2.82	---	11.3		.6	9	---	"
623	8-21	355P / 405P	Luce	15.3	4.44	2.39	9.85	10.6		.6	9	0	FC 39
624	8-27	1135A / 1145A	"	14.8	6.19	3.84	9.60	23.8		.6	9	-.04	"
625	8-27	150P / 200P	"	15.0	4.48	2.48	9.61	11.1		.6	10	+.04	"
626	9-4	1050A / 1105A	Turner	11.0	6.38	3.28	10.06	20.9		.6	10	0	FC 5
627	9-11	1030A / 1040A	"	----	---	---	---	15.5		--	--	---	"
628	9-18	1050A / 1105A	"	10.5	3.95	3.44	10.12	13.6		.6	10	0	"
629	9-25	355P / 410P	"	12.5	8.31	4.66	10.22	38.7		.6	10	+.26	"
630	9-25	425P / 435P	"	15.5	7.16	4.26	10.43	30.5		.6	8	0	"
631	9-25	510P / 520P	"	13.0	3.53	3.34	10.40	11.8		.6	6	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F168R

Daily discharge, in second-feet of BIG TUJUNGA CREEK below Big Tujunga Dam No. 1, for the year ending September 30, 1941

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16.0	4.4	3.7	44	4.6	655	184	106	56	7.3	8.6	19.6
2	16.0	0.5	3.1	23	4.6	387	316	182	55	7.0	10.3	20
3	16.0	0.5	3.0	10.3	4.6	347	366	178	55	9.1	12.0	20
4	16.0	0.5	2.6	10.1	7.2	779	133	222	55	12.6	12.0	21
5	15.6	0.4	2.3	9.8	8.7	864	278	223	55	12.8	12.0	20
6	14.8	0.4	2.3	9.5	13.3	784	405	130	54	13.0	12.0	19.3
7	14.4	0.3	2.3	11	18.4	475	408	110	54	13.2	12.0	18.5
8	14.4	0.6	2.3	0.5	8.6	364	154	98	53	13.4	11.9	17.8
9	14.4	0.3	2.4	4.7	11	350	65	95	53	13.6	11.8	17.0
10	13.7	0.3	1.5	5.1	11	395	49	91	33	13.8	11.7	16.2
11	13.7	0.2	1.8	0.4	2.2	263	137	88	2.5	13.2	11.6	15.5
12	8.6	0.2	2.6	0.4	42	308	248	85	1.0	12.7	11.5	15.2
13	5.1	0.2	1.2	0.4	67	342	409	83	0.5	12.1	11.4	15.0
14	6.3	0.2	0.3	0.4	44	203	414	82	1.6	11.6	11.3	14.7
15	6.5	0.2	0.2	8.0	145	233	398	80	0.8	11.0	11.2	14.4
16	6.5	0.2	0.9	10.6	192	240	383	77	0.5	10.4	11.1	14.2
17	8.6	0.2	2.4	10.6	413	237	369	74	0.5	9.9	11.0	13.9
18	8.7	0.2	0.9	10.6	374	226	93	71	5.5	9.7	10.9	13.6
19	8.7	0.2	4.9	9.0	402	361	84	69	11.3	9.5	10.8	13.6
20	8.4	0.2	12.6	0.4	936	591	219	66	11.8	9.3	10.7	13.6
21	8.4	0.2	12.0	0.4	1080	246	258	63	12.2	9.1	10.6	13.6
22	7.7	0.2	9.1	0.4	982	399	252	60	12.7	8.9	10.5	13.6
23	7.2	0.2	3.0	0.3	702	236	267	59	13.2	8.7	10.4	13.6
24	3.7	0.2	2.5	2.6	528	145	287	59	13.6	8.4	10.3	13.6
25	0.6	0.2	4.7	4.6	287	137	276	58	14.1	8.4	10.2	10.7
26	0.5	0.2	4.5	6.0	226	126	212	58	14.6	8.4	10.1	14.3
27	6.2	0.2	3.3	3.6	170	118	137	57	10.8	8.5	13.1	15.3
28	10.9	0.2	0.8	5.4	72	98	126	57	8.0	8.5	11.1	15.4
29	10.3	1.3	0.6	5.1		97	125	56	7.7	8.5	11.1	15.4
30	9.8	4.2	3.5	2.2		149	82	56	7.5	8.5	11.1	15.4
31	8.4		4.7	4.6		55		56		8.6	15.1	
	306.1	17.3	310.8	415.6	6736.4	10210	7134	2849	673.4	319.7	349.4	474.0
MEAN	9.87	0.58	10.0	13.4	241	329	238	91.9	22.4	10.3	11.3	15.8
ACRE-FEET	607	34	616	824	13360	20250	14150	5650	1340	634	693	940

Remarks: Interpolated subsequent to May 7.

YEAR OR PERIOD — MEAN 81.6 — ACRE-FEET 59100

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, 1940 to September 30, 1941.

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, 1941.
(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:

1940-1941
Maximum 1650 second-feet, February 21.
Minimum 1.1 second-feet, November 26.
1932-1941
Maximum 50000 second-feet, estimated, March 2, 1938.
Minimum 0.8 second-foot November 18, 1936.

ACCURACY:

Fair.
Flows estimated several days due to communication being obstructed by sand.

OPERATION:

Construoted 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. F213R

DISCHARGE MEASUREMENTS OF BIG TUJUNGA CREEK

AT above Gold Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
337	10-3	830A 840A	Turner	21.0	10.0	1.70	7.62	17.0		.6	12	0	FC 5
338	10-10	840A 855A	"	19.0	9.20	1.56	7.57	14.4		.6	11	0	"
339	10-17	335P 350P	"	20.0	12.0	0.95	7.50	11.3		.6	11	0	"
340	10-23	1025A 1040A	"	10.5	6.53	1.21	7.38	7.9		.6	11	0	"
341	10-31	845A 900A	"	17.5	8.59	1.16	7.44	10.0		.6	10	0	"
342	11-4	930A 940A	"	8.7	3.93	0.66	7.10	2.6		.6	9	0	"
343	11-7	1005A 1015A	"	8.5	3.45	0.59	7.06	2.0		.6	8	0	"
344	11-14	855A 905A	"	8.0	2.86	0.48	7.00	1.4		.6	8	0	"
345	11-17	425P 435P	Koch-Handt	8.2	3.06	0.48	7.00	1.5		.6	7	0	FC 43
346	11-20	835A 845A	Turner	8.0	2.95	0.50	7.00	1.5		.6	8	0	FC 5
347	11-28	855A 905A	"	8.0	2.81	0.46	7.00	1.3		.6	8	0	"
348	12-5	855A 905A	"	9.3	4.42	0.77	7.20	3.4		.6	9	0	"
349	12-12	855A 905A	"	9.7	4.51	0.90	7.24	4.1		.6	9	0	"
350	12-16	450P 502P	Koch	9.9	6.86	1.08	7.43	7.4		.6	7	0	FC 43
351	12-17	515A 526A	Koch-Handt	36.5	23.8	3.65	8.91	87.1		.6	11	-.04	"
352	12-17	725A 739A	" "	28.0	13.5	3.19	8.77	42.9		.6	11	0	"
353	12-17	744A 758A	" "	24.8	14.5	3.39	8.74	49.2		.6	10	-.03	"
354	12-17	935A 947A	" "	29.0	11.7	3.10	8.73	36.2		.6	10	-.01	"
355	12-18	350P 400P	Turner	10.0	3.05	2.75	8.69	8.4		.6	6	0	FC 5
356	12-19	735A 745A	"	11.0	3.38	2.06	8.50	7.0		.6	7	0	"
357	12-23	1020A 1032A	Koch-Handt	42.0	39.8	5.29	9.40	211.		.6	10	+.01	FC 43
358	12-23	1125A 1138A	" "	40.0	32.2	4.85	9.19	156.		.6	9	-.06	"
359	12-23	1226P 1236P	" "	32.2	22.1	3.88	9.00	85.7		.6	10	-.03	"
360	12-23	130P 145P	" "	31.5	16.6	3.57	8.87	59.3		.6	11	0	"
361	12-23	313P 328P	Koch-Handt	27.7	13.2	3.27	8.79	43.0		.6	12	0	FC 43
362	12-23	424P 439P	" "	27.7	11.5	2.84	8.75	32.5		.6	12	-.01	"
363	12-24	836A 851A	" "	28.7	16.0	4.22	8.96	67.5		.6	12	+.01	"
364	12-24	919A 932A	" "	28.7	17.4	4.32	8.98	75.0		.6	12	+.02	"
365	12-26	905A 925A	Turner	22.0	15.0	3.52	8.40	53.1		.6	12	0	FC 5
366	12-30	300P 315P	"	24.0	15.9	3.51	8.40	55.7		.6	12	0	"
367	12-30	815P 825P	"	26.0	18.9	3.85	8.58	72.9		.6	9	0	"
368	12-30	940P 950P	"	25.0	17.3	3.84	8.50	66.4		.6	9	-.01	"
369	1-2	335P 345P	"	13.0	7.91	2.57	7.93	20.3		.6	7	0	"
370	1-4	1225P 1237P	"	14.0	6.50	2.40	7.75	15.6		.6	7	0	"
371	1-7	300P 310P	"	11.5	4.21	1.74	7.59	7.3		.6	6	0	"
372	1-16	1140A 1155A	"	14.0	6.68	2.03	7.69	13.6		.6	7	0	"
373	1-23	435P 445P	"	10.5	3.39	1.31	7.44	4.4		.6	9	0	"
374	1-24	815A 825A	"	18.0	10.2	2.82	8.10	28.8		.6	8	-.01	"
375	1-26	1005A 1020A	"	14.5	7.70	2.35	7.78	18.1		.6	7	-.01	"
376	1-29	435P 450P	"	20.5	18.0	3.45	8.34	61.9		.6	10	0	"
377	2-6	729A 738A	Koch-Handt	27.7	26.1	4.06	8.65	106.		.6	10	-.01	FC 43
378	2-6	905A 920A	" "	24.8	19.0	3.93	8.49	74.7		.6	11	-.03	"
379	2-6	1000A 1011A	" "	19.3	13.6	3.39	8.34	45.9		.6	9	-.04	"
380	2-6	155P 205P	Turner	17.0	8.04	3.49	8.13	28.1		.6	9	+.10	FC 5
381	2-6	245P 255P	"	17.7	8.64	3.68	8.22	31.8		.6	9	0	"
382	2-8	340P 350P	"	15.0	8.03	1.91	7.78	15.3		.6	8	-.01	"
383	2-11	1224P 1233P	Koch-Handt	36.5	36.0	3.98	8.88	144.		.6	10	-.01	FC 43
384	2-11	155 P 206 P	" "	36.5	29.1	3.87	8.82	113.		.6	11	-.05	"
385	2-11	346P 354P	Koch-Handt	26.2	23.0	3.58	8.59	82.5		.6	9	-.02	FC 43
386	2-11	625P 632P	" "	29.0	24.0	3.64	8.64	87.4		.6	10	+.01	"
387	2-12	100P 115P	Turner	27.0	21.0	3.98	8.62	83.4		.6	13	0	FC 5
388	2-13	325P 340P	"	27.0	20.9	4.16	8.62	87.0		.6	13	0	"
389	2-14	130P 137P	Koch	27.5	21.2	3.63	8.66	76.9		.6	8	+.03	FC 43
390	2-14	235P 245P	Koch-Brewer	27.0	22.5	3.64	8.66	81.8		.6	10	-.04	"
391	2-14	345P 355P	" "	24.7	17.6	3.48	8.48	60.7		.6	10	-.01	"
392	2-14	435P 447P	" "	24.7	17.8	3.47	8.48	62.0		.6	11	0	"
393	2-14	542P 554P	" "	24.8	17.8	3.56	8.48	63.2		.6	12	+.01	"
394	2-14	838P 855P	" "	40.5	41.7	4.15	9.10	173.		.6	13	+.08	"
395	2-14	1047P 1054P	" "	32.5	22.0	3.51	8.66	76.7		.6	12	-.03	"
396	2-15	140A 155A	" "	37.0	29.7	3.77	8.91	112.		.6	13	-.02	"
397	2-15	311A 320A	" "	36.0	29.1	3.48	8.85	101.		.6	12	-.02	"
398	2-15	1157A 1211P	" "	40.0	42.3	4.89	9.28	207.		.6	9	+.13	"
399	2-15	1255P 111P	" "	41.0	50.8	4.73	9.41	240.		.6	10	+.03	"
400	2-15	253P 309P	" "	41.0	49.4	5.03	9.38	248.		.6	10	+.01	"
401	2-15	340P 353P	" "	40.0	50.0	5.00	9.38	250.		.6	10	+.01	"
402	2-16	340P 350P	Koch-Elias	43.0	47.6	5.64	9.55	269.		.6	11	+.02	"
403	2-16	535P 550P	" "	42.0	48.6	5.69	9.63	277.		.6	10	0	"
404	2-16	1005P 1025P	Koch-Handt	54.0	71.8	5.48	9.93	393.		.6	13	+.08	"
405	2-17	1219A 1238A	" "	53.0	62.0	5.51	9.80	342.		.6	13	-.05	"
406	2-17	441A 503A	" "	57.0	91.3	4.85	10.31	443.		.6	13	-.05	"
407	2-17	725A 746A	Koch-Handt	48.0	68.4	5.19	10.11	355.		.6	11	0	FC 43
408	2-17	1040A 1100A	" "	55.0	93.1	5.02	10.58	468.		.6	13	-.11	"
409	2-17	1045P 1116P	" "	60.0	89.1	5.24	10.48	467.		.6	16	-.01	"
410	2-18	1135A 1150A	Turner	53.0	79.5	5.54	10.23	441.		.6	11	-.18	FC 5
411	2-18	610P 624P	Koch	53.0	60.8	4.21	9.76	256.		.6	10	+.20	FC 43
412	2-18	937P 1005P	Luce-Koch	60.0	77.3	5.68	10.36	440.		.6	12	+.01	FC 41
413	2-19	659P 731P	Koch-Handt	61.0	97.8	6.16	10.68	601.		.6	13	+.18	FC 30
414	2-19	908P 937P	" "	61.0	127.	6.22	10.44	793.		.6	13	+.05	"
415	2-19	1121P 1200P	" "	60.0	121.	6.45	10.25	781.		.6	12	+.04	"
416	2-20	200A 235A	" "	59.0	113.	6.98	10.36	790.		.6	13	+.05	"
417	2-20	332A 411A	" "	60.0	145.	8.36	10.64	1210.		.6	12	-.52	"
418	2-20	555A 650A	" "	59.0	140.	8.45	10.46	1180.		.6	11	-.09	"
419	2-20 2-21	1145P 1212A	" "	84.0	165.	7.82	11.94	1290.		.6	13	+.02	"
420	2-21	206A 245A	" "	91.0	200.	7.95	12.16	1590.		.6	17	-.08	"
421	2-21	654A 730A	" "	85.0	186.	7.65	11.99	1430.		.6	17	-.08	FC 43
422	2-21	915A 946A	" "	79.0	143.	6.88	11.46	986.		.6	16	-.06	"
423	2-21	455P 520P	" "	79.0	150.	6.74	11.26	1010.		.6	16	-.01	"
424	2-21	1026P 1055P	" "	80.0	173.	6.75	11.51	1170.		.6	17	+.02	"
425	2-22	545P 630P	" "	77.0	153.	6.50	11.16	999.		.6	15	-.03	"
426	2-22	1114P 1155P	" "	74.0	154.	6.18	11.00	949.		.6	14	-.07	"
427	2-23	422P 435P	" "	54.0	47.3	4.10	9.07	195.		.6	12	-.04	"
428	2-23	707P 732P	" "	72.0	133.	6.06	10.60	806.		.6	15	-.02	"
429	2-23	950P 1022P	" "	73.0	127.	6.15	10.55	781.		.6	16	+.04	"
430	2-24	100A 145A	" "	63.0	112.	5.69	10.38	636.		.6	15	-.01	"
431	2-24	800P 825P	Koch	61.0	96.8	6.28	10.40	608.		.6	13	+.01	FC 43
432	2-24	923P 952P	Koch-Elias	62.0	99.2	6.21	10.39	616.		.6	13	-.02	"
433	2-25	926A 945A	Luce-Pardieck	39.0	52.1	5.91	9.63	308.		.6	8	0	FC 41
434	2-28	1055P 1105P	Koch-Handt	37.0	47.6	4.47	9.16	213.		.6	7	-.07	FC 43
435	3-1	100A 120A	" "	35.0	48.0	4.04	9.00	194.		.6	9	-.03	"
436	3-1	500A 621A	" "	74.0	146.	5.73	10.60	837.		.6	12	+.03	"
437	3-1	650A 712A	" "	73.0	143.	5.51	10.67	788.		.6	12	-.02	"

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F213R

DISCHARGE MEASUREMENTS OF BIG TUJUNGA CREEK

at above Gold Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
438	3-4	120A / 150A	Koch-Elias	71.0	150.	5.64		843.		.6	9	+.82	"
439	3-4	245A / 305A	" "	75.0	162.	5.84	10.99	943.		.6	12	-.02	"
440	3-4	542A / 606A	" "	77.0	194.	5.95	11.36	1150.		.6	11	-.13	"
441	3-4	827A / 850A	" "	77.0	175.	6.24	11.21	1090.		.6	11	-.02	"
442	3-12	931P / 1001P	" "	62.0	131.	4.60	9.94	604.		.6	10	0	"
443	3-12 / 3-13	1138P / 1205A	" "	64.0	154.	5.19	10.16	799.		.6	10	+.03	"
444	3-13	102A / 130A	" "	64.0	150.	4.80	10.16	721.		.6	11	0	"
445	3-14	820A / 835A	Turner	48.0	50.3	2.19	7.95	110.		.6	11	0	FC 5
446	3-24	125P / 145P	"	Two Channels			8.49	193.		.6	12	0	FC 43
447	3-26	845A / 905A	"	51.0	62.5	2.98	8.39	186.		.6	11	0	"
448	3-28	915A / 930A	"	41.0	58.9	2.59	8.32	152.		.6	11	0	"
449	3-29	945A / 1000A	"	48.0	41.9	2.37	7.88	99.1		.6	10	--	"
450	3-31	609P / 624P	Koch-Handt	40.0	48.4	1.86	7.76	89.7		.6	10	0	FC 43
451	3-31	732P / 744P	" "	40.0	42.6	1.88	7.72	79.9		.6	10	+.02	"
452	3-31	955P / 1016P	" "	34.0	49.7	2.31	8.19	115.		.6	8	+.10	"
453	4-1	302A / 330A	" "	36.0	57.9	2.75	8.44	159.		.6	10	+.01	"
454	4-1	630A / 647A	" "	58.0	68.0	2.47	8.39	168.		.6	13	0	"
455	4-1	655A / 717A	Handt-Koch	57.0	66.2	2.52	8.38	167.		.6	13	-.01	FC 43
456	4-1	920A / 941A	Koch-Handt	37.0	69.7	3.70	8.83	258.		.6	9	+.02	"
457	4-2	1215A / 1240A	" "	39.0	75.0	4.10	8.87	308.		.6	9	0	"
458	4-2	215A / 248A	" "	39.0	82.7	4.07	9.04	336.		.6	9	+.01	"
459	4-2	926A / 940A	Luce-Pardieck	38.0	69.1	4.70	9.00	324.		.6	8	+.08	FC 41
460	4-2	1025A / 1038A	" "	40.0	78.6	4.76	9.23	374.		.6	8	0	"
461	4-3	845A / 900A	" "	40.0	78.0	4.40	9.18	343.		.6	8	0	"
462	4-3	1128A / 1141A	" "	40.0	80.0	4.69	9.22	375.		.6	8	0	"
463	4-3	319P / 335P	" "	40.0	84.7	4.77	9.24	404.		.6	9	0	"
464	4-3	450P / 506P	" "	40.0	82.5	4.83	9.27	398.		.6	8	+.01	"
465	4-3	540P / 551P	" "	40.0	84.2	5.10	9.28	430.		.6	8	-.01	"
466	4-4	235P / 250P	Turner-Ealy	51.0	53.6	2.78	8.22	148.		.6	11	+.01	FC 5
467	4-4	932P / 955P	Koch-Handt	49.0	109.	4.44	9.62	483.		.6	11	-.14	FC 43
468	4-5	1208A / 1227A	" "	36.0	65.1	3.47	8.62	227.		.6	9	-.07	"
469	4-5	245A / 310A	Handt-Koch	35.0	57.4	2.67	8.38	153.		.6	9	-.03	"
470	4-5	520A / 539A	Koch-Handt	36.0	69.1	3.63	8.73	251.		.6	9	+.01	"
471	4-5	645A / 702A	" "	36.0	73.0	3.76	8.90	275.		.6	9	0	"
472	4-5	1010A / 1028A	Bollinger & Rickart	42.0	79.6	3.99	9.15	317.		.6	9	0	FC 6
473	4-5	1139A / 1200N	" "	42.0	87.3	4.31	9.16	376.		.6	8	0	"
474	4-5	150P / 205P	" "	40.5	74.2	4.38	9.16	325.		.6	8	-.01	"
475	4-5	207P / 221P	" "	41.0	78.4	4.50	9.15	353.		.6	8	0	"
476	4-5	317P / 332P	" "	43.0	88.2	4.18	9.32	368.		.6	9	+.01	"
477	4-5	332P / 346P	" "	43.0	87.0	4.34	9.33	379.		.6	9	+.02	"
478	4-5	810P / 838P	Luce-Pardieck	55.0	102.	5.11	9.50	519.		.6	10	+.01	FC 41
479	4-6	1110A / 1138A	Luce-Pardieck	55.0	102.	4.76	9.48	488.		.6	11	-.01	FC 41
480	4-7	920A / 940A	Turner	55.0	96.0	4.55	9.39	437.		.6	10	0	FC 43
481	4-8	1150A / 1205P	"	51.0	59.0	2.77	8.28	163.		.6	11	0	FC 5
482	4-10	255P / 305P	"	51.0	54.4	2.55	8.13	139.		.6	11	0	"
483	4-11	1235A / 105A	"	53.0	90.8	4.71	9.29	428.		.6	10	-.18	"
484	4-11	735A / 750A	"	51.0	50.9	2.58	8.16	131.		.6	11	-.01	"
485	4-11	300P / 315P	Turner	53.0	66.4	3.94	8.63	262.		.6	11	+.02	FC 5
486	4-11	500P / 515P	"	52.0	83.2	4.17	9.09	347.		.6	9	0	"
487	4-12	640A / 652A	Luce-Pardieck	61.5	57.8	2.79	8.10	161.		.6	13	-.01	FC 39
488	4-12	1134A / 1150A	" "	39.0	53.2	4.06	8.66	216.		.6	8	0	FC 41
489	4-12	402P / 416P	" "	41.0	78.4	5.12	9.20	401.		.6	8	+.01	"
490	4-12	610P / 628P	" "	41.0	89.2	5.20	9.38	463.		.6	8	+.01	"
491	4-13	300P / 320P	Turner	53.0	97.2	4.64	9.61	450.		.6	9	0	FC 5
492	4-13	415P / 435P	"	53.0	102.	4.61	9.61	471.		.6	9	0	"
493	4-14	845A / 900A	"	53.0	101.	4.52	9.53	454.	Sur	.6	10	0	"
494	4-14	900A / 915A	"	53.0	101.	4.75	9.53	478.		.6	9	0	"
495	4-19	120P / 140P	"	51.0	52.2	2.43	8.06	127.		.6	11	0	"
496	4-20	955A / 1010A	"	60.0	75.6	3.35	8.68	263.		.6	13	0	"
497	4-20	1105A / 1120A	"	68.0	84.3	3.24	8.71	273.		.6	14	0	"
498	4-20	330P / 345P	"	68.0	89.1	3.41	8.84	303.		.6	14	0	"
499	4-23	138P / 151P	Haig	60.5	94.0	3.52	8.91	331.		.6	16	0	FC 33
500	4-23	542P / 606P	"	48.0	84.9	4.24	8.94	360.		.6	11	0	"
501	4-23	625P / 642P	"	47.0	86.4	4.25	8.98	367.		.6	9	+.01	"
502	4-24	1000A / 1018A	"	70.0	95.7	3.50	8.95	336.		.6	16	0	"
503	4-24	125P / 148P	Haig	46.0	85.1	4.26	9.02	363.		.6	11	0	FC 33
504	4-25	950A / 1004A	"	45.0	76.9	4.11	8.93	316.		.6	10	0	"
505	4-25	1218P / 1235P	"	45.0	84.9	4.24	9.03	360.		.6	10	+.01	"
506	4-26	1128A / 1143A	"	47.0	80.9	4.24	8.98	342.		.6	11	-.03	"
507	4-26	128P / 150P	"	47.0	80.6	4.39	9.02	354.		.6	13	0	"
508	4-27	147P / 208P	"	63.0	69.6	2.82	8.47	197.		.6	13	0	"
509	4-28	305P / 325P	Turner	55.0	64.3	2.65	8.40	170.		.6	11	-.01	FC 5
510	4-30	145P / 157P	Luce-Pardieck	36.0	56.6	3.22	8.43	182.		.6	8	-.16	FC 41
511	5-1	505P / 525P	Turner	Two Channels			8.48	193.		.6	18	0	FC 5
512	5-4	330P / 345P	"	"	"		8.58	233.		.6	14	0	"
513	5-5	125P / 145P	"	"	"		8.63	240.		.6	15	0	"
514	5-8	310P / 345P	"	"	"		8.13	129.		.2 .8	12	-.01	"
515	5-8	345P / 405P	"	"	"		8.13	134.		.6	12	0	"
516	5-12	350P / 415P	"	"	"		8.10	119.		.2 .8	12	0	"
517	5-15	750A / 815A	"	"	"		8.00	112.		.2 .8	11	0	"
518	5-22	740A / 810A	"	39.0	34.6	2.60	7.81	90.5		.2 .8	13	0	"
519	5-29	920A / 935A	"	37.5	26.0	3.23	7.86	84.0		.6	13	0	"
520	6-5	310P / 330P	"	38.0	23.1	3.20	7.85	73.9		.6	14	0	"
521	6-11	1015A / 1030A	"	19.0	8.85	2.48	7.60	21.8		.6	10	0	"
522	6-16	305P / 325P	"	24.0	8.02	1.87	7.61	14.9		.6	13	0	"
523	6-19	1015A / 1030A	"	24.5	11.6	2.76	7.75	32.5		.6	10	0	"
524	6-26	925A / 940A	"	23.8	11.1	2.61	7.69	29.0		.6	11	0	"
525	7-3	755A / 810A	"	24.0	9.11	1.98	7.57	18.2		.6	12	0	"
526	7-10	830A / 845A	"	19.7	9.76	2.43	7.68	23.7		.6	11	0	"
527	7-17	845A / 900A	Turner	20.0	8.17	2.08	7.78	17.0		.6	10	0	FC 5
528	7-24	420P / 435P	"	20.5	7.01	2.19	7.87	15.4		.6	9	0	"
529	7-31	845A / 900A	"	20.0	7.49	2.14	7.82	16.0		.6	9	0	"
530	8-7	850A / 905A	"	20.0	8.11	2.01	7.71	16.3		.6	9	0	"
531	8-14	810A / 825A	"	17.5	8.37	2.13	7.56	17.8		.6	9	0	"
532	8-21	605P / 617P	Luce	24.2	8.78	2.68	7.48	14.8		.6	9	0	FC 39
533	8-27	445P / 500P	"	24.5	9.66	1.86	7.55	18.0		.6	11	0	"
534	9-4	900A / 915A	Turner	18.0	10.8	2.32	7.60	25.1		.6	11	0	FC 5
535	9-11	340P / 350P	"	18.5	9.07	2.26	7.57	20.5		.6	9	0	"
536	9-18	915A / 930A	"	20.5	9.35	2.21	7.69	20.7		.6	10	0	"
537	9-25	910A / 925A	"	17.5	8.96	2.16	7.57	19.4		.6	9	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

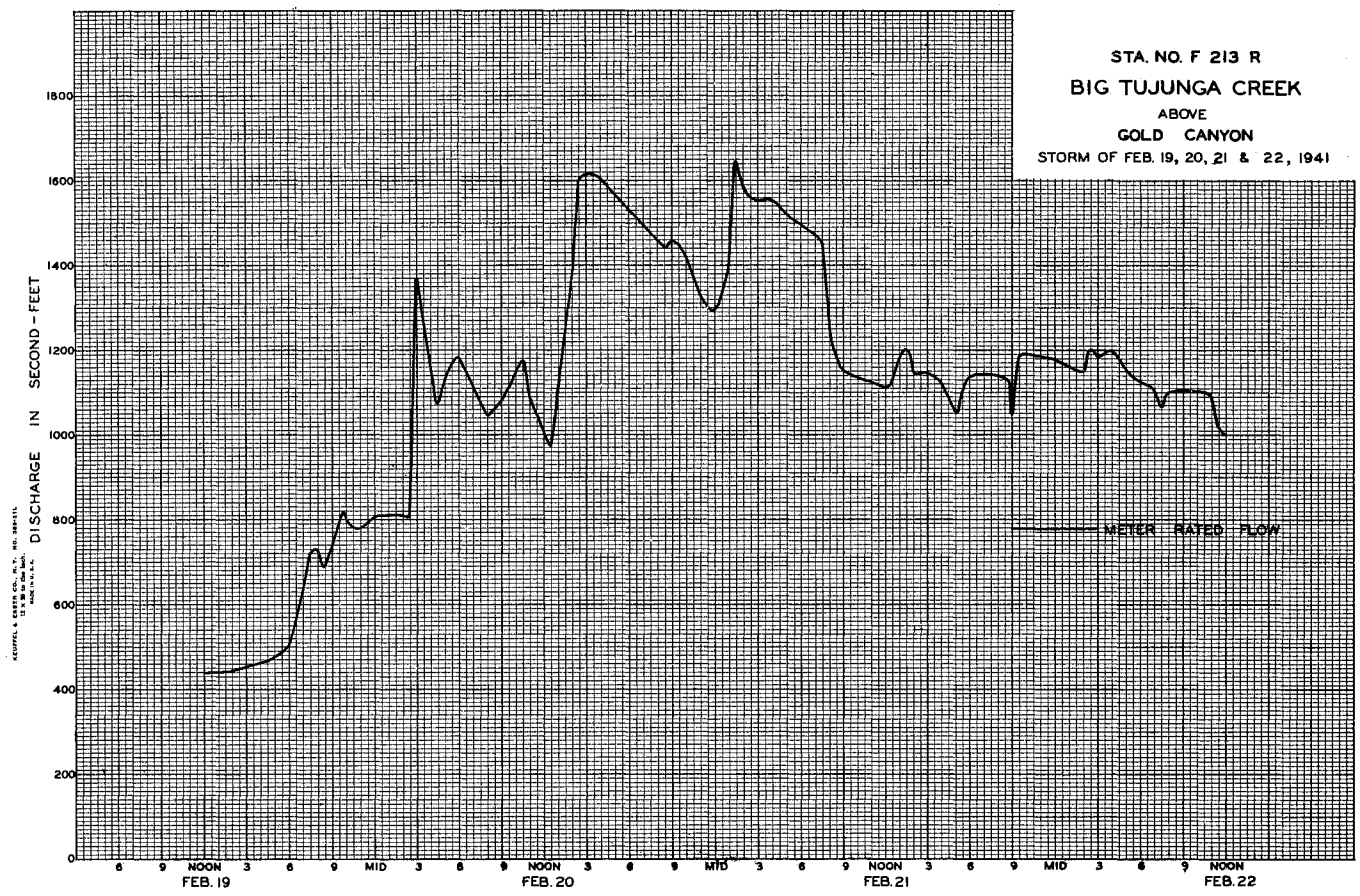
Sta. No. F213R

Daily discharge, in second-feet of BIG TUJUNGA CREEK above Gold Canyon for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17	8	32	52	E 15	707	245	129	85	16	16	24
2	17	32	34	37	E 15	604	356	191	81	17	16	25
3	17	27	34	18	E 15	596	387	195	78	18	17	26
4	17	26	34	16	E 16	1070	295	223	76	21	15	24
5	16	22	34	15	E 18	1200E	367	241	75	24	15	22
6	15	21	34	15	E 39	1000i	486	191	74	26	16	24
7	16	20	34	95	26	660	440	146	73	25	16	24
8	15	19	34	6	20	500	248	134	72	24	17	24
9	15	19	34	7	12	500	157	126	70	23	17	24
10	14	18	34	11	11	500	146	126	65	22	18	22
11	14	17	31	6	58	375i	245	E122	25	22	18	21
12	11	17	42	6	71	450E	328	E118	17	20	18	19
13	7	14	38	55	86	510	478	114	17	19	18	21
14	75	14	28	65	91	288	476	117	17	18	17	21
15	75	13	27	85	188	347	452	109	16	17	16	22
16	75	13	8	13	290	330	431	106	16	18	16	22
17	8	14	56	14	442	330	414	105	15	17	15	21
18	9	20	75	14	395	306	192	100	20	17	15	20
19	9	16	8	13	516	421	154	98	33	16	16	21
20	9	15	20	6	1240	652	264	93	33	15	16	22
21	9	15	20	47	1260	344	294	90	31	14	15	21
22	85	15	19	5	1060	491	308	88	32	15	16	20
23	8	14	48	42	782	326	332	88	32	16	16	21
24	7	14	62	34	571	189	348	90	31	16	18	20
25	5	13	66	59	353	189	332	89	31	16	18	17
26	44	12	55	27	271	182	277	86	28	16	18	18
27	46	12	49	39	212	159	195	85	24	16	18	19
28	11	13	20	66	222	182	175	85	18	16	16	1 19
29	11	13	18	E 61		211	167	83	17	16	15	1 19
30	10	23	38	E 32		193	185	81	17	16	16	1 19
31	10		57	E 15		173		84		16	18	
	3370	581	6019	6259	8295	13985	9174	3733	1219	568	512	642
MEAN	10.9	1.94	19.4	20.2	296	451	306	120	40.6	18.3	16.5	21.4
ACRE-FEET	668	115	1190	1240	16450	27740	18200	7400	2420	1130	1020	1270

Remarks: E = estimated.
i = interpolated

YEAR OR PERIOD — MEAN 109 — ACRE-FEET 78840



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 1/2 mile below Hansen Dam.

DRAINAGE AREA:

148 square miles.

CHANNEL AND CONTROL:

Channel is wide and composed of sand, gravel, and boulders. The flow past the gage is frequently in several channels during intermediate flows.
No artificial control.

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed April 29, 1932 at Station F20-R at Stoneburst 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. A horizontal rational recorder was in service from October 1, 1940 to October 28, 1940. An H.C.F. recorder was in service from October 28, 1940 to September 30, 1941.

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, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 1200± second-feet, March 5.
Minimum no flow at various times.
1932-1941 at Station F20R and F20B-R
Maximum 54000 second-feet, estimated, March 2, 1938.
Minimum no flow part of each year.

ACCURACY:

Poor due to sand obstructing communication and flow shifting in the existing wide channel. Fair for low and intermediate flows following February 25 when channel was scoured near gage and became more stable.

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, 1941

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.
19	10-3	945A / 952A	Luce	5.2	1.86	2.58	3.10	4.8		.6	5	0	FC 39
20	10-31	525P / 530P	"	2.4	0.29	0.59	2.90	0.17		.6	4	0	"
21	12-17	943A / 950A	Luce-Pardieck	17.5	12.2	3.39	3.48	41.6		.6	9	-.01	"
22	12-18	812P / 820P	" "	16.8	6.71	2.41	3.15	16.1		.6	10	0	"
23	12-18	835P / 845P	" "	16.8	6.84	2.27	3.14	15.5		.6	10	-.02	"
24	12-20	1235P / 1240P	Luce	7.4	3.89	2.60	3.04	10.1		.6	7	0	"
25	12-23	820A / 825A	Luce-Pardieck	30.0	24.2	4.69	3.68	114.		.6	10	+.07	"
26	12-23	832A / 841A	" "	37.2	29.9	4.72	3.73	141.		.6	12	+.04	"
27	12-23	1030A / 1043A	" "	39.5	43.6	5.45	3.84	328.		.6	11	+.01	"
28	12-24	1012A / 1021A	" "	37.4	30.6	3.89	3.72	119.		.6	12	-.01	"
29	12-26	150P / 205P	Bollinger	25.5	15.3	2.99	3.49	45.8		.6	10		FC 6
30	12-31	1145A / 1155A	Luce	16.8	13.9	3.37	3.44	46.8		.6	9	0	FC 39
31	1-2	410P / 420P	"	8.5	5.93	3.01	3.22	17.8		.6	8	0	"
32	1-16	815A / 825A	Turner	5.2	1.24	1.40	2.78	1.7		.6	6	0	FC 5
33	1-24	915A / 922A	Luce-Pardieck	17.5	8.44	2.57	3.24	21.9		.6	9	-.01	FC 39
34	1-30	412P / 422P	Luce	17.0	8.14	2.20	3.19	17.9		.6	10	0	"
35	2-2	830A / 840A	Luce-Pardieck	61.5	52.3	3.96	3.86	207.		.6	14	-.01	"
36	2-6	841A / 848A	" "	61.5	47.7	3.98	3.85	190.		.6	13	-.02	"
37	2-7	1045A / 1055A	" "	8.5	6.48	3.51	3.22	22.7		.6	9	-.01	"
38	2-11	700P / 715P	" "	61.5	43.0	3.56	3.75	153.		.6	12	0	"
39	2-11	715P / 730P	" "	61.5	41.3	3.44	3.75	142.		.6	13	0	"
40	2-12	1100A / 1110A	" "	19.7	12.8	3.73	3.48	47.6		.6	9	-.01	"
41	2-14	925P / 940P	" "	61.2	37.7	3.93	3.75	148.		.6	17	0	"
42	2-15	1112A / 1120A	" "	38.0	32.5	4.34	3.76	141.		.6	12	0	"
43	2-15	209P / 218P	Luce-Pardieck	38.0	43.8	5.11	3.82	224.		.6	10	0	FC 39
44	2-16	127P / 137P	Bollinger & Rickart	38.5	34.4	4.53	3.89	156.		.6	14	-.02	FC 6
45	2-16	200P / 218P	Brown & Hazelwood	58.0	13.8	10.8	* 3.81	149.	Pitot VV	10			P 11
46	2-16	230P / 234P	" "	58.0	12.8	10.9	* 3.80	139.	Pitot VV	10			"
47	2-16	920P / 935P	Luce-Pardieck	63.0	65.5	5.11	3.83	304.		.6	15	+.01	FC 39
48	2-16	1104P / 1130P	Alper-Hazelwood	58.7	23.2	13.2	* 3.87	306.	Pitot VV	12			P 11
49	2-16	1117P / 1132P	Luce-Pardieck	63.5	66.6	5.08	3.86	338.		.6	14	+.01	FC 39
50	2-16	1138P / 1155P	Hazelwood & Alper	58.7	21.4	13.3	* 3.87	284.	Pitot VV	11			P 11
51	2-17	142A / 200A	" "	58.7	23.7	13.5	* 3.92	320.	Pitot VV	10			"
52	2-17	720A / 728A	Luce-Pardieck	63.5	73.9	5.69	4.02	420.		.6	9	-.07	FC 39
53	2-21	105P / 123P	Hazelwood	59.0	29.7	16.6	* 4.38	494.	Pitot VV	12			P 14
54	2-21	200P / 218P	Hazelwood & Cassidy	59.0	27.8	16.5	* 4.37	459.	Pitot VV	12			"
55	2-22	1255P / 100P	Cornick & Straser	60.0	51.0	21.9	* 5.10	1120.	Float				---
56	2-22	128P / 142P	" "	60.0	50.0	23.3	* 5.16	1080.	Pitot VV	9			P 14
57	2-22	212P / 215P	" "	60.0	43.9	21.0	* 5.20	921.	Pitot VV	10			"
58	2-22	415P / 420P	" "	60.0	50.7	---	---	1240.	Float				---
59	2-22	428P / 445P	" "	59.7	44.2	21.4	---	948.	Pitot VV	10			P 14
60	2-22	458P / 522P	" "	59.8	43.9	21.3	---	936.	Pitot VV	10			"
61	2-24	333P / 400P	Hazelwood & Brown	59.4	41.0	21.4	* 4.07	897.	Pitot VV	12			"
62	2-24	400P / 420P	" "	59.4	40.4	21.6	* 4.07	874.	Pitot VV	12			"
63	2-28	342P / 401P	Spiester & Hazelwood	59.4	40.1	20.0	* 3.87	796.	Pitot VV				"
64	2-28	401P / 418P	" "	59.4	39.9	20.0	* 3.87	799.	Pitot VV	12			"
65	3-6	108P / 129P	Cornick	59.0	34.1	17.8	* 3.60	607.	Pitot VV	6			"
66	3-6	224P / 256P	"	60.0	48.9	21.4	* 4.16	1050.	Pitot VV	11			P 14
67	3-6	258P / 316P	Cornick	60.0	48.4	22.3	* 4.15	1080.	Pitot VV	12			P 4
68	3-7	753P / 810P	Brown & Cassidy	60.0	47.0	20.4	* 4.00	940.	Pitot VV	12			P 14
69	3-7	820P / 838P	" "	60.0	43.1	20.5	* 4.00	884.	Pitot VV	12			"
70	3-8	1207P / 1231P	Plumb & Peterson	60.0	40.5	20.2	* 3.86	817.	Pitot VV	12			"
71	3-8	1233P / 1248P	" "	60.0	40.8	20.0	* 3.86	818.	Pitot VV	12			"
72	3-8	157P / 214P	" "	60.0	41.4	20.1	* 3.85	831.	Pitot VV	12			"
73	3-8	215P / 226P	" "	60.0	41.8	20.0	* 3.89	834.	Pitot VV	12			"
74	3-8	430P / 444P	" "	60.0	39.3	20.3	* 3.85	798.	Pitot VV	12			"
75	3-8	445P / 454P	" "	60.0	39.2	20.3	* 3.84	795.	Pitot VV	12			"
76	3-9	1028A / 1120A	Carroll-Foster	60.0	40.4	19.8	* 3.84	801.	Pitot VV	12			"
77	3-9	1113A / 1212P	" "	60.0	40.8	19.5	* 3.82	796.	Pitot VV	12			"
78	3-9	214P / 300P	" "	60.0	41.7	21.2	* 3.84	885.	Pitot VV	12			P 4
79	3-9	315P / 327P	Brown-Foster	60.0	38.0	21.2	* 3.83	805.	Pitot VV	12			"
80	3-10	1011A / 1056A	Plumb-Foster	60.0	45.8	22.6	* 4.10	1030.	Pitot VV	12			"
81	3-10	1057A / 1111A	" "	60.0	43.8	22.4	* 4.10	982.	Pitot VV	12			"
82	3-10	210P / 225P	" "	60.0	43.9	22.3	* 4.10	981.	Pitot VV	12			"
83	3-10	227P / 238 P	" "	60.0	44.6	22.6	* 4.09	1010.	Pitot VV	12			P 12
84	3-10	320P / 330P	" "	60.0	42.2	22.3	* 4.09	942.	Pitot VV	12			"
85	3-12	315P / 330P	Straser & McQuigg	60.0	30.2	18.4	* 3.33	555.	Pitot VV	12			"
86	3-12	410P / 425P	Plumb-Straser	60.0	35.8	20.2	* 3.75	723.	Pitot VV	12			"
87	3-12	435P / 455P	" "	60.0	42.8	22.5	* 4.10	962.	Pitot VV	12			"
88	3-12	450P / 527P	" "	60.0	42.1	22.2	* 4.05	933.	Pitot VV	12			"
89	3-12	540P / 608P	" "	60.0	38.9	21.6	* 3.93	841.	Pitot VV	12			"
90	3-13	1050A / 1105A	Plumb-Foster	60.0	39.9	22.1	* 4.00	883.	Pitot VV	12			"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F20B-R

DISCHARGE MEASUREMENTS OF TUJUNGA WASH

AT OR NEAR Glen Oaks Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
91	3-13	1112A 1127A	Plumb-Straser	60.0	38.5	21.8	* 3.92	839.	Pitot	VV	12		P 12
92	3-13	1134A 1147A	Straser-Plumb	60.0	41.9	21.0	* 3.80	879.	Pitot	VV	12		"
93	3-13	107P 125P	Plumb-McQuigg	60.0	41.0	21.4	* 3.90	879.	Pitot	VV	12		"
94	3-13	133P 145P	" "	60.0	39.2	20.8	* 3.80	815.	Pitot	VV	12		"
95	3-13	155P 208P	" "	60.0	36.4	20.4	* 3.72	741.	Pitot	VV	12		"
96	3-13	220P 234P	" "	60.0	40.3	21.0	* 3.82	846.	Pitot	VV	12		"
97	3-13	302P 318P	McQuigg-Straser	60.0	37.9	20.3	* 3.70	771.	Pitot	VV	12		"
98	3-13	323P 339P	" "	60.0	36.6	19.8	* 3.61	724.	Pitot	VV	12		"
99	3-13	345P 402P	Straser & McQuigg	60.0	37.7	20.3	* 3.72	765.	Pitot	VV	12		"
100	3-14	1047A 1104A	Foster-McQuigg	60.0	37.6	20.7	* 3.80	778.	Pitot	VV	12		"
101	3-14	1120A 1131A	" "	60.0	35.4	19.4	* 3.61	686.	Pitot	VV	12		"
102	3-14	1140A 1152A	" "	60.0	33.2	19.1	* 3.52	634.	Pitot	VV	12		"
103	3-14	10?P 120P	Plumb-Foster	60.0	33.5	19.6	* 3.61	658.	Pitot	VV	12		"
104	3-14	127P 136P	" "	60.0	32.2	19.3	* 3.52	620.	Pitot	VV	12		"
105	3-14	143P 154P	" "	60.0	33.9	19.7	* 3.60	667.	Pitot	VV	12		"
106	3-14	245P 256P	McQuigg-Plumb	60.0	36.1	20.4	* 3.77	737.	Pitot	VV	12		"
107	3-14	301P 315P	" "	60.0	34.9	19.5	* 3.59	682.	Pitot	VV	12		"
108	3-18	1155A 1210P	Straser & Peterson	60.0	27.9	17.3	* 3.20	482.	Pitot	VV	12		"
109	3-21	1140A 1154A	Foster-McQuigg	59.0	28.2	17.8	* 3.27	501.	Pitot	VV	12		"
110	3-21	120P 133P	" "	59.0	31.8	18.3	* 3.37	583.	Pitot	VV	12		"
111	3-21	146P 158P	" "	60.0	32.8	18.6	* 3.45	611.	Pitot	VV	12		"
112	3-21	211P 222P	" "	60.0	30.1	17.7	* 3.27	533.	Pitot	VV	12		"
113	3-21	248P 257P	" "	60.0	29.3	16.9	* 3.21	494.	Pitot	VV	12		"
114	3-21	308P 316P	" "	60.0	28.1	16.9	* 3.21	474.	Pitot	VV	12		"
115	3-21	334P 344P	Foster-McQuigg	60.0	30.4	17.2	* 3.27	523.	Pitot	VV	12		P 12
116	3-30	1156A 1212P	Luce-Pardieck	62.2	88.2	2.92	2.46	258.		.6	18	0	FC 39
117	4-7	1238P 102P	Hazelwood & Carrol	60.0	30.0	17.4	* 3.30	538.	Pitot	VV	12		P 10
118	4-7	104P 124P	" "	60.0	31.4	17.5	* 3.30	538.	Pitot	VV	12		"
119	4-10	1150A 1240P	Hazelwood & Peterson	65.0	83.5	2.32	* 2.32	194.		.6	33		35616
120	4-10	1240P 110P	" "	65.0	81.5	2.39	* 2.32	195.		.6	23		"
121	4-10	310P 330P	Luce	62.5	85.9	2.36	2.33	203.		.6	11	-.05	FC 39
122	4-15	1140A 1155A	Armstrong & Hazelwood	60.0	28.6	16.7	* 3.34	479.	Pitot	VV	12		P 14
123	4-15	1156A 1212P	" "	60.0	29.3	16.7	* 3.15	489.	Pitot	VV	12		"
124	4-20	110P 150P	Cassidy	64.0	64.3	2.16	1.88	139.		.6	14		35549
125	4-21	1143A 1220P	Hazelwood	63.0	50.8	1.83	---	93.1		.6	22		"
126	4-24	210P 230P	"	62.5	50.6	1.74	---	88.0		.6	31		"
127	4-24	300P 325P	"	63.5	42.0	1.40	---	59.0		.6	22		"
128	4-24	345P 410P	"	64.0	52.8	1.70	---	89.8		.6	22		"
129	4-24	420P 445P	"	64.0	61.0	1.89	---	115.		.6	22		"
130	4-25	1040A 1100A	Luce	32.0	45.1	1.86	1.76	84.0		.6	16	0	FC 39
131	4-29	1225P 1250P	Hazelwood	65.0	55.8	1.88	* 1.85	105.		.6	22		35549
132	4-29	1255P 110P	"	65.0	57.0	1.91	* 1.85	109.		.6	18		"
133	5-3	1115A 1145A	Carroll & Peterson	59.0	34.1	14.4	* 3.34	492.	Pitot	VV	12		P 12
134	5-3	1148A 1211P	" "	59.0	35.1	14.3	* 3.34	504.	Pitot	VV	12		"
135	5-3	1245P 107P	" "	59.0	35.0	14.5	* 3.22	507.	Pitot	VV	12		"
136	5-3	112P 135P	" "	59.0	36.5	14.4	* 3.22	527.	Pitot	VV	12		"
137	5-8	650A 715A	Luce	30.0	51.7	2.57	1.92	133.		.6	15	0	FC 39
138	5-13	214P 245P	Peterson & Brown	60.7	56.6	1.87	* 1.89	106.		.6	22		35549
139	5-13	310P 333P	Haig	63.5	55.2	1.78	1.88	98.1		.6	17	0	FC 14
140	5-13	442P 508P	"	60.0	56.2	1.80	1.88	101.		.6	18	0	"
141	5-14	836A 900A	Peterson & Brown	61.0	55.0	1.93	* 1.89	106.		.6	21		35549
142	5-14	855A 905A	Haig	59.5	57.9	1.82	1.89	105.		.6	22	0	FC 14
143	5-14	119P 145P	Brown & Peterson	58.7	14.6	7.26	* 1.89	106.	Pitot	VV	12		P 14

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.
144	5-20	1115A 1147A	Haig	62.0	52.3	1.64	* 1.79	85.9		.6	21	0	FC 33
145	5-20	1115A 1147A	Brown	60.0	48.2	1.96	* 1.79	94.4		.6	20		35549
146	5-20	300P 340P	"	64.0	52.0	1.76	* 1.79	91.6		.6	22		"
147	5-20	340P 424P	"	64.0	52.2	1.84	* 1.79	95.8		.6	22		"
148	5-28	930A 950A	Luce-Turner	62.0	50.6	1.58	1.78	79.7		.6	17	0	FC 41
149	6-4	1040A 1100A	Turner	63.5	38.3	1.41	1.49	53.5		.6	16		FC 5
150	6-12	810A 830A	"	62.0	38.4	1.33	1.51	50.8		.6	14		"
151	6-12	1250P 105P	Brown & Peterson	44.0	42.8	1.31	* 1.51	56.0		.6	17		35621
152	6-12	115P 140P	" "	43.0	38.5	1.34	* 1.51	51.7		.6	16		35549
153	6-12	230P 250P	" "	33.0	30.7	1.59	* 1.51	48.8		.6	13		"
154	6-12	303P 328P	Peterson & Brown	33.0	34.5	1.45	* 1.51	50.0		.6	16		35621
155	6-17	1110A 1140A	Brown & Belknap	33.5	32.5	1.45	* 1.50	47.2		.6	14		35549
156	6-18	810A 835A	Turner	64.0	40.2	1.22	1.50	49.0		.6	15	0	FC 5
157	6-25	800A 815A	"	29.0	29.6	1.42	1.49	41.8		.6	14	0	"
158	6-25	1140A 1200N	Peterson	35.0	35.0	1.30	* 1.52	45.2		.6	15		35549
159	6-25	1200N 1214P	"	35.0	34.8	1.38	* 1.52	48.1		.6	14		"
160	7-2	340P 400P	Turner	29.0	29.0	1.28	1.47	37.2		.6	14		FC 5
161	7-5	1043A 1106A	Brown	25.5	23.1	1.70	* 1.42	39.2		.6	14		35549
162	7-9	830A 850A	Turner	28.0	25.3	1.42	1.38	35.7		.6	14		FC 5
163	7-10	148P 215P	Belknap	34.5	31.9	1.10	* 1.38	35.4		.6	9		35549
164	7-10	215P 250P	"	34.5	31.0	0.98	* 1.38	30.4		.6	8		"
165	7-12	1042A 1051A	"	34.0	30.3	1.24	* 1.43	37.6		.6	6		"
166	7-12	1057A 1108A	"	34.0	29.1	1.36	* 1.43	39.6		.6	6		"
167	7-14	121P 155P	Peterson	34.5	31.4	1.18	* 1.38	36.0		.6	15		35621
168	7-14	156P 216P	"	35.5	32.5	1.27	1.38	41.2		.6	15		"
169	7-16	730A 750A	Luce	24.4	23.3	1.63	1.34	38.1		.6	12		FC 39
170	7-19	1035A 1055A	Belknap	21.4	13.8	1.96	1.09	27.0		.6	8		35549
171	7-19	1215P 1245P	"	19.5	11.7	1.81	1.08	21.4		.6	10		"
172	7-21	306P 322P	"	19.5	8.90	1.66	0.95	14.7		.6	9		"
173	7-21	322P 344P	"	19.5	9.50	1.42	0.95	13.5		.6	9		"
174	7-24	1045A 1100A	Luce	7.3	4.85	0.99	0.84	4.8		.6	8		FC 39
175	7-28	255P 310P	U.S.E.D.	21.0	9.01	1.12	0.90	10.1		.6	9		---
176	7-28	310P 322P	"	21.0	8.87	1.29	0.91	11.4		.6	9		---
177	7-31	945A 955A	Luce	7.3	5.85	1.06	0.84	6.2		.6	8		FC 39
178	8-4	1240P 155P	U.S.E.D.	7.5	4.90	0.67	0.80	3.3		.6	7		---
179	8-4	155P 205P	"	7.5	4.87	0.63	0.80	3.1		.6	7		---
180	8-7	900A 910A	Luce	7.0	6.28	0.86	0.82	5.5		.6	7		FC 39
181	8-11	215P 245P	U.S.E.D.	17.5	15.0	1.76	1.20	26.4		.6	11		---
182	8-11	245P 305P	"	17.5	13.9	1.86	1.16	25.9		.6	10		---
183	8-16	955A 1011A	"	21.5	18.6	0.60	0.92	11.1		.6	10	0	35549
184	8-16	1011A 1025A	"	21.5	18.6	0.58	0.92	10.9		.6	10	0	"
185	8-21	825A 855A	Luce	7.5	4.61	0.85	0.66	3.9		.6	6	0	FC 39
186	8-26	1010A 1037A	Peterson	15.7	7.51	0.40	0.68	3.0		.6	14	0	35549
187	8-26	1038A 1100A	Peterson	15.7	7.19	0.44	0.67	3.1		.6	13	-.01	35549
188	8-28	925A 940A	Luce	7.0	4.72	1.04	0.70	4.9		.6	7	0	FC 39
189	9-2	218P 229P	Peterson	12.9	3.77	1.34	0.77	5.0		.6	9	0	35549
190	9-2	230P 242P	"	12.9	3.93	1.41	0.77	5.5		.6	9	0	"
191	9-4	945A 1000A	Luce	25.0	17.6	0.50	0.90	8.8		.6	10	0	FC 39
192	9-8	1154A 1206P	Belknap	7.7	6.33	1.98	0.96	12.5		.6	7	0	35549
193	9-8	1206P 1215P	"	7.7	6.43	1.98	0.96	12.7		.6	7	0	"
194	9-11	400P 415P	Luce	24.5	21.6	0.68	1.04	14.7		.6	9	0	FC 39
195	9-15	1154A 1205P	Belknap	7.8	5.54	1.40	0.84	7.7		.6	7	0	35549
196	9-15	1205P 1215P	"	7.8	5.64	1.39	0.84	7.8		.6	7	0	"
197	9-22	1155A 1204P	"	7.2	4.54	1.02	0.77	4.6		.6	7	0	"
198	9-22	1204P 1213P	"	7.2	4.54	1.13	0.77	5.1		.6	7	0	"
199	9-25	1005A 1015A	Luce	16.0	11.2	0.56	0.78	6.3		.6	8	0	FC 39
200	9-29	1137A 1147A	Belknap	7.3	5.53	1.73	0.89	9.5		.6	7	0	35549
201	9-29	1147A 1153A	"	7.3	5.59	1.73	0.89	9.7		.6	7	0	"

* Est. G. H. taken F20B-R Chart. Measurements taken at Hansen Dam

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 Glen Oaks Boulevard, for the year ending September 30, 1941

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.3	+	0	44	E 2.0	815	365	510	49	36	5	3.5
2	4.1	0	0	31	E 1.7	816	426	507	51	36	4.0	5.5
3	1.5	0	0	3.8	E 1.5	794	261	418	52	36	3.4	7.5
4	0.8	0	0	1.2	E 1.2	891	252	246	53	39	3.0	11
5	0.8	0	0	0.7	E 1.0	980	379	179	54	39	3.4	13
6	+	0	0	1.2	49	873	532	128	54	38	4.8	13
7	+	0	0	2.1	22	1020	528	130	54	38	5.5	13
8	+	0	0	1.0	17	833	540	132	53	37	6	13
9	1.7	0	0	0	4.7	807	463	125	53	36	8	13
10	3.8	0	0	1.5	2.9	957	218	112	52	36	7	15
11	3.8	0	0	0	75	449	351	103	52	38	17	14
12	1.0	0	0	0	74	352	389	101	51	40	22	10
13	+	0	0	0	93	881	545	101	51	38	23	8
14	+	0	0	0	112	696	524	106	50	41	20	7.5
15	+	0	0	0	160	522	493	108	50	41	14	8
16	+	0	2.6	E 1.5	219	494	514	108	49	39	11	8
17	0	0	143	4.4	180	488	508	102	48	37	8.5	7.5
18	+	0	5.5	4.1	* 12	513	426	92	48	32	7	7
19	0	0	1.0	1.6	0.2	516	171	92	4	22	6	6.5
20	+	0	9	0.5	0.3	528	110	92	48	14	4.6	6.5
21	+	0	9.5	0	* 343	530	97	90	48	11	4.0	5
22	+	0	8	0	* 822	532	90	90	46	9	3.7	4.4
23	+	0	99	0	* 1050	544	86	87	46	6	3.4	4.8
24	0	0	67	13	981	*429	85	87	44	5	3.2	5.5
25	0	0	60	42	837	*222	86	86	43	7	3.0	6.5
26	+	0	45	28	583	*178	92	83	43	8.5	3.0	6.5
27	0	0	41	20	559	*224	98	80	42	10	3.8	7.5
28	0.1	0	1.6	64	635	209	102	80	42	10	4.8	8.5
29	0.3	0	+	50		309	106	63	39	9	4.0	9
30	2.4	0	22	41		269	289	44	38	7.5	3.5	9.5
31	+		57	2.2		301		46		6	2.9	
	23.6	+	571.2	368.8	6838.5	17972	9126	4328	1452	802.0	222.5	257.7
MEAN	0.76	0	18.4	11.9	244	580	304	140	48.4	25.9	7.18	8.59
ACRE-FEET	47	0	1130	732	13560	35650	18100	8580	2880	1590	441	511

Remarks: E = estimated. + = 0.05 c.f.s. or less. * = Hansen Dam records.

YEAR OR PERIOD — MEAN 115 — ACRE-FEET 83220

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, 1940 to September 30, 1941.

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, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 125 second feet, February 28.
Minimum no flow part of year.
1930-1941
Maximum not determined March 2, 1938.
Minimum no flow most of year.

ACCURACY:

Fair.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F105R

DISCHARGE MEASUREMENTS OF TUJUNGA WASH

at Magnolia Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 1941

NO.	DATE	BEGIN / END	GAGE 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.
7	12-17	325A / 333A	Bollinger & Rickart		31.5	19.8	1.97	7.29	38.9		.6	7	-.02	FC 6
8	12-23	1050A / 1058A	"	"	31.0	20.4	2.24	7.23	45.7		.6	12	-.02	"
9	12-24	937A / 947A	"	"	29.4	9.55	1.34	6.88	12.8		.6	11	0	"
10	2-15	242P / 248P	"	"	34.0	14.4	1.85	7.15	26.7		.6	9	-.02	"
11	2-21	846P / 857P	"	"	36.0	20.0	2.54	7.42	50.7		.6	10	-.02	"
12	2-28	1000P / 1014P	"	"	33.5	14.5	2.50	7.38	36.3		.6	12	-.06	"
13	3-4	131A / 143A	"	"	34.0	17.9	2.62	7.41	47.1		.6	11	-.02	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

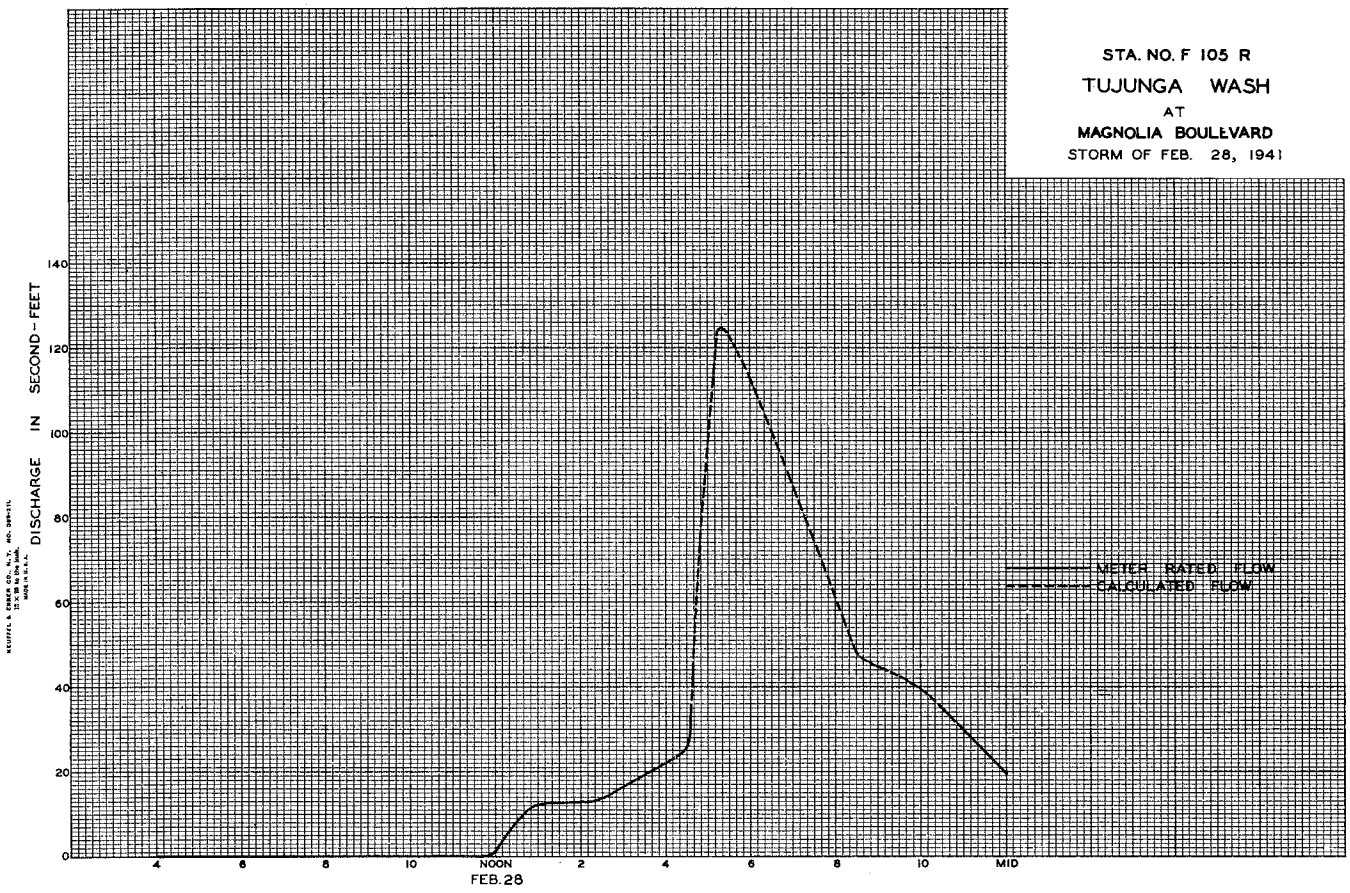
Sta. No F105R

Daily discharge, in second-feet of TUJUNGA WASH at Magnolia Boulevard, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	15	2.6	+	+	+	+	+
2	0	0	0	0	0	7	+	+	+	+	+	+
3	0	0	0	0	0	9	+	+	+	+	+	+
4	0	0	0	0	0	37	+	+	+	+	+	+
5	0	0	0	0	+	19	+	+	+	+	+	+
6	0	0	0	0	0	4.9	+	+	+	+	+	+
7	0	0	0	+	0	+	+	+	+	+	+	+
8	0	0	0	0	0	+	+	+	+	+	+	+
9	0	0	0	0	0	+	+	+	+	+	+	+
10	0	0	0	+	0	+	+	+	+	+	+	+
11	0	0	0	0	+	+	+	+	+	+	+	+
12	0	0	0	0	0	2.2	+	+	+	+	+	+
13	0	0	0	0	0	+	+	+	+	+	+	+
14	0	0	0	+	1.5	2.6	+	+	+	+	+	+
15	0	0	0	0	5	+	+	+	+	+	+	+
16	0	0	+	0	+	+	+	+	+	+	+	+
17	0	0	5.5	0	4.1	+	+	+	+	+	+	+
18	0	0	+	0	0	+	+	+	+	+	+	+
19	0	0	0	0	7	+	+	+	+	+	+	+
20	0	0	0	0	1.8	+	+	+	+	+	+	+
21	0	0	0	+	14	+	+	+	+	+	+	+
22	0	0	0	0	7	+	+	+	+	+	+	+
23	0	0	7	0	+	+	+	+	+	+	+	+
24	0	0	2.3	+	+	+	+	+	+	+	+	+
25	0	0	0	0	0	+	+	+	+	+	+	+
26	0	0	0	0	0	+	+	+	+	+	+	+
27	0	0	0	0	0	+	+	+	+	+	+	+
28	0	0	0	0	22	1.7	+	+	+	+	+	+
29	0	0	+	0		3.3	+	+	+	+	+	+
30	0	0	0	0		+	+	+	+	+	+	+
31	0		0	0		6.5		+		+	+	
	0	0	14.8	+	62.4	108.2	2.6	+	+	+	+	+
Mean	0	0	0.48	+	2.23	3.49	0.09	+	+	+	+	+
Acre-Feet	0	0	29	+	124	215	5.2	+	+	+	+	+

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

Year or Period Mean 0.52 Acre-Feet 373



STATION F106B-R

TUJUNGA WASH-CENTRAL BRANCH at Chandler Boulevard

LOCATION:

On the south side of the upstream bridge at Chandler Blvd., 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. over a 20 inch diameter corrugated iron pipe stilling well. An H.C.F. continuous recorder was in service from October 1, 1940 to September 30, 1941.

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

EXTREMES OF DISCHARGE:

1940-1941
Maximum not determined.
Minimum no flow most of year.
1930-1941
Maximum not determined March 2, 1938.
Minimum no flow most of year.

ACCURACY:

Poor.
Flow estimated for the season.
Communication to gage unreliable.

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. F106B-R

DISCHARGE MEASUREMENTS OF TUJUNGA WASH - CENTRAL BRANCH

AT Chandler Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
16	12-16	300P 307P	Bollinger & Rickart	8.2	2.08	1.30	9.93	2.7		.6	6	0	FC 6
17	12-17	230A 245A	" "	Two Channels			10.56	85.1		.6	12	-.08	"
18	12-23	710A 720A	" "	50.5	19.4	3.07	9.93	59.6		.6	9	+.06	"
19	12-23	1000A 1012A	" "	52.5	26.0	3.78	10.23	98.2		.6	13	-.03	"
20	12-23	505P 510P	" "	7.7	1.30	1.77	9.83	2.3		.6	6	-.02	"
21	12-24	850A 900A	" "	29.7	9.21	1.72	9.96	15.8		.6	11	0	"
22	12-26	1105A 1112A	Bollinger	3.5	1.00	1.28	9.87	1.3		.6	5	+.02	"
23	12-29	1220P 1224P	Bollinger & Rickart	4.2	0.91	0.98	9.90	0.90		.6	5	0	"
24	1-24	417A 424A	" "	7.2	2.35	3.09	10.06	7.3		.6	8	-.01	"
25	1-30	125P 128P	Bollinger	1.8	0.16	1.35	9.88	0.22	Floats			-.01	---
26	2-6	443P 448P	Bollinger & Rickart	1.3	0.12	1.05	9.84	0.13	Floats			0	---
27	2-11	544P 552P	" "	46.5	20.5	2.95	9.86	60.5		.6	10	0	FC 6
28	2-12	1201A 1211A	Bollinger	53.7	14.4	2.43	---	35.0		.6	11	---	"
29	2-13	135P 143P	"	15.2	2.82	1.28	---	3.6		.6	7	---	"
30	2-14	421P 435P	Bollinger & Rickart	Two Channels			---	21.8		.6	14	---	"
31	2-15	153A 207A	" "	17.5	6.62	3.60	---	23.9		.6	9	---	"
32	2-15	202P 209P	" "	21.5	8.92	3.65	---	32.6		.6	10	---	"
33	2-15	450P 457P	" "	25.1	14.9	4.94	9.92	69.0		.6	9	---	"
34	2-15 2-16	1152P 1202A	" "	24.3	10.1	4.02	---	40.6		.6	8	---	"
35	2-16	348P 355P	" "	24.8	8.11	3.09	---	25.1		.6	9	---	"
36	2-17	252A 308A	" "	55.5	33.6	3.93	10.36	132.		.6	13	+.01	"
37	2-17	857A 865A	" "	Two Channels			---	203.		.6	20	---	"
38	2-21	620P 710P	" "	140.0	126.	3.84	10.55	484.		.6	13	-.04	"
39	2-22	310P 350P	" "	Two Channels			---	699.		.6	16	---	"
40	2-23	1020A 1040A	Bollinger	39.5	57.3	8.20	10.57	472.		.6	8	+.06 -.02	FC 6
41	2-24	157P 215P	Bollinger & Rickart	Two Channels			10.58	393.		.6	15	-.05	"
42	2-25	950A 1043A	Bollinger	Three Channels			10.31	292.		.6	37	+.07 -.01	"
43	2-26	1243P 108P	"	Two Channels			10.08	26.2		.6	23	+.05	"
44	2-28	842P 907P	Bollinger & Rickart	" "			10.26	341.		.6	24	-.03	"
45	3-1	657A 725A	" "	" "			10.37	360.		.6	19	+.05	"
46	3-2	940A 1008A	" "	" "			10.29	231.		.6	29	-.03	"
47	3-3	1100P 1126P	" "	" "			10.47	288.		.6	21	+.03	"
48	3-5	300P 330P	Bollinger	44.5	61.1	5.46	10.17	334.		.6	8	+.05 -.21	"
49	3-7	155P 235P	"	Two Channels			10.15	505.		.6	31	-.04 +.10	"
50	3-12	523P 542P	Bollinger & Rickart	52.1	14.6	2.73	9.69	39.5		.6	15	-.04 +.05	"
51	3-12	1102P 1130P	" "	Two Channels			9.96	479.		.6	19	-.18	"
52	3-13	300P 325P	" "	Three Channels			10.02	397.		.6	24	-.20	"
53	3-17	1115A 1140A	Bollinger & Swanson	122.0	55.2	3.73	9.91	206.		.6	23	+.02 -.01	"
54	3-20	130P 143P	Bollinger	68.5	32.6	4.06	9.95	132.		.6	9	0	"
55	3-24	930A 955A	"	87.0	48.3	4.38	9.96	212.		.6	16	-.02	"
56	3-26	1042A 1100A	"	96.0	30.5	3.07	9.76	92.6		.6	16	0	"
57	3-27	125P 147P	"	Three Channels			9.75	42.8		.6	17	-.04	"
58	3-29	751A 758A	Bollinger & Rickart	24.0	6.45	2.08	---	13.4		.6	6	---	"
59	3-29	800A 806A	" "	24.0	6.10	2.11	---	12.9		.6	7	---	"
60	3-29	222P 250P	" "	Two Channels			9.88	121.		.6	26	+.03	"
61	3-31	515P 533P	" "	" "			9.61	71.7		.6	23	0	"
62	4-1	228A 256A	" "	" "			9.77	93.8		.6	21	0	"
63	4-1	1110A 1127A	Bollinger & Rickart	Two Channels			9.84	32.4		.6	15	0	FC 6
64	4-7	210P 240P	Bollinger	" "			9.90	183.		.6	20	-.02	"
65	4-11	550A 623A	Bollinger & Rickart	" "			9.96	154.		.6	27	-.01	"
66	4-12	438P 451P	" "	" "			---	20.5		.6	16	---	"
67	4-14	310P 345P	Bollinger	" "			9.94	162.		.6	26	-.01	"
68	4-17	245P 320P	"	" "			9.92	217.		.6	28	-.04	"
69	5-1	320P 343P	"	" "			---	166.		.6	20	---	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No F106B-R

Daily discharge, in second-feet of TUJUNGA WASH - CENTRAL BRANCH at Chandler Boulevard, for the year ending September 30, 1941

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	400	60	170	0	0	0	0
2	0	0	0	0	0	250	40	170	0	0	0	0
3	0	0	0	0	0	250	10	120	0	0	0	0
4	0	0	0	0	0	500	50	5	0	0	0	0
5	0	0	0	0	0	350	50	0	0	0	0	0
6	0	0	0	0	1.5	300	150	0	0	0	0	0
7	0	0	0	0	0.1	500	180	0	0	0	0	0
8	0	0	0	0	0	350	200	0	0	0	0	0
9	0	0	0	0	0	200	150	0	0	0	0	0
10	0	0	0	0.1	0	200	5	0	0	0	0	0
11	0	0	0	0	25	100	35	0	0	0	0	0
12	0	0	0	0	17	100	50	0	0	0	0	0
13	0	0	0	0	4.0	500	150	0	0	0	0	0
14	0	0	0	0.1	15	300	160	0	0	0	0	0
15	0	0	0	0	45	250	130	0	0	0	0	0
16	0	0	2.0	0	35	225	190	0	0	0	0	0
17	0	0	40	0	80	200	210	0	0	0	0	0
18	0	0	1.0	0	0	175	200	0	0	0	0	0
19	0	0	0	0	5	150	25	0	0	0	0	0
20	0	0	0	0	100	130	0	0	0	0	0	0
21	0	0	0	0.1	200	130	0	0	0	0	0	0
22	0	0	0	0.0	550	130	0	0	0	0	0	0
23	0	0	35	0.0	500	130	0	0	0	0	0	0
24	0	0	25	1.5	400	100	0	0	0	0	0	0
25	0	0	1.5	0	250	70	0	0	0	0	0	0
26	0	0	1.0	0.1	60	45	0	0	0	0	0	0
27	0	0	1.0	0	30	25	0	0	0	0	0	0
28	0	0	1.0	0.1	150	20	0	0	0	0	0	0
29	0	0	0.5	0.1		80	0	0	0	0	0	0
30	0	0	0	0.1		20	35	0	0	0	0	0
31	0		0	0		30		0		0	0	
	0	0	108.0	2.4	2467.6	6210	2130	465	0	0	0	0
MEAN	0	0	3.48	0.08	88.1	200	71.0	15.0	0	0	0	0
ACRE-FEET	0	0	214	4.8	4890	12320	4220	922	0	0	0	0

Remarks: Entire year estimated by comparison.

YEAR OR PERIOD — MEAN 31.2; ACRE-FEET 22570

STATION F270R

CALABASAS CREEK at Ventura Boulevard

LOCATION:

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

DRAINAGE AREA:

2.4 square miles.

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

DISCHARGE MEASUREMENTS:

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

RECORDER:

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

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, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 551 second-feet, February 20.
Minimum no flow part of each year.

ACCURACY:

Fair.
Low flows occasionally 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. F270R

DISCHARGE MEASUREMENTS OF CALABASAS CREEK

at Ventura Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
2	1-24	1155A / 1159A	Bollinger & Rickart	4.2	1.54	2.34	1.66	3.6		.6	6	+.01	FC 6
3	1-24	252P / 256P	" "	4.7	1.90	2.61	1.72	4.9		.6	5	-.09	"
4	1-27	1038A / 1050A	Bollinger	1.3	0.17	0.71	1.30	0.12	Floats	4	0	---	---
5	2-6	1050A / 1056A	Bollinger & Rickart	5.2	1.35	1.93	1.64	2.6		.6	7	+.01	FC 6
6	2-6	212P / 218P	" "	4.0	0.94	1.28	1.50	1.2		.6	5	-.01	"
7	2-11	242P / 246P	" "	5.1	3.63	3.11	2.00	11.3		.6	6	-.08	"
8	2-11	452P / 456P	" "	4.8	2.82	2.84	1.91	8.0		.6	5	-.06	"
9	2-13	425P / 428P	Bollinger	2.0	0.28	0.75	1.36	0.21		.6	3	0	"
10	2-14	730P / 735P	Bollinger & Rickart	7.0	6.45	3.89	2.37	25.1		.6	5	-.10	"
11	2-14	1110P / 1115P	Bollinger	4.7	2.80	2.74	1.86	7.7		.6	6	-.04	"
12	2-15	716P / 724P	Bollinger & Rickart	5.0	2.14	2.28	1.76	4.9		.6	6	0	"
13	2-17	1207P / 1212P	" "	4.9	2.23	3.07	1.87	6.8		.6	6	-.02	"
14	2-19	223P / 237P	Bollinger	4.8	2.42	2.56	1.83	6.2		.6	7	+.06	"
15	2-20	1155A / 1201P	"	5.8	3.59	4.48	2.09	16.0		.6	7	-.02	"
16	2-22	1210A / 1221A	Bollinger & Rickart	8.0	8.80	4.26	2.66	37.5		.6	6	+.01	"
17	2-24	445P / 450P	" "	5.5	3.12	1.92	1.84	6.0		.6	6	0	"
18	2-27	240P / 244P	Bollinger	4.0	1.21	0.98	1.60	1.2		.6	4	---	FC 6
19	3-1	132A / 138A	Bollinger & Rickart	5.8	4.55	2.70	2.06	12.3		.6	6	0	"
20	3-2	1223P / 1228P	" "	5.5	3.37	1.59	1.82	5.4		.6	6	0	"
21	3-4	506A / 522A	" "	9.0	14.5	5.52	3.32	80.1		.6	8	-.26	"
22	3-6	237P / 245P	Bollinger	6.6	2.61	1.38	1.78	3.6		.6	8	-.01	"
23	3-11	125P / 132P	"	6.0	2.05	0.53	1.59	1.1		.6	6	+.01	"
24	3-12	820P / 826P	Bollinger & Rickart	5.5	3.60	1.42	1.87	5.1		.6	5	0	"
25	3-19	150P / 157P	Bollinger	6.2	2.24	0.37	1.54	0.83		.6	6	0	"
26	3-26	410P / 415P	Bollinger	2.6	0.50	0.94	1.50	0.47		.6	4	0	FC 6
27	4-1	550A / 559A	Bollinger & Rickart	8.7	4.07	1.47	1.96	6.0		.6	6	+.01	"
28	4-1	605A / 611A	" "	7.8	3.91	1.69	1.93	6.6		.6	8	0	"
29	4-2	117P / 124P	Bollinger	5.7	2.04	0.93	1.67	1.9		.6	6	0	"
30	4-10	441P / 448P	"	5.1	2.20	0.34	1.59	0.76		.6	7	0	"
31	4-11	943A / 949A	Bollinger & Rickart	6.8	3.02	0.93	1.76	2.8		.6	6	0	"
32	4-11	951A / 957A	" "	6.5	2.91	1.01	1.76	3.0		.6	7	0	"
33	4-11	958A / 1004A	" "	6.5	2.87	1.03	1.76	3.0		.6	7	0	"
34	4-17	422P / 427P	Bollinger	6.0	1.76	0.44	1.60	0.77		.6	5	0	"
35	4-24	330P / 336P	"	6.3	1.39	0.22	1.56	0.30		.6	5	0	"
36	4-30	140P / 146P	Bollinger & Rickart	6.6	2.16	0.76	1.66	1.6		.6	6	-.01	"
37	4-30	151P / 157P	" "	6.6	2.08	0.72	1.65	1.5		.6	7	0	"

F. C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

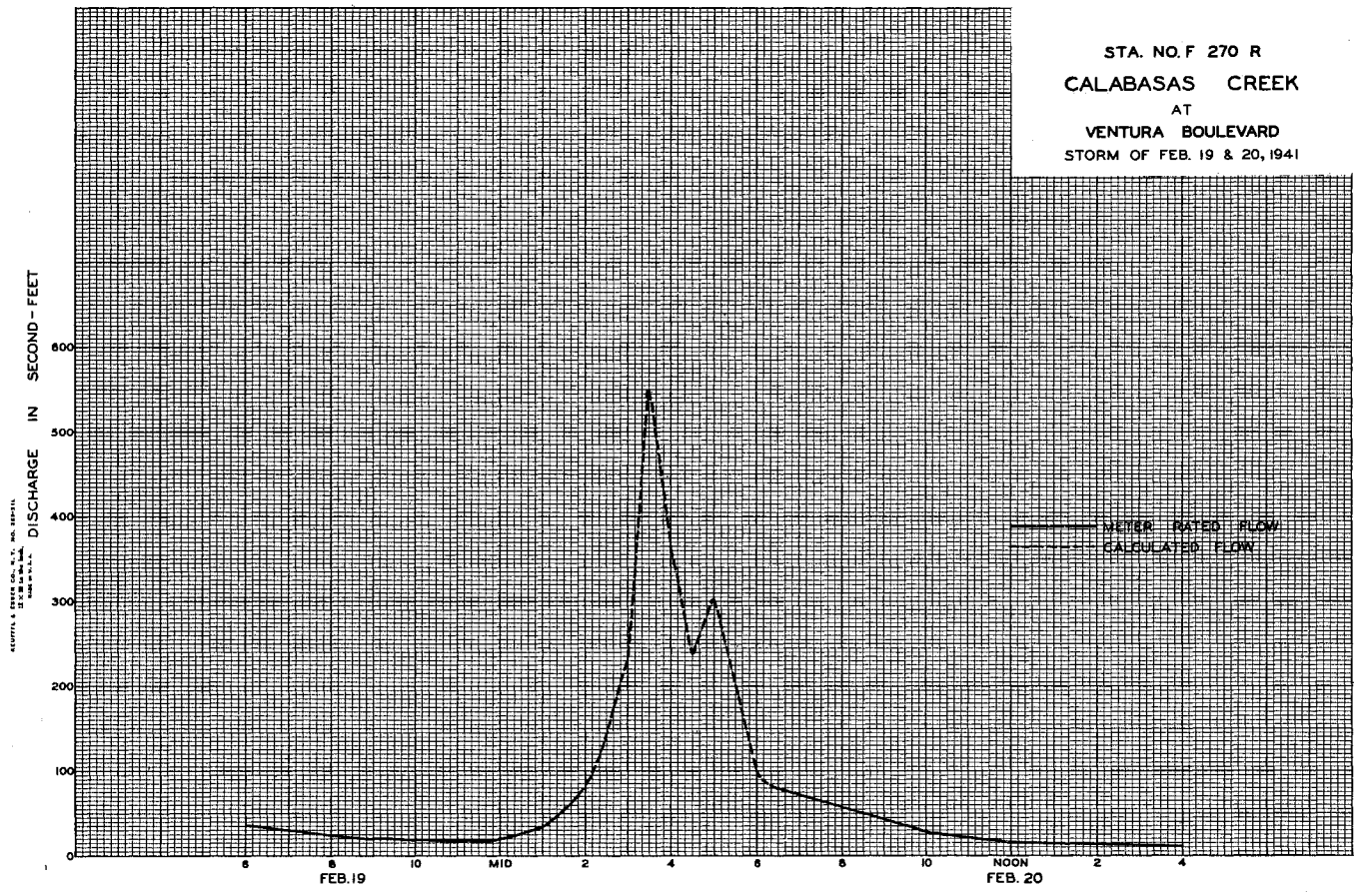
Sta. No. F270R

Daily discharge, in second-feet of CALABASAS CREEK at Ventura Boulevard, for the year ending September 30, 1941

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	15	6	0.6	0	0	0	0
2	0	0	0	0	0	6.5	1.9	0.4	0	0	0	0
3	0	0	0	0	0	20	1.8	0.4	0	0	0	0
4	0	0	0	0	0	42	5	0.4	0	0	0	0
5	0	0	0	0	0	5	2.9	0.4	0	0	0	0
6	0	0	0	0	5.5	3.7	1.5	0.3	0	0	0	0
7	0	0	0	+	0.2	2.8	1.0	0.2	0	0	0	0
8	0	0	0	0	0.2	2.5	0.8	0.2	0	0	0	0
9	0	0	0	0	0.2	2.2	0.7	0.1	0	0	0	0
10	0	0	0	0	0.1	1.8	4.0	0.2	0	0	0	0
11	0	0	0	0	1.3	1.5	4.7	0.2	0	0	0	0
12	0	0	0	0	0.6	8	1.9	0.2	0	0	0	0
13	0	0	0	0	0.2	6.5	1.2	0.2	0	0	0	0
14	0	0	0	0	12	3.2	1.1	0.2	0	0	0	0
15	0	0	0	0	21	2.0	0.9	0.1	0	0	0	0
16	0	0	2.7	0	4.3	1.2	0.8	+	0	0	0	0
17	0	0	3.3	0	29	1.1	0.8	+	0	0	0	0
18	0	0	5.5	0	2.3	1.0	0.7	+	0	0	0	0
19	0	0	0.1	0	12	0.9	0.6	+	0	0	0	0
20	0	0	0	0	6.5	0.7	0.5	+	0	0	0	0
21	0	0	0	0	3.7	0.6	0.4	+	0	0	0	0
22	0	0	0	+	3.1	0.6	0.4	+	0	0	0	0
23	0	0	3.9	0	4.4	0.6	0.3	+	0	0	0	0
24	0	0	2.6	10	15	0.5	0.3	+	0	0	0	0
25	0	0	0	1.5	3.3	0.4	0.3	0	0	0	0	0
26	0	0	0	0.6	2.3	0.4	0.3	0	0	0	0	0
27	0	0	0	0.1	1.3	0.4	0.3	0	0	0	0	0
28	0	0	0	+	43	3.5	0.3	+	0	0	0	0
29	0	0	+	0		11	0.3	+	0	0	0	0
30	0	0	0	0		1.0	1.3	+	0	0	0	0
31	0		0	0		17		+		0	0	
	0	0	18.1	12.2	302.9	163.6	43.0	4.1	0	0	0	0
MEAN	0	0	0.58	0.39	10.8	5.28	1.43	0.13	0	0	0	0
ACRE-FEET	0	0	36	24	601	324	85	8.1	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN 1.49 ACRE FEET 1080



STATION F37B-R

COMPTON CREEK near Greenleaf Street

LOCATION:

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

DRAINAGE AREA:

30.3 square miles.

CHANNEL AND CONTROL:

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

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed January 22, 1928 at Station F37R at Rosecrans Avenue. Removed June 9, 1938 due to new channel construction by the U.S. Engineer Department.
Installed October 3, 1938 over a 4.0 ft.x3.2 ft. concrete stilling well.
An H.C.F. recorder was in service from October 1, 1940 to September 30, 1941.

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, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 2660 second-feet, December 23.
Minimum 0.3 second-foot at various times.
1928-1941 (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 recorder clock failure or 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

AT OR NEAR Greenleaf Drive DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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 NEC. NO.	G. HT. CHANGE TOTAL	METER NO.
97	10-3	922A / 933A	Bonadiman	26.0	10.7	0.53	0.46	5.7		.6	7	0	FC 40
98	10-10	1125A / 1136A	"	32.0	8.20	0.46	0.42	3.8		.6	5	0	"
99	10-17	1110A / 1122A	"	31.0	8.38	0.51	0.44	4.3		.6	7	0	"
100	10-24	1007A / 1025A	"	32.0	8.44	0.45	0.47	3.8		.6	7	0	"
101	10-25	142P / 230P	U.S.E.D. #1	60.0	79.0	3.57	1.57	282.			10	-.10	35549
102	10-25	247P / 322P	" # 2	60.0	69.0	3.26	1.40	225.				-.20	"
103	10-26	821A / 835A	Bonadiman	59.0	20.9	0.61	0.50	12.8		.6	6	0	FC 40

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

AT OR NEAR Greenleaf Drive DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
104	10-28	1100A 1112A	Bonadiman	50.0	15.4	0.27	0.39	4.2		.6	7	0	FC 40
105	10-31	143P 155P	"	57.0	16.3	0.34	0.40	5.5		.6	8	0	"
106	11-7	948A 1000A	"	45.0	12.6	0.30	0.37	3.7		.6	6	0	"
107	11-14	302P 310P	"	60.0	13.9	0.25	0.39	3.4		.6	8	0	"
108	11-17	508P 520P	Bonadiman & Walton	60.0	31.9	1.27	0.84	40.5		.6	5	0	"
109	11-18	1110A 1124A	Bonadiman	56.5	16.8	0.33	0.52	5.6		.6	7	0	"
110	11-20	940A 950A	"	40.0	13.1	0.29	0.48	3.8		.6	6	0	"
111	11-28	1020A 1030A	"	57.0	14.1	0.23	0.47	3.2		.6	5	0	"
112	12-5	1015A 1025A	"	59.0	16.5	0.36	0.51	6.2		.6	6	0	"
113	12-12	1018A 1025A	"	58.0	17.3	0.41	0.54	7.0		.6	6	0	"
114	12-16	758A 847A	U.S.E.D. #3	60.0	61.5	1.97	1.10	121.				+.04	35549
115	12-16	1106A 1130A	" #4	60.0	62.0	2.24	1.24	139.				-.02	"
116	12-16	1040P 1136P	" #5	60.0	127.	5.00	2.20	636.				+1.84	"
117	12-17	115A 153A	" #6	60.0	112.	4.42	1.85	495.				-.28	"
118	12-17	345A 425A	" #7	60.0	68.5	2.41	1.28	165.				-.19	"
119	12-17	1020A 1042A	Bonadiman & Walton	60.0	86.6	3.22	1.57	279.		.6	7	-.05	FC 40
120	12-18	104P 112P	" "	59.0	15.9	0.26	0.52	4.1		.6	5	0	"
121	12-18	712P 752P	U. S. E. D. #8	60.0	150.	4.85	2.58	727.		.6		-.92	35549
122	12-19	151P 200P	Bonadiman & Walton	59.5	16.7	0.37	0.54	6.2		.6	.6	-.01	FC 40
123	12-23	840A 945A	U.S.E.D. #9	60.0	276.	8.43	4.66	2300.		.6	6	-.23 +.17	35549
124	12-23	950A 1022A	" #10	60.0	285.	8.70	4.78	2480.		.6	6	-.37	"
125	12-23	1205P 1238P	" #11	60.0	168.	5.69	2.83	957.		.6	6	-.83	"
126	12-23	214P 245P	" #12	60.0	86.6	2.84	1.45	244.		.6	15	-.16	"
127	12-26	120P 125P	Bonadiman	9.0	0.54	0.63	0.33	0.34		.6	2	-.01	FC 40
128	1-2	1051A 1056A	"	40.0	12.2	0.13	0.44	1.6		.6	5	0	"
129	1-16	1015A 1025A	"	58.5	14.6	0.36	0.51	5.2		.6	5	0	FC 40
130	1-23	1040A 1048A	"	59.0	16.7	0.32	0.51	5.3		.6	6	0	"
131	1-24	420A 437A	Bonadiman & Walton	60.0	216.	6.90	3.69	1490.		.6	8	+.32	"
132	1-30	929A 940A	Bonadiman	59.0	16.9	0.35	0.44	6.0		.6	5	0	"
133	2-6	1212P 1220P	"	59.4	37.3	1.45	0.93	54.4		.6	9	-.02	"
134	2-11	1120A 1221P	U.S.E.D. #13	60.0	102.	3.66	1.80	373.		.6		+.35	35549
135	2-11	540P 550P	Bonadiman & Walton	59.5	31.8	1.08	0.82	34.3		.6	8	-.02	FC 40
136	2-13	1021A 1030A	Bonadiman	56.0	17.4	0.32	0.50	5.6		.6	5	0	"
137	2-14	313P 336P	U.S.E.D. #14	60.0	160.	5.08	2.68	813.				12	+.43	35549
138	2-14	345P 414P	" #15	60.0	170.	5.34	2.98	907.				13	-.15	"
139	2-14	543P 606P	" #16	60.0	197.	6.60	3.38	1300.		.6	11	+.30	"
140	2-15	104P 215P	" #17	60.0	110.	3.94	1.94	423.		.6	13	-.35	"
141	2-17	215A 245A	" #18	60.0	140.	5.71	2.43	799.		.6		0	"
142	2-21	915A 950A	" #19	60.0	148.	4.88	2.43	722.		.6	13	+.72	"
143	2-21	955A 1020A	" #20	60.0	149.	4.87	2.49	726.		.6	13	-.39	"
144	2-21	555P 632P	" #21	60.0	188.	6.12	3.22	1150.		.6	13	+.45 -.13	"
145	2-21	640P 712P	U.S.E.D. #22	60.0	166.	5.55	2.71	922.		.6	13	-.32	35549
146	2-21	845P 911P	" #23	60.0	157.	5.41	2.76	851.			13	+.47	"
147	2-21	911P 942P	" #24	60.0	184.	6.13	3.08	1130.			13	+.05 -.05	"
148	2-24	920A 945A	" #25	60.0	167.	5.43	2.92	908.		.6	13	+1.05	"
149	2-24	950A 1020A	" #26	60.0	200.	6.45	3.36	1290.		.6	13	-.33	"
150	2-26	1116A 1126A	Bonadiman	59.0	20.6	0.37	0.48	7.7		.6	6	0	FC 40
151	2-28	330P 412P	U.S.E.D.# 27	60.0	222.	7.02	3.84	1560.		.6	13	-.27	35549
152	2-28	525P 555P	" #28	60.0	238.	7.55	4.13	1790.		.6	13	-.03	"
153	2-28	850P 935P	" #29	60.0	214.	7.47	3.59	1600.		.6	13	-.42	"
154	3-1	1232A 115A	" #30	60.0	87.8	3.34	1.57	293.		.6	13	-.12	"
155	3-1	827A 851A	" #31	60.0	118.	4.19	2.08	495.		.6	13	-.15	"
156	3-3	310P 320P	Bonadiman & Walton	59.0	21.8	0.40	0.50	8.7		.6	5	0	FC 40
157	3-4	425A 500A	U.S.E.D. #32	60.0	214.	7.00	3.65	1500.			13	+.28 -.05	35549
158	3-4	1225P 150P	" #33	60.0	91.2	3.52	1.60	305.		.6	13	-.32	"
159	3-27	436P 447P	Bonadiman	59.0	23.0	0.37	0.57	8.4		.6	6	0	FC 40
160	4-2	228P 240P	Bonadiman & Walton	59.0	24.2	0.63	0.61	15.2		.6	6	0	"
161	4-11	1130A 1140A	" "	60.0	78.0	2.77	1.53	216.		.6	8	-.05	"
162	4-17	250P 300P	Bonadiman	59.0	19.0	0.15	0.49	2.9		.6	5	0	"
163	4-24	332P 341P	"	39.5	14.5	0.42	0.49	6.1		.6	5	0	"
164	5-1	337P 355P	"	59.0	20.1	0.32	0.52	6.4		.6	5	0	"
165	5-8	305P 315P	"	59.0	21.1	0.47	0.57	10.1		.6	6	0	"
166	5-29	241P 252P	"	59.0	16.6	0.37	0.53	6.2		.6	5	0	"
167	6-5	320P 330P	"	59.0	19.7	0.38	0.57	7.4		.6	6	0	"
168	6-19	241P 302P	"	59.0	21.7	0.40	0.56	8.7		.6	5	0	"
169	6-26	250P 300P	Bonadiman	39.0	16.0	0.47	0.56	7.3		.6	5	-.01	FC 40
170	7-10	301P 310P	"	59.0	20.1	0.42	0.56	8.5		.6	5	0	"
171	7-17	301P 310P	"	22.0	10.5	0.54	0.55	5.7		.6	5	0	"
172	7-24	331P 346P	"	59.0	20.7	0.43	0.58	8.9		.6	4	0	"
173	7-31	340P 350P	"	57.0	19.8	0.34	0.56	6.7		.6	6	0	"
174	8-28	921A 935A	"	57.5	20.2	0.26	0.53	5.2		.6	7	0	"

F.C. Dist. Form 51 2-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

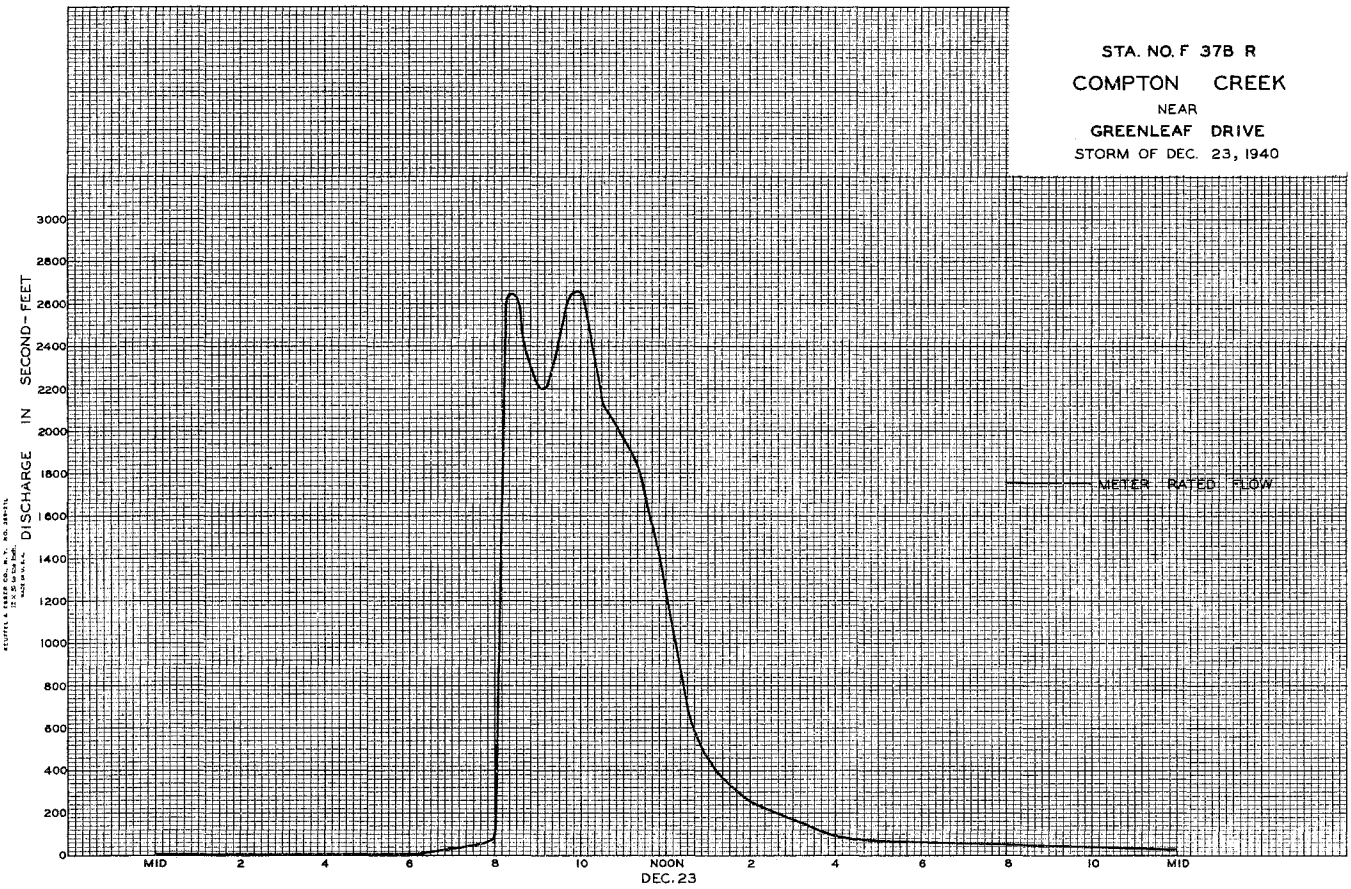
Sta. No F37B-R

Daily discharge, in second-feet of COMPTON CREEK near Greenleaf Drive, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.5	6	4.1	1.6	E 6	195	97	7.5	6.5	8	8	5.5
2	6	6	3.6	1.6	5.5	85	82	7.5	7.5	7.5	8	6
3	5.5	4.6	5	5	5.5	105	11	7.5	7.5	9	8	E 6
4	5	2.1	5.5	5.5	5	367	46	7.5	7.5	7.5	8	6
5	5	3.6	6	5	E 5	77	20	6.5	7.5	4.6	7.5	6
6	4.1	3.6	5.5	4.6	146	13	5.5	8	6.5	7.5	7.5	6.5
7	4.1	3.6	5.5	6.5	10	E 12	5	8	7.5	7.5	7.5	6.5
8	6.5	4.6	4.6	5	12	11	5.5	12	8	10	7.5	6.5
9	6	4.1	3.6	5	5.5	10	6	7.5	8	10	7.5	6.5
10	4.1	3.6	5.5	15	5.5	9	30	7.5	5.5	9	6.5	6.5
11	5	3.1	5.5	4.6	72	E 8	106	6.5	8	9	6.5	7
12	4.1	4.1	6	3.1	24	120	36	6.5	9	9	7.5	7
13	3.1	4.1	6.5	4.1	5	33	4.6	6.5	10	9	7.5	7
14	2.6	3.6	8	21	283	10	4.1	7.5	11	7.5	9	7
15	4.6	3.6	6	5.5	114	E 10	5	7.5	11	8	6.5	7
16	4.6	3.6	96	5	117	10	4.6	9	10	7.5	12	7
17	4.1	10	120	4.6	120	9.5	4.6	8	12	7.5	6.5	7.5
18	4.6	4.6	93	4.1	16	9.5	4.1	8	11	7.5	5.5	7.5
19	4.6	4.1	10	3.6	33	9.5	5	7.5	11	8	4.6	7.5
20	2.6	3.6	5	3.6	209	9.5	5.5	6.5	12	6.5	2.6	7.5
21	2.1	4.1	5	14	345	9	5.5	6.5	10	8	3.1	7.5
22	4.6	2.6	5.5	51	117	9	6.5	6.5	8	8	3.6	7.5
23	4.1	4.1	438	17	16	9	7.5	7.5	7.5	8	3.6	8
24	3.1	4.1	295	499	131	9	8	6.5	7.5	9	3.6	E 8
25	134	4.1	6	18	14	8.5	9	6.5	6	8	3.6	8
26	67	3.1	1.0	16	7.5	8.5	9	6.5	7.5	8	3.1	7.5
27	15	3.6	4.1	8	7.5	E 8.5	10	6.5	8	9	3.1	7.5
28	4.1	3.6	4.1	10	544	116	10	9	8	7.5	4.6	7.5
29	5.5	3.6	50	9		122	10	8	8	8	7.5	12
30	6	4.1	1.0	6		6	56	8	7.5	8	6.5	4.6
31	6		1.3	E 6		260		7.5		6.5	6	
	3432		1215.9		2381.0		619.0		255.0		1925	
		123.2		768.0		1678.5		232.0		248.1		212.1
MEAN	11.1	4.11	39.2	24.8	85.0	54.1	20.6	7.48	8.50	8.00	6.21	7.07
ACRE-FEET	681.	244.	2410.	1520.	4720.	3330.	1230.	460.	506.	492.	382.	421.

Remarks: E = estimated.

YEAR OR PERIOD MEAN 22.7
ACRE FEET 16400.



STATION F41C-R

COYOTE CREEK at Del Amo Street

LOCATION:

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

DRAINAGE AREA:

110 square miles.

CHANNEL AND CONTROL:

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

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed January 14, 1930 at Station F41R.
Moved to Station F41B-R on October 30, 1936.
Removed on February 17, 1937.
Installed February 18, 1937 at Station F41C-R over an 18 inch diameter, corrugated iron pipe stilling well.
An Au continuous recorder was in service from October 1, 1940 to September 30, 1941.

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, 1941.

EXTREMES OF DISCHARGE:
1940-1941
Maximum 2750 second-feet, February 28.
Minimum no flow at various times.
1929-1941 (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
Flows occasionally estimated or interpolated due to communication being obstructed by sand or to failure of recorder clock.

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. F41C-R

DISCHARGE MEASUREMENTS OF COYOTE CREEK

Del Amo Street DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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	10-3	118P / 132P	Bonadiman	Two Channels			1.23	0.95		.6	5	0	FC 40
175	10-10	201P / 210P	"	"	"		1.11	0.80		.6	5	0	"
176	10-17	302P / 310P	"	"	"		1.26	1.0		.6	6	0	"
177	10-24	147P / 152P	"	"	"		1.18	0.81		.6	4	0	"
178	10-31	916A / 930A	"	"	"		1.30	1.1		.6	5	0	"
179	11-7	200P	"	"	"		1.43	0.71		.6	6	0	"
180	11-14	1036A / 1049A	"	"	"		1.46	1.4		.6	6	0	"
181	11-20	205P / 212P	"	"	"		1.46	0.35		.6	6	0	"
182	12-5	230P	"	"	"		1.42	0.12		.6	2	0	"
183	12-17	742A	Bonadiman & Walton	45.0	63.1	0.12	2.10	7.4	Floats	5	0		"
184	12-19	1017A / 1027A	" "	44.0	62.2	0.11	2.08	6.8	"	5	0		"
185	12-23	250P / 300P	" "	59.0	273.	2.73	7.60	745.		.6	6	-.29	"
186	12-23	815P / 830P	" "	29.0	140.	1.86	5.29	260.		.6	4	-.06	"
187	12-24	1150A / 1205P	" "	52.0	241.	3.32	7.51	799.		.6	6	-.07	"
188	12-26	901A / 920A	Bonadiman	20.0	32.5	2.70	2.42	8.8		.6	4	-.01	"
189	1-2	252P / 300P	"	Two Channels			1.54	1.7		.6	4	0	"
190	1-9	323P / 335P	"	"	"		1.66	2.2		.6	6	0	"
191	1-16	156P / 210P	"	"	"		1.57	2.3		.6	6	0	"
192	1-23	211P / 220P	"	"	"		1.74	2.3		.6	5	-.01	"
193	1-24	1108A / 1122A	Bonadiman & Walton	75.0	398.	3.50	8.59	1480.		.6	7	-.13	"
194	1-25	1021A / 1035A	" "	26.0	46.5	0.43	3.08	20.0		.6	6	-.01	"
195	2-6	150P / 200P	" "	Three Channels			3.09	33.2	Floats	6	0		"
196	2-11	752P / 805P	" "	"	"		2.80	15.4		.6	6	-.01	"
197	2-12	238P / 245P	Bonadiman	"	"		2.38	5.6		.6	6	0	"
198	2-15	1215A / 1235A	Bonadiman & Walton	Three Channels			5.26	278.		.6	6	-.19	FC 40
199	2-15	1028A / 1040A	" "	"	"		3.59	84.8		.6	6	0	"
200	2-16	100AA / 1020A	" "	"	"		3.48	44.5		.6	6	-.01	"
201	2-17	953A / 1003A	" "	52.0	257.	2.63	6.77	675.		.6	6	-.06	"
202	2-18	1047A / 1055A	" "	38.0	79.0	0.42	3.13	33.1		.6	4	0	"
203	2-20	414A / 427A	" "	35.0	108.	0.64	3.64	69.3		.6	4	-.03	"
204	2-20	310P / 325P	" "	64.0	307.	2.97	7.31	913.		.6	7	+.02	"
205	2-20	450P / 525P	Jordan-Thomsen	65.0	313.	2.49	7.04	780.		.6	16	-.12	FC 21
206	2-21	215P / 227P	Bonadiman & Walton	44.0	200.	1.90	5.18	379.		.6	4	-.02	FC 40
207	2-22	213A / 240A	" "	75.0	524.	3.63	9.32	1900.		.6	7	-.17	"
208	2-22	846A / 856A	" "	65.0	390.	3.31	8.32	1290.		.6	6	-.11	"
209	2-23	1126A / 1146A	Bonadiman	38.0	106.	0.86	3.56	90.6		.6	4	0	"
210	2-24	258P / 310P	Bonadiman & Walton	58.0	266.	2.32	6.45	618.		.6	8	-.06	"
211	2-25	1022A / 1035A	Bonadiman	38.0	87.2	1.01	3.63	88.4		.6	5	0	FC 40
212	2-26	400P / 410P	"	Two Channels			2.89	25.3		.6	4	0	"
213	2-28	1020P / 1054P	Bonadiman & Walton	90.0	640.	4.06	10.90	2600.	Sur.		9	-.20	"
214	3-1	820A / 837A	" "	65.0	366.	3.52	7.86	1290.		.6	8	+.19	"
215	3-2	1230P / 1245P	" "	50.0	241.	2.43	6.07	586.		.6	8	-.01	"
216	3-3	1225P / 1242P	Bonadiman	34.0	52.0	1.92	3.96	100.		.6	4	-.01	"
217	3-4	553A / 612A	Bonadiman & Walton	74.0	451.	4.21	8.79	1900.		.6	10	+.06	"
218	3-4	204P / 220P	" "	64.0	328.	3.23	7.46	1060.		.6	8	-.05	"
219	3-5	1201P / 1212P	" "	37.0	151.	1.54	5.32	232.		.6	6	-.01	"
220	3-6	1020A / 1030A	" "	24.0	56.0	1.32	4.02	74.5		.6	3	0	"
221	3-10	1130A / 1140A	Bonadiman	Two Channels			3.40	14.0		.6	5	0	"
222	3-12	1117P / 1131P	Walton & Hall	66.0	351.	3.20	7.44	1120.		.6	9	-.05	FC 40
223	3-14	210P / 220P	Walton & Bonadiman	51.0	286.	2.74	7.10	784.		.6	7	-.07	"
224	3-15	1200N / 1220P	Bonadiman	36.0	186.	1.63	5.60	304.		.6	5	-.01	"
225	3-17	1100A / 1112A	"	Two Channels			3.86	36.8		.6	3	0	"
226	3-19	220P / 230P	"	13.0	11.2	1.55	3.81	16.9		.6	3	0	"
227	3-27	1149A / 1200N	"	14.0	8.90	1.07	3.64	9.5		.6	5	0	"
228	3-29	851A / 900A	Bonadman & Walton	40.0	93.0	1.92	4.53	179.		.6	6	-.02	"
229	3-30	1041A / 1054A	" "	Two Channels			3.88	26.6		.6	11	-.02	"
230	3-31	421P / 428P	" "	48.0	143.	2.33	5.67	333.		.6	8	-.02	"
231	4-1	915A / 927A	" "	55.0	218.	2.83	6.79	617.		.6	6	-.02	"
232	4-2	1050A / 1104A	" "	36.0	116.	1.65	5.05	191.		.6	4	-.04	"
233	4-3	1121A / 1134A	Bonadiman	Two Channels			4.08	60.1		.6	7	-.01	"
234	4-5	449A / 500A	Bonadiman & Walton	26.0	28.0	1.39	4.15	38.9		.6	4	0	"
235	4-11	700A / 717A	" "	Two Channels			4.30	79.7		.6	7	+.01	"
236	4-12	955A / 1005A	" "	31.0	28.0	1.21	4.17	34.1		.6	6	0	"
237	4-16	101P / 110P	Bondiman	32.0	13.5	0.85	3.76	11.4		.6	6	0	"
238	4-24	1140A / 1150A	"	21.0	7.80	0.73	3.62	5.7		.6	6	0	"
239	5-1	1141A / 1155A	"	33.0	18.4	1.22	3.93	21.8		.6	6	0	"
240	5-8	1102A / 1110A	"	12.0	4.15	0.93	3.51	3.9		.6	4	0	"
241	5-15	1156A / 1202P	"	14.0	5.26	0.74	3.51	3.9		.6	4	0	"
242	5-22	1201P / 1212P	"	14.0	5.22	0.65	3.43	3.4		.6	4	0	"
243	5-29	1101A / 1108A	"	15.0	4.08	0.73	3.43	3.0		.6	4	0	"
244	6-5	1130A / 1138A	"	7.5	3.10	0.81	3.38	2.5		.6	4	0	"
245	6-12	1235P / 1245P	"	11.0	3.25	0.56	3.34	1.8		.6	4	0	"
246	6-19	1052A / 1056A	Bonadiman	8.0	2.79	0.97	3.44	2.7		.6	4	0	FC 40
247	6-26	1021A / 1030A	"	12.0	3.59	0.69	3.42	2.5		.6	6	0	"
248	7-3	1057A / 1105A	"	13.0	4.00	0.70	3.46	2.8		.6	5	0	"
249	7-10	1040A / 1043A	"	4.0	0.40	0.50	3.22	0.20		.6	2	0	"
250	7-17	1045A / 1047A	"	2.0	0.40	0.60	3.26	0.24		.6	2	0	"
251	7-24	1041A / 1045A	"	7.0	0.96	0.34	3.27	0.33		.6	3	0	"
252	7-31	1125A / 1136A	"	12.0	3.02	0.33	3.37	1.0		.6	4	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

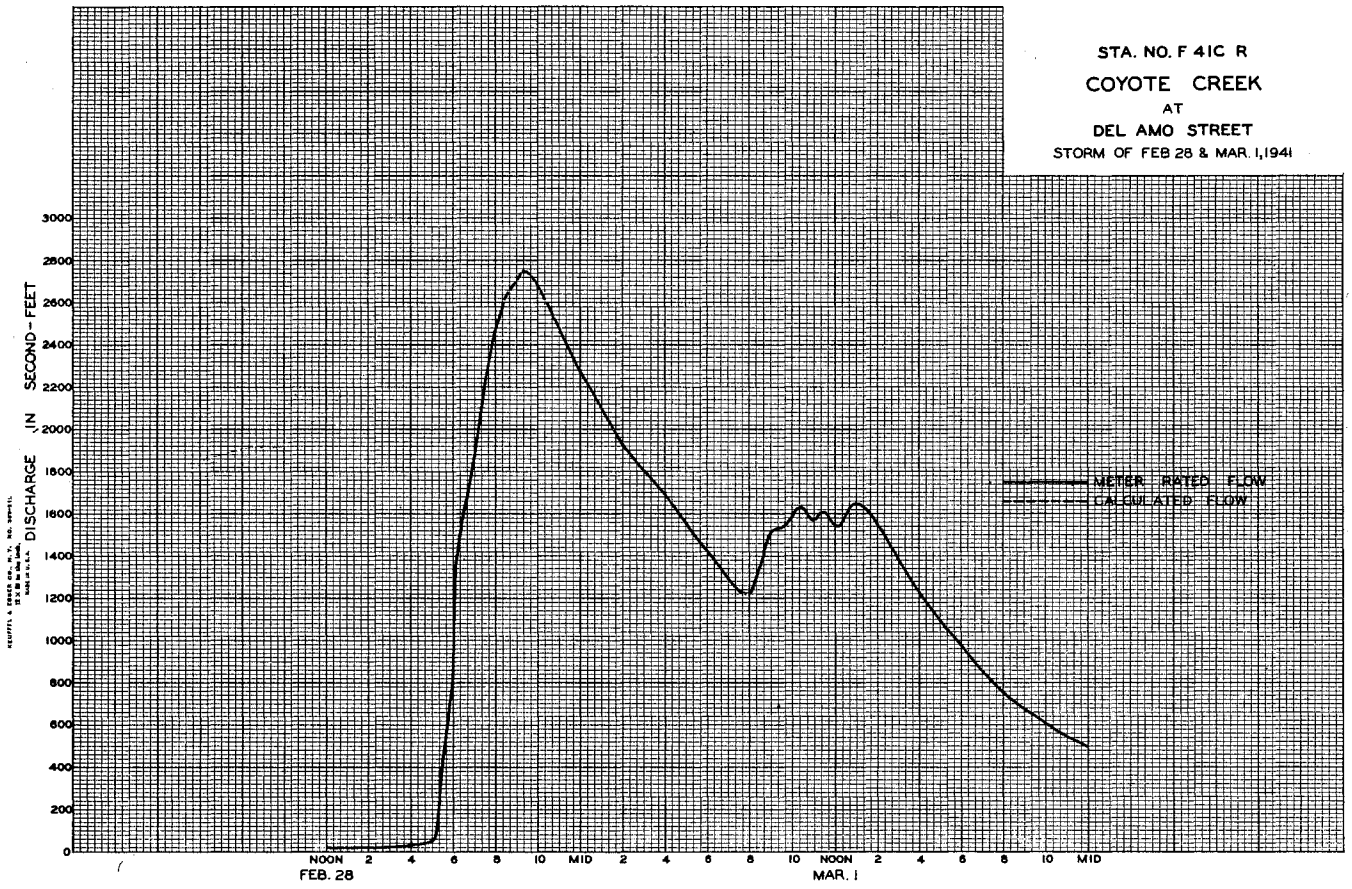
Sta. No F41C-R

Daily discharge, in second-feet of COYOTE CREEK at Del Amo Street, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.8	0.8	0.4	1 2.7	2.7	1350	472	19	1.8	2.0	1.5	E 2.0
2	0.9	0.7	0.4	1.7	2.9	504	183	9.5	2.3	2.0	1.3	2.0
3	0.9	0.9	0.2	2.1	2.8	212 E	67	7.5	2.7	2.0	1.5	2.0
4	1.2	0.9	0.2	1.8	2.8	1440	26	6.5	1.6	1.9	1.4	2.0
5	1.3	0.6	0.1	1.5	2.9	320 E	36	5	2.0	1.6	1.8	2.0
6	1.2	0.8	0.2	1.6	15	91 E	18	4.4	2.0	0.7	1.6	2.0
7	0.5	0.7	0.2	1.6	6.5	51	12	3.9	2.0	0.7	1.8	2.0
8	0	0.5	0.2	1 1.9	3.3	391	10	3.5	1.6	0.6	0.8	2.0
9	0.4	0.8	0.3	E 2.2	2.7	261	9.5	3.5	1.4	0.4	1.9	2.0
10	0.7	0.9	0.2	1 2.2	2.1	14 E	9	3.5	1.6	0.3	1.8	2.0
11	0.6	1.0	0.3	2.2	5	16	62	3.4	1.9	0.6	2.0	2.0
12	0.3	0.9	0.3	2.2	6.5	212	30	3.4	1.6	1.3	2.3	2.0
13	0	1.3	0.3	2.3	1.9	1130	16	3.4	1.2	1.5	2.7	2.0
14	0.1	1.4	0.3	2.3	123	1410	12	3.4	1.4	1.3	3.0	2.0
15	0.6	1.1	0.3	1 2.3	150	493 E	11	3.4	1.4	1.2	3.7	2.0
16	0.8	0.9	0.4	2.3	50	92 E	11	3.4	1.3	1.0	2.8	2.0
17	1.0	0.7	20	1.8	228	37 E	9.5	3.5	1.3	0.1	4.4	2.0
18	1.0	1.0	11	1.5	33	271	8	3.4	1.6	0.1	3.9	2.0
19	0.5	0.9	8	1.4	62	17 E	7	3.2	2.3	0.4	2.5	2.0
20	0.3	0.5	4.7	1.1	509	15	7	3.4	2.5	0.2	E 2.0	2.0
21	0.4	0.4	2.0	1.2	551	14	6.5	3.7	2.2	0.4	2.0	2.0
22	0.2	0.6	1.4	5	1040	13	6	3.5	2.0	0.5	2.0	2.0
23	0.5	0.2	465	2.4	E 96	12	5.5	3.4	1.9	0.3	2.0	2.0
24	0.8	0.3	443	506 E	259	11	5.5	3.4	2.0	0.4	2.0	2.0
25	1.2	0.5	22	20	98	10	5.5	3.2	2.0	0.6	2.0	2.0
26	2.8	0.3	E 9	5.5	31	10	5.5	3.4	1.8	0.4	2.0	2.0
27	1.7	0.3	1 7.5	2.7	22	9.5	6	2.8	1.6	0.7	2.0	2.0
28	1.3	0.2	6.5	2.1	602	10	6.5	2.8	1.9	0.7	2.0	2.0
29	1.1	0.1	5.5	2.3		104	6.5	2.3	2.3	1.2	2.0	2.0
30	1.1	0.3	4.7	2.4		30	12	2.3	2.0	1.3	2.0	E 2.0
31	1.0		1 3.7	2.6		159		1.3		1.4	E 2.0	
	25.1	20.5	1018.3	590.9	3911.1	7878.5	1080.5	132.3	55.2	27.8	E 66.7	E 60.0
Mean	0.81	0.68	32.8	19.1	140.	254.	36.0	4.27	1.84	0.90	2.15	2.00
Acre-Feet	50.	41.	2020.	1170.	7760.	15630.	2150.	262.	109.	55.	132.	119.

Remarks: E = estimated. i = interpolated.

YEAR OR PERIOD Mean 40.7 Acre Feet 29500.



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, 1940 to September 30, 1941.

REGULATION:

Regulated by Laguna Dominguez area, subject to ponding.

OPERATION:

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

DIVERSIONS:

None.

RECORDS AVAILABLE:

November 23, 1938 to September 30, 1941
For previous records, see earlier reports on station F46R, Nigger Slough at Wilmington Ave.

EXTREMES OF DISCHARGE:

1940-1941
Maximum flow which is confined to channel 250+ second-feet at various times.
Minimum 0.3 second-feet at various times.

ACCURACY:

Fair. Station is flooded at high flows.

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 41

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.
1	1-2	1117A / 1135A	Bonadiman	Two Channels			3.07	77.4		.6	10	0	FC 40
2	1-9	1135A / 1147A	"	"	"		1.84	28.5		.6	10	0	"
3	1-16	1050A / 1105A	"	"	"		1.17	19.3		.6	10	0	"
4	1-25	126P / 135P	Bonadiman & Walton	"	"		4.16	72.2		.6	9	0	"
5	1-30	1010A / 1022A	Bonadiman	"	"		3.93	88.6		.6	10	0	"
6	2-7	1216P / 1230P	"	"	"		3.34	78.2		.6	10	0	"
7	2-12	1137A / 1150A	"	"	"		3.04	66.2		.6	10	0	"
8	2-13	1130A / 1145A	"	"	"		2.94	65.3		.6	10	0	"
9	2-15	1256P / 110P	Bonadiman & Walton	"	"		3.68	88.7		.6	10	0	"
10	2-17	1135A / 1145A	Walton & Bonadiman	"	"		5.00	105.		.6	10	0	"
11	2-18	335P / 348P	Bonadiman & Walton	"	"		5.65	120.		.6	10	0	"
12	2-20	1031A / 1050A	" "	"	"		5.68	128.		.6	10	0	"
13	2-22	1224P / 1237P	Walton & Bonadiman	"	"		7.13	140.		.6	10	0	"
14	2-23	150P / 204P	Bonadiman & Walton	"	"		7.68	212.		.6	10	0	"
15	2-26	1140A / 1200N	Bonadiman	"	"		7.76	247.		.6	10	0	"
16	2-27	1140A / 1200N	"	"	"		7.54	226.		.6	10	0	"
17	3-19	1035A / 1100A	"	"	"		7.56	158.		.6	10	0	"
18	3-27	300P / 310P	"	"	"		5.76	134.		.6	10	0	"
19	3-29	1101A / 1115A	Walton	Two Channels			5.62	112.		.6	10	0	FC 40
20	4-1	1130A / 1145A	Bonadiman & Walton	"	"		6.21	88.4		.6	10	+.01	"
21	4-2	140P / 155P	" "	"	"		6.70	131.		.6	10	+.01	"
22	4-3	235P / 250P	Bonadiman	"	"		6.67	171.		.6	10	0	"
23	4-10	310P / 327P	"	"	"		5.58	154.		.6	10	0	"
24	4-12	1215P / 1223P	Bonadiman & Walton	"	"		5.80	89.0		.6	10	0	"
25	4-17	212P / 222P	Bonadiman	Two Channels			5.09	104.		.6	10	0	FC 40
26	5-1	301P / 315P	"	"	"		3.10	81.2		.6	10	0	"
27	5-15	301P / 316P	"	"	"		1.28	19.9		.6	10	0	"
28	5-29	145P / 200P	"	"	"		0.72	8.4		.6	10	0	FC 41
	6-3	Gage height datum lowered 8.15 ft. to read from mean sea level.											
29	6-12	336P / 346P	"	6.3	2.41	1.20	8.74	2.9		.6	6	0	FC 40
30	6-26	147P / 156P	"	10.0	4.05	0.72	8.75	2.9		.6	5	0	"
31	7-3	227P	"	10.0	3.56	0.79	8.73	2.8		.6	4	0	"
32	7-10	152P / 200P	"	10.0	3.75	0.80	8.73	3.0		.6	5	0	"
33	7-17	210P / 227P	"	10.0	4.95	0.85	8.74	4.2		.6	5	0	"
34	7-31	251P / 300P	"	9.0	2.80	0.50	8.63	1.4		.6	4	0	"
35	8-7	1043A / 1050A	"	10.0	4.35	0.92	8.71	4.0		.6	4	0	"
36	8-14	1026A / 1033A	"	10.0	3.55	0.93	8.73	3.3		.6	4	0	"
37	8-21	1054A / 1042A	"	Two Channels			8.38	2.4		.6	5	0	"
38	9-10	1050A / 1055A	Moon	3.5	1.63	0.98	8.30	1.6		.6	4	0	FC 22
39	9-17	1155A / 1159A	"	Two Channels			8.34	1.9		.6	5	0	"

F.C. Dist. Form 21 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F265R

Daily discharge, in second-feet of DOMINGUEZ CHANNEL at Carson Boulevard, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	21	22	30	81	82	E 250	96	80	7	28	1 19	1 25
2	21	22	30	76	79	250	129	77	7	27	22	28
3	22	21	30	69	76	250	165	71	6	28	26	26
4	21	21	30	62	74	250	173	65	6	24	30	24
5	20	20	32	54	70	250	174	60	5.5	24	32	22
6	20	20	33	48	75	250	E 170	54	4.9	24	1 36	21
7	21	20	33	40	78	250	166	49	4.7	28	E 40	20
8	22	E 20	33	35	75	250	162	44	4.2	32	41	18
9	22	21	33	28	71	250	158	39	3.8	30	41	1 17
10	20	22	34	26	67	250	E 154	35	3.7	32	38	E 16
11	21	23	32	25	65	240	121	32	3.3	32	38	1 16
12	22	24	30	23	66	230	93	29	2.9	30	37	17
13	21	25	30	21	65	220	93	26	2.7	30	34	17
14	21	26	30	21	64	210	96	23	2.8	34	33	18
15	22	27	30	21	88	E 200	99	20	2.7	37	35	18
16	22	28	41	19	91	190	102	19	2.7	37	34	1 19
17	22	28	54	17	106	180	104	17	2.7	37	34	E 19
18	22	29	33	14	122	168	102	16	2.7	37	32	19
19	22	E 30	40	13	122	158	100	15	2.7	40	30	19
20	22	30	6	11	130	156	100	14	2.3	40	32	19
21	22	30	6	10	142	149	95	12	2.6	38	27	19
22	22	30	6	10	183	146	93	11	2.2	34	27	19
23	22	30	23	10	210	144	91	11	2.4	30	29	E 19
24	22	30	87	40	225	142	89	10	2.6	32	29	E 03
25	31	30	103	71	243	136	87	10	3.3	37	32	1 03
26	35	30	99	81	245	137	85	9.5	2.7	32	32	03
27	26	30	97	85	228	134	83	9.5	2.6	26	33	03
28	22	30	93	86	223	121	82	8.5	2.3	22	1 32	03
29	24	30	91	88		112	80	8.5	2.6	22	31	04
30	22	30	89	89		108	80	8	2.7	21	30	1 04
31	22		85	85		101		7.5		E 14	1 30	
	697	779	8488	1359	3365	5882	3422	8905	1063	939	996	482
MEAN	2.25	2.60	27.4	43.8	120.	190.	114.	28.7	3.54	3.03	3.21	1.61
ACRE-FEET	138.	155.	1680.	2700.	6670.	11670.	6790.	1770.	211.	186.	198.	96.

Remarks: E = estimated. 1 = interpolated.

YEAR OR PERIOD MEAN 44.6
ACRE-FEET 32260.

STATION F53R

DUME CREEK at Roosevelt Highway

LOCATION:

On the downstream side of Roosevelt Highway bridge, near Dume Point about 1/4 mile from Pacific Ocean, 22 miles west of Santa Monica.

DRAINAGE AREA:

8.8 square miles.

CHANNEL AND CONTROL:

Channel-sand and gravel.
No artificial control.

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed January 15, 1930. Removed November 26, 1937 due to contruction 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, 1940 to September 30, 1941.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

January 15, 1930 to November 26, 1937.
November 3, 1938 to September 30, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 876 second-feet January 24.
Minimum no flow for several months.
1930-1941
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.

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. F53R

DISCHARGE MEASUREMENTS OF DUME CREEK

AT Roosevelt Highway DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
49	12-23	1105A / 1120A	Moon-Mellen	23.0	26.2	5.10	4.48	134.		.6	5	-.07	FC 22
50	12-23	1125A / 1131A	" "	23.0	24.0	5.00	4.43	120.		.6	5	-.04	"
51	12-23	1146A / 1155A	" "	32.0	23.5	4.32	4.33	101.		.6	9	-.05	"
52	12-23	1212P / 1220P	" "	30.5	19.4	4.10	4.28	79.5		.6	8	-.02	"
53	12-23	1222P / 1230P	" "	30.5	20.0	4.04	4.26	80.7		.6	8	0	"
54	12-24	1045A / 1055A	" "	28.5	24.6	2.85	4.39	70.2		.6	7	-.02	"
55	12-24	1109A / 1117A	" "	32.0	19.6	4.28	4.33	84.1		.6	9	-.02	"
56	12-26	439P / 441P	Moon	1.4	0.08	0.38	3.28	0.03	Float	2	0		"
57	1-22	1008A / 1020A	Moon-Mellen	9.0	1.54	1.12	3.52	1.7		.6	6	-.01	"
58	1-24	240A / 257A	" "	54.0	109.	5.75	5.45	594.		.6	5	+.22 -.07	FC 22
59	1-24	336A / 355A	" "	66.0	109.	6.11	5.97	664.		.6	4	+.35	"
60	1-24	543A / 600A	" "	79.0	84.1	5.20	5.91	438.		.6	5	-.32	"
61	1-24	635A / 650A	" "	66.0	63.4	6.11	5.52	387.		.6	6	-.05	"
62	1-25	223P / 232P	Moon-Eckert	12.0	5.37	1.74	4.50	9.4		.6	7	0	"
63	1-30	211P / 213P	Moon	1.2	0.07	0.57	4.10	0.04		.6	2	0	"
64	2-6	957A / 1007A	Moon-Mellen	13.1	6.00	2.00	4.57	12.1		.6	7	-.01	"
65	2-6	1010A / 1017A	" "	13.1	5.66	1.84	4.56	10.4		.6	7	-.02	"
66	2-11	317P / 325P	" "	18.0	9.33	2.57	4.74	24.1		.6	7	-.02	"
67	2-12	310P / 318P	Moon-Eckert	13.0	3.69	1.35	4.47	5.0		.6	7	0	"
68	2-13	252P / 258P	Moon	5.0	1.60	0.94	4.29	1.5		.6	5	-.01	FC 22
69	2-14	755P / 811P	Moon-Mellen	Two Channels			4.90	61.9		.6	11	-.02	"
70	2-15	412P / 422P	Moon-Eckert	" "			4.91	89.7		.6	12	-.02	"
71	2-16	250P / 257P	" "	17.8	9.53	2.83	4.70	26.8		.6	8	0	"
72	2-17	1209P / 1217P	Moon-Mellen	17.5	8.22	3.16	4.72	25.8		.6	9	-.01	"
73	2-19	335P / 340P	Hall-Moon	18.5	6.10	2.30	4.60	13.6		.6	5	+.01	"
74	2-20	1228A / 1245A	Moon-Hall	Two Channels			4.90	41.4		.6	12	-.03	"
75	2-20	150A / 205A	" "	"	"		5.00	89.6		.6	10	-.05	"
76	2-20	543P / 555P	Mellen-Eckert	"	"		4.99	66.0		.6	10	-.03	"
77	2-21	1240P / 1249P	Moon-Hall	41.0	25.6	3.95	5.19	101.		.6	9	-.02	FC 22
78	2-21	941P / 954P	" "	49.5	39.6	4.49	5.44	178.		.6	11	0	"
79	2-24	317P / 327P	" "	32.0	15.4	3.25	5.25	50.4		.6	8	0	"
80	2-25	444P / 456P	Moon	23.5	12.8	2.66	4.99	34.0		.6	9	0	"
81	2-27	247P / 256P	"	16.2	8.25	2.67	4.85	22.4		.6	7	0	"
82	2-28	546P / 600P	Moon-Mellen	67.0	53.5	5.03	5.61	269.		.6	9	-.02	"
83	3-1	1143A / 1155A	" "	55.0	44.7	4.21	5.64	188.		.6	10	-.02	"
84	3-2	945A / 955A	" "	32.0	21.0	3.76	5.40	79.1		.6	11	0	"
85	3-4	139A / 155A	" "	60.5	37.2	3.43	5.30	128.		.6	13	0	"
86	3-4	105P / 118P	Moon-Hall	46.0	42.5	3.06	5.27	130.		.6	11	0	"
87	3-5	336P / 348P	Moon	Two Channels			5.25	85.8		.6	9	0	"
88	3-6	314P / 326P	Moon	19.6	16.4	3.00	5.15	49.2		.6	7	0	"
89	3-11	417P / 430P	"	16.3	8.28	2.06	4.82	17.0		.6	7	0	"
90	3-12	118P / 127P	Moon-Eckert	19.5	15.4	3.45	5.15	53.3		.6	7	0	"
91	3-12	307P / 323P	" "	Two Channels			5.14	112.		.6	13	-.01	"
92	3-13	202P / 213P	" "	19.5	17.1	3.10	4.95	52.7		.6	8	0	"
93	3-20	257P / 308P	Moon	17.5	9.03	1.66	4.69	14.7		.6	7	0	"
94	3-27	228P / 235P	"	12.0	5.22	1.11	4.52	5.8		.6	6	0	"
95	3-29	100A / 109A	Moon-Eckert	16.0	11.2	2.32	4.88	26.4		.6	7	0	"
96	3-29	220P / 228P	" "	18.0	10.8	2.04	4.85	22.2		.6	8	0	"
97	3-31	225P / 240P	Moon-Andren	Two Channels			5.05	84.9		.6	13	0	FC 22
98	3-31	1145P / 1158P	Moon-Mellen	52.0	46.2	4.04	5.24	187.		.6	12	0	"
99	4-1	135P / 144P	" "	Two Channels			5.15	71.8		.6	9	0	"
100	4-3	256P / 308P	Moon	25.0	12.6	2.22	4.96	28.2		.6	9	0	"
101	4-4	812P / 837P	Moon-Eckert	69.0	85.1	7.04	5.97	599.		.6	10	+.03 -.11	"
102	4-5	136P / 149P	" "	Two Channels			5.42	61.0		.6	13	-.01	"
103	4-10	115P / 125P	Moon	11.5	9.33	2.25	5.08	20.7		.6	7	0	"
104	4-11	1212A / 1230A	Moon-Eckert	Two Channels			5.59	119.		.6	12	-.02	"
105	4-11	1122A / 1130A	" "	28.0	15.1	2.72	5.18	40.7		.6	7	0	"
106	4-17	242P / 254P	Moon	11.5	9.05	1.33	4.98	12.4		.6	8	0	"
107	4-24	204P / 212P	"	9.4	6.23	1.13	4.87	7.1		.6	7	0	"
108	4-30	1239P / 1247P	Moon-Mellen	16.5	15.3	3.14	5.32	47.5		.6	9	0	"
109	5-1	200P / 207P	Moon	10.8	7.02	1.31	4.90	9.2		.6	5	0	"
110	5-8	328P / 337P	"	9.0	4.61	0.67	4.75	3.1		.6	6	0	"
111	5-15	134P / 142P	"	7.5	2.61	1.12	4.74	2.9		.6	7	0	"
112	5-22	153P / 200P	"	7.0	2.40	1.08	4.72	2.6		.6	6	0	"
113	5-29	114P / 120P	"	7.0	2.38	1.01	4.71	2.4		.6	6	0	"
114	6-5	210P / 218P	"	7.0	2.03	0.89	4.71	1.8		.6	6	0	"
115	6-12	315P / 323P	"	7.0	1.97	0.86	4.72	1.7		.6	6	0	"
116	6-19	305P / 310P	"	6.6	1.79	0.84	4.73	1.5		.6	6	0	"
117	6-26	325P / 332P	"	7.0	2.05	0.68	4.76	1.4		.6	6	0	"
118	7-3	248P / 255P	"	6.5	1.69	0.71	4.78	1.2		.6	6	0	"
119	7-10	315P / 322P	"	6.5	1.69	0.59	4.77	1.0		.6	6	0	"
120	7-17	326P / 333P	"	7.0	1.68	0.60	4.74	1.0		.6	7	0	"
121	7-24	358P / 406P	Moon	7.5	2.09	0.62	4.76	1.3		.6	7	0	FC 22
122	7-31	343P / 350P	"	7.0	1.72	0.51	4.74	0.87		.6	7	0	"
123	8-27	322P / 326P	Bonadiman	7.0	1.40	0.60	4.78	0.84		.6	2	0	FC 40
124	9-25	205P / 210P	Moon	4.0	0.42	0.86	4.68	0.36		.6	5	0	FC 42

F.C. Dist. Form 51 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

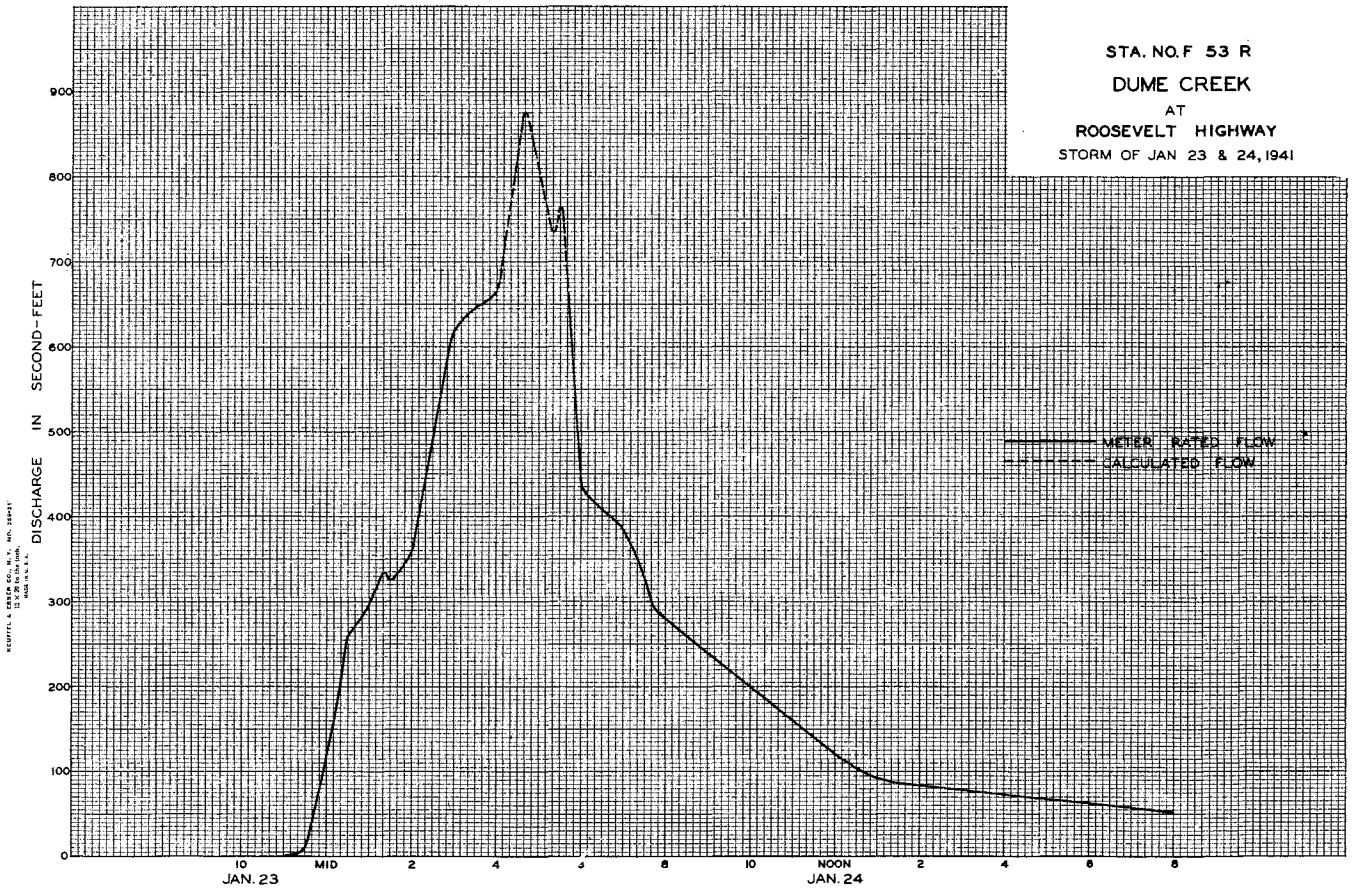
Sta. No. F53R

Daily discharge, in second-feet of DUME CREEK at Roosevelt Highway, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	0	0	0	+	159	101	10	2.1	1.3	1 0.9	1 0.7
2	+	0	0	0	+	74	51	7.5	2.1	1.1	1 0.9	1 0.7
3	+	0	0	0	+	52	31	6.5	1.8	1.1	0.9	0.7
4	+	0	0	0	+	126	90	5.5	1.8	1.1	0.9	0.7
5	+	0	0	0	+	89	95	4.5	1.8	1.1	0.9	0.7
6	+	0	0	+	7	53	36	3.5	1.8	1.1	0.9	0.6
7	+	0	0	+	+	46	28	3.0	1.8	1.1	0.9	0.6
8	+	0	0	0	0	25	22	3.0	1.8	1.1	0.9	0.6
9	+	0	0	0	0	22	21	3.0	1.6	1.0	0.9	0.6
10	+	0	0	0	0	18	26	3.0	1.8	1 1.0	0.9	0.6
11	+	0	0	0	13	17	49	3.0	1.8	1.0	0.9	0.6
12	+	0	0	0	8	50	31	3.0	1.8	1.0	0.9	0.6
13	+	0	0	0	E 2.3	63	24	2.8	1.8	1.0	0.9	0.6
14	+	0	0	0	21	42	20	2.8	1.6	1.0	0.8	0.6
15	0	0	0	0	80	31	18	2.8	1.8	1.0	0.8	0.5
16	0	0	0	0	35	25	16	2.8	1.8	1.0	0.8	0.5
17	0	0	0.8	0	31	21	14	2.8	1.6	1 1.0	0.8	0.5
18	0	0	12	0	16	19	12	2.5	1.6	E 1.0	0.8	0.5
19	0	0	0.2	0	20	17	11	2.5	1.6	1.1	0.8	0.5
20	0	0	0	0	115	15	9.5	2.5	1.6	1.1	0.8	0.5
21	0	0	0	0	97	13	8.5	2.5	1.6	1.1	0.8	0.5
22	0	0	0	6.5	143	11	8.5	2.5	1.6	1.3	0.8	0.5
23	0	0	4.6	1.4	60	9.5	8.5	2.5	1.6	1.3	0.8	0.5
24	0	0	4.1	230	47	8.5	8	2.5	1.3	E 1.3	0.8	1 0.4
25	+	0	0.5	E 17	29	8	7.5	2.3	1.3	1 1.2	0.8	E 0.4
26	0	0	+	3.2	29	7.5	7	2.3	1.3	1.2	1 0.8	1 0.4
27	0	0	+	0.2	23	6.5	8.5	2.3	1.3	1.1	E 0.8	0.4
28	0	0	+	0.1	109	18	8	2.3	1.3	1.1	1 0.7	0.4
29	0	0	0	+		28	6.5	2.3	1.1	1.0	0.7	0.4
30	0	0	0	+		10	20	2.3	1.3	1 1.0	1 0.7	1 0.4
31	0		0	+		74		2.1		E 0.9	1 0.7	
	+		100.5		885.3		796.5		49.1		25.7	
	0		258.4		1158.0		102.9		33.7		16.2	
MEAN	+	0	3.24	8.34	31.6	37.4	26.6	3.32	1.64	1.09	0.83	0.54
ACRE-FEET	+	0	199.	513.	1760.	2300.	1580.	204.	97.	67.	51.	32.

Remarks: E = estimated. 1 = interpolated.

YEAR OR PERIOD — MEAN 9.39 — ACRE-FEET 6800.



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 foot x 4 foot concrete stilling well.
A Stevens type L recorder was in service from October 10, 1940 to March 21, 1941. An H.C.F. recorder was in service from March 21, 1941 to September 30, 1941.

REGULATION:

Flow regulated by Eaton Wash Debris Dam.

DIVERSIONS:

The Pasadena Water Department diverts some 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, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 256 second-feet February 20 and 21.
Minimum no flow most of year.

ACCURACY:

Fair - sequence of gates operated affects gage height discharge relation.
Flows occasionally estimated by comparison with Dam operation records during periods of dubious gage height discharge relation.

OPERATION:

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F271R

DISCHARGE MEASUREMENTS OF EATON WASH

[redacted] below Eaton Wash Debris Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 41

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAN SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1	12-17	1228P 1237P	Lindsay-Keim	Two Channels			0.20	7.2		.6	10	0	FC 28
2	2-17	825P 850P	" "	11.4	13.6	1.75	0.30	23.8		.6	11	0	"
3	2-18	1103A 1120A	Lindsay	21.7	15.2	1.99	0.31	30.3		.6	12	0	"
4	2-18	235P 250P	Fuller & Waddicor	25.7	8.32	4.89	0.32	40.7		.6	12	0	Glass Pitot Tube
5	2-18	235P 251P	Haig	25.7	8.61	4.96	0.32	42.7		.6	8	0	FC 33
6	2-18	304P 314P	Haig-Waddicor	17.0	16.2	2.47	0.32	40.0		.6	7	0	"
7	2-20	147A 200A	Lindsay-Keim	26.5	10.7	9.10	0.54	97.3		.6	9	---	FC 28
8	2-20	1004P 1020P	Keim-Lindsay	25.7	17.0	15.0	0.63	256.		.6	9	-.01	Pitot
9	2-21	820P 830P	" "	25.7	10.9	9.63	0.40	105.		.6	10	---	"
10	2-21	1048P 1110P	" "	25.7	12.8	11.2	0.47	143.		.6	10	---	"
11	2-23	1105A 1120A	Lindsay	29.5	44.5	1.64	0.37	73.1		.6	10	0	FC 28
12	2-26	240P 252P	Lindsay & Waddicor	26.3	20.1	1.14	0.27	22.7		.6	11	0	"
13	3-1	1025A 1035A	Lindsay-Keim	29.0	37.2	1.69	0.41	62.8		.6	11	0	"
14	3-3	442P 457P	Lindsay	30.5	45.6	1.73	0.39	78.5		.6	11	0	"
15	3-5	1217A 1232A	Lindsay-Keim	36.5	60.1	1.84	0.46	111.		.6	13	0	"
16	3-5	418P 432P	" "	41.0	69.6	1.96	0.50	136.		.6	14	0	"
17	3-7	830A 842A	Haig	39.0	51.5	1.66	0.44	84.9		.6	11	0	FC 33
18	3-8	414P 424P	Lindsay-Ingram	29.5	32.6	1.52	0.38	45.4		.6	11	0	FC 28
19	3-12 3-13	1155P 1210A	Ingram-Keim	25.0	29.0	3.10	0.64	89.9		.6	7	0	"
20	3-15	955A 1011A	Lindsay-Ingram	25.5	8.49	6.28	0.38	53.4		.6	10	0	"
21	3-16	412P 422P	" "	17.0	18.2	1.36	0.26	24.8		.6	8	0	"
22	3-29	1105A 1133A	Haig	25.7	12.1	7.93	0.60	96.1		.6	8	0	Pitot
23	3-30	130P 138P	"	25.7	12.0	6.73	0.48	80.8		.6	9	0	FC 33
24	4-3	918A 923A	"	11.3	8.59	2.45	0.31	21.0		.6	10	0	"
25	4-5	1247P 1253P	Lindsay-Keim	13.0	16.0	1.13	0.28	18.1		.6	8	0	FC 28
26	4-6	545P 555P	Lindsay	18.0	29.2	2.31	0.50	67.4		.6	9	0	"
27	4-11	1112A 1117A	Haig-Trentham	13.5	10.9	2.00	0.35	21.8		.6	9	0	FC 33
28	4-17	530P 538P	Haig	12.5	10.1	2.76	0.38	27.3		.6	7	0	"
29	4-23	122P 132P	Lindsay	14.5	10.7	1.57	0.30	16.8		.6	9	0	FC 28
30	4-28	1235P 1247P	"	16.0	12.3	1.29	0.29	15.9		.6	10	0	"
31	5-1	1115A 1125A	"	16.5	17.9	1.86	0.43	33.2		.6	9	0	"
32	5-2	455P 503P	Haig	11.5	5.73	1.34	0.25	7.7		.6	7	0	FC 33
33	5-5	105P 115P	Lindsay	16.0	5.38	1.38	0.22	7.4		.6	8	0	FC 28
34	5-12	1243P 1251P	"	10.0	2.19	1.37	0.17	3.0		.6	6	0	"
35	6-19	900A 910A	Green	2.0	0.31	0.97	0.09	0.30		.6	4	0	FC 19
36	6-25	1157A 1206P	Lindsay	9.0	2.86	1.71	0.17	4.9		.6	6	0	FC 28
37	6-26	1015A 1030A	Green	10.9	4.14	1.26	0.17	5.2		.6	12	0	FC 19
38	7-2	1120A 1128A	Lindsay	10.5	3.91	0.95	0.15	3.7		.6	8	0	FC 28

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F271R

Daily discharge, in second-feet of EATON WASH below Eaton Wash Debris Dam for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	57	29	36	+	4.4	+	0
2	0	0	0	0	0	67	14.4	7.6	+	3.8	+	0
3	0	0	0	0	0	58	22	7.6	+	3.8	+	0
4	0	0	0	0	0	E 95	16.9	7.6	+	3.3	+	0
5	0	0	0	0	0	127	17.0	7.6	+	3.3	+	0
6	0	0	0	0	0	127	59	7.6	+	3.3	+	0
7	0	0	0	0	0	74	67	7.6	+	4.7	+	0
8	0	0	0	0	0	47	37	7.6	+	5.4	+	0
9	0	0	0	0	0	47	25	7.6	+	3.9	+	0
10	0	0	0	0	0	33	32	7.6	+	+	+	0
11	0	0	0	0	0	109	39	5.7	+	+	+	0
12	0	0	0	0	0	34	66	33	+	+	+	0
13	0	0	0	0	0	87	57	33	+	+	+	0
14	0	0	0	0	0	32	35	33	+	+	+	0
15	0	0	0	0	0	54	44	33	+	+	+	0
16	0	0	0	0	0	24	15.4	2.8	+	+	+	0
17	0	0	1.2	0	5.5	40	26	+	+	+	0	0
18	0	0	+	0	33	13.6	29	+	0.5	+	0	0
19	0	0	+	0	8.1	0	25	+	3.2	+	0	0
20	0	0	+	0	E143	0	24	+	3.2	+	0	0
21	0	0	+	0	211	10.0	22	+	E 3.2	+	0	0
22	0	0	0	0	143	37	17.5	+	3.2	+	0	0
23	0	0	0	0	E 55	37	16.8	+	3.1	+	0	0
24	0	0	0	0	22	10.0	16.6	+	2.5	+	0	0
25	0	0	0	0	22	0	16.4	+	E 2.7	+	0	0
26	0	0	0	0	25	0	16.2	+	5.7	+	0	0
27	0	0	0	0	37	0	16.0	+	5.7	+	0	0
28	0	0	0	0	16.9	+	15.9	+	5.7	+	0	0
29	0	0	0	0		63	11.6	+	4.7	+	0	0
30	0	0	0	0		85	16.0	+	4.4	+	0	0
31	0		0	0		23		+		+	0	
	0	0	1.2	0	7215	1290.5	844.7	126.1	50.8	35.9	+	0
MEAN	0	0	0.04	0	25.8	41.6	28.2	4.07	1.69	1.16	+	0
ACRE-FEET	0	0	2.4	0	1430	2560	1680	250	101	71	+	0

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

YEAR OR PERIOD MEAN 8.40
ACRE-FEET 6090.

STATION F104R

EATON WASH at Ellis Lane

LOCATION:

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

DRAINAGE AREA:

18.4 square miles.

CHANNEL AND CONTROL:

Channel-sand and gravel.
No artificial control.

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed October 1, 1930. Removed December, 1930 due to bridge construction.
Reinstalled November 10, 1931 over an 18 inch corrugated iron pipe stilling well.
An H.C.F. continuous recorder was in service from October 1, 1940 to September 30, 1941.

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, 1941. From December 28, 1930 to November 10, 1931, the recorder was located at Broadway (now designated as Station F104B-R).

EXTREMES OF DISCHARGE:

1940-1941
Maximum 990 second-feet, March 3.
Minimum no flow most of year.
1930-1941
Maximum 1900 second-feet, estimated March 2, 1938.
Minimum no flow most of each year.

ACCURACY:

Fair.
Shifting control.
Flows occasionally estimated due to 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. F104R

DISCHARGE MEASUREMENTS OF EATON WASH

at Ellis Lane DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
125	10-25	918P / 923P	Lindsay	9.0	1.85	1.84	3.25	3.4		.6	5	-.02	FC 28
126	12-16	827A / 831A	"	3.5	1.35	2.00	3.02	2.7		.6	4	-.01	"
127	12-16	206P / 210P	Haig-Hall	17.0	3.52	1.79	3.21	6.3		.6	6	0	FC 33
128	12-16	1037P / 1054P	Hall-Haig	22.0	21.4	3.87	3.84	82.7		.6	6	+.24	"
129	12-17	410A / 417A	Lindsay-Keim	22.0	5.60	3.23	3.66	18.1		.6	8	-.03	FC 28
130	12-17	1030A / 1037A	" "	22.5	7.19	3.57	3.70	25.6		.6	9	-.04	"
131	12-18	518P / 525P	Lindsay	16.0	5.14	4.71	3.65	24.2		.6	5	+.03	"
132	12-18	757P / 807P	"	23.0	5.11	2.38	3.56	12.2		.6	8	-.09	"
133	12-23	725A / 747A	Haig-Hall	Two Channels			4.41	226.		.6	18	+.08	FC 33
134	12-23	1114A / 1122A	Hall-Haig	" "			3.81	49.7		.6	10	-.08	"
135	12-23	105P / 110P	Lindsay-Keim	12.0	1.36	1.42	3.44	1.9		.6	6	0	"
136	12-24	608A / 615A	" "	31.0	21.8	5.76	4.04	126.		.6	9	+.23	"
137	12-24	843A / 848A	Hall-Haig	22.5	11.6	4.92	3.65	56.8		.6	6	-.02	FC 33
138	12-24	1240P / 1245P	Lindsay-Keim	4.0	0.63	1.57	3.30	0.99		.6	4	0	FC 28
139	1-10	1036A / 1041A	Lindsay	7.0	1.04	1.52	3.25	1.6		.6	6	0	"
140	1-24	227A / 232A	Lindsay-Keim	9.0	3.20	1.81	3.23	5.8		.6	5	-.01 +.11	FC 44
141	1-24	235A / 242A	" "	23.0	7.67	3.66	3.38	28.1		.6	8	-.02	"
142	1-24	528A / 536A	" "	22.0	17.0	5.89	3.93	100.		.6	6	-.04	"
143	1-24	725A / 729A	Haig-Trentham	Two Channels			3.64	37.5		.6	6	-.01	FC 33
144	1-24	946A / 952A	Lindsay-Keim	13.0	2.55	2.59	3.37	6.6		.6	6	-.02	FC 44
145	2-6	708A / 716A	Lindsay	29.0	21.5	5.55	3.96	119.		.6	9	-.01	FC 28
146	2-6	828A / 834A	Haig-Trentham	30.5	16.2	4.09	3.76	66.2		.6	7	0	FC 33
147	2-6	1120A / 1125A	Trentham-Haig	8.5	2.23	2.47	3.42	5.5		.6	5	-.01	"
148	2-11	1130A / 1137A	Lindsay-Keim	31.0	15.6	4.81	3.85	75.2		.6	9	-.02	FC 28
149	2-11	1237P / 1242P	Haig-Trentham	23.0	10.8	4.32	3.65	47.1		.6	7	-.06	FC 33
150	2-11	241P / 247P	" "	22.5	4.61	0.89	3.37	4.1		.6	5	-.02	"
151	2-14	427P / 434P	Lindsay	31.0	23.5	5.61	4.05	132.		.6	9	-.05	FC 28
152	2-14	750P / 810P	Haig-Trentham	Two Channels			4.03	153.		.6	12	+.02 -.02	FC 33
153	2-14	845P / 852P	Lindsay-Keim	27.0	9.14	3.83	3.82	34.6		.6	8	-.01	FC 28
154	2-14	1011P / 1018P	Haig-Trentham	11.5	2.69	2.30	3.58	6.2		.6	4	-.01	FC 33
155	2-15	1206P / 1211P	" "	30.5	14.0	4.80	3.90	67.2		.6	7	0	"
156	2-15	125P / 129P	" "	31.0	25.4	5.10	4.12	130.		.6	6	0	"
157	2-15	345P / 350P	" "	31.0	14.9	4.22	3.71	62.7		.6	7	-.04	"
158	2-15	545P / 550P	" "	22.5	3.86	1.97	3.56	7.6		.6	5	-.02	"
159	2-16	1136P / 1141P	Lindsay-Keim	25.0	7.38	3.66	3.70	27.5		.6	7	-.02	FC 28
160	2-17	242A / 250A	" "	27.0	6.07	3.16	3.68	19.2		.6	8	+.01	"
161	2-17	331A / 337A	Haig-Trentham	31.0	16.7	4.50	4.01	75.1		.6	6	+.02	FC 33
162	2-17	710A / 715A	" "	30.0	9.34	3.06	3.64	28.6		.6	7	-.01	"
163	2-18	135P / 143P	Lindsay	24.0	6.16	3.57	3.71	22.1		.6	9	0	FC 28
164	2-19	515P / 526P	Haig	Two Channels			4.49	226.		.6	12	+.24	FC 33
165	2-19	532P / 550P	"	44.0	49.3	4.38	4.58	216.		.6	10	-.23 +.08	"
166	2-19	748P / 801P	Lindsay-Keim	Two Channels			4.67	306.		.6	10	-.01	FC 28
167	2-19	1042P / 1048P	Haig-Trentham	24.0	12.6	5.90	4.12	74.3		.6	6	-.03	FC 33
168	2-19	113A / 118A	" "	24.5	13.0	6.61	4.25	86.0		.6	6	+.04	"
169	2-20	415A / 424A	" "	31.5	17.2	5.05	4.32	86.6		.6	7	+.02	"
170	2-20	751A / 755A	Haig-Trentham	32.0	31.2	5.92	4.58	185.		.6	7	+.04	
171	2-21	916A / 944A	" "	44.0	46.2	6.21	5.33	287.		.6	15	-.13 +.10	"
172	2-21	201P / 208P	" "	35.0	35.2	6.78	5.29	239.		.6	9	0	"
173	2-21	746P / 800P	Haig-Trentham	Two Channels			5.70	534.		.6	13	-.21	FC 33
174	2-22	336P / 345P	" "	37.5	24.9	4.98	5.18	124.		.6	8	+.02	"
175	2-23	1150A / 1155A	" "	28.0	14.4	4.58	---	63.4		.6	8	0	"
176	2-24	409P / 417P	Haig	Two Channels			4.69	6.1		.6	10	0	"
177	2-25	533P / 541P	Lindsay	13.0	1.98	2.02	4.72	3.9		.6	6	0	FC 28
178	2-28	235P / 241P	"	27.0	6.87	3.06	4.89	20.7		.6	10	+.06	"
179	2-28	250P / 257P	"	27.0	13.0	4.61	5.08	59.2		.6	9	+.08	"
180	2-28	620P / 640P	Haig-Trentham	Three Channels			5.42	292.		.6	13	-.15	FC 33
181	3-1	219P / 225P	Lindsay-Keim	26.0	9.63	5.09	4.77	48.7		.6	9	+.02	FC 28
182	3-2	108P / 118P	Haig	30.0	10.9	3.30	4.79	36.4		.6	8	0	FC 33
183	3-3	132P / 140P	"	26.0	8.75	2.28	4.82	20.2		.6	7	-.01	"
184	3-3	1128P / 1145P	"	Two Channels			5.41	253.		.6	11	-.18	"
185	3-4	345A / 402A	"	" "			5.41	334.		.6	10	+.22	"
186	3-5	908A / 916A	"	36.0	20.2	4.60	5.38	93.0		.6	8	+.03	"
187	3-6	1120A / 1133A	"	36.0	26.0	4.46	5.70	116.		.6	9	+.02 -.04	"
188	3-7	918A / 925A	"	32.0	15.5	4.25	5.48	65.9		.6	7	-.02	"
189	3-8	415P / 424P	Haig-Haig	Two Channels			5.55	28.6		.6	8	0	"
190	3-12	1040A / 1046A	Haig	33.0	24.0	5.46	5.64	131.		.6	6	+.11	"
191	3-12	116P / 125P	"	32.5	20.3	4.82	5.57	97.8		.6	8	-.08	"
192	3-12	653P / 703P	Haig-Trentham	Two Channels			5.81	160.		.6	9	-.22	"
193	3-13	1256P / 103P	" "	35.5	17.8	4.63	5.82	82.4		.6	10	+.05	"
194	3-15	1223P / 1228P	Lindsay-Ingram	17.0	5.60	4.63	5.72	25.9		.6	6	-.01	FC 28
195	3-16	107P / 110P	" "	14.0	2.17	2.38	5.62	5.2		.6	6	+.01	"
196	3-17	118P / 124P	Haig	12.5	3.29	2.83	5.66	9.3		.6	6	+.03	FC 33
197	3-28	935P / 945P	Haig-Trentham	33.0	22.9	4.54	5.94	104.		.6	8	+.15	FC 33
198	3-28	1107P / 1114P	" "	35.0	17.5	3.54	5.97	62.1		.6	9	-.08	"
199	3-29	408A / 415A	" "	31.5	22.1	5.38	6.00	119.		.6	7	-.01	"
200	3-31	1106A / 1116A	" "	36.5	19.4	4.63	6.16	90.0		.6	7	0	"
201	3-31	157P / 204P	" "	23.0	11.3	2.48	5.86	27.5		.6	9	-.01	"
202	3-31	424P / 428P	" "	3.5	0.37	0.68	5.63	0.25		.6	4	-.04	"
203	3-31	1130P / 1140P	" "	45.0	18.8	4.14	5.94	77.8		.6	10	-.02	"
204	4-1	145P / 156P	Haig	33.0	9.54	2.76	5.90	26.3		.6	8	+.01	"
205	4-3	336P / 342P	"	Two Channels			5.83	7.9		.6	9	0	"
206	4-4	1051P / 1100P	Haig-Trentham	28.0	10.9	4.50	5.98	49.3		.6	8	-.05	"
207	4-6	108P / 116P	Ingram	27.0	9.36	2.49	6.03	37.5		.6	7	0	FC 18
208	4-7	1203P / 1213P	Lindsay	27.0	11.5	5.10	6.27	58.6		.6	10	0	FC 28
209	4-9	1217P / 1228P	Ingram	Two Channels			6.14	10.4		.6	10	+.01	FC 18
210	4-11	1255A / 108A	Haig-Trentham	" "			6.69	234.		.6	11	-.02	FC 33
211	4-11	801A / 809A	" "	" "			6.12	12.4		.6	8	0	"
212	4-11	150P / 154P	Lindsay-Keim	13.0	2.08	2.05	6.13	4.3		.6	5	0	FC 28
213	4-13	235P / 242P	Haig	35.0	12.9	3.54	6.58	45.7		.6	9	0	FC 33
214	4-15	1040A / 1052A	Ingram	Two Channels			6.38	13.4		.6	12	0	FC 18
215	4-18	1241P / 1250P	Lindsay	15.0	3.36	3.15	6.48	10.6		.6	6	0	FC 28
216	4-24	251P / 300P	"	16.0	2.40	1.75	6.49	4.2		.6	8	-.02	"
217	4-30	806A / 812A	Haig	22.0	7.80	3.85	6.67	30.1		.6	7	-.06	FC 33
218	4-30	1214P / 1222P	"	30.0	13.7	4.12	6.74	56.4		.6	9	+.03	"
219	5-1	218P / 227P	Lindsay	23.0	4.89	3.15	6.60	15.4		.6	8	-.05	FC 28

P.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

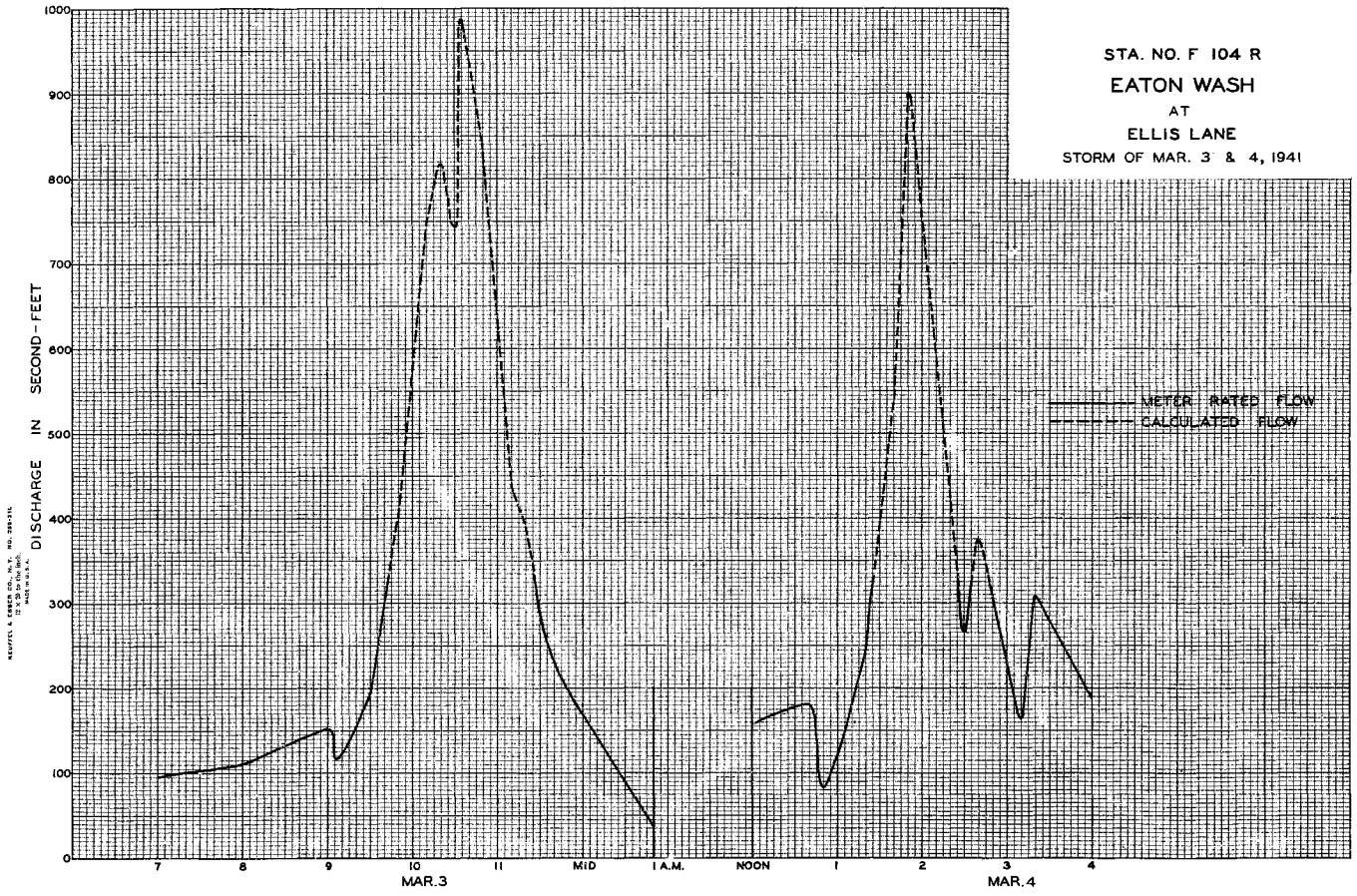
Sta. No F104R

Daily discharge, in second-feet of EATON WASH at Ellis Lane, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	47	32	16	0	0	0	0
2	0	0	0	0	0	81	8.5	0.4	0	0	0	0
3	0	0	0	0	0	115	5.5	0	0	0	0	0
4	0	0	0	0	0	220	20	0	0	0	0	0
5	0	0	0	0	0	104	2.5	0	0	0	0	0
6	0	0	0	0	13	110	42	0	0	0	0	0
7	0	0	0	0	0	6.8	64	0	0	0	0	0
8	0	0	0	0	0	31	28	0	0	0	0	0
9	0	0	0	0	0	28	7.5	0	0	0	0	0
10	0	0	0	0.3	0	19	49	0	0	0	0	0
11	0	0	+	0	7	0	35	0	0	0	0	0
12	0	0	+	0	0	104	26	0	0	0	0	0
13	0	0	0	0	0	84	26	0	0	0	0	0
14	0	0	0	0.7	33	29	14	0	0	0	0	0
15	+	0	0	0	21	21	18	0	0	0	0	0
16	+	0	14	0	20	8.5	2.7	0	0	0	0	0
17	+	1.2	22	0	9	13	5	0	0	0	0	0
18	0.8	1.0	9	0	21	2.8	10	0	0	0	0	0
19	0.4	0	0	0	72	0	9	0	0	0	0	0
20	0.4	0	0	0	149	0	8	0	0	0	0	0
21	0.3	0	0	0.5	268	0	9	0	0	0	0	0
22	+	0	0	0.4	117	0	3.5	0	0	0	0	0
23	0	0	47	+	35	1.4	8.5	0	0	0	0	0
24	0	0	22	20	5	1.6	4.5	0	0	0	0	0
25	9	0	0	0	5	0	6	0	0	0	0	0
26	6	0	0	0.7	8.5	0	4.9	0	0	0	0	0
27	0.6	0	0	0	20	0	4.9	0	0	0	0	0
28	0	0	0.1	0	81	15	5.5	0	0	0	0	0
29	0	0	1.3	0		44	8	0	0	0	0	0
30	0	0	0.5	0		46	22	0	0	0	0	0
31	0		+	0		55		0		0	0	
	17.5	2.2	115.9	22.6	884.5	1248.3	489.5	16.4	0	0	0	0
MEAN	0.56	0.07	3.74	0.73	31.6	40.3	16.3	0.53	0	0	0	0
ACRE-FEET	35.	4.4	230.	45.	1750.	2790.	971.	33.	0	0	0	0

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

YEAR OR PERIOD MEAN 7.66
ACRE-FEET 5860.



STATION F149R

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 - concrete, located 15 feet below the station. The banks at the control washed out February 17. The control was finally removed February 27. On April 29 a wooden plank control was installed.

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, 1940 to September 30, 1941.

OPERATION:

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

REGULATION:

None.

RECORDS AVAILABLE:

November 9, 1939 to September 30, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 318 second-feet, February 17.
Minimum no flow most of year.
1939-1941
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 after February 17.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F149R

DISCHARGE MEASUREMENTS OF LIMEKILN WASH

at Devonshire Street DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
13	12-17	1225A / 1230A	Luce-Pardieck	8.0	5.93	3.48	0.97	20.6		.6	6	+.02	FC 39
14	12-17	1232A / 1240A	" "	8.0	5.20	4.02	0.98	21.0		.6	8	-.03	"
15	12-17	155A / 200A	Luce-Pardieck	6.0	1.78	1.57	0.54	2.8		.6	6	-.01	FC 39
16	12-18	950F / 952F	" "	0.6	0.05	0.20	0.14	0.01		.6	2	0	"
17	12-23	1132A / 1135A	" "	5.5	2.22	1.73	0.55	3.9		.6	6	-.01	"
18	12-24	855A / 900A	" "	5.8	2.53	3.95	0.61	10.0		.6	7	-.02	"
19	1-24	600A / 604A	Luce	8.2	4.78	3.97	0.75	19.0		.6	6	0	"
20	1-24	515F / 518F	Luce-Pardieck	1.9	0.36	1.16	0.24	0.43		.6	4	0	"
21	2-11	850F / 855F	Luce-Truitt	4.0	0.43	1.21	0.34	0.52		.6	3	0	"
22	2-14	238F / 242F	Luce	7.0	1.96	3.29	0.50	6.4		.6	5	0	"
23	2-14	752F / 757F	"	7.5	3.15	4.44	0.55	13.9		.6	7	0	"
24	2-19	542P / 548P	"	9.5	5.02	4.18	0.65	21.3		.6	6	+.02	"
25	2-20	240P / 243P	"	5.0	2.42	3.55	0.24	8.6		.6	6	0	"
26	2-22	1153A / 1157A	"	7.8	2.73	4.03	0.26	10.5		.6	6	0	"
27	2-24	908A / 912A	"	7.0	3.49	5.16	0.53	17.8		.6	8	-.02	"
28	2-26	1105A / 1110A	"	4.5	0.69	1.43	0.47	0.98		.6	5	0	"
29	2-27	818A / 823A	"	3.5	0.45	1.77	0.30	0.83		.6	4	0	"
30	3-1	655A / 701A	"	19.0	11.1	5.39	0.76	60.1		.6	9	-.08	"
31	3-4	721A / 732A	Luce	18.0	7.97	4.64	0.50	37.2		.6	8	-.04	FC39
32	3-5	346P / 352P	"	7.5	2.62	3.62	0.24	9.5		.6	6	0	"
33	3-12	536P / 539P	Luce-Pardieck	4.6	2.14	3.69	0.22	7.9		.6	5	0	"
34	3-14	1135A / 1140A	" "	6.0	1.54	1.56	0.10	2.4		.6	5	0	"
35	3-23	335P / 340P	Luce	4.5	1.06	1.51	0.06	1.6		.6	5	0	"
36	3-27	827A / 832A	Luce-Pardieck	4.4	1.13	1.68	0.07	1.9		.6	5	0	FC 39
37	3-28	1027P / 1033P	" "	4.0	2.18	1.84	0.14	4.0		.6	5	0	"
38	3-30	429P / 432P	" "	3.6	0.95	1.89	0.05	1.8		.6	4	0	"
39	3-31	312P / 316P	" "	7.0	1.80	2.33	0.16	4.2		.6	6	0	"
40	4-2	207P / 212P	" "	4.5	1.20	2.08	0.10	2.5		.6	6	0	"
41	4-5	937A / 941A	" "	6.7	2.00	2.25	0.12	4.5		.6	5	0	"
42	4-10	1245P / 1250P	Luce	5.5	1.51	1.66	0.10	2.5		.6	6	0	"
43	4-12	855A / 859A	Luce-Pardieck	6.0	2.09	1.87	0.14	3.9		.6	6	0	"
44	4-17	1110A / 1115A	Luce	3.5	1.45	2.07	0.11	3.0		.6	4	0	"
45	4-30	906A / 911A	Luce-Pardieck	4.2	1.85	1.78	0.13	3.3		.6	5	0	"
46	5-2	1122A / 1128A	Luce	4.0	1.23	1.63	0.10	2.0		.6	5	0	"
47	5-8	1112A / 1115A	"	4.0	1.10	1.45	0.08	1.6		.6	5	0	"
48	5-15	1050A / 1055A	"	3.7	0.92	1.20	0.05	1.1		.6	4	0	"
49	5-23	601A / 607A	"	3.5	0.74	0.81	0.05	0.63		.6	4	0	"
50	5-28	210P / 215P	Luce-Turner	3.3	0.78	0.62	0.05	0.48		.6	4	0	"
51	6-4	405P / 410P	Turner	4.0	0.72	0.76	0.06	0.54		.6	5	0	FC 5
52	6-18	1100A / 1106A	"	4.0	0.61	0.59	0.06	0.36		.6	5	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

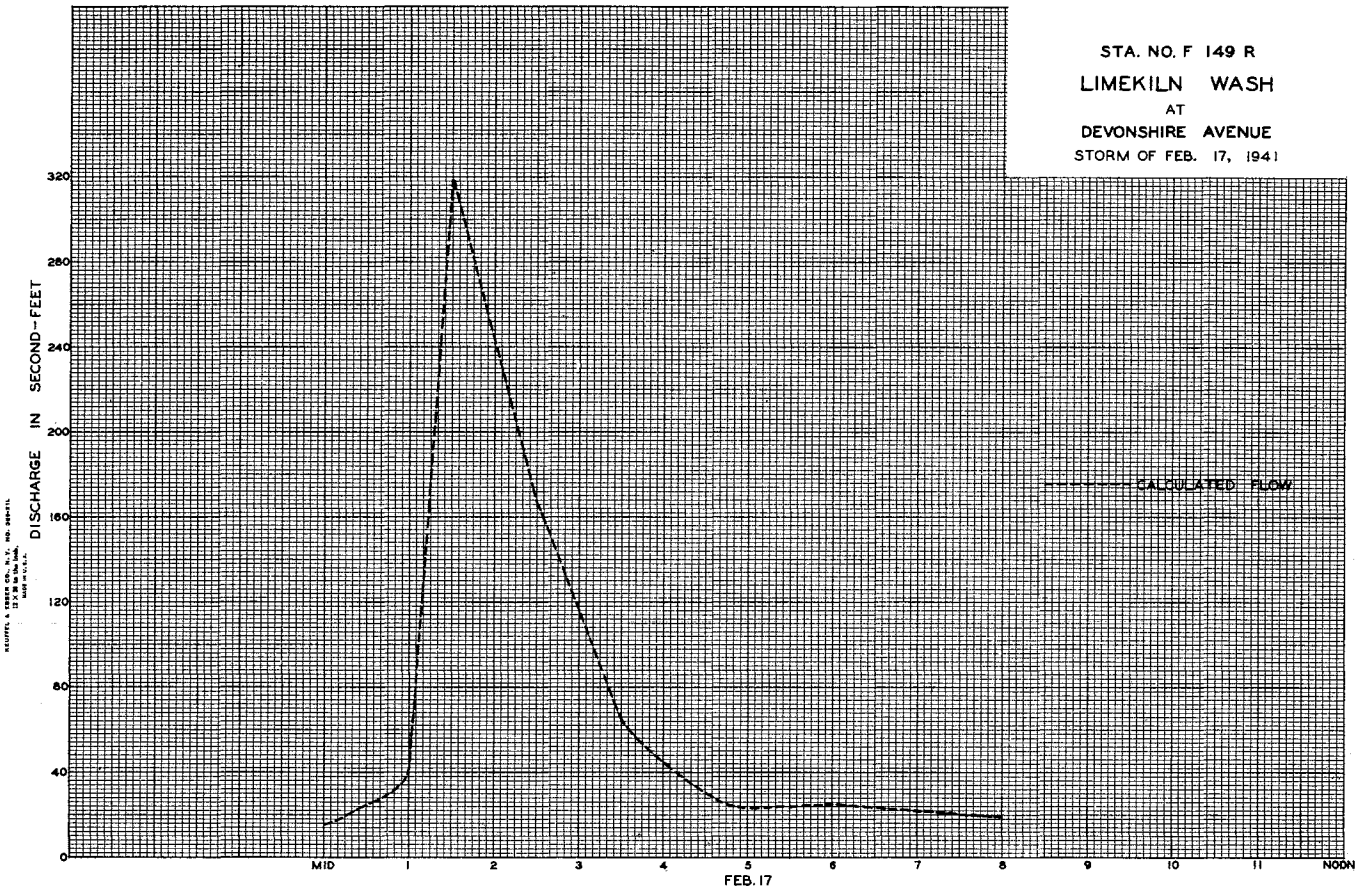
Sta. No. F149R

Daily discharge, in second-feet of LIMEKILN WASH at Devonshire Avenue, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	E 17	E 7	2.3	0.4	0	0	0
2	0	0	0	0	0	4.6	3.6	2.3	0.4	0	0	0
3	0	0	0	0	0	11	3.2	1 2.2	0.4	0	0	0
4	0	0	0	0	0	33	6.5	2.1	0.5	0	0	0
5	0	0	0	0	0	E 10	4.4	1.9	0.5	0	0	0
6	0	0	0	0	2.9	7.5	3.5	1.8	0.5	0	0	0
7	0	0	0	0	0	6	3.0	1 1.7	0.5	0	0	0
8	0	0	0	0	0.4	5	2.8	E 1.6	0.5	0	0	0
9	0	0	0	0	0	4.0	2.7	1 1.5	0.5	0	0	0
10	0	0	0	0	0	3.2	6.5	1.5	0.5	0	0	0
11	0	0	0	0	2.1	E 2.7	4.3	1.4	0.4	0	0	0
12	0	0	0	0	0.3	5.5	E 3.9	1.3	0.1	0	0	0
13	0	0	0	0	0.1	6	1 3.8	1.2	0.2	0	0	0
14	0	0	0	0	5.5	3.4	3.6	1 1.2	0.5	0	0	0
15	0	0	0	0	16	E 2.3	3.4	E 1.1	0.3	0	0	0
16	0	0	0	0	8.5	2.2	1 3.2	1.3	0.3	0	0	0
17	0	0	1.1	0	3.6	2.1	E 3.0	1.3	0.1	0	0	0
18	0	0	0.6	0	1.3	2.0	1 3.0	1.3	+	0	0	0
19	0	0	0	0	1.1	2.0	2.9	1.1	+	0	0	0
20	0	0	0	0	4.1	1.9	2.8	0.8	+	0	0	0
21	0	0	0	0.1	20	1.8	2.7	0.8	+	0	0	0
22	0	0	0	0.3	16	1.7	2.6	0.8	+	0	0	0
23	0	0	8.5	0.7	E 6	1.6	2.5	0.8	0	0	0	0
24	0	0	4.0	5.5	9	1.6	2.4	0.8	0	0	0	0
25	0	0	0	+	2.5	1.7	2.3	0.8	0	0	0	0
26	0	0	0	2.3	1.0	E 1.6	2.2	0.5	0	0	0	0
27	0	0	0	0	0.8	1.9	2.1	0.5	0	0	0	0
28	0	0	0	0	E 19	2.5	2.0	0.5	0	0	0	0
29	0	0	0	0		7	1 1.9	0.5	0	0	0	0
30	0	0	0	0		E 1.7	4.0	0.5		0	0	
31	0		0	0		E 11		0.5		0		
	0	0	14.4	8.9	211.1	165.7	101.8	37.9	6.6	0	0	0
Mean	0	0	0.46	0.29	7.54	5.34	3.39	1.22	0.22	0	0	0
Acre-Feet	0	0	29.	18.	419.	329.	202.	75.	13.	0	0	0

Remarks: E = estimated. 1 = interpolated. + = 0.05 c.f.s. or less.

Year of Period: Mean 1.50 Acre Feet 1080.



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, 1940 to September 30, 1941.

REGULATION:

None.

DIVERSIONS:

Glendora Consolidated Mutual Water Co.

RECORDS AVAILABLE:

At Station F65R:
January 28, 1929 to November 23, 1938.
At Station F65B-R:
November 30, 1938 to September 30, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 73 second-feet March 4.
Minimum no flow for several months.

1929-1941
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 and obstruction of communication.

OPERATION:

Located, constructed and operated by the Los Angeles County Flood Control District 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. F65B-R

DISCHARGE MEASUREMENTS OF LITTLE DALTON CREEK

at above Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 41

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
78	12-17	754A / 800A	Brewster-Smith	4.0	0.88	0.97	0.41	0.85		.6	4	0	FC 24
79	12-17	950A / 956A	" "	6.0	1.80	1.86	0.48	1.9		.6	3	0	"
80	12-18	1101A / 1105A	Brewster	0.5	0.11	0.55	0.32	0.06		.6	1	0	"
81	12-23	1017A / 1023A	Brewster-Smith	9.0	2.73	4.25	0.72	11.6		.6	4	0	"
82	12-23	148P / 155P	" "	5.0	1.48	1.83	0.49	2.7		.6	5	0	"
83	12-24	930A / 940A	" "	11.0	4.17	4.14	0.70	17.3		.6	5	-.01	"
84	12-24	138P / 145P	" "	8.0	2.12	2.94	0.64	6.2		.6	4	0	"
85	12-25	1000A / 1007A	Brewster	6.0	1.53	0.99	0.45	1.5		.6	4	0	"
86	12-29	1049A / 1055A	"	4.0	0.74	0.80	0.39	0.59		.6	4	0	"
87	12-31	1030A / 1038A	"	6.0	1.05	0.75	0.43	0.79		.6	4	0	"
88	1-8	1040A / 1045A	"	3.0	0.52	0.81	0.35	0.42		.6	3	0	"
89	1-10	1045A / 1050A	"	3.0	0.54	0.83	0.37	0.45		.6	3	0	"
90	1-15	845A / 851A	"	3.0	0.44	0.61	0.34	0.27		.6	3	0	"
91	1-22	1049A / 1055A	"	4.0	0.68	0.76	0.36	0.52		.6	4	0	"
92	1-24	1055A / 1100A	Brewster-Smith	7.0	1.81	1.25	0.48	2.3		.6	4	-.01	"
93	1-29	939A / 945A	Brewster	4.0	0.72	0.81	0.71	0.58		.6	4	0	"
94	2-5	1130A / 1136A	"	3.0	0.48	0.71	0.57	0.34		.6	3	0	"
95	2-6	120P / 127P	Brewster-Smith	5.0	0.94	0.86	0.53	0.81		.6	5	0	"
96	2-11	100P / 110P	" "	10.0	3.36	2.98	0.70	10.4		.6	5	-.01	"
97	2-11	535P / 541P	" "	6.0	1.47	1.43	0.50	2.1		.6	4	-.01	"
98	2-12	900A / 906A	Brewster	6.0	1.37	0.96	0.43	1.3		.6	4	0	"
99	2-14	908P / 915P	Brewster-Smith	8.0	2.04	1.19	0.50	2.4		.6	4	-.01	"
100	2-15	230P / 240P	" "	10.0	3.40	2.18	0.65	7.4		.6	5	0	"
101	2-16	150P / 158P	Brewster	6.0	1.44	1.11	0.50	1.6		.6	4	0	"
102	2-17	1202P / 1210P	Brewster-Smith	7.0	2.20	1.41	0.58	3.1		.6	4	-.01	FC 24
103	2-19	925A / 931A	Brewster	8.0	1.84	1.14	0.49	2.1		.6	4	0	"
104	2-19	940P / 950P	Brewster-Smith	15.0	7.51	4.26	0.98	32.2		.6	5	-.04	"
105	2-20	845A / 855A	" "	12.0	5.64	3.19	1.00	18.4		.6	6	0	"
106	2-20	150P / 200P	" "	14.0	7.84	5.23	1.82	40.8		.6	7	-.04	"
107	2-21	950A / 1000A	" "	12.0	6.92	3.32	1.73	22.7		.6	6	0	"
108	2-21	349P / 355P	" "	10.0	6.16	3.90	1.82	23.6		.6	5	-.03	"
109	2-21	1142P / 1155P	" "	11.0	6.07	3.62	1.78	21.8		.6	6	0	"
110	2-22	950A / 1000A	" "	10.0	5.40	2.59	0.82	14.2		.6	5	-.01	"
111	2-23	1120A / 1130A	" "	8.0	3.35	2.30	0.75	7.7		.6	5	0	"
112	2-24	140P / 150P	Brewster	10.0	3.68	1.90	0.75	7.0		.6	5	0	"
113	2-26	1235P / 1245P	"	6.0	3.24	1.60	0.65	5.2		.6	6	0	"
114	2-28	205P / 215P	"	6.0	2.85	1.37	0.60	3.9		.6	4	0	"
115	2-28	725P / 735P	Brewster-Smith	10.0	6.20	3.55	0.81	21.6		.6	5	+.02	"
116	3-1	855A / 905A	" "	12.0	5.72	2.10	0.90	12.0		.6	6	0	"
117	3-2	755A / 805A	" "	9.0	4.60	2.83	0.98	12.5		.6	5	0	"
118	3-3	535P / 545P	Brewster	10.0	3.88	2.42	0.91	9.4		.6	5	0	"
119	3-3	1010P / 1020P	Brewster-Smith	10.0	7.00	4.86	1.15	33.8		.6	5	+.10	"
120	3-4	1145A / 1155A	" "	12.0	7.16	4.47	1.57	32.0		.6	6	+.02	"
121	3-4	620P / 630P	" "	20.0	15.6	4.36	2.36	67.6		.6	5	+.08	"
122	3-5	808A / 820A	" "	12.0	8.60	4.30	1.18	36.8		.6	6	-.05	"
123	3-6	1125A / 1135A	" "	12.0	7.00	2.86	1.30	19.6		.6	6	0	"
124	3-7	1050A / 1100A	Brewster	12.0	6.32	2.69	1.10	17.0		.6	6	0	FC 24
125	3-10	315P / 325P	"	10.0	4.32	2.04	0.83	8.8		.6	5	0	"
126	3-12	120P / 130P	Brewster-Smith	10.0	4.60	2.00	0.88	9.2		.6	5	-.01	FC 24
127	3-12	510P / 520P	" "	10.0	5.20	3.08	1.23	15.9		.6	5	+.06	"
128	3-13	805A / 815A	" "	11.0	6.20	2.58	1.26	16.2		.6	6	-.01	"
129	3-14	940A / 950A	" "	12.0	5.88	2.72	1.15	15.8		.6	6	0	"
130	3-14	500P / 510P	" "	12.0	7.20	3.19	1.28	22.7		.6	6	-.01	"
131	3-15	210P / 220P	" "	12.0	5.88	2.72	1.14	15.6		.6	6	0	"
132	3-17	1030A / 1040A	Brewster	12.0	5.00	2.40	1.07	12.2		.6	6	0	"
133	3-19	940A / 950A	"	10.0	4.20	2.38	1.00	10.0		.6	5	0	"
134	3-24	410P / 420P	"	10.0	3.72	1.40	0.83	5.2		.6	5	0	"
135	3-26	1040A / 1048A	"	7.0	3.35	1.46	0.81	4.9		.6	4	0	"
136	3-28	1015P / 1025P	"	10.0	4.40	2.16	1.01	9.5		.6	5	0	"
137	3-29	740A / 750A	"	10.0	3.84	2.29	1.06	8.8		.6	5	-.01	"
138	3-31	115P / 125P	Brewster-Smith	10.0	5.08	1.97	1.22	10.3		.6	5	-.01	"
139	3-31	952P / 1000P	" "	10.0	5.00	2.20	1.19	10.9		.6	5	+.02	"
140	4-1	349P / 355P	" "	9.0	3.65	1.70	0.98	6.2		.6	4	0	"
141	4-2	950A / 1000A	Brewster	9.0	3.85	1.82	0.98	7.0		.6	4	-.01	"
142	4-7	200P / 210P	"	10.0	4.48	1.89	1.12	8.5		.6	5	0	"
143	4-9	1000A / 1010A	"	12.0	4.76	1.51	1.09	7.2		.6	6	0	"
144	4-11	430A / 440A	"	10.0	5.48	2.74	1.24	14.6		.6	5	-.01	"
145	4-14	1120A / 1130A	"	11.0	5.37	1.65	1.06	8.9		.6	6	0	"
146	4-16	945A / 955A	"	11.0	5.59	1.47	1.07	8.2		.6	6	0	"
147	4-21	1020A / 1030A	"	11.0	5.62	1.35	1.00	7.6		.6	6	0	"
148	4-23	935A / 945A	Brewster	10.0	4.44	1.35	0.98	6.0		.6	5	0	FC 24
149	4-28	1050A / 1100A	"	11.0	5.05	1.18	0.92	6.0		.6	6	0	"
150	4-30	150P / 200P	Brewster	11.0	5.43	1.42	1.04	7.7		.6	6	-.01	FC 24
151	5-5	1045A / 1055A	"	10.0	3.96	1.09	0.76	4.3		.6	5	0	"
152	5-7	1000P / 1010P	"	10.0	4.20	1.11	0.75	4.7		.6	5	0	"
153	5-12	240P / 250P	"	9.0	3.45	1.01	0.59	3.5		.6	5	0	"
154	5-14	940A / 950A	"	9.0	3.48	1.04	0.58	3.6		.6	5	0	"
155	5-21	930A / 938A	"	9.0	3.36	0.96	0.52	3.2		.6	5	0	"
156	5-28	930A / 940A	"	9.0	3.00	0.83	0.51	2.5		.6	5	0	"
157	6-4	940A / 950A	"	9.0	2.94	0.61	0.49	1.8		.6	5	0	"
158	6-11	400P / 410P	"	9.0	2.69	0.52	0.43	1.4		.6	5	0	"
159	6-18	1015A / 1025A	"	9.0	2.86	0.56	0.44	1.6		.6	5	0	"
160	6-25	915A / 925A	"	9.0	2.80	0.54	0.43	1.5		.6	5	0	"
161	7-2	1040A / 1050A	"	9.0	2.57	0.47	0.43	1.2		.6	5	0	"
162	7-9	321P / 330P	"	6.0	1.52	0.56	0.38	0.86		.6	4	0	"
163	7-16	1021A / 1030A	"	6.0	1.73	0.52	0.38	0.90		.6	4	0	"
164	7-23	1009A / 1015A	"	2.0	0.72	0.58	0.40	0.42		.6	4	0	"
165	7-30	1000A / 1005A	"	1.5	0.77	0.53	0.40	0.41		.6	3	0	"
166	8-6	515P / 520P	"	1.5	0.60	0.43	0.34	0.26		.6	3	0	"
167	8-13	117P / 120P	Lindsay	1.0	0.13	0.85	0.31	0.11		.6	2	0	FC 28
168	8-20	828A / 831A	"	1.1	0.16	0.88	0.31	0.14		.6	2	0	"
169	8-27	1124A / 1130A	Brewster	1.5	0.46	0.67	0.35	0.31		.6	3	0	FC 24
170	9-3	1020A / 1025A	"	1.5	0.40	0.60	0.35	0.24		.6	3	0	"
171	9-10	350P / 355P	"	1.0	0.24	0.38	0.26	0.09		.6	2	0	"
172	9-17	1010A / 1015A	"	1.0	0.26	0.65	0.33	0.17		.6	2	0	"
173	9-24	340P / 343P	"	1.0	0.12	0.50	0.21	0.06		.6	2	0	FC 12

F.C. Dist. Form 81 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

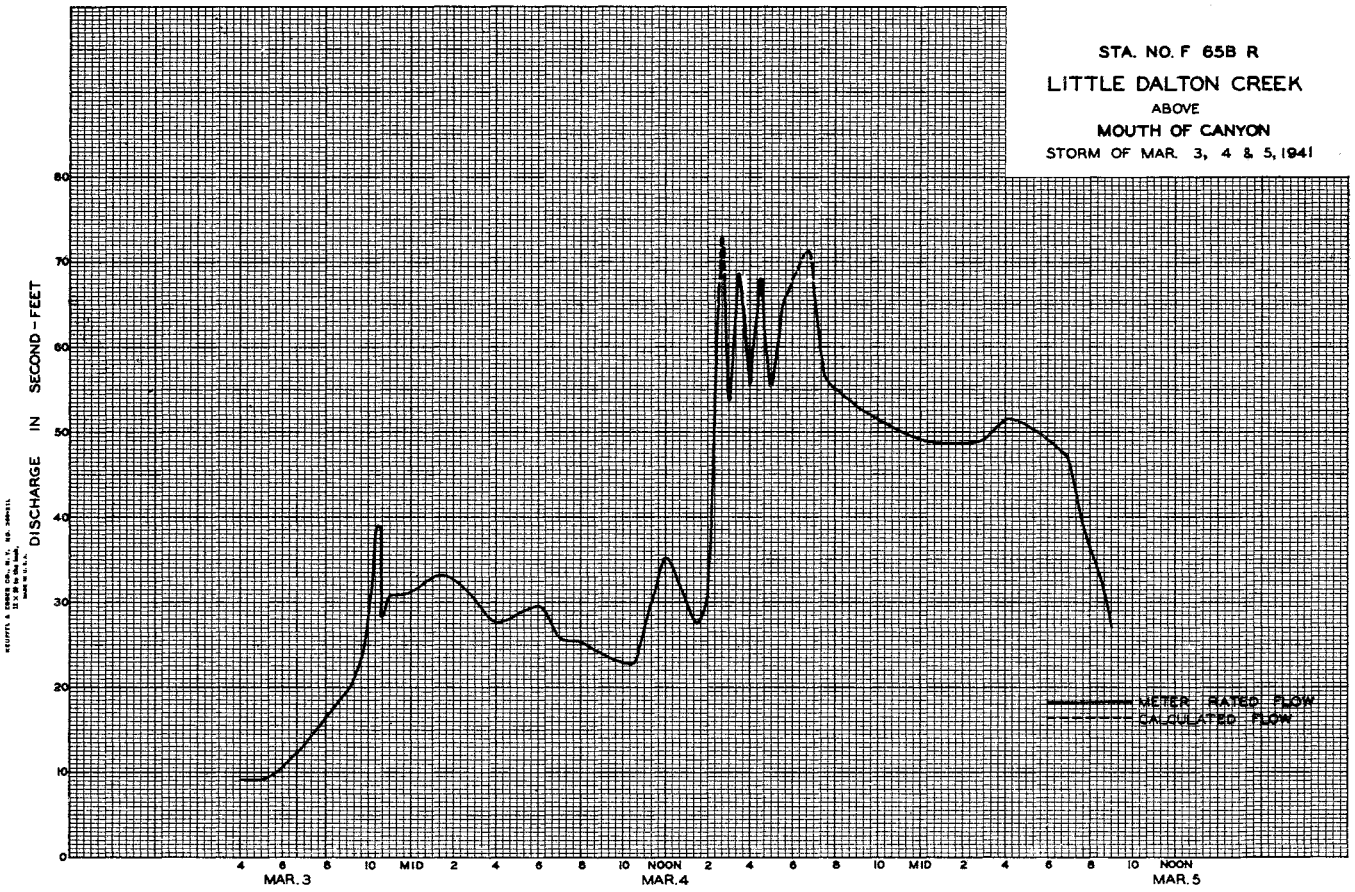
Sta. No. F65B-R

Daily discharge, in second-feet of LITTLE DALTON CREEK above Mouth of Canyon, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0.4	0.9	10	7	7	1.9	1.2	0.2	0.1
2	0	0	0	0.4	0.7	11	7	6.5	1.9	1.0	0.2	0.1
3	0	0	0	0.3	0.2	13	6.5	6.5	1.9	0.9	0.3	0.1
4	0	0	0	0.3	0.3	41	11	6	1.7	0.8	0.4	0.2
5	0	0	0	0.3	0.3	32	12	4.5	1.7	0.9	0.6	0.1
6	0	0	0	0.4	1.2	20	9.5	4.5	1.8	0.9	0.5	0.2
7	0	0	0	0.4	0.5	17	8.5	4.7	1.8	0.9	0.5	0.3
8	0	0	0	0.3	0.4	14	7.5	4.8	1.9	0.9	0.5	0.4
9	0	0	0	0.3	0.3	11	8	5	1.8	0.9	0.5	0.5
10	0	0	0	0.3	0.3	9	10	5.5	1.7	1.0	0.8	0.3
11	0	0	0	0.3	2.9	8.5	15	4.8	1.6	1.0	0.7	0.1
12	0	0	0	0.2	1.3	11	13	3.7	1.6	0.9	0.7	0.1
13	0	0	0	0.3	1.2	17	10	3.6	1.6	1.0	0.3	0.1
14	0	0	0	0.3	1.6	17	8.5	3.6	1.7	0.9	0.2	0.1
15	0	0	0	0.3	3.7	15	8	3.4	1.7	0.9	0.4	0.1
16	0	0	0.1	0.2	2.1	14	8	3.2	1.6	0.8	0.3	0.3
17	0	0	0.9	0.1	3.5	12	8	3.2	1.4	0.7	0.3	0.1
18	0	0	0.1	0.1	2.4	11	8.5	3.4	1.4	0.5	0.1	0.2
19	0	0	0.1	0.1	8	10	8	3.2	1.3	0.5	0.2	0.3
20	0	0	0.1	0.2	3.1	8.5	8	3.2	1.4	0.4	0.2	0.2
21	0	0	0.1	0.3	22	8	7.5	3.2	1.4	0.4	0.1	0.1
22	0	0	+	0.6	13	7	6.5	3.2	1.4	0.4	0.1	0.1
23	0	0	3.1	0.4	8	6	6	3.1	1.4	0.3	0.1	0.1
24	0	0	6	1.9	7	5.5	6	3.2	1.4	0.2	0.2	0.1
25	0	0	1.4	1.0	6	5.5	6	3.1	1.4	0.4	0.4	0.2
26	0	0	0.9	0.3	5	5	6	2.8	1.4	0.5	0.4	0.2
27	0	0	0.6	0.3	4.5	4.8	6	2.6	1.4	0.4	0.3	0.1
28	0	0	0.4	0.7	8.5	6	6	2.5	1.3	0.3	0.4	0.1
29	0	0	0.5	0.6		8.5	6	2.5	1.3	0.3	0.4	+
30	0	0	0.9	0.7		5	7	2.4	1.2	0.3	0.3	+
31	0		0.8	0.8		6.5		2.1		0.1	0.1	
	0	0	16.0	13.1	136.8	369.8	245.0	121.0	47.0	20.6	10.7	4.9
MEAN	0	0	0.52	0.42	4.89	11.9	8.17	3.90	1.57	0.66	0.35	0.16
ACRE-FEET	0	0	32	26	271	733	486	240	93	41	21	9.7

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

YEAR OR PERIOD — MEAN 2.70 — ACRE-FEET 1950.



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" corrugated iron pipe in May 1940. An Au continuous recorder was in service from October 1, 1940 to September 30, 1941.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

October 1, 1930 to September 30, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 2240. second-feet, February 20.
Minimum no flow part of year.
1930-1941
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 failure.

OPERATION:

Originally located and installed by Little Rock Palmdale Irrigation District. Reinstalled by the Los Angeles County Flood Control District and operated in cooperation 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. L1-R

DISCHARGE MEASUREMENTS OF LITTLE ROCK CREEK

above Little Rock Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
68	11-22	230P 238P	Luce	4.5	1.49	1.07	2.84	1.6		.6	6	0	FC 39
69	12-16	740P 755P	Luce-Pardieck	Two Channels			3.53	32.6		.6	12	0	"
70	12-16	800P 810P	" "	" "			3.54	35.0		.6	13	0	"
71	12-17	105A 120A	" "	39.5	39.1	3.94	3.95	154.		.6	12	-.04	"
72	12-17	135A 155A	" "	39.5	40.4	4.08	4.03	165.		.6	14	+.04	"
73	12-17	300P 310P	" "	37.0	25.6	3.24	3.70	83.1		.6	10	0	"
74	12-17	348P 356P	" "	36.0	24.3	3.59	3.66	87.2		.6	12	0	"
75	12-23	350P 400P	" "	39.5	33.4	3.90	3.74	130.		.6	12	-.01	"
76	12-23	420P 430P	" "	39.0	34.0	3.69	3.74	125.		.6	12	0	"
77	1-29	115P 130P	Luce	34.5	17.6	1.53	3.34	26.7		.6	14	0	"
78	2-6	111P 119P	Luce-Pardieck	21.0	16.3	1.66	3.36	27.3		.6	13	0	"
79	2-6	119P 126P	" "	21.0	16.3	1.66	3.36	27.1		.6	10	0	"
80	2-17	1220P 1245P	" "	59.0	76.6	5.63	4.28	430.		.6	13	-.01	FC 41
81	2-17	1254P 121P	" "	57.0	68.3	5.14	4.26	351.		.6	13	-.02	"
82	2-17	122P 142P	" "	57.0	74.8	5.36	4.25	401.		.6	12	-.01	"
83	2-25	505P 518P	" "	44.5	50.0	3.60	3.07	180.		.6	14	-.01	FC 39
84	2-25	520P 537P	" "	44.0	46.0	3.65	3.06	168.		.6	16	-.01	"
85	3-6	1055A 1108A	" "	46.5	53.3	4.00	3.15	213.		.6	14	0	"
86	3-6	1108A 1120A	" "	46.5	54.3	4.00	3.15	217.		.6	14	0	"
87	3-29	1059A 1112A	" "	48.0	53.2	3.08	2.84	164.		.6	14	0	"
88	4-9	852A 902A	Luce-B. Luce	43.5	53.4	2.85	2.65	152.		.6	10	0	"
89	4-30	641P 655P	Luce-Pardieck	44.5	59.3	3.47	2.90	206.		.6	12	+.02	"
90	5-9	200P 215P	Luce	42.0	50.8	2.62	2.66	133.		.6	12	0	"
91	5-29	135P 150P	"	20.0	22.5	2.18	2.05	49.4		.6	11	0	"
92	6-13	820A 840A	Turner	26.0	22.9	0.92	1.68	20.7		.6	14	0	FC 5
93	6-27	845A 905A	"	22.5	19.2	0.62	1.51	12.3		.6	13	0	"
94	7-25	430P 440P	Luce	14.5	8.44	0.55	1.20	4.6		.6	8	0	FC 39
95	8-23	1130A 1145A	"	13.5	7.09	0.32	1.05	2.3		.6	7	0	"
96	9-26	1125A 1135A	"	7.0	2.91	0.64	1.01	1.9		.6	7	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

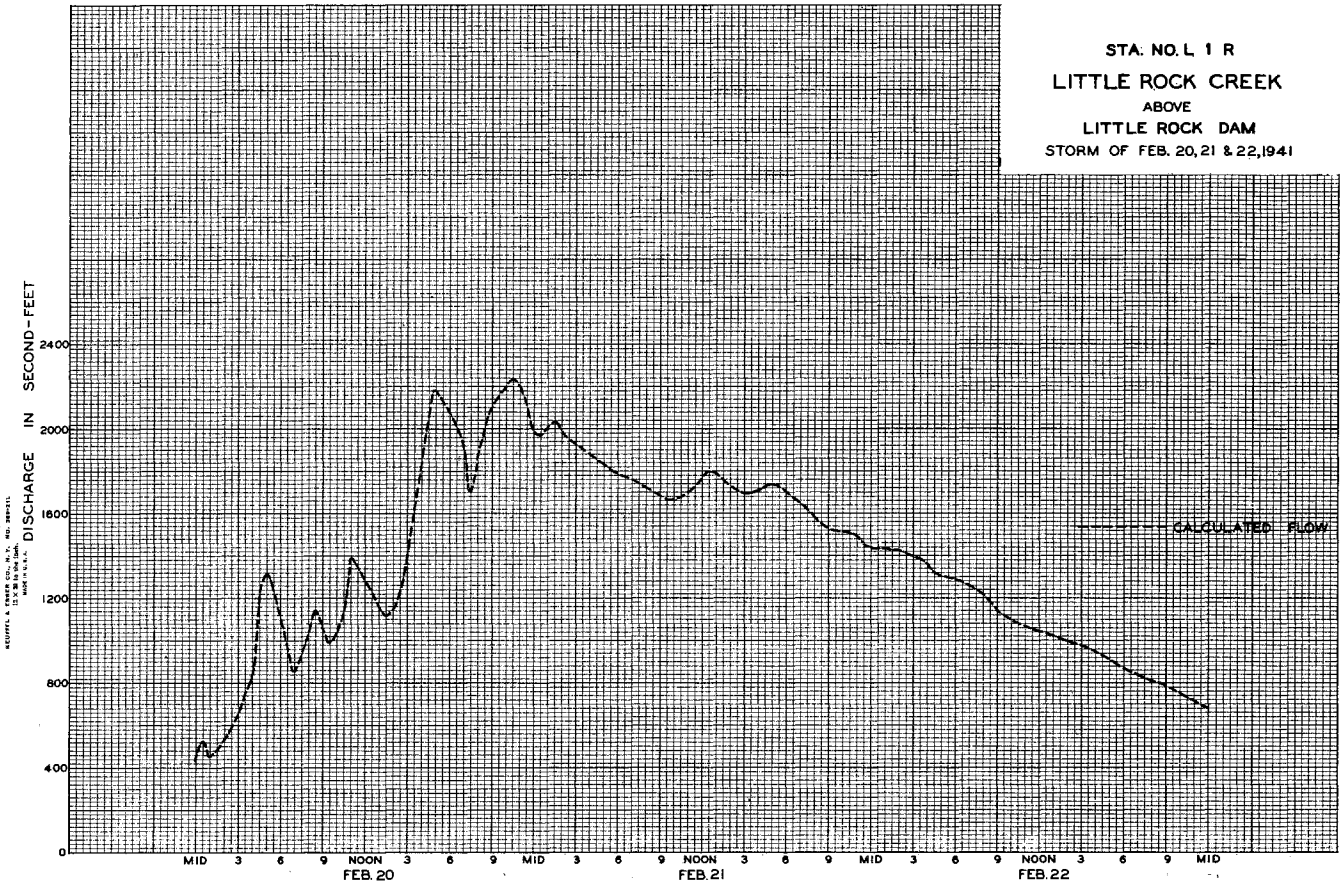
Sta. No L1R

Daily discharge, in second-feet of LITTLE ROCK CREEK above Little Rock Dam for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	14	20	24	550	156	169	43	10	1 35	1 21
2	0	0	15	17	21	316	160	156	42	9.5	34	21
3	0	0	15	16	20	198	147	162	41	9	33	21
4	0	0	15	13	18	353	202	163	38	9	33	21
5	0	0	17	13	17	E 270	E 452	165	36	8.5	32	20
6	0	0	17	12	23	E 225	212	177	33	8	31	20
7	0	0	17	13	20	223	188	171	32	8	30	20
8	0	03	17	16	20	253	177	162	31	7.5	30	20
9	0	05	18	13	20	263	169	147	28	7	29	20
10	0	08	18	15	22	268	164	145	26	7	28	20
11	0	08	18	16	76	271	181	139	25	6.5	28	20
12	0	09	18	16	102	E 400	169	125	23	7	27	20
13	0	09	19	14	76	750	160	116	20	6	27	20
14	0	08	21	13	106	400	173	105	19	6	26	20
15	0	08	21	13	251	300	180	98	18	5.5	26	20
16	0	08	14	12	240	275	175	94	18	5.5	25	20
17	0	09	E124	12	478	250	E 165	91	17	5	25	19
18	0	22	44	11	195	230	162	83	16	5	25	19
19	0	40	30	11	160	215	158	74	16	5	24	19
20	0	25	23	10	1380	200	156	65	15	4.6	24	19
21	0	21	20	10	1730	180	152	64	13	4.4	24	19
22	0	1.7	18	11	1070	170	148	66	12	4.2	1 23	19
23	0	15	81	10	417	160	145	67	12	3.9	E 23	19
24	0	14	E224	20	285	150	143	76	12	3.9	1 23	19
25	0	15	70	25	191	140	139	65	12	E 4.6	22	1 19
26	0	14	30	25	134	130	136	60	12	1 4.4	22	E 19
27	0	12	20	26	120	120	132	57	12	4.2	22	1 19
28	0	12	16	26	266	E 130	129	52	12	4.0	22	19
29	0	14	21	28		162	127	49	11	3.9	22	19
30	0	15	25	28		145	E 157	47	11	3.8	21	1 19
31	0		22	26		147		46		1 3.6	1 21	
	0	311	808.0	511	7482	7844	5114	3256	656	184.5	817	590
MEAN	0	1.04	26.1	16.5	267.	253.	170.	105.	21.9	5.95	2.63	1.97
ACRE-FEET	0	62.	1600.	1010.	14840.	15560.	10140.	6460.	1300.	366.	162.	117.

Remarks: E = estimated. i = interpolated.

YEAR OR PERIOD MEAN 71.3 ACRE FEET 51620.



STATION F67B-R

LITTLE SANTA ANITA CREEK below Sierra Madre Dam

LOCATION:

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

DRAINAGE AREA:

2.4 square miles.

CHANNEL AND CONTROL:

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

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed January 28, 1929 at Station F67R about 1000 feet downstream from present location.
Removed May 20, 1936.
Reinstalled May 21, 1936 in a 4 ft. x 3 ft. combination concrete stilling well and house. Stevens type L recorder was in service from October 1, 1940 to March 20, 1941. An H.C.F. recorder was in service from March 20, 1941 to September 30, 1941.

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, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 75 second-feet, April 4.
Minimum no flow several months during year.
1929-1941
Maximum 620 second-feet, estimated, March 2, 1938.
Minimum no flow several months during 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.

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. F67B-R

DISCHARGE MEASUREMENTS OF LITTLE SANTA ANITA CREEK

at below Sierra Madre Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
108	12-17	238A 244A	Lindsay-Keim	6.0	1.30	2.84	---	3.7		.6	6	---	FC 28
109	12-23	1055A 1102A	" "	6.5	2.19	2.65	0.24	5.8		.6	6	-.01	"
110	12-23	351P 356P	" "	4.0	0.65	1.63	0.11	1.1		.6	5	0	"
111	12-24	820A 828A	" "	Two Channels			0.21	3.6		.6	6	0	"
112	2-11	110P 115P	" "	5.5	1.22	1.31	0.16	1.6		.6	5	0	"
113	2-11	415P 419P	" "	5.0	1.18	1.10	0.10	1.3		.6	5	0	"
114	2-14	622P 627P	" "	Two Channels			0.14	1.8		.6	5	+.01	"
115	2-15	1114A 1118A	Lindsay	" "			0.13	1.6		.6	5	0	"
116	2-15	413P 419P	"	" "			0.24	6.6		.6	7	0	"
117	2-16	950A 955A	Lindsay-Keim	" "			0.20	3.1		.6	5	0	"
118	2-17	1247A 1253A	" "	" "			0.28	10.4		.6	7	-.01	"
119	2-17	655A 700A	" "	" "			0.30	13.6		.6	8	-.01	"
120	2-19	1108A 1116A	Lindsay	" "			0.20	2.8		.6	6	0	"
121	2-20	117A 123A	Lindsay-Keim	9.0	2.86	6.64	0.33	19.1		.6	6	0	"
122	2-20	410P 415P	" "	12.5	3.91	7.16	0.39	27.8		.6	7	0	"
123	2-21	605P 612P	" "	12.5	3.46	8.67	0.40	30.2		.6	7	+.01	"
124	2-22	225P 235P	Haig-Trentham	15.5	3.00	10.4	0.35	33.0	Surf.	8	0		FC 33
125	2-23	1030A 1037A	" "	13.4	2.40	9.70	0.32	24.1	Surf.	8	0		"
126	2-26	148P 154P	Lindsay	5.6	1.31	6.87	0.24	9.0		.6	8	0	FC 28
127	2-28	1123A 1130A	"	Two Channels			0.22	5.7		.6	7	0	"
128	2-28	738P 746P	Lindsay-Keim	12.0	3.53	8.22	0.35	28.6		.6	9	0	"
129	3-1	1125A 1131A	Lindsay-Keim	6.0	2.57	5.45	0.29	13.8		.6	7	0	FC 28
130	3-3	1018A 1026A	Haig	Two Channels			0.28	19.9		.6	9	0	FC 33
131	3-4	810P 817P	Lindsay-Keim	" "			0.50	46.9	Est.	.6	12	0	FC 28
132	3-8	343P 351P	Lindsay-Ingram	" "			0.32	15.1		.6	8	0	"
133	3-14	445P 453P	Lindsay	7.0	2.45	5.31	0.27	13.1		.6	7	0	"
134	3-20	840A 852A	Haig-Green	8.0	1.52	6.58	0.24	10.3	Surf	6	0		FC 19
135	3-24	444P 452P	Haig	Two Channels			0.20	7.6		.6	9	0	FC 33
136	3-27	930A 940A	"	" "			0.22	7.1	Surf	.6	12	0	"
137	3-28	1128P 1140P	Ingram-Reilly	7.2	1.88	5.32	0.22	10.0		.6	7	0	FC 18
138	3-31	354P 400P	Lindsay-Keim	6.3	1.35	4.37	0.19	5.9		.6	8	0	FC 28
139	4-3	1010A 1016A	Haig	6.5	1.79	4.11	0.18	7.4		.6	8	0	FC 33
140	4-4	1130P 1140P	Lindsay-Keim	Two Channels			0.32	28.1		.6	10	-.02	FC 28
141	4-5	1215P 1223P	" "	" "			0.24	15.3		.6	10	0	"
142	4-17	502P 510P	Haig	6.5	1.70	4.82	0.21	8.2		.6	6	0	FC 33
143	4-23	1230P 1256P	Lindsay	5.0	1.65	2.97	0.18	4.9		.6	5	+.01	FC 28
144	4-28	1130A 1143A	"	5.2	1.32	3.48	0.14	4.6		.6	6	0	"
145	4-30	300P 308P	"	6.5	2.28	5.26	0.25	12.0		.6	6	0	"
146	5-8	925A 935A	Green	4.0	1.27	2.60	---	3.3		.6	8	---	FC 19
146A	5-12	1114A 1120A	Lindsay	4.3	1.62	1.73	0.12	2.8		.6	6	0	FC 28
147	5-15	857A 907A	Green	4.0	1.28	1.95	---	2.5		.6	8	---	FC 19
148	5-19	1256P 105P	Lindsay	4.3	1.30	1.54	0.10	2.0		.6	5	0	FC 28
149	5-26	1212P 1217P	"	4.2	0.99	1.01	---	0.98		.6	5	---	"
150	6-2	1125A 1130A	"	2.2	0.48	1.67	---	0.81		.6	4	---	"
151	6-9	945A 955A	"	2.3	0.42	1.31	---	0.55		.6	5	---	"
152	6-16	1058A 1100A	"	0.7	0.14	1.50	---	0.21		.6	1	---	"
153	6-25	1056A 1057A	Lindsay	0.6	0.05	0.80	---	0.04		.6	1	---	FC 28

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

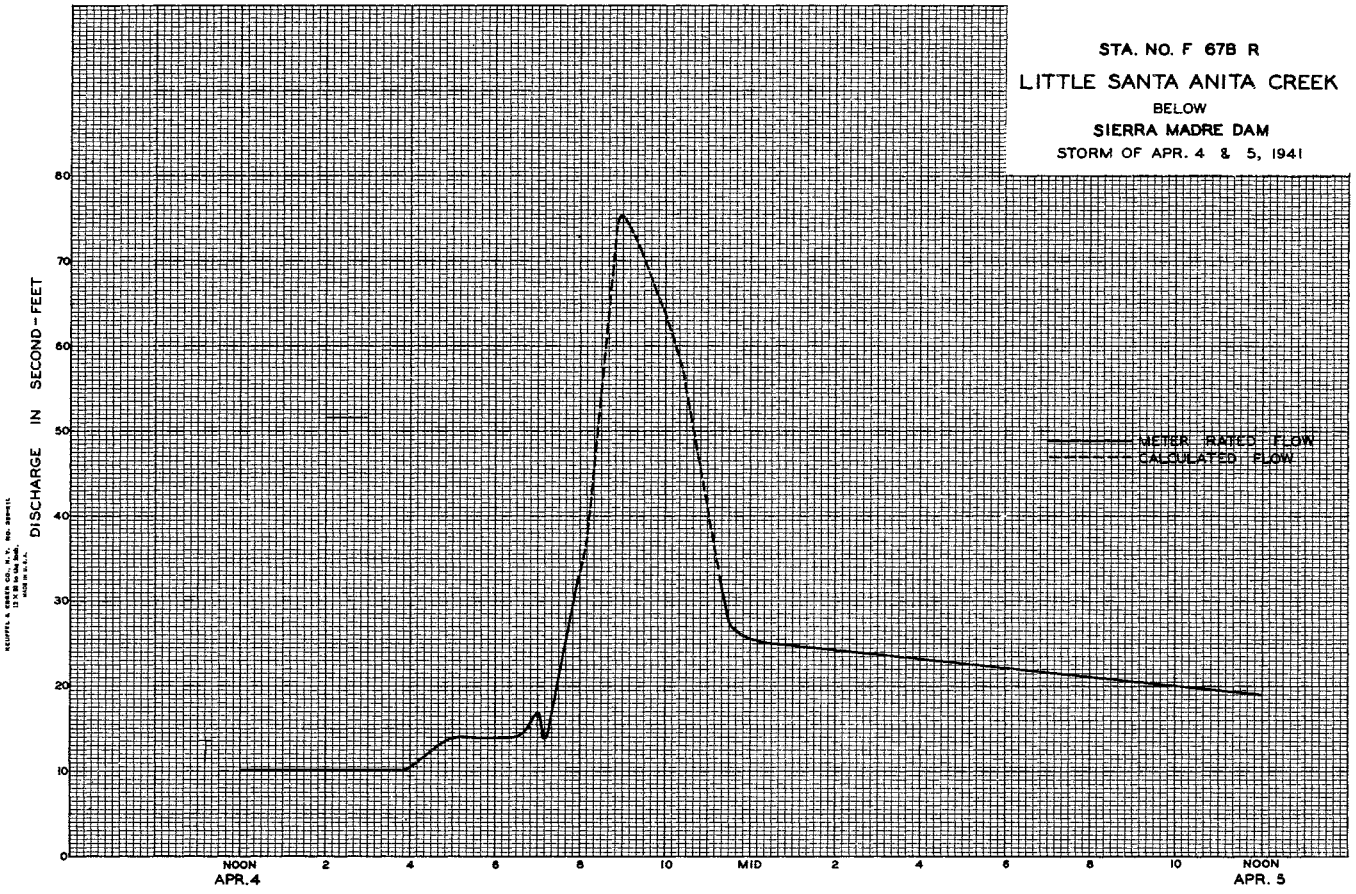
Sta. No. F67B-R

Daily discharge, in second-feet of LITTLE SANTA ANITA CREEK below Sierra Madre Dam, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	13	7	7	0.8	+	+	0
2	0	0	0	0	0	19	8	6.5	0.8	+	+	0
3	0	0	0	0	0	24	9	6	0.8	+	+	0
4	0	0	0	0	0	42	18	5	0.7	+	+	0
5	0	0	0	0	0	38	19	3.8	0.7	+	+	0
6	0	0	0	0	0	24	13	3.8	0.7	+	+	0
7	0	0	0	0	0	16	13	4.4	0.6	+	+	0
8	0	0	0	0	0	14	13	3.2	0.6	+	+	0
9	0	0	0	0	0	14	11	3.2	0.6	+	+	0
10	0	0	0	0	0	11	13	3.2	0.6	+	+	0
11	0	0	0	0	0.6	8	20	2.7	0.5	+	+	0
12	0	0	0	0	0.7	20	16	2.7	0.4	+	+	0
13	0	0	0	0	0.4	16	14	2.2	0.4	+	+	0
14	0	0	0	0	1.2	13	13	2.2	0.3	+	+	0
15	0	0	0	0	3.2	10	10	1 2.2	0.2	+	+	0
16	0	0	0	0	4.8	10	9	1 2.2	0.2	+	0	0
17	0	0	1.3	0	10	10	9	1 1.9	0.2	+	0	0
18	0	0	0.3	0	4.4	10	10	1 1.9	0.2	+	0	0
19	0	0	0	0	7.5	10	9	1.9	0.2	+	0	0
20	0	0	0	0	25	9	8	1.9	0.1	+	0	0
21	0	0	0	0	27	8	7	1.8	0.1	+	0	0
22	0	0	0	0	36	8	6.5	1.7	0.1	+	0	0
23	0	0	1.1	0	24	8	5	1.5	+	+	0	0
24	0	0	1.5	+	20	7	4.4	1.4	+	+	0	0
25	0	0	0.5	0	14	6.5	4.4	1.2	+	+	0	0
26	0	0	0.2	0	10	6.5	4.4	1.0	+	+	0	0
27	0	0	0.1	0	7	7	4.4	1.0	+	+	0	0
28	0	0	+	0	15	7	4.4	1.0	+	+	0	0
29	0	0	0	0		7	4.4	0.9	+	+	0	0
30	0	0	0	0		3.8	12	0.9	+	+	0	0
31	0		0	0		4.9		0.8		+	0	
	0	0	5.0	+	210.8	404.7	298.9	81.1	9.8	+	+	0
MEAN	0	0	0.16	+	7.53	13.1	9.96	2.62	0.33	+	+	0
ACRE-FEET	0	0	9.9	+	418.	803.	593.	161.	19.	+	+	0

Remarks: 1 = interpolated. + 0.05 c.f.s. or less.

YEAR OR PERIOD MEAN 2.77 ACRE FEET 2000.



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, 1940 to September 30, 1941.

REGULATION:

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

DIVERSIONS:

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

EXTREMES OF DISCHARGE:

1940-1941
Maximum not determined.
Minimum no flow most of year.
1938-1941
Maximum not determined.
Minimum not determined.

ACCURACY:

Poor.
Communication to stilling well was very unreliable due to excessive sand in channel.

OPERATION:

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

REMARKS:

This station record is not published due to insufficient reliable records during this period.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F267R

DISCHARGE MEASUREMENTS OF LITTLE SANTA ANITA CREEK

AT Woodland Avenue DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
19	12-18	438P 444P	Lindsay	10.0	2.52	4.84	0.34	12.2		.6	5	-.05	FC 28
20	12-24	850A 855A	Lindsay-Keim	10.0	0.96	4.01	0.09	3.8		.6	5	-.02	"
21	2-19	845P 851P	Lindsay-	10.0	3.80	8.42	0.36	31.7		.6	4	0	"
22	2-25	447P 455P	Haig	10.0	2.05	5.85	0.20	11.8		.6	6	0	FC 33
23	2-28	650P 653P	Lindsay-Keim	10.0	4.84	9.81	0.59	47.5		.6	4	+.01	FC 28
24	3-2	1152A 1200N	Haig	10.0	2.88	7.24	0.27	21.2		.6	6	0	FC 33
25	3-13	200A 213A	Ingram-Keim	9.7	3.00	7.67	0.49	22.6		.6	7	0	FC 28
26	3-28	1030P 1050P	Ingram-Reilly	10.0	3.72	8.33	0.44	31.2		.6	10	0	FC 18
27	4-11	122A 135A	" "	10.0	3.37	8.69	0.28	29.3		.6	7	0	FC 18
28	4-23	1042A 1050A	Lindsay	10.0	1.44	5.28	0.13	7.6		.6	5	0	FC 28

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, 1940 to September 30, 1941.

REGULATION:

None.

DIVERSIONS:

None known.

RECORDS AVAILABLE:

December 26, 1928 to September 30, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 1310 second-feet March 4.
Minimum no flow part of year.
1929-1941
Maximum 8500 second-feet, estimated, March 2, 1938.
Minimum no flow part of each year.

ACCURACY:

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

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. F19R

DISCHARGE MEASUREMENTS OF LITTLE TUJUNGA WASH

AT Foothill Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
189	12-17	340A	350A	Luce-Pardieck	31.0	12.6	3.69	3.77	46.4		.6	9	-.05	FC 39
190	12-17	355A	405A	" "	31.0	10.5	3.51	3.73	36.7		.6	10	-.04	"
191	12-23	745A	750A	" "	18.0	6.48	4.68	3.57	30.3		.6	9	-.04	"
192	12-23	907A	915A	" "	47.0	18.2	6.21	3.82	113.		.6	12	+.16	"
193	12-23	931A	938A	" "	64.5	27.4	5.79	3.98	158.		.6	12	+.03	"
194	12-23	955A	1005A	" "	63.5	20.9	5.70	3.95	119.		.6	13	-.06	"
195	12-24	1045A	1100A	Luce	Three Channels			3.65	31.1		.6	16	+.02	"
196	1-24	710A	715A	Luce-Pardieck	24.4	9.23	4.80	3.66	44.3		.6	9	-.03	"
197	2-6	715A	725A	" "	57.0	28.9	5.32	3.93	154.		.6	15	-.06	"
198	2-6	735A	745A	" "	54.0	24.8	5.03	3.85	125.		.6	14	-.10	"
199	2-6	750A	802A	" "	54.0	20.5	4.85	3.78	99.4		.6	14	-.06	"
200	2-11	620P	635P	Luce-Truitt	41.5	13.6	4.47	3.82	60.8		.6	10	-.04	"
201	2-12	1200N	1207P	Luce	21.0	4.75	2.89	3.53	13.7		.6	8	-.02	"
202	2-13	440P	445P	Luce-Pardieck	Two Channels			3.51	3.1		.6	9	+.02	"
203	2-14	413P	421P	" "	34.0	10.5	3.46	3.66	36.4		.6	12	+.04	"
204	2-14	439P	446P	" "	Two Channels			3.67	34.1		.6	10	-.08	"
205	2-14	842P	848P	" "	" "			3.59	28.9		.6	10	0	"
206	2-15	1045A	1053A	" "	33.5	9.66	4.24	3.63	40.1		.6	11	+.03	"
207	2-15	135P	145P	Luce-Pardieck	Two Channels			3.88	122.		.6	11	+.05	FC39
208	2-16	1250P	1256P	Bollinger & Rickart	17.0	4.54	3.49	---	15.8		.6	8	-.01	FC 6
209	2-16	750P	803P	Luce-Pardieck	57.8	28.2	5.62	3.96	158.		.6	13	+.11	FC 39
210	2-16	810P	823P	" "	57.0	28.8	5.98	4.02	172.		.6	13	+.04 -.13	"
211	2-16	832P	848P	" "	56.5	26.8	5.72	3.90	153.		.6	13	-.10	"
212	2-17	630A	640A	" "	55.5	27.8	6.24	4.00	174.		.6	12	-.12	"
213	2-17	732P	743P	Luce	43.5	13.9	4.26	3.72	59.4		.6	14	0	FC 39
214	2-20	718A	734A	Luce-Pardieck	61.0	27.5	5.49	3.85	151.		.6	12	-.06 +.12	"
215	2-20	755A	805A	" "	59.0	27.5	5.70	3.87	157.		.6	12	+.02	"
216	2-21	1055A	1105A	" "	49.5	31.2	5.86	3.96	184.		.6	12	-.01	"
217	2-22	905A	915A	" "	50.0	30.1	5.35	3.97	161.		.6	12	-.02	"
218	2-23	908P	918P	" "	Three Channels			3.74	58.0		.6	13	+.01	"
219	2-24	1122A	1136A	" "	Two Channels			3.87	83.2		.6	14	0	"
220	2-24	129P	140P	" "	58.5	31.4	4.94	4.01	155.		.6	17	-.02	"
221	2-24	148P	201P	" "	59.0	29.5	5.51	4.04	157.		.6	16	+.02	"
222	2-25	1218P	1222P	" "	25.0	10.3	3.63	3.85	37.2		.6	9	0	"
223	2-27	325P	335P	Luce	Two Channels			3.71	22.4		.6	12	+.06	"
224	2-28	644P	725P	Luce Pardieck	68.0	66.8	6.53	4.48	436.		.6	13	-.04	FC 41
225	3-1	1024A	1043A	" "	Two Channels			4.14	159.		.6	18	0	FC 39
226	3-4	1245P	120P	" "	Four "			4.94	1130.		.6	21	+.14 -.09	FC 41
227	3-4	445P	513P	" "	Three "			4.43	507.		.6	15	-.05 +.01	"
228	3-4	534P	617P	" "	" "			4.57	523.		.6	18	+.15	"
229	3-5	721P	738P	" "	Two "			3.77	180.		.6	18	+.08	FC 39
230	3-7	658P	705P	" "	27.5	13.7	5.62	3.62	76.8		.6	9	0	"
231	3-12	356P	414P	" "	Two Channels			3.97	181.		.6	17	+.02	"
232	3-14	1025A	1035A	Luce	18.5	6.24	5.29	3.61	33.2		.6	8	+.02 -.02	"
233	3-22	600P	610P	"	19.0	4.07	3.68	3.61	15.3		.6	8	+.06	"
234	3-27	105P	115P	"	5.5	3.83	2.87	3.30	11.3		.6	6	0	"
235	3-29	540A	555A	Luce-Pardieck	Two Channels			3.70	59.1		.6	12	+.08	"
236	3-30	1126A	1132A	" "	30.0	6.00	2.67	3.56	16.1		.6	9	0	"
237	3-31	629P	636P	Luce-Pardieck	Three Channels			3.70	46.4		.6	13	0	FC 39
238	4-1	640A	655A	" "	" "			3.78	86.4		.6	20	0	"
239	4-4	153P	157P	" "	12.5	5.49	4.74	3.45	25.8		.6	7	0	"
240	4-5	305A	313A	" "	33.8	17.4	6.08	3.80	106.		.6	11	0	"
241	4-8	505P	515P	Luce-B.Luce	18.5	7.07	4.95	3.57	35.1		.6	10	-.02	"
242	4-10	225P	245P	" "	24.5	8.84	3.85	3.54	33.8		.6	9	0	"
243	4-11	935A	945A	Luce	35.0	13.6	6.03	3.73	81.6		.6	11	+.04	"
244	4-12	519P	526P	Luce-Pardieck	45.5	13.2	4.92	3.75	65.0		.6	12	-.02	"
245	4-17	427P	437P	Luce	29.0	9.68	2.79	3.42	27.2		.6	9	0	"
246	4-25	1018A	1028A	"	13.5	5.49	3.28	3.35	18.3		.6	7	0	"
247	4-30	1100A	1106A	Luce-Pardieck	21.0	14.5	4.41	3.58	63.6		.6	9	-.04	"
248	5-2	145P	158P	Luce	13.5	5.27	3.22	3.35	16.9		.6	7	0	"
249	5-8	745A	755A	"	13.2	4.86	2.26	3.32	11.4		.6	7	0	"
250	5-14	308P	320P	Haig	11.3	3.90	1.66	3.29	6.3		.6	7	0	FC 44
251	5-23	840A	850A	Luce	12.2	3.85	1.35	3.28	5.2		.6	8	0	FC 39
252	5-29	810A	825A	Turner	11.0	3.20	1.38	3.25	4.4		.6	11	0	FC 5
253	6-4	810A	825A	"	11.0	2.97	1.21	3.20	3.6		.6	11	0	"
254	6-11	855A	910A	"	10.7	2.82	1.06	3.20	3.0		.6	11	0	"
255	6-19	915A	925A	"	5.5	1.81	1.05	3.18	1.9		.6	6	0	"
256	6-25	855A	905A	"	5.5	1.84	0.87	3.21	1.6		.6	6	0	"
257	7-2	145P	155P	"	5.5	1.46	0.68	3.15	1.0		.6	6	0	"
258	7-9	935A	945A	"	5.4	1.30	0.54	3.10	0.70		.6	6	0	"
259	7-16	635A	640A	Luce	5.0	0.88	0.91	3.07	0.80		.6	6	0	FC 39
260	7-24	925A	930A	"	3.5	0.45	1.22	3.04	0.55		.6	5	0	"
261	7-31	812A	815A	Luce	3.7	0.62	1.02	3.04	0.63		.6	5	0	FC 39
262	8-13	1030A	1035A	Turner	1.7	0.23	0.65	3.00	0.15		.6	4	0	FC 5
263	8-28	1005A	1010A	Luce	2.0	0.20	0.50	2.95	0.10		.6	2	0	FC 39

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

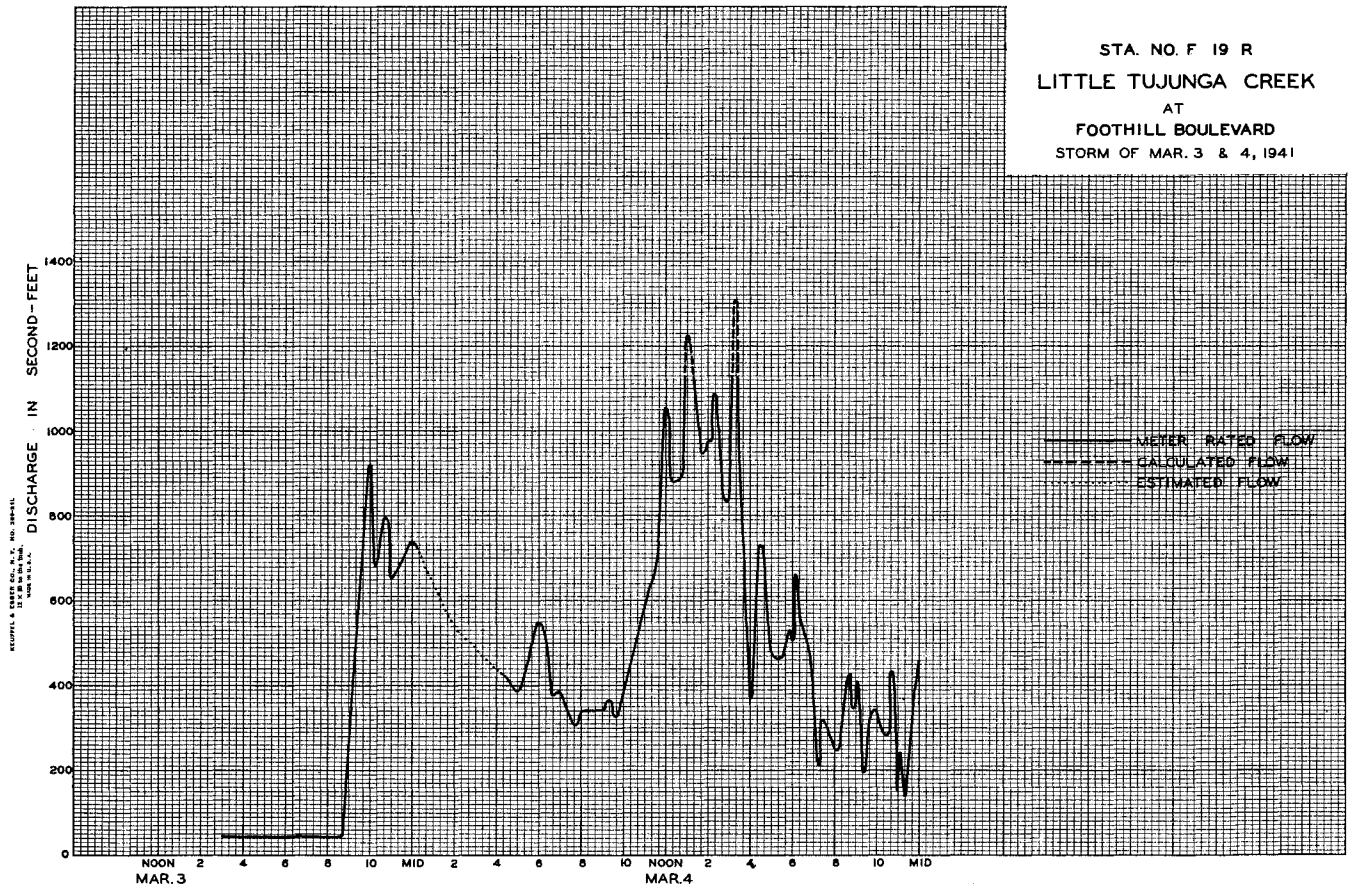
Sta. No. F19R

Daily discharge, in second-feet of LITTLE TUJUNGA CREEK at Foothill Boulevard, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	140	66	34	33	11	02	01
2	0	0	0	0	0	82	58	18	37	16	03	01
3	0	0	0	0	0	126	E 24	18	41	06	04	01
4	0	0	0	0	0	534	73	17	41	05	02	01
5	0	0	0	0	0	263	73	15	41	05	03	01
6	0	0	0	0	16	98	E 51	16	44	03	02	01
7	0	0	0	0	+	86	E 45	11	44	03	01	01
8	0	0	0	0	+	79	E 43	9	41	03	01	01
9	0	0	0	0	0	86	46	8.5	33	04	01	01
10	0	0	0	0	+	73	47	8.5	23	06	03	01
11	0	0	0	0	30	83	87	7.5	23	06	03	01
12	0	0	0	0	13	95	65	8.5	20	06	02	01
13	0	0	0	0	5.5	E 49	22	7.5	21	06	01	01
14	0	0	0	0	11	50	22	7.5	25	05	01	01
15	0	0	0	0	46	51	27	7	23	05	01	01
16	0	0	0.3	0	52	45	29	7	21	05	01	01
17	0	0	43	0	130	39	29	7	20	05	01	01
18	0	0	+	0	89	34	26	6.5	20	05	01	01
19	0	0	0	0	108	29	24	6	18	03	01	01
20	0	0	0	0	198	24	22	5.5	16	04	01	01
21	0	0	0	0	178	21	19	5.5	14	03	01	01
22	0	0	0	0	171	18	19	5	12	03	01	01
23	0	0	17	0	65	E 37	18	4.8	09	04	01	01
24	0	0	9	5.5	79	E 49	17	4.1	11	05	01	01
25	0	0	0	0.2	39	E 33	17	3.7	11	06	02	01
26	0	0	0	0.7	26	E 21	18	3.3	12	07	03	01
27	0	0	0	0	20	E 12	18	3.7	14	06	02	01
28	0	0	0	0	118	20	19	4.1	11	07	01	01
29	0	0	0	0		69	21	4.1	12	06	02	01
30	0	0	0	0		E 14	44	3.7	14	05	01	01
31	0		0	0		53		3.7		04	01	
	0	0	693	6.4	13945	2413	1089	270.7	705	168	51	30
MEAN	0	0	2.24	0.21	49.8	77.8	36.3	8.73	2.35	0.54	0.16	0.10
ACRE-FEET	0	0	137.	13.	2770.	4790.	2160.	537.	140.	33.	10.	6.0

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

YEAR OR PERIOD — MEAN 14.6 — ACRE-FEET 10600.



STATION F31R

LIVE OAK CREEK above Mouth of Canyon

LOCATION:

On the right(west) bank of stream near mouth of canyon, about 1/2 mile below Live Oak Dam, and about 2 miles northeast of La Verne.

DRAINAGE AREA:

2.6 square miles.

CHANNEL AND CONTROL:

Channel-sand, gravel and rocks.
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 March 18, 1941 to September 30, 1941.

REGULATION:

Flow regulated by Live Oak Dam.

DIVERSIONS:

None.

RECORDS AVAILABLE:

January 4, 1928 to September 30, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 28. second feet March 5.
Minimum no flow for most of year.
1928-1941
Maximum 257 second-feet March 2, 1938.
Minimum no flow most of each year.

ACCURACY:

Good.
Estimated for partial days due to recorder failure during period of known flow.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F31R

DISCHARGE MEASUREMENTS OF LIVE OAK CREEK

at above Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
35	12-24	1045A 1050A	Brewster-Smith	4.0	1.23	0.51	0.22	0.63		.6	5	0	FC24
36	2-14	940A 944A	" "	0.5	0.11	0.18	0.02	0.02		.6	1	-.01	"
37	2-17	303P 306P	" "	0.5	0.11	0.45	0.03	0.05		.6	1	0	"
38	2-19	1015P 1025P	" "	10.0	3.32	1.41	0.74	4.7		.6	5	-.01	"
39	2-20	710A 720A	" "	7.0	1.68	0.96	0.34	1.6		.6	4	0	"
40	-2-20	344P 350P	" "	8.0	1.84	0.83	0.34	1.5		.6	4	-.01	"
41	2-21	754A 800A	" "	6.0	1.36	1.10	0.39	1.5		.6	4	+.02	"
42	2-22	910A 915A	" "	3.0	0.64	0.83	0.20	0.53		.6	3	-.01	"
43	2-22	735P 745P	Brewster	7.5	5.39	1.59	1.04	8.6		.6	8	0	"
44	2-23	500P 510P	Brewster-Smith	7.0	2.64	1.24	0.72	3.3		.6	7	0	"
45	2-24	411P 415P	Brewster	2.0	0.36	1.00	0.17	0.36		.6	3	0	"
46	2-25	430P 435P	"	1.0	0.16	0.62	0.08	0.10		.6	2	0	"
47	2-26	325P 335P	"	9.5	2.43	1.73	0.80	4.2		.6	10	0	"
48	2-28	520P 530P	Brewster-Smith	9.0	3.41	1.24	0.89	4.3		.6	5	+.02	"
49	2-28	925P 935P	" "	8.0	3.23	1.43	0.80	4.6		.6	5	0	"
50	3-1	830A 840A	" "	10.0	5.34	1.92	1.08	10.3		.6	6	0	"
51	3-2	830A 838A	" "	9.0	3.72	1.55	0.96	5.8		.6	6	0	"
52	3-3	1055A 1105A	Brewster	13.0	5.41	2.49	1.23	12.9		.6	7	0	"
53	3-3	1115P 1125P	Brewster-Smith	9.0	5.36	1.77	1.13	9.5		.6	5	+.02	"
54	3-4	830A 840A	" "	10.0	4.99	1.77	1.06	8.8		.6	6	0	"
55	3-4	1100A 1110A	" "	14.0	7.24	2.38	1.26	17.3		.6	7	0	"
56	3-4	850P 905P	" "	14.0	7.75	2.90	1.39	22.5		.6	8	-.02	"
57	3-5	920A 930A	" "	15.0	8.88	3.36	1.40	28.0		.6	8	0	"
58	3-5	320P 330P	" "	16.0	10.4	2.55	1.38	26.4		.6	8	0	"
59	3-7	320P 330P	Brewster	8.0	4.30	2.18	1.12	9.4		.6	8	0	FC 24
60	3-10	1012A 1020A	"	7.0	3.55	0.82	0.54	2.9		.6	5	0	"
61	3-12	930A 940A	"	9.0	5.56	1.99	1.12	11.1		.6	9	0	"
62	3-12	605P 610P	Brewster-Smith	6.0	2.20	1.42	0.52	3.1		.6	3	-.04	"
63	3-13	850A 900A	" "	8.0	4.30	2.15	1.10	9.3		.6	6	-.01	"
64	3-13	620P 630P	" "	12.0	9.40	3.26	1.36	30.7		.6	6	0	"
65	3-14	1203P 1215P	" "	10.0	6.64	2.17	1.25	14.4		.6	9	0	"
66	3-15	400P 410P	" "	6.0	2.78	1.90	0.80	5.3		.6	6	0	"
67	3-19	345P 355P	Brewster	7.0	3.14	1.45	0.71	4.6		.6	7	0	"
68	3-26	415P 420P	"	1.5	0.23	0.52	0.08	0.12		.6	3	0	"
69	3-28	1047P 1055P	"	4.0	0.72	0.82	0.18	0.59		.6	4	-.01	"
70	3-29	908A 913A	Brewster-Smith	4.0	0.68	0.71	0.18	0.48		.6	4	0	"
71	3-31	1135A 1140A	" "	4.0	0.88	0.75	0.24	0.66		.6	4	0	"
72	3-31	1052P 1058P	" "	8.0	3.00	0.98	0.54	3.0		.6	4	0	"
73	4-2	244P 250P	Brewster	4.0	0.94	0.83	0.22	0.78		.6	4	-.01	"
74	4-7	420P 430P	"	8.0	3.36	0.99	0.57	3.3		.6	4	0	"
75	4-9	230P 238P	"	7.0	2.52	1.14	0.53	2.9		.6	4	0	"
76	4-11	900A 906A	"	4.0	0.86	0.77	0.20	0.66		.6	4	0	"
77	4-16	330P 336P	"	4.0	1.00	1.19	0.35	1.2		.6	4	0	"
78	4-23	222P 230P	"	4.0	1.06	0.90	0.32	0.95		.6	4	0	"
79	4-30	1240P 1246P	"	4.0	0.98	0.71	0.18	0.70		.6	4	0	"
80	5-2	408P 415P	"	5.0	1.40	1.00	0.38	1.4		.6	5	0	"
81	5-7	420P 428P	"	5.0	1.52	1.05	0.36	1.6		.6	5	0	"
82	5-14	110P 120P	"	5.0	1.30	1.00	0.36	1.3		.6	5	0	"
83	5-21	254P 300P	Brewster	5.0	1.46	0.90	0.35	1.3		.6	5	0	FC 24
84	5-28	200P 208P	"	5.0	1.46	0.89	0.34	1.3		.6	5	0	"
85	6-4	252P 300P	"	5.0	1.36	0.81	0.31	1.1		.6	5	0	"
86	6-11	840A 846A	"	5.0	1.58	0.89	0.35	1.4		.6	5	0	"
87	6-18	140P 150P	"	5.0	1.64	0.79	0.33	1.3		.6	5	0	"
88	6-25	1227P 1230P	"	1.0	0.12	0.08	0.01	0.01		.6	2	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No F31R

Daily discharge, in second-feet of LIVE OAK CREEK above Mouth of Canyon, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	6.5	1.5	1.4	1.1	0	0	0
2	0	0	0	0	0	6	1.0	1.4	1.1	0	0	0
3	0	0	0	0	0	9	2.1	1.4	1.1	0	0	0
4	0	0	0	0	0	14	3.6	1.5	1.1	0	0	0
5	0	0	0	0	0	25	5	1.6	1.1	0	0	0
6	0	0	0	0	0	27	2.5	1.6	1.1	0	0	0
7	0	0	0	0	0	15	4.8	1.6	1.1	0	0	0
8	0	0	0	0	0	2.9	3.1	1.6	1.2	0	0	0
9	0	0	0	0	0	0.4	3.0	1.6	1.2	0	0	0
10	0	0	0	0	0	2.0	3.4	1.5	1.4	0	0	0
11	0	0	0	0	+	7	2.5	1.4	1.4	0	0	0
12	0	0	0	0	0	6	5.5	1.4	1.4	0	0	0
13	0	0	0	0	0	21	1.2	1.3	1.4	0	0	0
14	0	0	0	0	+	14	4.9	1.3	1.5	0	0	0
15	0	0	0	0	0.1	5.5	4.8	1.3	1.5	0	0	0
16	0	0	0	0	+	7.5	2.4	1.3	1.4	0	0	0
17	0	0	0	0	0.1	10	1.2	1.3	1.3	0	0	0
18	0	0	0	0	0	10	1.0	1.3	1.3	0	0	0
19	0	0	0	0	1.3	8	1.0	1.3	1.2	0	0	0
20	0	0	0	0	E 7	3.4	1.0	1.3	1.5	0	0	0
21	0	0	0	0	E 7.5	2.3	1.0	1.3	1.6	0	0	0
22	0	0	0	0	3.0	2.1	1.0	1.2	1.2	0	0	0
23	0	0	0	0	3.5	1.9	0.9	1.3	0.4	0	0	0
24	0	0	0.3	0	1.5	1.7	1.0	1.2	0.1	0	0	0
25	0	0	0	0	0.2	1.2	1.0	1.3	+	0	0	0
26	0	0	0	0	2.3	0.2	1.0	1.3	0	0	0	0
27	0	0	0	0	3.9	0.1	1.0	1.3	0	0	0	0
28	0	0	0	0	3.2	0.2	1.0	1.3	0	0	0	0
29	0	0	0	0		0.7	1.0	1.3	0	0	0	0
30	0	0	0	0		0.2	0.9	1.3	0	0	0	0
31	0		0	0		0.8		1.2		0	0	
	0	0	0.3	0	35.6	211.6	65.3	42.4	28.7	0	0	0
MEAN	0	0	0.01	0	1.27	6.83	2.18	1.37	0.96	0	0	0
ACRE-FEET	0	0	0.60	0	71.	420.	130.	84.	57.	0	0	0

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

YEAR OR PERIOD MEAN 1.05 ACRE-FEET 763.

STATION F5R and F5B-R

LOS ANGELES RIVER at Van Nuys Boulevard
and
LOS ANGELES RIVER below Sepulveda Boulevard

LOCATION:

F5R:
On the downstream side of Van Nuys Boulevard bridge about 2 miles south of Van Nuys.
F5B-R:
On the left (north) bank about 700 feet below Sepulveda Boulevard and about 1/2 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 F5R:
Low flows measured by wading.
High flows measured from highway bridge.
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" diameter, corrugated iron pipe stilling well. Communication to well is thru 31 feet of 36" corrugated iron pipe. An E.C.F. continuous recorder was in service from October 1, 1940 to September 30, 1941.

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, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 6610 second-feet, February 20.
Minimum 2.9 second-feet, various times.
1929-1941
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:

Station F5R:
Located, constructed and operated by the Los Angeles County Flood Control District.
Station F5B-R:
Located and constructed by the U.S. Engineer Dept. Operated by the U.S. Engineer Dept. and 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. F5R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

AT Van Nuys Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
218	10-3	220P / 226P	Bollinger	6.8	3.30	1.21	6.09	4.0		.6	7	0	FC 6
219	10-10	325P / 333P	"	6.2	3.06	1.23	6.09	3.8		.6	7	0	"
220	10-17	315P / 322P	"	6.2	2.71	1.07	6.09	2.9		.6	6	0	"
221	10-24	228P / 235P	"	6.2	3.28	1.27	6.14	4.2		.6	7	0	"
222	10-31	415P / 422P	"	6.2	3.15	1.04	6.09	3.3		.6	8	0	"
223	11-7	415P / 425P	"	6.2	2.86	1.17	6.18	3.4		.6	8	0	"
224	11-14	300P / 308P	"	7.0	3.52	0.96	6.16	3.4		.6	8	0	"
225	11-20	412P / 420P	"	6.5	2.98	1.08	6.01	3.2		.6	7	0	"
226	11-28	253P / 300P	"	6.3	4.40	1.28	6.14	5.6		.6	7	0	"
227	12-5	445P / 456P	"	6.8	3.99	1.38	6.16	5.5		.6	7	0	"
228	12-12	323P / 333P	"	6.2	4.84	1.27	6.35	6.1		.6	7	0	"
229	12-16	140P / 148P	Bollinger & Rickart	12.5	19.8	1.84	7.32	36.5		.6	8	-.04	"
230	12-19	608P / 623P	Bollinger	13.0	21.3	1.95	7.52	41.6		.6	7	-.03	"
231	1-2	620P / 628P	"	6.3	5.78	1.06	6.24	6.1		.6	6	0	"
232	1-9	505P / 515P	"	7.7	10.8	0.79	6.32	8.6		.6	7	0	"
233	1-16	422P / 430P	"	6.5	8.09	0.62	6.21	5.0		.6	7	0	"
234	1-23	233P / 240P	"	8.3	5.50	1.14	6.24	6.2		.6	7	0	"
235	1-30	217P / 225P	"	8.2	3.85	1.62	6.20	6.2		.6	8	-.01	"
236	2-11	124P / 141P	Bollinger & Rickart	Two Channels			10.36	367.		.6	10	+.21	"
237	2-13	315P / 323P	Bollinger	18.2	47.0	1.50	7.83	70.5		.6	4	+.01	"
238	3-6	410P / 423P	"	35.2	74.9	1.77	8.33	133.		.6	8	-.01	"
239	3-11	305P / 315P	"	14.3	21.3	1.29	6.68	27.6	Sur.		9	0	"
240	3-12	928P / 1000P	Bollinger & Rickart	Two Channels			10.31	421.		.6	13	-.22	"
241	3-20	345P / 400P	Bollinger	14.0	15.0	1.76	6.50	26.4		.6	9	0	"
242	3-27	300P / 310P	Bollinger	22.6	18.7	1.05	6.23	19.6		.6	11	0	FC 6
243	4-2	250P / 315P	"	35.3	43.4	2.13	7.92	92.5		.6	13	-.05	"
244	4-5	128A / 156A	Bollinger & Rickart	Two Channels			11.45	687.		.6	13	-.10	"
245	4-10	333P / 345P	Bollinger	26.2	42.3	1.46	7.38	62.0		.6	11	-.10	"
246	4-11	755A / 815A	Bollinger & Rickart	Two Channels			9.57	274.		.6	11	-.12	"
247	4-17	422P / 432P	Bollinger	22.6	17.1	1.32	6.28	22.7		.6	9	0	"
248	4-24	225P / 237P	"	20.8	11.5	1.28	6.08	14.7		.6	10	0	"
249	4-30	453P / 502P	"	26.1	45.6	1.46	7.40	66.7		.6	11	-.01	"
250	5-8	230P / 240P	"	18.1	12.4	1.25	6.00	15.4		.6	9	0	"
251	5-15	233P / 240P	Bollinger	19.9	11.0	1.37	5.99	15.0		.6	8	0	FC 6
252	5-22	306P / 316P	"	15.7	11.1	1.08	5.95	11.8		.6	8	0	"
253	5-29	600P / 610P	"	19.5	9.72	1.34	5.96	12.8		.6	9	0	"
254	6-5	235P / 245P	"	19.8	10.0	1.30	5.98	13.4		.6	10	0	"
255	6-12	805A / 817A	"	19.8	9.36	1.28	5.93	12.1		.6	10	0	"
256	6-19	1237P / 1250P	"	21.4	9.63	1.17	5.94	10.7		.6	11	0	"
257	6-26	1055A / 1105A	"	10.7	9.70	1.12	5.93	11.2		.6	9	0	"
258	7-3	228P / 236P	"	13.3	11.8	1.27	6.05	14.6		.6	7	0	"
259	7-10	210P / 220P	"	13.5	9.97	1.20	6.02	12.3		.6	10	-.01	"
260	7-17	255P / 303P	"	11.2	8.33	1.32	6.06	10.7		.6	8	0	"
261	7-24	256P / 308P	"	11.5	9.78	1.23	6.16	11.7		.6	10	0	"
262	7-31	337P / 345P	"	11.0	8.90	1.24	6.18	11.1		.6	9	0	"
263	8-7	315P / 333P	"	11.0	7.58	1.27	6.22	9.6		.6	8	0	"
264	8-14	1206P / 1215P	Moon	6.0	6.21	1.53	6.27	9.5		.6	7	0	FC 22
265	8-21	335P / 344P	"	6.5	5.90	1.36	6.25	8.1		.6	7	0	"

F. C. D. FORM 104 3M 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 41

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.
1	8-23	310P / 320P	Bollinger	12.5	7.29	1.43	1.04	10.4		.6	7	0	FC 6
2	8-28	517P / 526P	"	13.0	6.26	1.45	1.09	9.1		.6	9	0	"
3	9-2	1155A / 1205P	U.S.E.D.	13.6	5.29	1.64	1.08	8.7		.6	9	0	35549
4	9-2	1207P / 1216P	"	13.6	5.59	1.45	1.07	8.1		.6	9	0	"
5	9-4	525P / 533P	Bollinger	14.1	7.93	1.20	1.14	9.5		.6	9	-.02	FC 6
6	9-8	255P / 310P	U.S.E.D.	13.6	5.42	1.46	1.06	7.9		.6	11	0	35549
7	9-8	310P / 318P	"	13.6	5.51	1.38	1.06	7.6		.6	11	0	"
8	9-11	240P / 248P	Bollinger	9.5	5.17	1.72	1.03	8.1		.6	9	0	FC 6
9	9-15	203P / 218P	U.S.E.D.	13.4	5.26	1.45	1.04	7.7		.6	11	-.04	35549
10	9-15	218P / 230P	"	13.4	4.89	1.27	1.00	6.2		.6	11	-.04	"
11	9-18	512P / 520P	Bollinger	13.4	6.75	1.31	1.08	8.8		.6	8	0	FC 6
12	9-22	217P / 227P	U.S.E.D.	9.5	4.34	1.48	1.04	6.4		.6	9	0	35549
13	9-22	227P / 232P	"	9.5	4.44	1.40	1.04	6.2		.6	9	0	"
14	9-25	337P / 347P	Bollinger	14.0	5.33	1.28	1.06	6.8		.6	10	0	FC 6
15	9-29	155P / 201P	U.S.E.D.	11.8	5.20	1.40	1.13	7.3		.6	10	0	35549
16	9-29	201P / 210P	"	11.8	5.05	1.41	1.13	7.1		.6	10	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

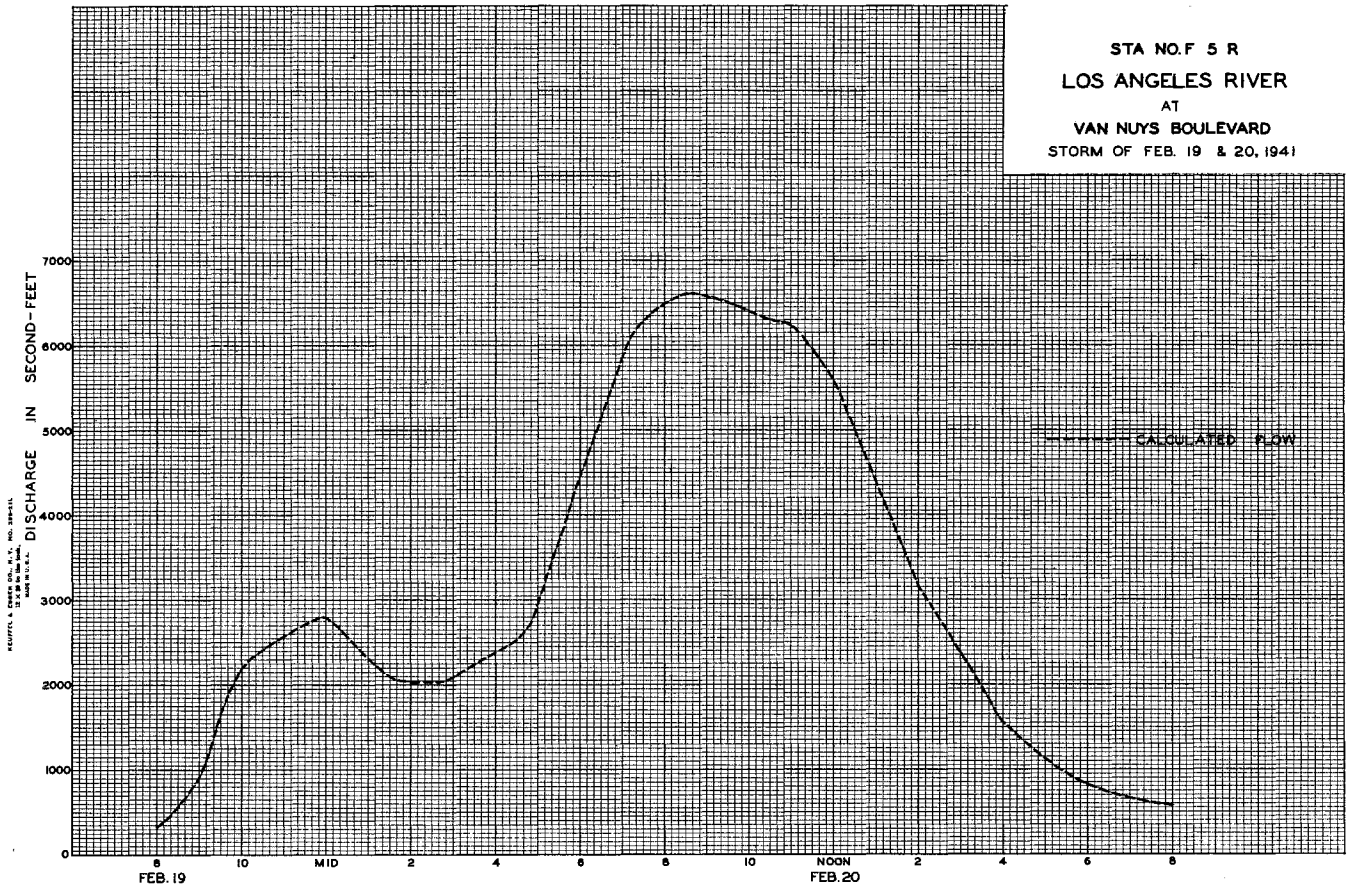
F5R& Sta. No F5B-R

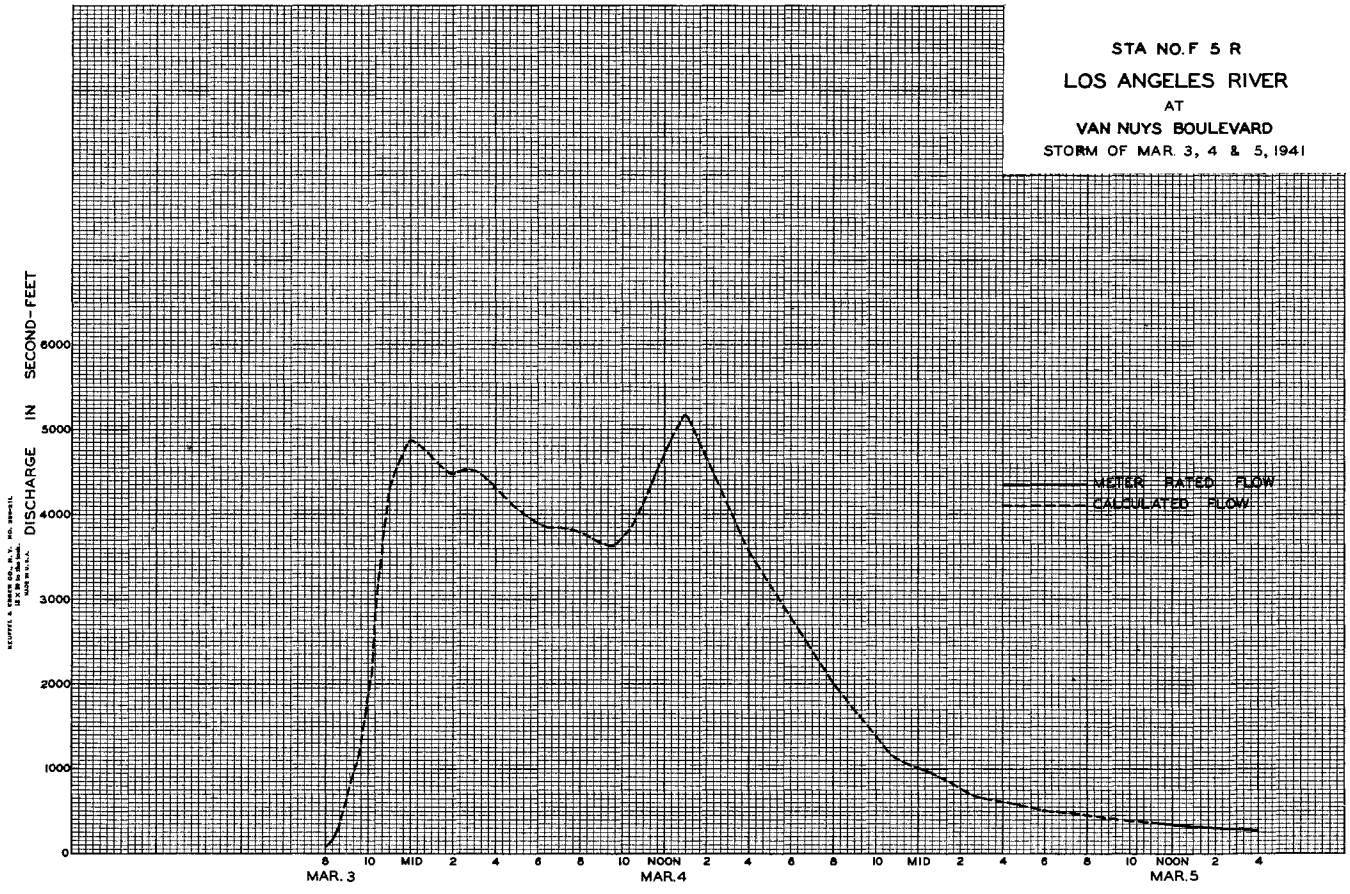
Daily discharge, in second-feet of LOS ANGELES RIVER below Sepulveda Boulevard, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.2	3.6	6.5	6.5	6	922	681	22	13	13	11	8.5
2	3.7	3.7	6	6	E 6	215	102	18	13	14	11	8.5
3	4.0	3.8	6.5	1 6	5.5	465	56	17	13	15	11	8.5
4	4.2	3.4	5.5	6.5	5.5	3540	114	17	14	15	10	8.5
5	4.2	3.1	5.5	7	5.5	418	214	17	13	14	10	7.5
6	3.7	3.0	4.9	7.5	210	146	54	15	13	13	10	8
7	3.8	2.9	4.8	7.5	E 50	87	38	18	13	13	9.5	8.5
8	3.9	3.0	5	8	55	58	30	15	13	13	9.5	8.5
9	3.8	3.5	4.9	1 8.5	63	44	40	15	13	13	9.5	8.5
10	3.8	3.0	5	9.5	58	34	63	15	12	12	10	8
11	3.5	3.4	5	43	260	27	350	15	12	12	10	8
12	3.1	3.5	5.5	57	73	254	120	15	12	12	10	8
13	3.5	3.7	6	18	69	379	56	15	12	11	9.5	8
14	3.6	3.4	5.5	7.5	377	292	41	15	11	11	9.5	8.5
15	3.2	3.6	5.5	5.5	897	148	34	15	11	11	9	8.5
16	3.1	3.9	34	5	162	52	31	15	11	11	9	8.5
17	2.9	4.4	320	5	897	34	24	15	11	11	8.5	8.5
18	3.0	4.6	137	5	97	32	22	15	11	11	9	8.5
19	3.1	4.2	82	5	385	26	20	15	11	11	9	8
20	3.2	4.3	13	8.5	2970	25	17	15	11	11	8.5	7.5
21	3.6	4.9	5.5	6.5	1340	23	16	15	11	11	8	7.5
22	3.9	4.7	3.2	8.5	1760	22	16	15	11	11	8.5	7.5
23	4.3	5.5	701	9	259	21	15	15	11	11	* 9.5	7
24	4.2	5.5	583	228	393	20	15	15	11	12	10	7
25	13	5.5	44	18	108	20	15	14	11	12	9.5	7
26	4.7	6	11	8.5	53	20	15	14	11	11	9	7
27	4.2	6.5	9	6.5	34	20	15	14	11	11	9	7
28	3.8	6.5	7.5	6.5	1480	122	15	13	12	11	8.5	7.5
29	4.0	7	9	6.5		567	15	13	12	11	9	E 8
30	3.6	6.5	6.5	6.5		41	40	13	13	11	8.5	E 8
31	3.6		6.5	6		756		13		11	8.5	
	1234		20543	120785		2284		357		2915		
		1306		5430		8830	473		370		2385	
MEAN	3.98	4.35	66.3	17.5	431.	285.	76.1	15.3	11.9	11.9	9.40	7.95
ACRE-FEET	245.	259.	4070.	1080.	24000.	17510.	4530.	938.	708.	734.	578.	473.

Remarks: * Moved from Van Nuys Boulevard. E estimated. 1 interpolated.

YEAR OR PERIOD MEAN 76.1 ACRE-FEET 55120.


STA NO. F 5 R
LOS ANGELES RIVER
AT
VAN NUYS BOULEVARD
STORM OF FEB. 19 & 20, 1941
DISCHARGE IN SECOND-FEET
0
1000
2000
3000
4000
5000
6000
7000
CALCULATED FLOW
8
10
MID
2
4
6
8
10
NOON
2
4
6
8
FEB. 19
FEB. 20


STA NO. F 5 R
LOS ANGELES RIVER
AT
VAN NUYS BOULEVARD
STORM OF MAR. 3, 4 & 5, 1941
DISCHARGE IN SECOND-FEET
0
1000
2000
3000
4000
5000
6000
METER RATED FLOW
CALCULATED FLOW
8
10
MID
2
4
6
8
10
NOON
2
4
6
8
10
MID
2
4
6
8
10
NOON
2
4
MAR. 3
MAR. 4
MAR. 5

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, 1940 to September 30, 1941.

REGULATION AND/OR DIVERSIONS:

Partially subject to same regulation as Station F5B-R and 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, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 8450 second-feet March 4.
Minimum 8.5 second-feet several days.
December 20, 1938-1941
Maximum 8450 second-feet March 4, 1941
Minimum 6.8 second-feet May 20 and 21, 1940.

ACCURACY:

Fair for high flows.
Poor for low flows due to communication being obstructed by sand and mud at times.

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. F266R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

AT Mariposa Street DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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	HEAD SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
103	10-3	355P / 412P	Bollinrer	Two Channels			0.28	12.4		.6	15	-.02	FC 6
104	10-10	105P / 120P	"	"	"		0.27	12.0		.6	15	0	"
105	10-17	205P / 230P	"	Three Channels			0.25	13.2		.6	18	0	"
106	10-24	115P / 140P	"	"	"		0.24	11.7		.6	20	0	"
107	10-31	1255P / 120P	"	"	"		0.20	14.2		.6	20	0	"
108	11-7	200P / 220P	"	Two Channels			0.21	14.3		.6	18	0	"
109	11-14	500P / 522P	"	"	"		0.24	12.4		.6	15	0	"
110	11-20	300P / 325P	"	"	"		0.23	15.7		.6	20	0	"
111	11-28	140P / 205P	"	"	"		0.24	15.0		.6	21	0	"
112	12-5	150P / 205P	"	"	"		0.24	19.2		.6	18	0	"
113	12-12	210P / 235P	"	"	"		0.24	19.2		.6	17	0	"
114	12-16	1025A / 1036A	Bollinger & Rickart	101.0	50.9	2.36	0.56	120.		.6	12	+.02	"
115	12-16	1115A / 1126A	" "	103.0	60.4	2.71	0.64	164.		.6	14	+.02	"
116	12-19	155P / 210P	Bollinger	96.5	36.5	2.74	0.36	100.		.6	15	0	"
117	12-23	1025A / 1120A	U.S.E.D. #1	130.0	200.	9.52	1.77	1900.		.6	13	+.02	35636
118	12-23	1210P / 100P	U.S.E.D. #2	130.0	239.	10.0	2.26	2390.		.6	13	-.11 +.08	"
119	12-23	225P / 240P	U.S.E.D. #3	130.0	209.	9.16	1.71	1910.		.6	8	-.07 +.03	"
120	12-23	717P / 737P	Bollinger & Rickart	111.0	78.3	5.91	0.68	463.		.6	12	0	FC 6
121	12-24	115P / 137P	" "	130.0	180.	9.50	1.88	1710.	Sur.	.6	16	+.08 -.16	"
122	12-27	435P / 450P	Bollinger	62.0	22.8	2.03	0.34	46.3		.6	14	0	"
123	12-29	206P / 218P	Bollinger & Rickart	82.0	27.7	2.17	0.36	60.1		.6	16	-.01	"
124	1-2	105P / 123P	Bollinger	97.0	29.5	1.53	0.28	45.2		.6	16	0	"
125	1-9	1130A / 1200N	"	89.0	24.7	2.02	0.26	49.8		.6	18	0	"
126	1-16	1125A / 1145A	"	88.5	20.8	1.79	0.24	37.3		.6	18	0	"
127	1-23	1215P / 1235P	Bollinger	90.5	24.1	1.35	0.26	32.6		.6	19	0	FC 6
128	1-24	953A / 946A	Bollinger & Rickart	107.0	65.4	4.72	0.51	309.		.6	13	+.03	"
129	1-24	1055A / 1110A	U.S.E.D. #4	110.0	105.	5.25	0.72	551.		.6	6	+.01	35636
130	1-30	1132A / 1152A	Bollinger	Two Channels			0.26	31.7		.6	20	0	FC 6
131	2-6	525P / 536P	Bollinger & Rickart	102.0	53.5	3.94	0.49	211.		.6	12	+.02	"
132	2-13	1232P / 1250P	Bollinger	95.0	38.2	2.83	0.33	108.		.6	15	0	"
133	2-14	850P / 920P	U.S.E.D. #5	130.0	154.	9.67	1.00	1490.		.6	13	+.07	35636
134	2-14	1050P / 1115P	U.S.E.D. #6	130.0	166.	9.33	1.28	1550.		.6	13	-.02 +.02	"
135	2-15	313A / 345A	Bollinger & Rickart	113.0	80.0	5.72	0.70	458.	Sur.	10	0		FC 6
136	2-15	1220P / 100P	U.S.E.D. #7	130.0	205.	10.2	1.60	2090.		.6	14	+.06 -.02	35636
137	2-15	145P / 225P	U.S.E.D. #8	130.0	222.	10.3	1.68	2290.		--	13	-.02 +.21	"
138	2-15	235P / 335P	U.S.E.D. #9	130.0	255.	11.3	1.94	2890.		.6	13	+.08 -.05	"
139	2-15	510P / 545P	U.S.E.D. #10	130.0	226.	9.63	1.86	2180.		.6	14	-.02	35636
140	2-17	630A / 805A	U.S.E.D. #11	130.0	223.	10.8	2.16	2530.		.6	13	+.15 -.03	"
141	2-17	930A / 955A	U.S.E.D. #12	130.0	248.	9.27	1.94	2390.		.6	15	+.07 -.11	"
142	2-17	1150A / 1220P	U.S.E.D. #13	130.0	156.	8.16	1.37	1270.		--	15	-.13	"
143	2-20	833A / 840A	Bollinger & Rickart	130.0	438.	15.3	3.58	6700.	Float		6	+.02	---
144	2-20	930A	U.S.E.D. #14	130.0	424.	14.5	3.65	6160.	Float	--	---		---
145	2-20	1030A	U.S.E.D. #15	130.0	424.	16.2	3.62	6870.	Float	--	---		---
146	2-20	100P	U.S.E.D. #16	130.0	359.	14.5	3.42	5220.	Float	--	---		---
147	2-20	315P / 340P	U.S.E.D. #17	130.0	262.	10.8	2.54	2820.		.6	7	-.28 +.03	35636
148	2-20	705P / 725P	U.S.E.D. #18	130.0	128.	7.76	1.62	995.		.6	13	--	"
149	2-21	115P / 140P	U.S.E.D. #19	130.0	142.	8.35	1.56	1190.		.6	13	+.03	"
150	2-21	252P / 310P	U.S.E.D. #20	130.0	161.	8.44	1.66	1360.		.6	13	0	"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F266R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

AT Mariposa Street DURING THE YEAR ENDING SEPTEMBER 30, 19 41

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	METHOD	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
151	2-21	400P 430P	U.S.E.D. #21	130.0	218.	10.2	2.07	2230.		.6	13	-.21 +.29	35636
152	2-21	920P 940P	U.S.E.D. #22	130.0	291.	11.8	2.66	3430.		.6	7	+.07	"
153	2-22	100A 126A	U.S.E.D. #23	130.0	307.	11.8	2.51	3640.		.6	7	-.02	"
154	2-22	625A 655A	U.S.E.D. #24	130.0	268.	11.7	2.71	3130.		.6	13	-.10 +.05	"
155	2-22	1035A 1100A	U.S.E.D. #25	130.0	250.	11.4	2.57	2840.		.6	13	+.09 -.06	"
156	2-25	303P 320P	Bollinger	111.0	83.7	5.35	0.60	449.		.6	13	---	FC 6
157	2-26	247P 312P	"	100.0	48.5	4.36	0.54	212.		.6	20	---	"
158	2-28	815P 845P	U.S.E.D. #26	130.0	444.	16.7	3.65	7440.	Floats	8		+.05	---
159	2-28 3-1	1145P 1230A	U.S.E.D. #27	130.0	349.	13.9	3.03	4870.		.6	8	-.35	35636
160	3-1	1125A 1146A	U.S.E.D. #28	130.0	205.	9.54	1.96	1960.		.6	7	+.03 -.01	"
161	3-4	1230A 125A	U.S.E.D. #29	130.0	438.	15.7	3.60	6860.	Floats	8		-.02 +.07	"
162	3-4	615A 625A	U.S.E.D. #30	130.0	343.	15.1	3.12	5180.	Floats	7		-.09	---
163	3-4	1000A 1015A	U.S.E.D. #31	130.0	320.	14.4	2.84	4610.	Floats	4		+.08	---
.64	3-4	100P 130P	U.S.E.D. #32	130.0	463.	17.7	4.04	8180.	Floats	6		+.13 -.06	---
165	3-4	400P 415P	U.S.E.D. #33	130.0	359.	15.3	3.33	5490.	Floats	6		-.13	---
166	3-4	730P 745P	U.S.E.D. #34	130.0	343.	12.9	2.64	4430.		.6	6	-.01 +.03	35636
167	3-4	1120P 1150P	U.S.E.D. #35	130.0	214.	10.1	2.24	2160.		.6	8	-.05 +.07	"
168	3-6	1220P 1245P	Bollinger	120.0	112.	6.96	---	781.	Sur	.6	13	---	FC 6
169	3-14	150P 205P	Bollinger & Swanson	115.0	93.6	5.93	0.92	555.		.6	11	-.08	"
170	3-20	1008A 1023A	Bollinger	102.9	61.6	4.16	0.50	256.		.6	14	0	"
171	3-27	1115A 1128A	"	98.0	44.9	3.30	0.34	148.		.6	12	0	"
172	3-29	938A 953A	Bollinger & Rickart	123.0	142.	7.18	1.20	1020.		.6	9	-.05	"
173	3-29	1007A 1022A	" "	121.0	106.	7.01	1.12	745.	Sur	.6	12	-.04	"
174	3-31	257P 328P	" "	130.0	225.	10.6	1.95	2370.	Sur	.6	20	-.02 +.11	"
175	3-31	345P 401P	Bollinger & Rickart	130.0	199.	9.86	1.97	1960.	Sur	.6	15	-.06	FC 6
176	4-3	352P 405P	Bollinger	95.0	44.3	2.88	0.61	128.		.6	11	---	"
177	4-10	125P 138P	Bollinger	95.6	38.3	2.56	0.58	97.7		.6	14	---	FC 6
178	4-12	307P 317P	Bollinger & Rickart	105.0	66.2	4.20	0.53	279.		.6	13	-.01	"
179	4-12	324P 335P	" "	103.0	62.0	4.07	0.52	253.		.6	13	0	"
180	4-17	130P 150P	Bollinger	103.9	64.6	4.23	0.55	273.		.6	15	-.02	"
181	4-24	1115A 1127A	"	90.2	30.7	1.97	0.31	60.6		.6	10	0	"
182	4-30	1040A 1054A	Bollinger & Rickart	112.0	91.4	5.72	---	523.		.6	14	---	"
183	4-30	1100A 1115A	" "	112.0	94.0	5.41	---	509.		.6	14	---	"
184	5-1	215P 232P	Bollinger	98.5	57.5	4.00	---	230.		.6	12	0	"
185	5-8	1230P 1250P	"	90.0	29.2	2.05	0.24	59.7		.6	11	+.03	"
186	5-15	105P 120P	"	90.5	29.6	2.09	0.32	62.3		.6	13	-.01	"
187	5-22	115P 130P	"	92.3	26.9	2.27	0.34	61.2		.6	14	0	"
188	5-29	1200N 1215P	"	91.1	27.8	2.05	0.34	57.2		.6	16	0	"
189	6-5	335P 350P	"	89.2	27.9	1.81	0.30	50.6		.6	15	+.01	"
190	6-12	857A 912A	Bollinger	90.6	29.9	1.77	0.28	53.0		.6	16	0	FC 6
191	6-17	335P 355P	U.S.E.D. #36	92.0	26.8	1.75	0.29	46.8		.6	13	0	35549
192	6-17	355P 410P	U.S.E.D. #37	92.0	28.3	1.71	0.29	48.5		.6	13	0	"
193	6-19	1115A 1135A	Bollinger	89.7	28.2	1.67	0.31	47.1		.6	17	-.02	FC 6
194	6-26	345P 355P	"	Two Channels			0.18	9.5		.6	10	0	"
195	7-3	1228P 1248P	"	91.1	36.3	1.94	0.36	70.6		.6	16	-.01	"
196	7-10	1115A 1132A	"	90.5	23.9	1.04	0.30	24.9		.6	16	0	"
197	7-17	1120A 1142A	"	92.0	29.5	1.00	0.31	29.6		.6	18	0	"
198	7-24	1238P 1258P	"	93.0	2.55	1.14	0.30	29.2		.6	17	0	"
199	7-31	1123A 1145A	Bollinger	Two Channels			0.30	26.8		.6	17	0	FC 6
200	8-7	1110A 1132A	" "				0.32	24.0		.6	17	0	"
201	8-14	1014A 1035A	Moon	94.0	29.8	1.75	0.32	52.1		.6	13	0	FC 22
202	8-21	136P 200P	"	Three Channels			0.25	18.0		.6	17	0	"
203	8-28	1110A 1132A	Bollinger	91.0	26.5	0.99	0.30	25.9		.6	21	0	FC 6
204	9-4	105P 125P	"	92.0	29.1	0.87	0.31	25.2		.6	21	+.02	"
205	9-11	1235P 1255P	"	90.5	24.5	0.98	0.30	24.0		.6	21	0	"
206	9-18	115P 140P	"	90.0	24.0	1.14	0.30	27.4		.6	24	0	"
207	9-25	1255P 112P	"	90.0	22.7	1.16	0.31	26.4		.6	17	0	"

F.C. Dist. Form 51 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

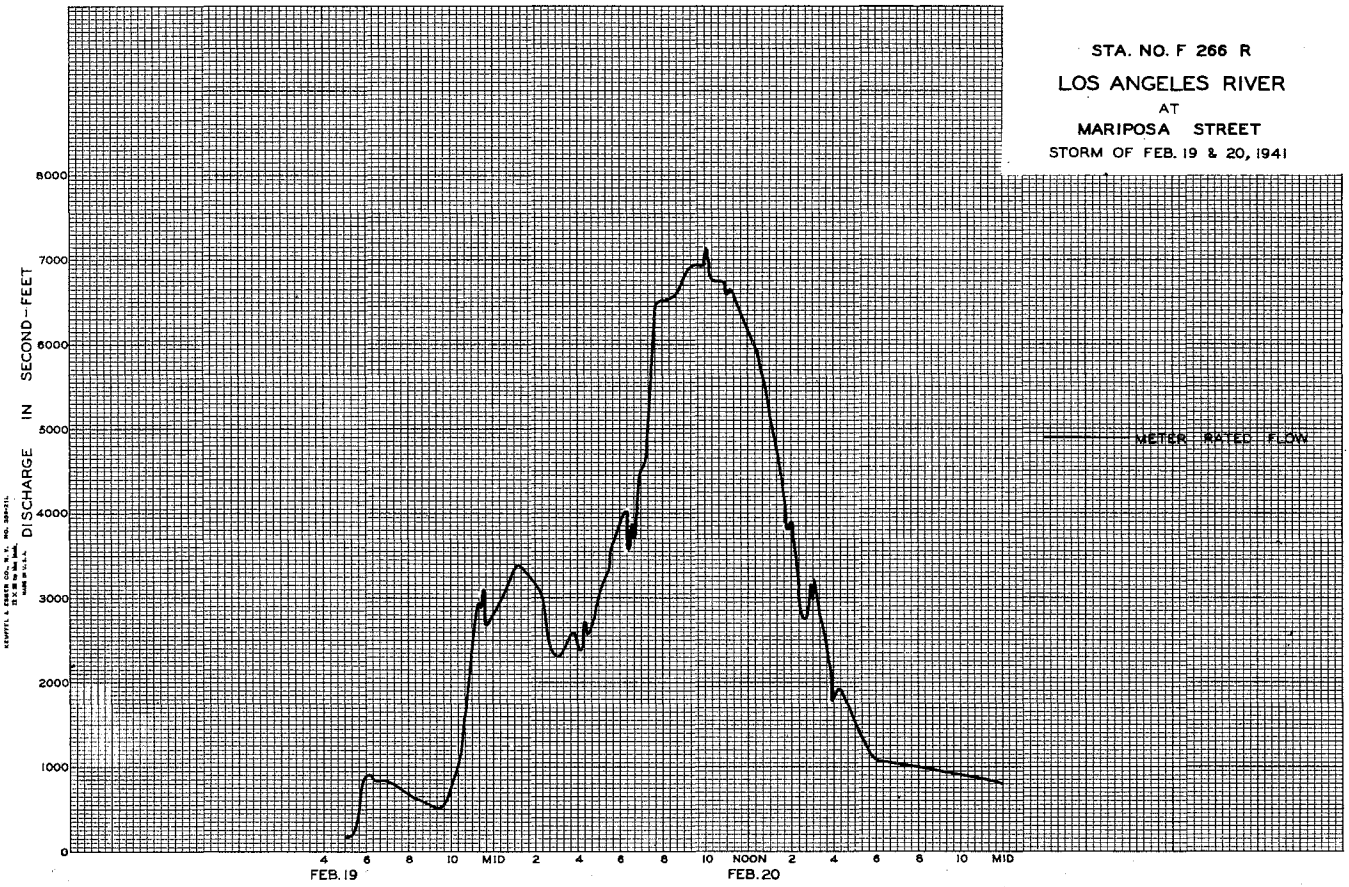
Sta. No. F266R

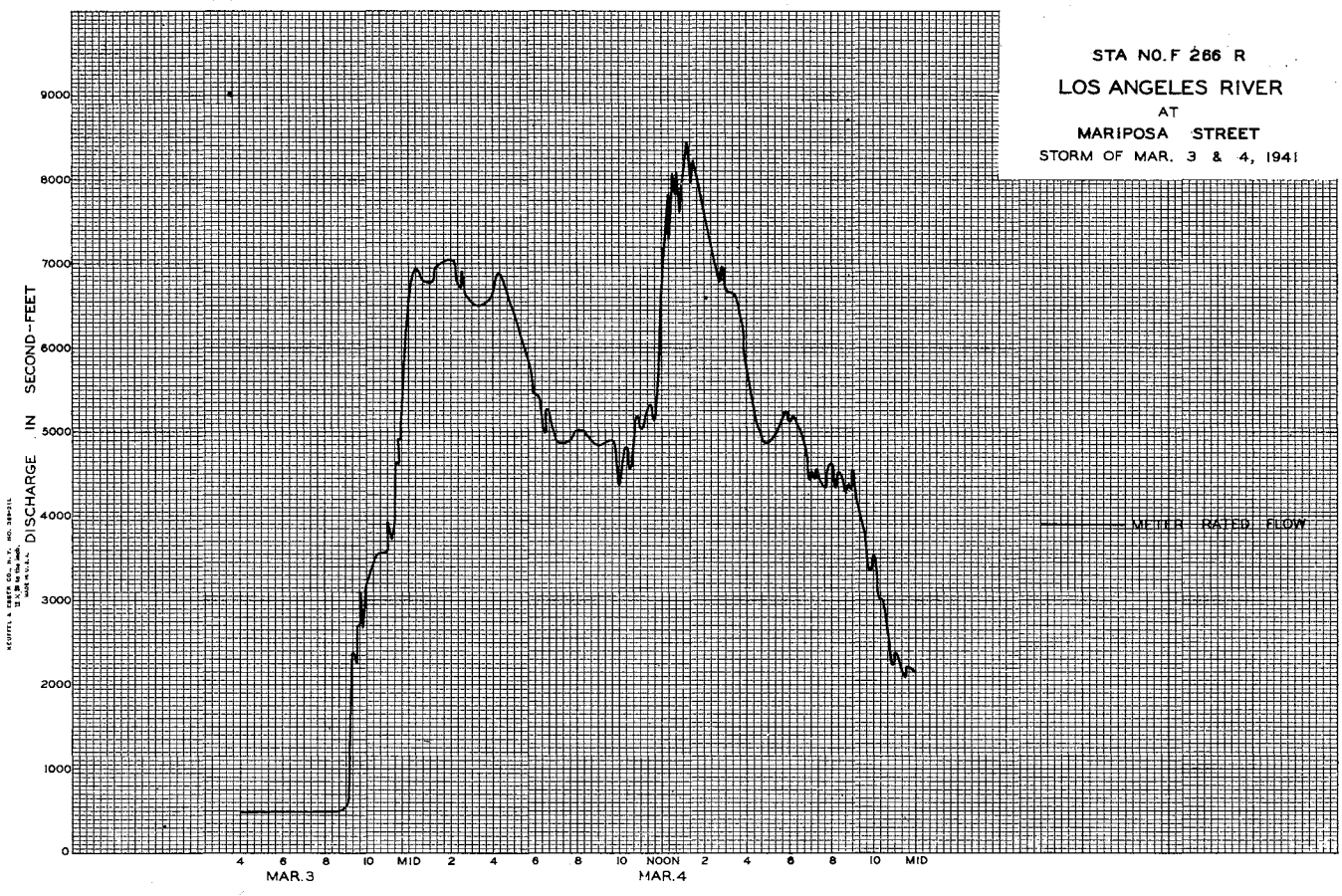
Daily discharge, in second-feet of LOS ANGELES RIVER at Mariposa Street, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1	1 12	14	16	50	38	1770	997	E 200	50	42	27	23
2	1 12	14	16	63	34	E 550	179	E 190	46	50	23	23
3	E 12	16	19	54	38	872	140	179	50	54	23	27
4	1 12	14	19	54	38	5500	230	68	58	50	27	27
5	12	14	19	46	50	E 1250	356	68	50	28	23	36
6	12	14	19	54	276	700	197	68	54	14	23	31
7	12	14	16	78	100	700	164	68	73	19	27	31
8	12	16	16	84	110	650	152	63	58	23	27	31
9	1 12	16	19	54	140	600	116	84	50	27	23	38
10	E 12	14	19	46	134	550	115	89	54	27	27	31
11	1 12	14	19	54	328	E 400	660	84	58	E 27	31	23
12	12	14	19	73	143	726	251	78	58	27	42	23
13	12	14	16	50	110	1170	343	73	58	27	54	23
14	13	11	16	42	455	859	362	78	63	27	50	23
15	13	14	16	38	1130	586	297	78	58	27	46	27
16	1 13	14	138	38	304	418	288	E 78	54	27	46	27
17	E 13	16	393	42	1120	334	278	68	42	E 27	42	27
18	14	23	160	34	260	368	260	63	50	34	34	E 27
19	11	16	171	34	430	315	152	50	46	34	18	1 27
20	11	16	67	31	3290	251	89	54	38	31	8.5	27
21	11	16	78	36	1820	233	73	46	38	42	16	27
22	11	16	54	38	2550	233	73	E 58	46	42	27	26
23	11	14	841	38	E 600	224	63	58	42	34	27	26
24	16	14	761	295	750	224	63	38	46	31	31	1 26
25	89	16	107	42	350	206	58	42	24	31	31	E 26
26	38	14	54	31	200	164	58	31	8.5	34	31	1 26
27	28	14	46	27	E 150	146	58	34	14	34	27	26
28	14	14	46	34	2200	280	58	50	27	31	27	27
29	14	16	50	42		990	58	54	42	27	27	27
30	14	19	46	31		251	E 350	50	42	27	27	1 27
31	14		42	31		954		50		27	27	
	504	451	3318	1664	17148	22474	6538	2292	13975	982	9195	816
MEAN	16.2	15.0	107.	53.7	612.	725.	218.	73.9	46.6	31.7	29.7	27.2
ACRE FEET	999.	894.	6581.	3300.	34000.	44580.	12970.	4550.	2770.	1950.	1820.	1620.

Remarks: E=estimated. i = interpolated.

YEAR OR PERIOD MEAN 160.
ACRE-FEET 116000.


STA. NO. F 266 R
LOS ANGELES RIVER
AT
MARIPOSA STREET
STORM OF FEB. 19 & 20, 1941
DISCHARGE IN SECOND-FEET
0
1000
2000
3000
4000
5000
6000
7000
8000
METER RATED FLOW
4 6 8 10 MID 2 4 6 8 10 NOON 2 4 6 8 10 MID
FEB. 19
FEB. 20


STA NO. F 266 R
LOS ANGELES RIVER
AT
MARIPOSA STREET
STORM OF MAR. 3 & 4, 1941
DISCHARGE IN SECOND-FEET
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
METER RATED FLOW
4 6 8 10 MID 2 4 6 8 10 NOON 2 4 6 8 10 MID
MAR. 3
MAR. 4

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 foot x 4.5 foot concrete house and stilling well combined.
A Friez continuous recorder, furnished by the United States Engineer Dept., was in service from December 8, 1940 to September 30, 1941.

REGULATION AND/OR DIVERSIONS:

Subject to the same regulation as station F266R and several debris basins. 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, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 11,870 second-feet, February 20.
Minimum 4.2 second-feet, October 6.
1929-1941 (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 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. F57C-R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

at above Arroyo Seco (Dayton Avenue) DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
110	10-3	850A / 900A	Bollinger	18.1	5.15	1.22	0.74	6.3		.6	12	-.02	FC 6
111	10-10	955A / 1012A	"	17.6	5.62	1.24	0.57	7.0		.6	12	+.02	"
112	10-17	1107A / 1120A	"	16.9	5.02	1.42	0.30	7.1		.6	13	0	"
113	10-24	950A / 1006A	"	17.1	5.12	1.24	0.33	6.4		.6	15	0	"
114	10-25	1242P / 112P	U.S.E.D.#1	177.0	80.8	3.31	1.43	267.	Sur.	.6	15	+.36	35662
115	10-25	155P / 238P	" #2	177.0	139.	4.53	1.38	630.	Sur.		13	-.07	"
116	10-25	423P / 452P	" #3	177.0	139.	4.40	1.39	612.	Sur.		12	-.19	"
117	10-26	1215P / 1230P	Bollinger	18.3	12.8	3.91	0.82	50.0		.6	11	-.01	FC 6
118	10-31	1000A / 1012A	"	17.1	5.68	1.70	0.30	9.6		.6	11	0	"
119	11-7	1035A / 1048A	"	17.4	5.74	1.57	0.34	9.0		.6	11	0	"
120	11-14	850A / 900A	"	17.3	6.10	1.60	0.38	9.8		.6	11	-.01	"
121	11-18	230P / 245P	"	18.2	10.3	2.42	0.65	25.0		.6	13	0	"
122	11-20	1127A / 1143A	"	17.7	7.35	1.93	0.44	14.2		.6	14	-.01	"
123	11-28	1010A / 1020A	"	17.6	7.33	2.13	0.46	15.6		.6	11	0	"
124	12-5	1010A / 1030A	"	17.5	7.36	2.06	0.66	15.2		.6	12	-.01	"
125	12-12	1103A / 1115A	"	18.3	10.0	2.96	0.87	29.6		.6	11	-.02	"
126	12-16	950P / 1055P	Bollinger & Rickart	177.0	177.	7.13	1.96	1260.		.6	19	-.01 +.14	"
127	12-17	350A / 455A	U.S.E.D.#4	177.0	252.	6.54	2.05	1650.		.6	14	-.08	35662
128	12-17	715A / 758A	" #5	177.0	225.	7.46	1.93	1680.		.6	13	-.05	"
129	12-17	916A / 1036A	" #6	177.0	239.	5.85	2.08	1400.		.6	22	+.30 -.45	"
130	12-18	1020A / 1040A	Bollinger	71.0	46.4	2.00	1.10	92.9		.6	17	-.02	"
131	12-19	1145A / 1200N	"	52.5	56.5	2.83	1.15	160.		.6	12	-.01	"
132	12-23	825A / 827A	U.S.E.D.#7	177.0	386.	8.82	2.93	3400.	Floats			---	---
133	12-23	958A	" #8	177.0	449.	7.39	3.49	3320.			14	+1.00 -.40	35662
134	12-23	858A / 906A	U.S.E.D.#9	177.0	350.	10.0	3.35	3500.	Floats			---	---
135	12-23		" #10	177.0	509.	10.8	3.75	5500.	Floats			---	---
136	12-23	1013A / 1118A	" #11	177.0	395.	6.88	3.27	2720.		--	13	-.28	35662
137	12-23	1045A	" #12	177.0	379.	7.35	3.24	2780.	Floats			---	---
138	12-23	1205P / 1247P	" #13	177.0	356.	6.75	3.11	2400.		--	14	+.05	35662
139	12-23	312P / 347P	" #14	177.0	372.	7.80	3.20	2900.		--	13	-.12	"
140	12-24	245P / 310P	Bollinger & Rickart	177.0	263.	5.69	2.87	1500.		.6	21	+.05 -.12	FC 6
141	12-27	322P / 342P	Bollinger	62.0	45.2	1.59	1.62	71.7		.6	19	+.01	"
142	12-29	842A / 905A	Bollinger & Rickart	Two Channels			1.79	110.		.6	18	+.02	"
143	12-20	1110A / 1130A	Bollinger	53.3	38.4	1.77	1.63	68.0		.6	14	+.01	"
144	1-2	1025A / 1050A	"	Two Channels			1.62	64.0		.6	21	0	"
145	1-7	1050A / 1122A	"	"	"		1.79	103.		.6	24	+.02	"
146	1-9	1005A / 1020A	"	58.5	48.3	2.10	1.74	101.		.6	17	-.01	"
147	1-10	350P / 405P	"	68.5	57.0	1.78	1.79	101.		.6	17	-.06	"
148	1-14	920A / 940A	"	59.8	51.1	2.03	1.79	104.		.6	16	-.02	"
149	1-16	1005A / 1025A	"	58.4	37.0	1.82	1.75	67.5		.6	20	0	"
150	1-20	155P / 215P	"	57.0	34.3	1.79	1.75	61.5		.6	24	-.02	"
151	1-22	742A / 800A	"	60.0	54.9	1.92	1.78	106.		.6	17	0	"
152	1-23	1020A / 1040A	"	58.3	38.2	1.86	1.71	70.9		.6	19	+.01	"
153	1-24	715A / 741A	Bollinger & Rickart	177.0	177.	4.50	2.44	798.		.6	17	-.17 +.09	"
154	1-25	315P / 335P	Bollinger	51.0	37.4	2.46	1.97	92.0		.6	15	-.02	"
155	1-28	1000A / 1015A	"	52.3	34.4	2.07	1.86	71.2		.6	16	-.02	"
156	1-30	1015A / 1035A	"	50.5	32.2	2.07	1.74	66.6		.6	15	-.01	"
157	2-3	235P / 252P	"	51.3	32.1	1.72	1.74	55.1		.6	16	+.01	"

F. C. D. FORM 104 SM 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F57C-R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

at or near above Arroyo Seco (Dayton Avenue) DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
158	2-6	711A 750A	Bollinger & Rickart	177.0	431.	7.54	3.85	3250.		.6	15	-.40	FC 6
159	2-6	946A 1013A	U.S.E.D.#15	177.0	207.	2.82	2.66	584.		.6	14	-.10	#17
160	2-6	1120A 1155A	" #16	177.0	226.	1.84	2.40	415.		.6	11	-.05	"
161	2-6	1156A 1226P	" #17	177.0	185.	2.08	2.37	385.		.6	11	+.04	"
162	2-7	943A 1000A	Bollinger	53.3	48.8	2.56	1.94	125.		.6	16	-.01	FC 6
163	2-8	345P 357P	"	53.5	45.8	2.60	1.96	119.		.6	13	-.01	"
164	2-11	1015A 1116A	U.S.E.D.#18	177.0	182.	4.61	2.61	839.		.6	16	+.09	#17
165	2-11	1144A 1231P	" #19	177.0	248.	5.60	2.92	1390.		.6	16	+.11 -.18	"
166	2-11	219P 310P	" #20	177.0	191.	5.03	2.70	962.		.6	15	-.09	"
167	2-11	333P 354P	" #21	177.0	157.	4.57	2.60	718.		.6	15	-.06	"
168	2-11	1008P 1035P	Bollinger & Rickart	177.0	180.	3.26	2.64	587.		.6	17	-.04	FC 6
169	2-13	1008A 1023A	Bollinger	52.8	49.8	2.59	2.14	129.		.6	12	+.01	"
170	2-14	158P 246P	U.S.E.D.#22	177.0	180.	4.16	2.70	747.		.6	15	+.34	#17
171	2-14	249P 334P	" #23	177.0	232.	5.38	3.02	1250.		.6	15	+.19	"
172	2-14	519P 557P	" #24	177.0	373.	4.77	3.17	1780.		.6	14	-.09	"
173	2-14	602P 710P	" #25	177.0	392.	7.55	3.83	2960.		.6	12	+.90 -.23	"
174	2-14	841P 925P	" #26	177.0	271.	5.61	3.29	1520.		.6	11	+.02	"
175	2-14	945P 1022P	" #27	177.0	230.	3.25	3.22	748.		.6	11	-.02	"
176	2-15	1211P 103P	" #28	177.0	258.	5.76	3.36	1480.		.6	17	+.46	"
177	2-15	120P 215P	" #29	177.0	310.	6.98	3.67	2170.		.6	16	+.07	"
178	2-15	355P 446P	" #30	177.0	341.	7.30	3.89	2490.		.6	12	+.10	"
179	2-15	545P 615P	" #31	177.0	308.	8.20	3.76	2520.	Float	.6	--	+.03	"
180	2-15	620P 702P	" #32	177.0	285.	6.81	3.69	1940.		.6	11	-.10	"
181	2-17	604A 634A	" #33	177.0	379.	7.07	3.84	2680.			11	-.06 +.02	"
182	2-17	731A 810A	U.S.E.D.#34	177.0	412.	6.50	4.20	2680.		.6	11	+.04	#17
183	2-17	918A 950A	" #35	177.0	415.	7.95	4.11	3330.		---	11	-.02	"
184	2-17	1030A 1102A	" #36	177.0	365.	6.93	3.93	2530.		.6	11	-.05	"
185	2-17	102P 131P	" #37	177.0	253.	6.20	3.37	1570.		.6	11	-.10	"
186	2-17	234P 311P	" #38	177.0	248.	4.52	3.18	1120.		.6	11	-.20	"
187	2-18	1008A 1028A	Bollinger	60.2	73.7	2.94	2.18	217.		.6	14	-.01	FC 6
188	2-19	755P 841P	U.S.E.D.#39	177.0	494.	7.24	4.36	3580.		.6	11	---	#17
189	2-19	920P 1015P	" #40	177.0	309.	5.85	3.67	1810.		.6	11	-.38	"
190	2-19	1100P 1133P	" #41	177.0	284.	4.90	3.26	1390.		.6	11	+.21	"
191	2-20	1200P 130A	" #42	177.0	404.	6.56	4.17	2650.		.6	11	+.37	"
192	2-20	200A 322A	" #43	177.0	442.	6.12	4.35	2700.		.6	11	+.20 -.20	"
193	2-20	455A 536A	" #44	177.0	369.	6.98	4.60	2580.		.6	11	+.18	"
194	2-20	610A 708A	" #45	177.0	473.	8.24	4.75	3900.		.6	11	+.08 -.25	"
195	2-20	849A 1009A	" #46	177.0	576.	10.35	5.78	5960.		.6	11	+.40	"
196	2-20	1030A 1056A	" #47	177.0	648.	10.50	6.00	6780.	Floats	--	---		"
197	2-20	756P 822P	" #48	177.0	311.	4.83	3.66	1500.		.6	11	-.05	#14
198	2-20	955P 1026P	" #49	177.0	268.	2.48	3.59	666.		.6	11	0	"
199	2-21	1025A 1107A	" #50	177.0	382.	3.92	3.85	1500.		.6	11	+.20	"
200	2-21	1241P 101P	" #51	177.0	332.	5.75	3.81	1910.		.6	11	+.12	"
201	2-21	333P 357P	" #52	177.0	315.	5.49	3.71	1730.		.6	11	0	"
202	2-21	512P 537P	" #53	177.0	528.	7.84	4.81	4150.		.6	11	+.78	"
203	2-21	547P 700P	" #54	177.0	658.	10.28	5.51	6760.		.6	11	+.13 -.37	"
204	2-21	934P	" #55	177.0	710.	9.62	5.40	6820.		.6	11	+.35	"
205	2-21	1021P 1046P	" #56	177.0	664.	9.63	5.42	6390.		.6	11	+.20 -.04	"
206	2-21	1050P 1113P	U.S.E.D.#57	177.0	587.	9.62	5.36	5650.		.6	11	-.10	#14
207	2-22	1235A 1253A	" #58	177.0	528.	9.26	5.02	4880.		.6	11	-.05	"
208	2-22	1253A 110A	" #59	177.0	506.	8.88	4.97	4490.		.6	11	0	"
209	2-22	221A 242A	" #60	177.0	505.	8.68	4.94	4370.		.6	11	-.13	"
210	2-22	242A 305A	" #61	177.0	490.	8.63	4.91	4230.		.6	11	+.04 -.03	"
211	2-22	427A 447A	" #62	177.0	536.	9.05	5.13	4750.		.6	11	-.14	"
212	2-22	447A 508A	" #63	177.0	498.	9.27	5.12	4620.		.6	11	+.05 -.15	
213	2-22	925A 944A	" #64	177.0	438.	8.22	4.52	3600.		.6	11	+.03	"
214	2-23	1207P 1235P	Bollinger & Rickart	177.0	208.	4.80	3.30	1000.		.6	19	+.09	FC 6
215	2-24	1028A 1057A	Bollinger & Rickart	177.0	247.	5.11	3.42	1260.	Sur	.6	19	+.02 -.02	FC 6
216	2-27	1050A 1145A	Bollinger	177.0	132.	2.23	2.80	294.	Sur	.6	19	+.03	"
218	2-28	845P 930P	U.S.E.D.#66	177.0	764.	11.5	6.00	8790.		.6	11	+.15 -.20	# 14
219	2-28	936P 1002P	" #67	177.0	679.	11.5	5.86	7830.		.6	11	-.07	"
220	3-1	1212A 1253A	" #68	177.0	684.	10.4	5.30	7100.		.6	11	-.10	"
221	3-1	1253A 129A	" #69	177.0	508.	10.1	5.10	5140.		.6	11	-.25	"
222	3-1	332A 359A	" #70	177.0	443.	8.65	4.47	3830.		.6	11	-.21	"
223	3-1	359A 422A	" #71	177.0	462.	7.10	4.28	3280.		.6	11	-.07	"
224	3-1	819A 1015A	" #72	177.0	292.	6.50	3.66	1900.		.6	11	-.09 +.38	"
225	3-1	1235P 1255P	" #73	177.0	319.	7.73	3.90	2470.		.6	11	-.09	"
226	3-3	225P 300P	Bollinger	177.0	172.	3.58	3.33	615.		.6	20	0	FC 6
227	3-3 3-4	1149P 152A	U.S.E.D.#74	177.0	714.	11.2	5.60	7990.		.6	11	+.60 -.07	# 14
228	3-4	1405A 452A	" #75	177.0	753.	13.2	6.21	8960.		.6	11	-.22 +.07	"
229	3-4	510A 550A	" #76	177.0	760.	11.5	6.08	8760.		.6	11	-.30	"
230	3-4	927A 1003A	U.S.E.D.#77	177.0	594.	8.39	5.35	4980.		.6	11	-.05	# 14
231	3-4	1003A 1037A	" #78	177.0	631.	9.68	5.45	6110.		.6	11	+.16 -.17	"
232	3-4	115P 159P	" #79	177.0	787.	12.6	6.40	9900.		.6	11	+.81	"
233	3-4	159P 220P	" #80	177.0	707.	12.5	6.72	8830.		.6	10	-.14	"
234	3-4	255P 348P	" #81	177.0	844.	10.3	6.11	8700.		.6	11	-.19	"
235	3-4	525P 555P	" #82	177.0	615.	10.4	5.25	6400.		.6	11	+.15 -.17	"
236	3-4	555P 618P	" #83	177.0	553.	9.63	5.18	5330.		.6	10	+.50 -.06	"
237	3-4	1108P 1135P	" #84	177.0	404.	8.63	4.55	3490.		.6	11	-.02	"
238	3-5	551A 612A	" #85	177.0	331.	7.80	4.11	2580.		.6	11	0	"
239	3-5	1120A 1205P	Bollinger	177.0	289.	5.60	3.72	1620.		.6	21	+.20	FC 6
240	3-12	328P 349P	U.S.E.D.#86	177.0	290.	7.25	3.70	2100.		.6	11	-.20	# 14
241	3-12	624P 658P	" #87	177.0	333.	7.14	3.93	2380.		.6	11	+.33 -.14	"
242	3-12	840P 910P	" #88	177.0	267.	7.30	3.59	1950.		.6	11	+.08 -.09	"
243	3-12	1120P 1200P	" #89	177.0	347.	5.96	3.63	2070.		.6	11	-.16	"
244	3-13	430A 520A	" #90	177.0	359.	6.63	3.60	2380.		.6	11	-.43	"
245	3-14	1110A 1145A	Bollinger	177.0	202.	4.05	3.03	818.	Sur	.6	18	+.13	FC 6
246	3-18	1055A 1150A	"	177.0	117.	2.60	2.82	304.		.6	23	+.04	"
247	3-24	140P 230P	"	177.0	138.	2.44	2.84	337.		.6	16	-.01	"
248	3-26	1055A 1128A	U.S.E.D.#91	87.0	64.8	2.31	2.51	150.		.6	22	+.02	35616
249	3-27	935A 1000A	Bollinger	105.3	62.3	2.23	---	139.		.6	15		FC 6
249A	3-28	1032P 1053P	U.S.E.D.#92	177.0	241.	5.59	3.28	1350.		.6	11	-.49	35632
250	3-29	214A 251A	" #93	177.0	714.	6.84	4.94	4890.		.6	11	+1.09 -.46	"
251	3-29	307A 346A	" #94	177.0	433.	7.48	4.39	3240.		.6	11	-.65	"
252	3-29	550A 628A	" #95	177.0	449.	7.54	4.08	3390.		.6	11	-.30	"
253	3-29	1110A 1215P	Bollinger & Rickart	177.0	176.	4.05	3.11	713.	Sur	.6	16	-.27	FC 6
254	3-31	1216P 1234P	U.S.E.D.#96	177.0	310.	6.17	3.54	1910.		.6	11	+.11 -.16	35632
255	3-31	234P 251P	" #97	177.0	336.	6.82	4.01	2290.		.6	11	+.36	"
256	3-31	1052P 1101P	" #98	177.0	387.	7.54	4.33	2920.		.6	11	+.07	# 17
257	4-1	1241A 234A	" #99	177.0	426.	8.53	4.40	3630.		.6	11	+.10 -.10	"
258	4-1	505A 531A	" #100	177.0	338.	8.20	3.80	2770.		.6	11	-.05	"
259	4-1	900A 920A	" #101	177.0	307.	4.98	3.45	1530.		.6	11	-.07	35632
260	4-3	155P 235P	Bollinger	177.0	127.	2.74	2.88	348.		.6	21	-.05	FC 6
261	4-5	1215A 1239A	U.S.E.D.#102	177.0	216.	6.43	3.28	1390.		.6	11	-.08	# 17
262	4-7	1015A 1110A	Bollinger	177.0	147.	2.97	3.05	436.		.6	19	-.01	FC 6
263	4-10	1000A 1055A	"	Two Channels			2.38	203.		.6	25	-.01	"
264	4-11	1250A 145A	Bollinger & Rickart	177.0	250.	6.64	3.69	1660.		.6	18	-.60	"
265	4-11	542A 620A	" "	177.0	205.	4.78	3.41	980.		.6	19	+.48	"
266	4-12	928A 1003A	" "	177.0	156.	3.31	2.98	516.		.6	20	-.07	"
267	4-14	1225P 100P	Bollinger	Two Channels			2.67	454.	Sur	.6	22	-.13	"
268	4-17	1040A 1115A	"	177.0	130.	3.25	2.64	423.		.6	20	+.02	"
269	4-21	1000A 1040A	"	Two Channels			2.40	143.		.6	22	0	"
270	4-24	940A 1010A	"	114.8	60.2	1.88	2.44	113.		.6	24	+.07	"
271	4-28	1105A 1127A	"	129.0	60.1	1.88	2.32	113.		.6	18	-.01	"
272	4-30	832A 859A	Bollinger & Rickart	177.0	190.	4.66	2.87	885.		.6	21	+.04	"
273	4-30	1100A 1155A	U.S.E.D.#103	177.0	260.	6.61	3.22	1720.		.6	10	0	35632
274	5-1	1025A 1100A	Bollinger	177.0	97.4	2.24	2.57	218.		.6	19	+.01	FC 6
275	5-6	945A 1015A	"	Two Channels			2.36	123.		.6	22	0	"
276	5-8	950A 1020A	"	177.0	71.0	1.49	2.45	106.		.6	14	0	"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F57C-R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

AT above Arroyo Seco-(Dayton Avenue) DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
277	5-12	925A / 950A	Bollinger	142.5	53.2	1.60	2.32	84.9		.6	18	0	FC 6
278	5-15	1105A / 1127A	"	157.7	55.4	1.48	2.24	82.0		.6	18	-.01	"
279	5-19	900A / 925A	"	174.3	51.4	1.30	2.23	67.1		.6	18	0	"
280	5-22	1100A / 1115A	"	36.2	29.3	2.52	2.18	73.7		.6	11	0	"
281	5-27	945A / 1000A	"	41.2	30.7	2.36	2.10	72.4		.6	13	-.01	"
282	5-29	933A / 948A	"	42.0	32.9	2.21	2.16	72.7		.6	13	-.01	"
283	6-3	920A / 935A	"	42.2	30.6	2.55	2.01	78.0		.6	13	0	"
284	6-5	505P / 520P	"	65.0	40.3	1.97	2.08	79.3		.6	15	-.01	"
285	6-9	850A / 900A	"	43.0	31.0	2.29	2.07	71.0		.6	12	0	"
286	6-12	950A / 1005A	"	44.0	33.4	2.36	2.08	78.8		.6	14	+.01	"
287	6-16	840A / 855A	"	47.1	34.9	2.30	2.16	80.4		.6	16	-.01	"
288	6-18	124P / 135P	U.S.E.D.#104	45.0	27.2	2.55	2.13	69.4		.6	12	0	35549
289	6-18	135P / 150P	" #105	45.0	28.9	2.55	2.13	73.7		.6	12	0	"
290	6-19	912A / 930A	Bollinger	46.0	26.9	2.90	2.10	77.9		.6	14	-.02	FC 6
291	6-23	1128A / 1155A	U.S.E.D.#106	44.6	26.3	2.42	2.10	63.8		.6	19	---	35549
292	6-23	455P / 510P	Bollinger	58.5	32.4	2.07	2.07	67.2		.6	16	0	FC 6
293	6-27	800A / 812A	"	41.8	15.7	1.72	1.86	27.0		.6	13	-.01	"
294	6-30	953A / 1012A	"	48.8	18.8	1.74	1.86	32.7		.6	15	+.01	"
295	6-30	1232P / 1250P	U.S.E.D.#107	40.5	17.8	1.63	---	29.0		.6	15	---	35549
296	7-3	1040A / 1054A	Bollinger	25.5	16.5	2.62	1.37	43.2		.6	14	+.02	FC 6
297	7-3	426P / 450P	Bollinger & Odekirk	27.2	24.8	2.67	1.68	66.3		.6	17	+.01	"
298	7-7	827A / 842A	Bollinger	34.5	17.4	2.04	1.54	35.5		.6	16	0	"
299	7-7	1141A / 1215P	U.S.E.D.#108	35.0	19.5	1.90	1.58	37.0		.6	17	+.01	35549
300	7-10	953A / 1006A	Bollinger	31.0	17.7	2.20	1.66	39.0		.6	13	0	FC 6
301	7-14	917A / 929A	"	29.5	17.4	2.28	1.56	39.6		.6	14	0	"
302	7-14	1230P / 1255P	U.S.E.D.#109	29.0	15.4	2.16	1.49	33.3		---	15	0	35549
303	7-14	1255P / 113P	" #110	29.0	14.3	2.33	1.49	33.3		.6	14	0	"
304	7-15	1105A / 1134A	" #111	28.5	15.8	2.49	1.42	39.3		.6	14	0	"
305	7-15	1135A / 1156A	" #112	28.5	14.6	2.46	1.42	35.9		.6	14	0	"
306	7-17	938A / 950A	Bollinger	25.4	12.5	2.69	1.09	33.6		.6	11	+.02	FC 6
307	7-18	823A / 835A	"	23.5	14.0	2.68	1.15	37.6		.6	13	-.02	"
308	7-21	830A / 840A	"	25.0	15.5	2.33	1.26	36.1		.6	12	+.01	"
309	7-21	115P / 137P	U.S.E.D.#113	25.3	14.2	2.21	1.27	31.4		.6	11	0	35549
310	7-21	137P / 145P	U.S.E.D.#114	25.3	13.5	2.28	1.26	30.8		.6	10	0	35549
311	7-24	1100A / 1113A	Bollinger	25.2	14.7	2.31	1.32	34.0		.6	11	0	FC 6
312	7-28	857A / 950A	"	25.7	15.6	2.05	1.36	32.0		.6	11	-.01	"
313	7-28	100P / 119P	U.S.E.D.#115	26.0	15.0	1.99	1.38	30.0		.6	12	+.04	35549
314	7-28	119P / 139P	" #116	26.0	15.2	2.08	1.40	31.5		.6	13	0	"
315	7-31	948A / 1000A	Bollinger	26.0	15.2	2.24	1.40	34.0		.6	12	-.01	FC 6
316	8-4	812A / 821A	Bollinger & Moon	26.7	15.8	1.96	1.42	30.9		.6	12	0	"
317	8-7	945A / 957A	Bollinger	26.5	15.7	2.29	1.44	36.0		.6	11	0	"
318	8-11	839A / 855A	Moon	26.6	16.5	2.16	1.45	35.6		.6	14	0	FC 22
319	8-11	1200N / 1225P	U.S.E.D.#117	26.0	15.9	2.01	1.45	32.0		.6	15	0	35549
320	8-11	1225P / 1236P	" #118	26.0	16.5	1.95	1.45	32.1		.6	14	0	"
321	8-13	125P / 207P	" #119	39.0	26.9	2.47	1.75	66.4		.6	19	0	"
322	8-13	207P / 235P	" #120	39.0	27.3	2.07	1.75	66.5		.6	19	-.01	"
323	8-14	851A / 910A	Moon	39.5	27.0	2.45	1.70	66.2		.6	15	0	FC 22
324	8-18	855A / 916A	Moon	39.5	25.5	2.21	1.75	56.3		.6	15	0	FC 22
325	8-21	1210P / 1225P	"	29.5	11.8	1.78	1.52	21.1		.6	12	0	"
326	8-25	1118A / 1130A	Bollinger	30.5	15.9	2.01	1.58	32.2		.6	13	0	FC 6
327	8-28	1013A / 1025A	"	30.3	16.4	2.01	1.58	32.9		.6	13	0	"
328	8-30	927A /	U.S.E.D.#121	30.2	16.8	2.01	1.56	33.8		--	16	+.01	35549
329	8-30	945A / 959A	" #122	30.3	17.2	1.91	1.56	32.8		--	15	+.01	"
330	9-1	955A / 1010A	Bollinger	30.7	16.2	2.12	1.56	34.3		.6	13	+.01	FC 6
331	9-4	1050A / 1042A	"	30.7	17.1	1.96	1.67	33.5		.6	14	-.01	"
332	9-6	1001A / 1022A	U.S.E.D.#123	36.5	17.4	1.91	1.62	33.2		.6	13	0	35549
333	9-6	1022A / 1040A	" #124	36.5	15.6	1.97	1.62	30.8		.6	13	0	"
334	9-8	940A / 953A	Bollinger	31.0	17.9	2.27	1.64	40.7		.6	16	+.01	FC 6
335	9-11	1047A / 1105A	"	31.2	19.0	2.12	1.64	40.2		.6	16	-.01	"
336	9-13	947A / 1006A	U.S.E.D.#125	36.9	18.3	1.93	1.60	35.3		--	15	-.01	35549
337	9-13	1027A / 1038A	" #126	36.6	17.3	1.67	1.60	28.9		.6	14	-.01	"
338	9-15	916A / 930A	Bollinger	30.0	17.6	1.88	1.62	33.0		.6	15	0	FC 6
339	9-18	1125A / 1140A	"	30.6	17.8	2.09	1.63	37.2		.6	17	0	"
340	9-20	930A / 951A	U.S.E.D.#127	36.0	17.4	2.01	1.62	35.0		.6	16	0	35549
341	9-20	951A / 1008A	" #128	36.0	15.9	2.15	1.62	34.2		.6	14	0	"
342	9-22	933A / 946A	Bollinger	30.2	17.2	2.20	1.60	37.8		.6	13	0	FC 6
343	9-25	1055A / 1110A	"	36.8	18.3	2.05	1.61	37.5		.6	16	0	"
344	9-27	941A / 1001A	U.S.E.D.#129	37.0	16.2	2.01	1.60	32.5		.6	16	0	35549
345	9-27	1001A / 1021A	" #130	37.0	17.2	1.83	1.60	31.5		.6	16	0	"
346	9-29	912A / 926A	Bollinger	36.0	18.3	2.12	1.60	39.0		.6	15	0	FC 6

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

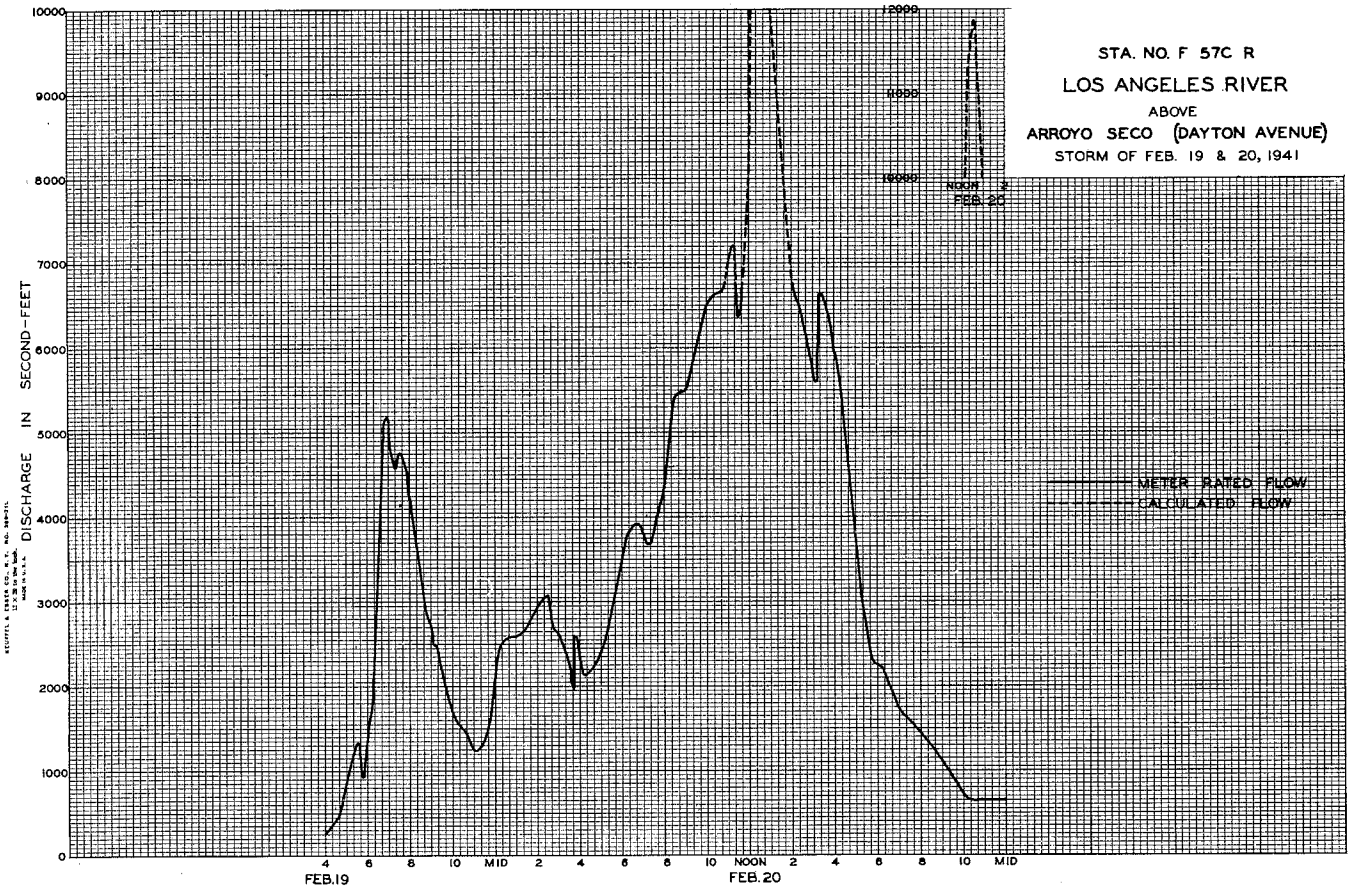
Sta. No F57C-R

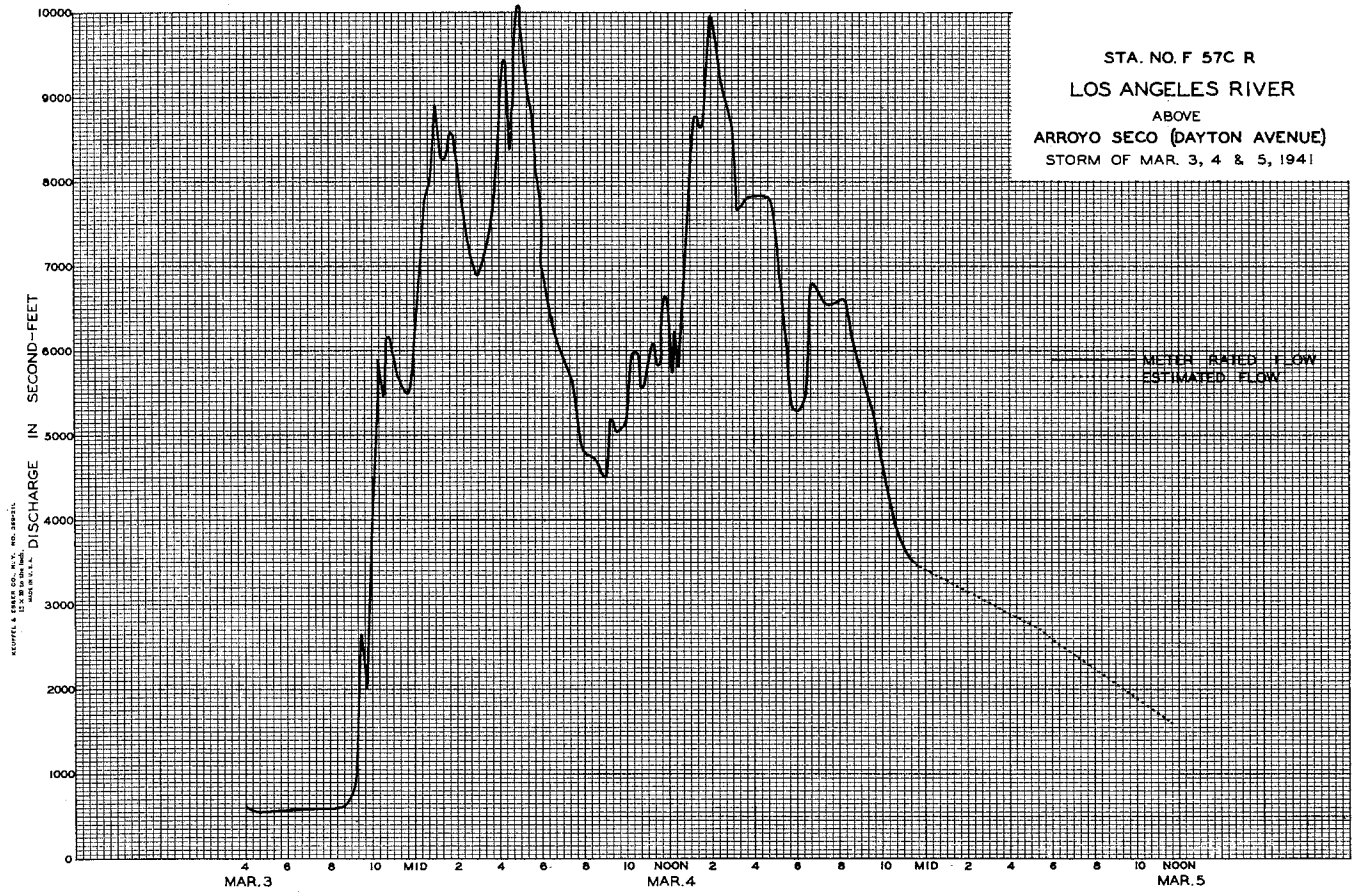
Daily discharge, in second-feet of LOS ANGELES RIVER above Arroyo Seco (Dayton Avenue) for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7	10	16	72	62	2300	1515	246	80	1 34	30	35
2	7	10	16	66	59	E 777	608	228	88	1 38	31	36
3	6	10	15	62	56	1010	E 358	212	82	1 52	28	40
4	6	9	16	59	54	6700	568	E 136	94	72	31	34
5	5	8.5	14	56	54	1960	754	E 122	85	80	33	35
6	4.2	8.5	15	56	602	1130	414	114	68	27	33	33
7	4.9	10	14	101	127	1260	390	94	68	33	35	36
8	5	14	16	125	106	979	351	96	68	36	36	42
9	6	9.5	17	97	162	960	274	77	71	40	35	40
10	7	10	18	88	162	908	300	E 82	64	36	38	40
11	7	10	20	81	570	611	815	77	74	1 39	35	36
12	7	10	31	121	229	1180	449	88	74	1 39	42	35
13	6.5	10	23	112	129	1740	474	85	80	40	64	28
14	6.5	10	21	97	715	942	465	E 85	85	40	66	30
15	5.5	9.5	25	72	1200	691	465	85	85	37	64	35
16	7	9.5	243	66	491	456	438	85	74	1 37	59	35
17	7	20	786	66	1580	438	447	91	58	E 34	47	35
18	7	37	290	64	246	343	316	66	68	31	E 45	35
19	7	29	294	64	898	358	252	64	71	38	E 30	33
20	7	15	81	62	3970	323	212	68	60	35	E 25	33
21	8	13	70	93	2640	282	181	77	51	31	E 21	36
22	9.5	13	70	126	3730	316	150	74	56	33	26	38
23	8.5	13	1490	88	E 803	302	122	68	62	31	26	38
24	7	13	1030	578	962	323	E 113	74	66	33	27	36
25	261	14	154	97	E 518	270	104	68	51	35	33	38
26	110	15	87	101	317	E 160	114	74	31	36	33	36
27	46	15	69	91	288	E 140	122	71	29	33	35	33
28	15	17	71	72	2930	538	122	64	31	28	35	36
29	12	16	118	62		1300	122	64	33	E 28	40	38
30	9	16	89	62		316	632	68	1 29	E 30	35	36
31	9.5		84	64		1202		74		33	36	
	6211	4045	5303	3021	23660	30215	11647	2971	1936	1169	1154	1071
MEAN	20.0	13.5	171.	97.4	845.	975.	388.	95.8	64.5	37.7	37.2	35.7
ACRE-FEET	1230.	802.	10520.	5990.	46930.	59930.	23100.	5890.	3840.	2320.	2290.	2120.

Remarks: E = estimated. 1 = interpolated.

YEAR OR PERIOD MEAN 228.
ACRE-FEET 165000.


STA. NO. F 57C R
LOS ANGELES RIVER
ABOVE
ARROYO SECO (DAYTON AVENUE)
STORM OF FEB. 19 & 20, 1941
DISCHARGE IN SECOND-FEET
METER RATED FLOW
CALCULATED FLOW
FEB.19
FEB.20
NOON FEB. 20


STA. NO. F 57C R
LOS ANGELES RIVER
ABOVE
ARROYO SECO (DAYTON AVENUE)
STORM OF MAR. 3, 4 & 5, 1941
DISCHARGE IN SECOND-FEET
METER RATED FLOW
ESTIMATED FLOW
MAR.3
MAR.4
MAR.5

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, 1940 to September 30, 1941.

REGULATION:

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

DIVERSIONS:

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, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 14,760 second-feet, February 20.
Minimum 8 second-feet, December 8, 1940.

1928-1941 (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. Construction work on channel during early part of year disturbed communication and stage discharge relation.

OPERATION:

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

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 41

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.
209	10-3	740A 752A	Bonadiman	14.0	14.3	1.22	3.96	17.4		.6	4	0	FC 40
210	10-10	931A 942A	"	14.5	13.5	1.23	3.92	16.6		.6	5	0	"
231	10-17	933A 952A	"	17.0	15.3	1.16	3.98	17.9		.6	7	+.04	"
232	10-24	842A 900A	"	23.0	13.4	1.27	4.00	16.9		.6	7	0	"
233	10-25	726P 755P	"	230.0	443.	2.77	5.40	1230.		.6	10	-.08	"
214	10-26	917A 940A	"	Two Channels			4.58	226.		.6	13	-.01	"
215	10-28	1010A 1030A	"	30.0	15.0	1.50	4.17	22.5		.6	6	0	"
216	10-31	228P 245P	"	80.0	46.0	0.51	4.12	23.4		.6	11	0	"
217	11-7	841A 900A	"	77.0	44.8	0.56	4.12	25.2		.6	12	0	"
218	11-14	345P 405P	"	35.5	17.0	1.36	4.15	23.0		.6	8	0	"
219	11-17	347P 408P	Bonadiman & Walton	Two Channels			4.67	218.	Sur.	.6	15	+.01	"
220	11-18	1009A 1025A	Bonadiman	177.0	134.	1.38	4.69	186.		.6	11	-.02	"
221	11-20	855A 910A	"	23.0	17.5	1.43	4.28	25.3		.6	8	0	"
222	11-28	932A 944A	"	26.0	12.7	1.33	4.24	17.0		.6	6	0	"
223	12-5	908A 925A	"	31.0	17.3	1.16	4.27	20.3		.6	8	0	"
224	12-12	900A 924A	"	60.0	41.8	1.73	4.50	72.5		.6	11	0	"
225	12-16	1002A 1030A	Bonadiman & Walton	196.0	206.	2.41	5.00	497.		.6	12	+.05 -.04	"
226	12-16	227P 242P	" "	188.0	240.	2.40	5.06	577.		.6	13	-.02	"
227	12-17	107A 135A	" "	332.0	742.	5.13	6.36	3810.		.6	14	-.18	"
228	12-17	1130A 1155A	" "	242.0	543.	4.37	5.78	2370.		.6	14	-.13	"
229	12-18	1141A 1153A	" "	73.4	70.7	1.87	4.46	132.		.6	8	-.01	"
230	12-18	720P 740P	" "	243.0	528.	4.51	5.69	2380.		.6	12	-.22	"
231	12-19	230P 245P	" "	106.0	181.	1.48	4.49	267.		.6	9	-.02	"
232	12-23	826A 900A	" "	332.0	1060.	6.46	7.15	6850.		.6	11	-.18	"
233	12-23	1109A 1214P	U.S.E.D. #1	296.0	990.	5.17	6.62	5120.		.6		-.65	35633
234	12-23	239P 326P	" #2	301.0	668.	4.74	6.00	3170.		.6		+.15	"
235	12-24	751A 810A	Bonadiman & Walton	295.0	632.	6.57	6.30	4160.		.6	10	-.20	FC 40
236	12-24	225P 246P	" "	297.0	499.	6.17	5.67	3080.		.6	14	-.03	"
237	12-25	922A 930A	" "	57.0	74.8	3.42	4.35	256.		.6	7	0	"
238	12-26	302P 320P	Bonadiman	60.0	71.3	1.75	4.16	125.		.6	7	0	"
239	12-29	1045A 1100A	"	77.0	103.	2.90	4.54	299.		.6	7	-.06	"
240	1-2	931A 950A	"	88.0	55.9	1.50	4.09	84.1		.6	11	0	"
241	1-9	912A 932A	"	90.0	71.8	1.59	4.24	114.		.6	10	0	"
242	1-10	157P 210P	"	82.3	99.0	3.01	4.54	298.		.6	9	+.01 -.02	"
243	1-16	941A 1000A	"	81.0	52.6	1.51	4.12	79.6		.6	13	0	"
244	1-22	128A 151A	Bonadiman & Walton	Two Channels			5.06	1120.		.6	12	-.08 +.05	"
245	1-22	813A 830A	Bonadiman	84.5	108.	1.99	4.40	216.		.6	8	-.03	"
246	1-23	952A 1008A	"	85.0	59.8	1.56	4.06	93.6		.6	11	0	"
247	1-24	247A 312A	Bonadiman & Walton	283.0	417.	4.78	5.64	1990.	Sur.	.6	9	-.19	"
248	1-24	521A 550A	" "	295.0	612.	7.02	6.20	4290.	Sur.	.6	9	+.04 -.06	"
249	1-24	403P 430P	Walton & Bonadiman	Four Channels			4.98	828.		.6	13	+.02 -.03	"
250	1-25	300P 310P	Bonadiman & Walton	76.0	70.9	1.63	4.20	115.		.6	7	0	"
251	1-30	838A 900A	Bonadiman	95.0	58.3	1.62	4.06	94.3		.6	14	0	"
252	2-6	809A 830A	Bonadiman & Walton	298.0	792.	8.41	6.36	6660.		.6	9	+.08	"
253	2-6	441P 455P	" "	89.0	146.	4.04	4.71	590.		.6	11	-.04 +.03	"
254	2-7	1055A 1110A	Bonadiman	75.0	86.5	1.75	4.16	151.		.6	7	-.01	"
255	2-11	1222P 1243P	Bonadiman & Walton	295.0	471.	5.08	5.50	2390.		.6	13	-.08 +.05	"
256	2-11	110 P 124P	" "	295.0	492.	5.87	5.63	2890.		.6	10	-.15	"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F54B-R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

at Firestone Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
257	2-11	456P / 511P	Bonadiman & Walton	148.0	225.	4.06	4.84	913.		.6	9	-.05	FC 40
258	2-12	1021A / 1036A	Bonadiman	119.0	103.	2.24	4.35	230.		.6	10	-.01	"
259	2-13	910A / 928A	"	125.0	86.7	2.07	4.22	179.		.6	15	+.01	"
260	2-14	416P / 446P	Bonadiman & Walton	298.0	502.	6.07	5.76	3050.		.6	12	-.04 +.01	"
261	2-15	641A / 701A	" "	Three Channels			4.96	917.		.6	10	-.11	"
262	2-15	213P / 235P	" "	301.0	599.	6.23	5.96	3730.		.6	12	+.08	"
263	2-16	1248P / 100P	" "	210.0	233.	2.41	4.63	561.		.6	10	-.02 +.02	"
264	2-16	811P / 830P	" "	303.0	493.	4.81	5.43	2370.		.6	11	+.08	"
265	2-17	712A / 736A	Walton & Bonadiman	303.0	525.	4.48	5.66	2350.		.6	12	-.04	"
266	2-18	443P / 500P	Bonadiman & Walton	Two Channels			4.64	580.		.6	13	-.03	"
267	2-19	916A / 942A	Bonadiman	" "			4.60	422.		.6	10	-.02 +.04	"
268	2-19	808P / 840P	Bonadiman & Walton	312.0	943.	7.19	6.82	6780.		.6	11	-.17	"
269	2-19	850P / 1005P	U.S.E.D. #3	289.0	917.	6.71	6.47	6160.		.6	27	-.45	35633
270	2-20	1100A / 1211P	" #5	291.0	1110.	7.46	7.26	8280.		.6	25	+.30	"
271	2-20	115P / 148P	" #6	344.0	1560.	9.17	8.08	14300.		.6	13	-.10 +.28	"
272	2-20	215P / 235P	" #7	360.0	1480.	7.09	7.63	10500.		.6	11	-.25	"
273	2-20	345P / 525P	" #8	367.0	1520.	7.24	7.48	11000.		.6	13	-.10 +.17	"
274	2-20	905P / 1032P	" #9	314.0	766.	5.71	6.24	4390.		.6	26	+.12 -.10	"
275	2-21	1146A / 258A	" #10	328.0	862.	5.44	6.26	4700.		.6	25	+.03 -.50	"
276	2-21	941A / 1010A	Bonadiman & Walton	281.0	578.	5.96	5.44	3440.		.6	10	+.04	FC 40
277	2-21	656P / 720P	" "	327.0	1050.	7.59	7.23	8160.		.6	11	-.29	"
278	2-21	930P / 1054P	U.S.E.D. #11	314.0	1270.	8.19	7.54	10400.		.6	28	+.30 -.42	35633
279	2-22	412A / 528A	" #12	344.0	868.	7.09	6.56	6150.		.6	28	+.03 -.27	"
280	2-22	1140A / 1250P	" #13	314.0	785.	5.96	6.09	4680.		.6	26	+.06	"
281	2-22	156P / 220P	Walton & Bonadiman	281.0	773.	7.22	6.17	5570.		.6	10	-.03	FC 40
282	2-23	345P / 404P	Bonadiman & Walton	Two Channels			5.00	1200.		.6	11	+.04	"
283	2-24	1013A / 1030A	" "	278.0	490.	5.47	5.58	2680.		.6	11	-.16	"
284	2-25	136P / 205P	Bonadiman	257.0	242.	3.04	4.77	735.		.6	12	+.04	"
285	2-26	1003A / 1029A	"	Two Channels			4.46	468.		.6	13	0	"
286	2-27	941A / 1010A	" " "				4.48	391.		.6	11	+.01	"
287	2-28	430P / 553P	U.S.E.D. #14	309.0	1240.	8.22	7.26	10200.		.6	25	+.70	35633
288	2-28	810P / 927P	" #15	314.0	1340.	8.34	7.58	11200.		.6	26	+.05 -.23	"
289	3-1	610A / 725A	" #16	324.0	607.	5.67	5.88	3440.		.6	24	-.20	"
290	3-2	1112A / 1123A	Bonadiman & Walton	273.0	472.	3.42	5.00	1610.		.6	11	+.07 -.04	FC 40
291	3-3	341P / 352P	" "	276.0	387.	3.52	4.96	1360.		.6	12	-.09 +.12	"
292	3-3 3-4	1146P / 1205A	" "	313.0	946.	7.73	7.03	7310.		.6	11	-.20	"
293	3-4	1128A / 1225P	U.S.E.D. #17	324.0	904.	7.35	6.49	6630.		.6	24	+.02 -.03	35633
294	3-4	200P / 312P	" #18	329.0	1260.	8.17	7.14	10300.		.6	25	+.63	"
295	3-4	930P / 1045P	" #19	334.0	1090.	6.59	6.58	7190.		.6	27	-.43	UB 2
296	3-5	541P / 605P	Bonadiman & Walton	272.0	537.	5.68	5.38	3030.		.6	10	+.10	FC 40
297	3-6	256P / 310P	" "	270.0	464.	4.03	5.11	1870.		.6	10	-.09	"
298	3-10	1011A / 1030A	Bonadiman	268.0	340.	2.92	4.71	994.		.6	10	-.01	"
299	3-12	315P / 353P	U.S.E.D. #20	324.0	753.	4.36	5.42	3280.		.6	24	-.03 +.44	USED Comp.
300	3-12	440P / 517P	" #21	324.0	1040.	5.19	5.90	5400.		.6	25	-.05 +.09	"
301	3-14	421P / 440P	Walton & Bonadiman	279.0	707.	4.57	5.60	3230.		.6	10	-.03 +.01	FC 40
302	3-15	844A / 900A	" "	266.0	317.	2.52	4.64	800.		.6	9	-.06 +.05	"
303	3-26	352P / 516P	U.S.E.D.#22	Three Channels			4.11	183.		.6	36	-.02	35616
304	3-27	930A / 950A	Bonadiman	Three Channels			4.12	194.		.6	12	0	FC 40
305	3-28	900P / 936P	Bonadiman & Walton	291.0	946.	8.27	6.41	7820.		.6	11	+.05 -.07	"
306	3-29	606A / 628A	" "	268.0	471.	5.14	5.27	2420.		.6	9	-.12	"
307	3-30	921A / 939A	" "	Three Channels			4.10	473.		.6	15	0	"
308	3-31	1240P / 1255P	" "	288.0	731.	6.42	5.78	4690.		.6	11	-.16	"
309	4-1	112P / 126P	" "	275.0	342.	3.57	4.95	1220.		.6	10	+.02 -.01	"
310	4-2	941A / 957A	" "	Two Channels			4.60	737.		.6	12	+.01	"
311	4-3	911A / 925A	Bonadiman	" "			4.46	724.		.6	11	0	"
312	4-5	111A / 136A	Bonadiman & Walton	264.0	387.	4.67	5.08	1810.		.6	8	-.04	"
313	4-5	910A / 926A	" "	260.0	280.	2.66	4.70	744.		.6	9	-.02	"
314	4-10	931A / 955A	Bonadiman	Two Channels			4.15	374.		.6	13	-.01	FC 40
315	4-11	1149A / 214A	Bonadiman & Walton	290.0	762.	5.09	5.74	3880.		.6	11	+.06 -.06	"
316	4-11	1038A / 1053A	" "	275.0	397.	3.76	4.88	1490.		.6	9	-.05	
317	4-12	116P / 130P	" "	267.0	287.	2.50	4.54	720.		.6	10	0	"
318	4-14	951A / 1010A	Bonadiman	261.0	270.	2.22	4.52	599.		.6	10	-.01	"
319	4-17	836A / 850A	"	254.0	256.	2.34	4.47	600.		.6	10	-.01	"
320	4-24	901A / 920A	"	Two Channels			4.05	191.		.6	11	0	"
321	4-30	741A / 800A	"	265.0	420.	3.26	4.84	1370.		.6	10	-.03 +.01	"
322	4-30	116P / 135P	"	264.0	519.	3.87	5.13	2010.		.6	10	-.04	"
323	5-1	900A / 922A	"	Two Channels			4.19	316.		.6	15	+.02	"
324	5-8	811A / 840A	" " "				4.06	139.		.6	11	0	"
325	5-15	916A / 930A	" " "				3.95	122.		.6	15	0	"
326	5-22	942A / 955A	"	34.0	40.5	2.45	3.85	98.5		.6	9	0	"
327	5-29	850A / 905A	"	32.5	38.7	2.12	3.82	82.0		.6	10	0	"
328	6-5	935A / 950A	Bonadiman	34.0	39.5	2.00	3.89	79.2		.6	10	0	FC 40
329	6-12	820A / 831A	"	33.5	36.8	2.34	3.95	86.4		.6	12	0	"
330	6-18	1025A / 1035A	U.S.E.D. #23	38.0	38.3	2.23	4.03	86.0		.6	10	0	35549
331	6-18	1050A / 1100A	" #24	38.0	46.6	1.71	4.03	80.0		.6	10	0	"
332	6-19	900A / 925A	Bonadiman	37.5	45.4	2.07	---	94.2		.6	9	0	FC 40
333	6-20	1225P / 1237P	Bonadiman & Brown	38.0	43.2	1.94	3.89	83.9		.6	13	0	"
		Note: Gage moved to new location and gage height datum on 6-20 & 6-21-41.											
334	6-23	1042A	U.S.E.D. #25	36.2	37.3	2.11	3.88	79.0		.6	20	0	35549
335	6-26	838A / 855A	Bonadiman	32.5	28.7	1.45	3.64	42.3		.6	9	0	FC 40
336	6-30	1101A / 1115A	U.S.E.D.# 26	36.8	25.6	1.88	3.71	48.0		.6	18	0	35549
337	7-3	855A / 906A	Bonadiman	37.0	29.3	1.57	3.75	46.2		.6	11	0	FC 40
338	7-10	901A / 922A	"	37.5	31.9	1.63	3.75	51.9		.6	10	0	"
339	7-17	856A / 916A	"	37.5	36.0	1.58	3.77	56.8		.6	12	0	"
340	7-21	1005A / 1037A	U.S.E.D.#27	Two Channels			3.70	48.7		.6	15	0	35549
341	7-21	1037A / 1056A	" #28	"			3.70	46.0		.6	14	0	"
342	7-24	831A / 846A	Bonadiman	37.5	30.9	1.36	3.76	42.4		.6	12	0	FC 40
343	7-28	950A / 1025A	U.S.E.D.#29	36.5	29.4	1.70	3.80	50.0		.6	18	0	35549
344	7-28	1025A / 1054A	" 30	36.5	28.0	1.77	3.81	49.4		.6	17	+.01	"
345	7-31	943A / 1006A	Bonadiman	37.5	30.1	1.63	3.78	49.0		.6	14	0	FC 40
346	8-4	1016A / 1049A	U.S.E.D.#31	Two Channels			3.76	51.9		.6	19	+.02	35549
347	8-4	1049A / 1115A	" #32	" "			3.76	52.5		.6	17	+.02	"
348	8-7	917A / 945A	Bonadiman	37.5	30.4	1.51	3.80	46.4		.6	15	0	FC 40
349	8-11	951A / 1025A	U.S.E.D.#33	36.5	30.3	1.70	3.82	51.6		.6	22	0	35549
350	8-11	1025A / 1053A	" #34	36.5	29.1	1.82	3.82	52.8		.6	20	0	"
351	8-13	1007A / 1045A	" #35	36.0	40.5	2.22	4.02	89.8		.6	23	0	"
352	8-13	1045A / 1115A	U.S.E.D.#36	36.0	39.9	2.34	4.02	93.3		.6	19	0	35549
353	8-14	907A / 925A	Bonadiman	37.5	45.8	1.83	3.94	84.1		.6	2	0	FC 40
354	8-18	1005A / 1028A	U.S.E.D.#37	36.5	38.0	2.01	3.92	76.5		.6	14	0	35549
355	8-18	1050A / 1055A	" #38	36.5	38.2	1.92	3.92	73.3		.6	14	0	"
356	8-21	932A / 1000A	Bonadiman	37.3	26.8	1.51	3.77	40.5		.6	13	0	FC 40
357	8-25	1019A / 1045A	U.S.E.D.#39	35.5	25.8	1.84	3.84	47.5		.6	15	0	35549
358	8-25	1045A / 1108A	" #40	35.5	24.3	1.81	3.84	44.0		.6	15	-.01	"
359	8-27	842A / 908A	Bonadiman	37.5	33.8	1.72	3.84	58.0		.6	14	0	FC 40
360	9-2	940A / 1006A	U.S.E.D.#41	36.7	26.7	1.79	3.82	47.9		.6	21	+.01	35549
361	9-2	1007A / 1025A	" #42	36.7	27.1	1.59	3.84	43.0		.6	18	+.02	"
362	9-4	959A / 1000A	Bonadiman	37.5	30.4	1.71	3.85	52.3		.6	13	0	FC 40
363	9-8	1001A / 1027A	U.S.E.D.#43	36.5	24.3	1.98	3.86	48.1		.6	16	+.02	35549
364	9-8	1027A / 1045A	" #44	36.5	26.5	1.77	3.86	46.9		.6	14	+.02	"
365	9-10	853A / 910A	Moon	30.7	23.2	2.03	3.81	47.1		.6	13	0	FC 22
366	9-15	1002A / 1025A	U.S.E.D.#45	36.5	23.9	2.12	3.81	50.7		.6	16	0	35549
367	9-15	1025A / 1045A	" #46	36.5	26.2	1.84	3.81	48.1		.6	16	0	"
368	9-17	856A / 910A	Moon	24.6	22.8	1.78	3.81	40.5		.6	12	0	FC 22
369	9-22	1003A / 1024A	U.S.E.D.#47	36.5	28.4	1.87	3.86	52.9		.6	16	0	35549
370	9-22	1024A / 1041A	" #48	36.5	29.5	1.74	3.86	51.4		.6	15	0	"
371	9-24	855A / 915A	Moon	33.0	26.8	1.53	3.81	41.0		.6	12	0	FC 42
372	9-29	945A / 1007A	U.S.E.D.#49	36.5	26.7	1.81	3.80	48.2		.6	16	+.01	35549
373	9-29	1007A / 1029A	" #50	36.5	26.7	1.61	3.80	42.9		.6	16	+.01	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

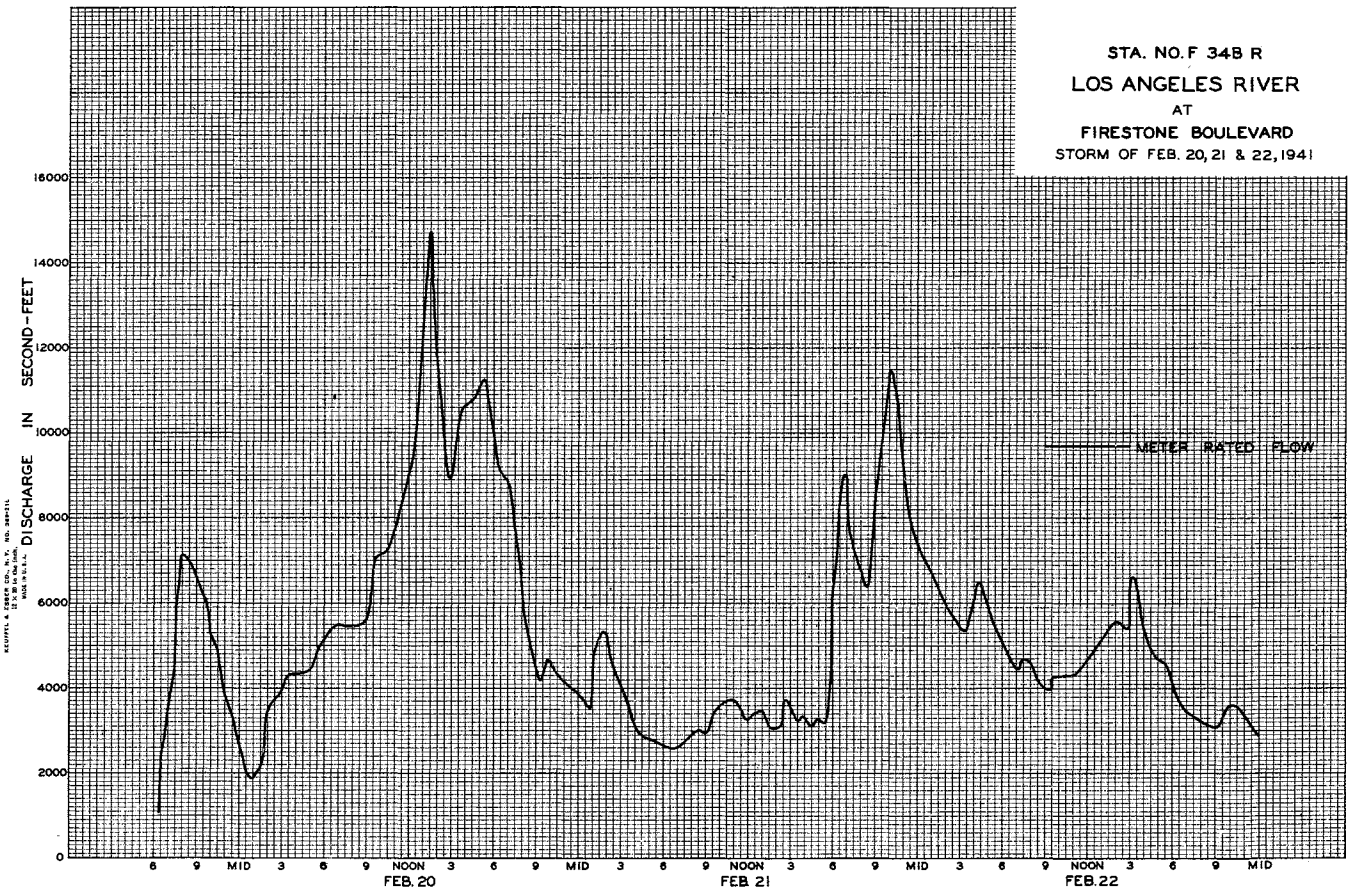
Sta. No. F34B-R

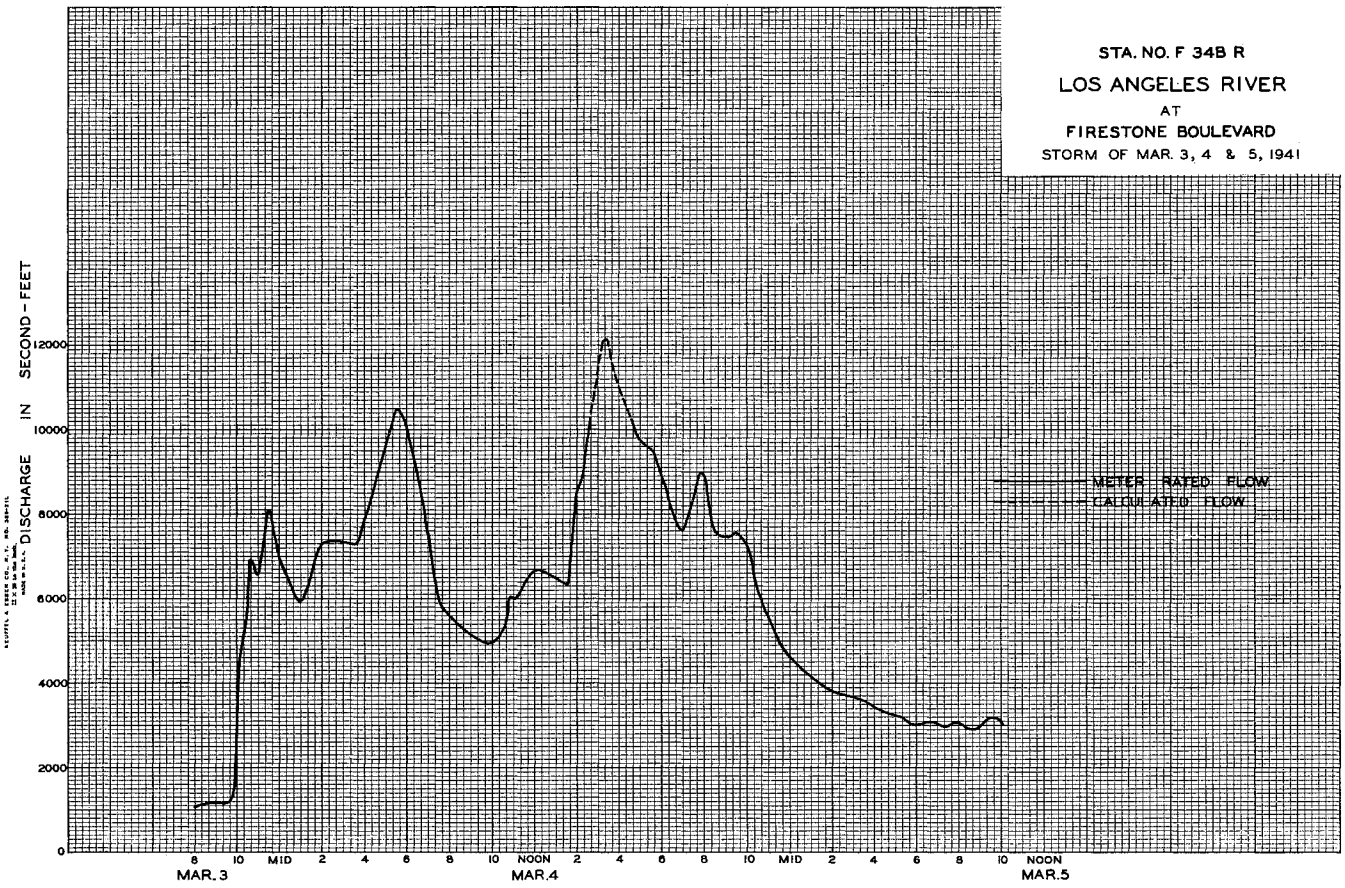
Daily discharge, in second-feet of LOS ANGELES RIVER at Firestone Boulevard, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	i 17	24	15	55	118	2920	1750	336	68	54	53	40
2	i 17	22	18	85	118	1590	845	366	56	52	51	46
3	E 17	18	22	90	132	1520	644	336	77	54	50	51
4	i 17	22	20	90	132	7580	837	178	73	76	53	50
5	i 17	27	20	90	147	3100	967	172	85	74	50	51
6	i 17	24	15	79	1350	1960	671	158	117	47	50	45
7	i 17	27	12	147	145	1710	593	145	112	52	46	38
8	i 17	43	10	154	127	1220	581	145	112	53	46	48
9	i 17	24	13	107	178	1010	556	138	101	54	50	53
10	E 17	15	12	129	198	1130	704	172	101	54	46	53
11	i 17	18	12	68	798	1110	1540	205	90	61	53	50
12	i 17	20	38	124	288	1990	710	158	85	56	60	43
13	i 17	22	13	132	185	2280	569	106	i 85	56	83	42
14	i 18	E 22	10	250	1810	1910	581	117	i 84	53	81	40
15	i 18	24	10	E 132	2160	932	495	E 122	i 84	56	79	45
16	i 18	27	616	90	1260	684	544	i 119	i 84	56	67	40
17	E 18	72	1930	90	1880	606	569	i 115	i 83	58	58	39
18	i 18	107	554	90	672	581	520	i 112	E 83	58	67	40
19	i 18	36	393	96	1480	E 495	327	i 109	E 94	56	43	40
20	i 18	27	79	113	6700	451	280	i 106	E 84	54	36	39
21	i 17	18	50	133	4700	462	263	i 102	59	i 51	38	38
22	i 17	15	36	305	4790	418	263	E 99	67	i 48	43	43
23	i 17	18	2500E	127	1470	407	205	i 97	67	45	45	39
24	E 17	13	1750E	1370	1490	407	198	i 94	56	46	42	40
25	551	18	288	147	810	E 336	198	92	54	48	46	43
26	425	18	124	162	E 484	E 270	213	89	45	45	53	43
27	139	18	79	E 130	396	230	230	i 87	46	42	60	42
28	24	15	55	107	3790	1100	246	i 84	44	50	58	40
29	30	18	195	90		1990	263	E 82	44	51	55	46
30	22	18	30	107		466	1050	85	50	53	46	46
31	22		93	107		1950		81		50	43	
	1628	790	9012	4996	37808	42815	17412	4407	2290	1663	1651	1313
Mean	52.5	26.3	291.	161.	1350.	1381.	580.	142.	76.3	53.6	53.3	43.8
Acre Feet	3230.	1570.	17880.	9910.	74990.	84920.	34540.	8740.	4540.	3300.	3270.	2600.

Remarks: E = estimated. i = interpolated.

Year or Period: Mean 345. Acre-Feet 249500.





STATION F18OR

LOS ANGELES RIVER at State Street, Long Beach

LOCATION:

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

DRAINAGE AREA:

Indeterminate due to a natural split near Arrow Highway which divides the San Gabriel River into 2 branches; the west branch known as the Rio Hondo flows into the Los Angeles River; the east branch retains the name San Gabriel River.

CHANNEL AND CONTROL:

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, 1940 to September 30, 1941.

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.
Parties and agencies have various irrigation diversions. Several agencies divert flow at various locations for spreading.

RECORDS AVAILABLE:

October 31, 1931 to September 30, 1941
For earlier records see Station F36R - Los Angeles River at Willow Street.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 18170 second-feet, March 4.
Minimum 16.1 second-feet, November 25.
1931-1941
Maximum 99000 second-feet, estimated, March 2, 1938.
Minimum no flow at various times in 1934.

ACCURACY:

Fair.
Flow frequently interpolated or estimated by comparison due to communication being obstructed by sand and 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 and the United States Engineer Department.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F180R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

AT State Street, Long Beach DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
334	10-3	1041A / 1100A	Bonadiman	87.0	41.9	0.69	5.97	29.0		.6	15	0	FC 40
335	10-10	1232P / 1250P	"	78.0	40.0	0.75	5.98	30.0		.6	9	0	"
336	10-17	1225P / 1245P	"	90.0	36.9	0.65	5.99	24.1		.6	11	0	"
337	10-24	1105A / 1120A	"	Two Channels			5.99	21.4		.6	12	0	"
338	10-25	950P / 1020P	"	"	"		7.31	1460.		.6	15	0	"
339	10-26	722A / 746A	"	"	"		6.88	578.		.6	12	-.02	"
340	10-28	130P / 150P	"	37.0	33.6	1.32	6.02	44.4		.6	9	0	"
341	10-31	125DP / 115P	"	39.0	23.2	1.07	5.87	24.7		.6	7	0	"
342	11-7	1050A / 1114A	"	45.5	23.1	0.89	5.83	20.6		.6	9	0	"
343	11-14	210P / 228P	"	47.0	26.1	0.99	5.90	26.0		.6	10	-.01	"
344	11-18	1225P / 1250P	"	142.0	161.	1.30	6.53	210.	Sur	.6	11	+.05	"
345	11-20	1115A / 1130A	"	30.5	29.2	1.41	6.04	41.1		.6	9	0	"
346	11-28	1120A / 1138A	"	31.0	24.3	0.84	5.92	20.4		.6	7	0	"
347	12-5	1145A / 1200N	"	77.0	49.5	0.88	5.99	43.6		.6	8	0	"
348	12-12	1108A / 1120A	"	33.0	28.8	1.14	6.02	32.6		.6	8	0	"
349	12-16	112P / 130P	Bonadiman & Walton	71.0	74.9	0.96	6.17	71.7		.6	6	-.02	"
350	12-16	345P / 415P	" "	Three Channels			6.93	887.		.6	20	-.03	"
351	12-17	245A / 320A	" "	"	"		8.60	5670.		.6	18	-.23	"
352	12-17	900A / 920A	" "	Two	"		7.92	2890.		.6	15	-.15	"
353	12-17	246P / 310P	" "	"	"		7.44	1680.		.6	14	-.07	"
354	12-18	205P / 230P	" "	105.4	134.	1.31	6.19	175.		.6	9	0	"
355	12-18	910P / 946P	" "	Three Channels			8.01	4050.		.6	19	+.01 -.11	"
356	12-19	1213P / 1231P	" "	157.7	183.	2.54	6.52	465.		.6	12	0	"
357	12-23	1030A / 1110A	Bonadiman & Walton	Two Channels			10.22	10930.		.6	14	-.11 +.11	FC 40
358	12-23	102P / 142P	" "	"	"		9.80	11590.		.6	14	-.47	"
359	12-24	954A / 1025A	" "	Three Channels			8.90	7090.		.6	14	-.20	"
360	12-25	835A / 850A	" "	158.0	293.	1.57	6.42	461.		.6	9	0	"
361	12-26	1202P / 1221P	Bonadiman	105.9	109.	1.23	5.97	134.		.6	8	0	"
362	1-2	101P / 120P	"	93.4	93.0	1.30	5.93	121.		.6	7	0	"
363	1-9	149P / 210P	"	Two Channels			6.13	124.		.6	11	0	"
364	1-16	1155A / 1215P	"	"	"		6.00	107.		.6	11	0	"
365	1-22	327A / 345A	Bonadiman & Walton	209.0	348.	1.58	6.45	549.		.6	12	+.08	"
366	1-22	923A / 942A	Bonadiman	158.9	380.	1.80	6.68	683.		.6	14	-.05	"
367	1-23	1202P / 1220P	"	Three Channels			6.04	124.	Sur	.6	12	0	"
368	1-24	750A / 824A	Bonadiman & Walton	Two Channels			9.16	8320.	Sur	.6	18	-.12	"
369	1-24	250P / 320P	Walton & Bonadiman	Three Channels			7.38	1650.		.6	15	-.10	"
370	1-25	1247P / 105P	Bonadiman & Walton	78.3	109.	2.12	5.81	231.		.6	8	0	"
371	1-30	1119A / 1135A	Bonadiman	102.	103.	0.93	5.78	95.1		.6	10	0	"
372	2-6	953A / 1031A	Bonadiman & Walton	Three Channels			8.77	6870.		.6	18	+.04	"
373	2-6	344P / 402P	" "	"	"		7.30	1210.		.6	10	-.06	"
374	2-7	256P / 319P	Bonadiman	81.3	116.	1.71	5.96	198.		.6	9	0	"
375	2-11	251P / 314P	Bonadiman & Walton	Two Channels			7.84	3700.		.6	14	+.09	"
376	2-11	627P / 646P	" "	Three Channels			7.54	2160.		.6	14	-.03	"
377	2-12	100P / 124P	Bonadiman	Two Channels			6.28	481.		.6	9	-.02	FC 40
378	2-13	131P / 150P	"	"	"		5.89	224.		.6	9	0	"
379	2-14	622P / 700P	Bonadiman & Walton	"	"		8.32	3980.		.6	14	+.10	"
380	2-14	942P / 1025P	Bonadiman & Walton	Two Channels			9.54	9720.		.6	13	-.44	FC 40
381	2-14	1030P / 1145P	U.S.E.D. #1	435.0	3140.	3.75	9.06	11780.		.6	13	-1.05	35628
382	2-15	1230A / 1255A	" #2	352.0	2550.	3.60	8.43	9180.		.6	7	-.19	"
383	2-15	1214P / 1236P	Bonadiman & Walton	Three Channels			6.98	625.		.6	9	-.01	FC 40
384	2-15	411P / 500P	Walton & Bonadiman	"	"		8.38	6040.		.6	18	-.03 +.15	"
385	2-16	1202P / 1222P	Bonadiman & Walton	"	"		6.85	470.		.6	6	0	"
386	2-16	1042P / 1126P	Walton & Bonadiman	"	"		8.00	3400.		.6	12	+.04	"
387	2-17	726A / 811A	U.S.E.D. #3	412.0	2140.	3.81	8.48	8160.		.6	15	+.06 -.01	35628
388	2-18	300P / 320P	Bonadiman & Walton	107.0	186.	2.49	---	462.		.6	7	--	FC 40
389	2-19	1040A / 1057A	Bonadiman	96.5	231.	1.92	---	445.		.6	8	0	"
390	2-19	1047P / 1125P	Bonadiman & Walton	326.0	1650.	4.74	9.36	7830.		.6	11	-.30	"
391	2-20	911A / 1038A	U.S.E.D. #4	422.0	1800.	3.86	9.14	6940.		.6	14	+.18	35628
392	2-20	1230P / 118P	" #5	418.0	1760.	5.23	10.16	9200.		.6	8	+.10	"
393	2-20	357P / 443P	" #6	476.0	2520.	5.65	10.29	14230.		.6	11	-.25	"
394	2-20	725P / 754P	" #7	476.0	2040.	4.59	10.10	9370.		.6	11	-.02	"
395	2-20 2-21	1155P / 1218A	" #8	435.0	1320.	3.59	9.23	4730.		.6	8	-.20	"
396	2-21	1230P / 1250P	Bonadiman & Walton	454.5	910.	6.02	8.87	5480.		.6	11	-.04	FC 40
397	2-21	825P / 926P	U.S.E.D.# 9	476.0	1270.	7.28	10.10	9160.		.6	10	-.10	35628
398	2-21	1020P / 1050P	Bonadiman & Walton	461.0	1570.	7.45	10.66	11670.		.6	11	+.35	FC 40
399	2-21 2-22	1133P / 1215A	U.S.E.D.#10	478.0	2330.	7.09	11.08	16520.		.6	12	-.13	35628
400	2-22	306A / 338A	" #11	474.0	1550.	4.83	10.17	7480.		.6	11	-.06	"
401	2-22	1110A / 1145A	Walton & Bonadiman	Two Channels			9.16	5140.		.6	13	-.08	FC 40
402	2-23	111P / 130P	Bonadiman	148.0	642.	5.06	7.81	3250.		.6	9	0	FC 40
403	2-24	1158A / 1230P	Bonadiman & Walton	Two Channels			8.71	4970.		.6	15	-.13	"
404	2-25	1256P / 125P	Bonadiman	158.0	418.	2.50	7.63	1050.		.6	11	0	"
405	2-26	1252P / 109P	"	Two Channels			7.37	514.		.6	11	-.02	"
406	2-27	1227P / 1245P	"	Two Channels			7.31	540.		.6	11	+.02	"
407	2-28	617P / 659P	Bonadiman & Walton	456.5	1850.	8.10	10.64	14520.		.6	12	+.50	"
408	2-28	823P / 852P	U.S.E.D.#12	479.0	1770.	8.19	11.20	14500.		.6	12	0	35628
409	3-1	1210A / 1236A	" #13	477.0	1540.	7.84	10.42	12070.		.6	12	-.25	"
410	3-1	1116A / 1145A	Bonadiman & Walton	454.5	836.	5.54	8.96	4630.		.6	12	-.04	FC 40
411	3-2	231P / 302P	" "	Two Channels			8.28	2600.		.6	19	-.06	"
412	3-3	208P / 250P	" "	Three Channels			7.59	917.		.6	14	-.02	"
413	3-4	216A / 245A	" "	456.5	1420.	6.65	10.38	9450.		.6	12	-.14	"
414	3-4	846A / 917A	" "	456.5	1570.	7.91	10.33	12400.		.6	13	-.10	"
415	3-4	952A / 1015A	U.S.E.D.#14	476.0	1320.	6.85	10.10	9030.		.6	11	-.10	35628
416	3-4	420P / 449P	" #15	484.0	1830.	7.23	11.21	13230.		.6	12	+.09	"
417	3-5	220P / 250P	Walton & Bonadiman	456.5	1470.	4.47	9.69	6560.		.6	14	-.03	FC 40
418	3-6	126P / 206P	Bonadiman & Walton	456.5	1110.	3.77	8.76	4200.		.6	13	+.05	"
419	3-10	145P / 210P	Bonadiman	453.0	627.	2.95	8.48	1850.		.6	13	0	"
420	3-12	855P / 947P	Walton & Hall	456.5	1310.	5.39	9.60	7030.		.6	17	-.21	"
421	3-14	1105A / 1128A	Walton & Bonadiman	436.0	717.	3.45	8.74	2470.		.6	10	-.02	"
422	3-15	947A / 1017A	" "	Two Channels			8.47	2420.		.6	11	-.03 +.01	"
423	3-19	419P / 432P	Bonadiman	153.0	216.	2.99	7.73	644.		.6	8	0	"
424	3-27	202P / 225P	"	Two Channels			7.75	295.		.6	12	0	"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F180R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

AT State Street, Long Beach DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
425	3-28	1135P 1155P	Bonadiman & Walton	456.5	1050.	6.74	9.76	7080.		.6	11	-.21	FC 40
427	3-29	1003A 1031A	" "	454.0	864.	4.42	9.15	3820.		.6	11	-.08	"
428	3-30	1242P 102P	Bonadiman	152.0	296.	2.36	7.80	698.		.6	10	0	"
429	3-31	235P 252P	Bonadiman & Walton	456.5	1080.	5.58	9.79	6030.		.6	11	-.11	"
430	4-1	1043A 1100A	" "	454.5	725.	4.01	8.95	2910.		.6	13	-.02	"
431	4-2	1245P 108P	" "	Two Channels			8.19	1220.		.6	18	-.02	"
432	4-3	145P 204P	Bonadiman	371.5	541.	1.79	8.06	969.		.6	14	-.01 +.01	"
433	4-5	245A 310A	Bonadiman & Walton	454.5	850.	4.14	8.98	3520.		.6	11	-.12	"
434	4-5	816A 835A	" "	Two Channels			8.45	2070.		.6	10	-.02	"
435	4-10	141P 205P	Bonadiman	" "			7.96	650.		.6	10	0	"
436	4-11	331A 400A	Bonadiman & Walton	456.5	1080.	5.69	9.53	6150.		.6	12	-.04	"
437	4-11	1212P 1223P	" "	455.5	635.	3.76	8.83	2390.		.6	12	+.02	"
438	4-12	1109A 1125A	" "	Two Channels			8.43	1600.		.6	12	-.03	"
439	4-17	126P 142P	Bonadiman	" "			8.02	263.		.6	11	0	"
440	4-24	211P 229P	"	" "			7.77	309.		.6	8	0	"
441	4-30	1150A 1215P	"	456.0	596.	4.33	8.80	2580.		.6	11	+.10	"
442	5-1	206P 230P	"	Two Channels			8.04	407.		.6	15	0	"
443	5-8	206P 230P	Bonadiman	Four Channels			7.79	268.		.6	17	0	FC 40
444	5-15	207P 235P	"	Five "			7.72	235.		.6	21	0	"
445	5-22	242P 300P	"	Three "			7.44	92.0		.6	11	0	"
446	5-29	1251P 110P	"	" "			7.39	116.		.6	13	0	"
447	6-5	201P 230P	"	Two "			7.47	133.		.6	11	0	"
448	6-12	925A 950A	Bonadiman	Three Channels			7.52	131.		.6	16	0	FC 40
449	6-19	131P 156P	"	Four "			7.59	123.		.6	14	0	"
450	6-26	101P 129P	"	Five "			7.46	78.3		.6	11	0	"
451	7-3	120P 155P	"	Four "			7.56	132.		.6	27	0	"
452	7-10	1246P 124P	"	Seven "			7.59	120.		.6	30	0	"
453	7-17	115P 145P	"	Five "			7.52	81.8		.6	24	-.01	"
454	7-24	1246P 130P	"	Six "			7.48	64.8		.6	30	0	"
455	7-31	155P 215P	"	Five "			7.48	57.3		.6	28	-.01	"
456	8-7	132P 158P	"	90.0	49.0	1.19	7.46	57.5		.6	12	0	"
457	8-14	110P 140P	"	125.0	98.2	1.13	7.61	111.		.6	17	0	"
458	8-21	145P 220P	"	Two Channels			7.44	48.1		.6	17	0	"
459	8-28	1237P 100P	"	" "			7.52	60.8		.6	16	0	"
460	9-4	117P 156P	"	" "			7.46	52.4		.6	17	0	"
461	9-10	255P 320P	Moon	Three "			7.50	60.0		.6	20	0	FC 22
462	9-17	345P 402P	"	Two "			7.50	63.5		.6	13	0	"
463	9-24	1242P 100P	"	" "			7.47	60.5		.6	15	0	FC 42

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

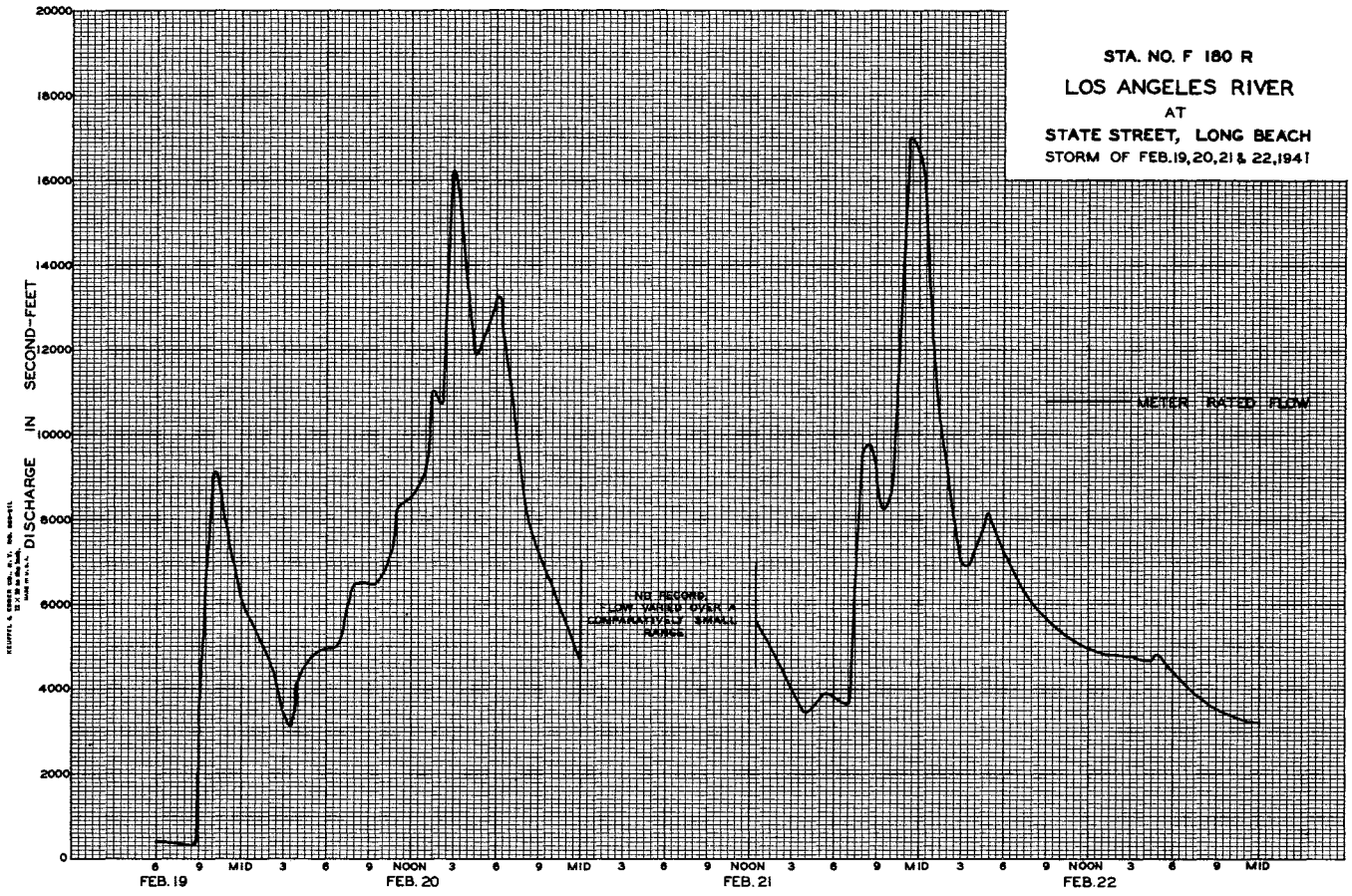
Sta. No. F180R

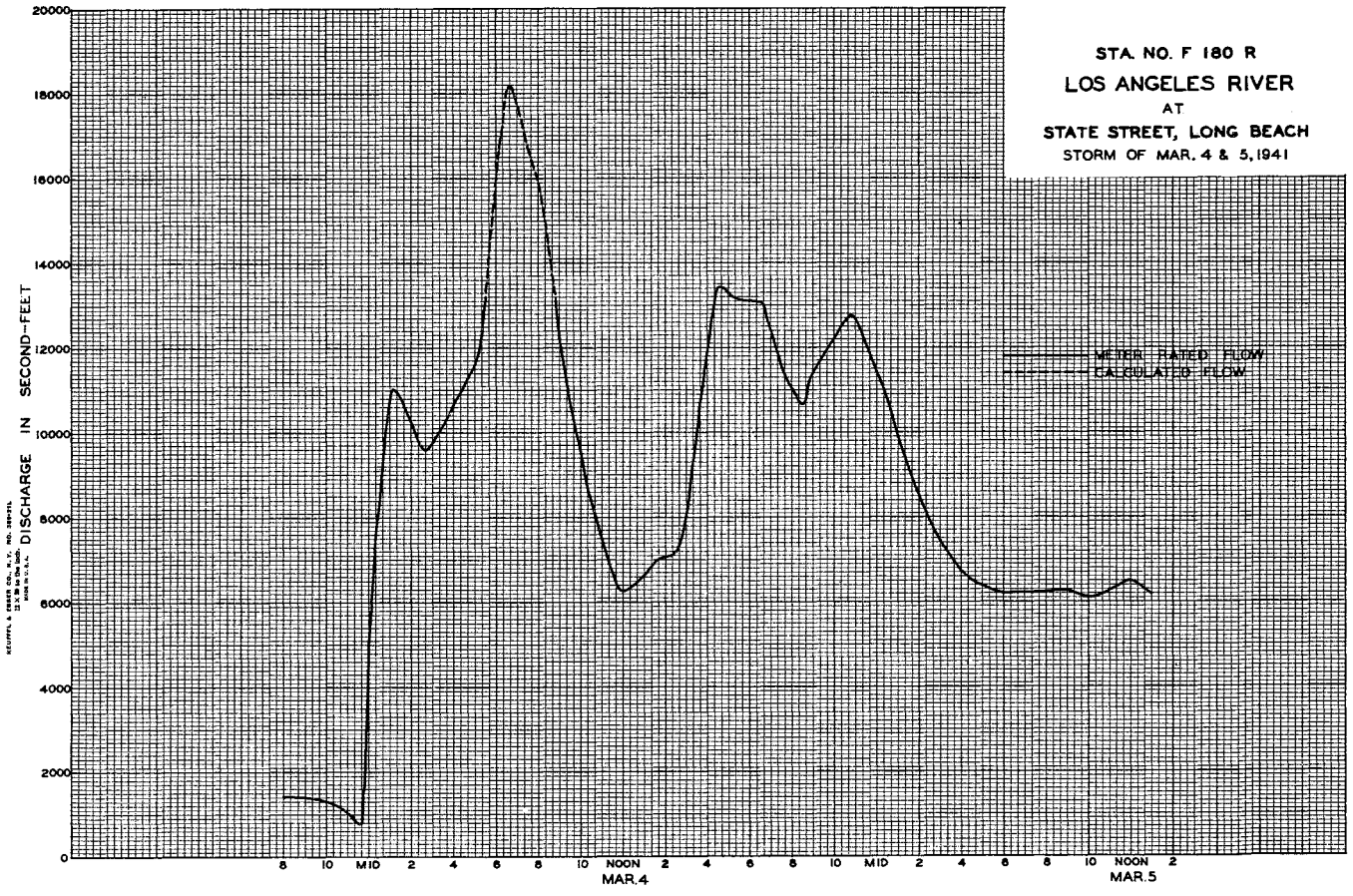
Daily discharge, in second-feet of LOS ANGELES RIVER at State Street, Long Beach, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	I 24	28	112	91	5140	E 3460	434	90	95	44	85
2	28	I 24	19	116	99	2990	1390	518	95	90	44	70
3	28	I 23	23	120	99	1250	938	628	112	85	41	60
4	30	I 23	39	112	103	11120	813	544	124	118	47	55
5	32	I 22	44	91	116	6470	2050	344	130	130	55	75
6	30	I 22	42	75	1500	4550	976	247	142	112	60	70
7	28	E 21	42	99	136	4760	879	256	142	75	60	55
8	30	26	37	157	120	3540	1040	264	148	47	50	55
9	32	28	32	120	116	2150	938	256	167	70	55	55
10	30	19	35	112	141	1750	968	230	148	85	55	55
11	28	19	35	130	928	1620	2230	230	142	80	65	50
12	28	22	49	125	644	2910	1190	223	136	90	65	55
13	26	26	46	141	244	2620	823	247	130	90	90	55
14	22	26	35	236	2380	2740	823	256	130	90	106	60
15	22	32	26	125	4080	2440	586	256	142	80	95	65
16	26	35	368	107	1250	1410	391	290	142	85	95	65
17	23	55	2320	103	4830	1120	281	298	118	80	85	65
18	26	150	616	107	782	642	281	298	112	65	75	65
19	26	44	580	112	1310	1 586	372	272	124	60	I 70	60
20	26	37	236	112	7850	494	334	142	130	60	I 65	50
21	20	22	162	130	6000E	E 490	324	112	124	50	I 65	47
22	22	18	136	479	5890	I 440	334	95	112	80	50	44
23	23	20	4060	146	2920	I 430	334	106	100	75	55	55
24	22	19	2780	2660	2620	I 430	298	124	112	80	55	55
25	206	18	443	179	1270	E 360	324	118	95	90	60	55
26	678	22	141	162	614	281	256	118	118	90	70	60
27	E 378	E 20	99	172	558	247	256	112	142	85	60	55
28	E 68	E 20	103	130	4460	924	264	112	100	85	60	50
29	39	26	336	107		2920	290	112	65	70	75	55
30	35	28	143	95		656	1320	100	70	55	90	65
31	E 25		141	86		2580		85		47	85	
	2059	891	13196	6758	51151	70060	24763	7427	3642	2494	2047	1766
Mean	66.4	29.7	426.	218.	1827.	2260.	825.	240.	121.	80.5	56.0	58.9
Acre-Feet	4080.	1770.	26170.	13400.	101500.	139000.	49120.	14730.	7220.	4950.	4060.	3500

Remarks: E = estimated. I = interpolated.

Year or Period Mean 510.
Acre-Feet 369500.


STA. NO. F 180 R
LOS ANGELES RIVER
AT
STATE STREET, LONG BEACH
STORM OF FEB. 19, 20, 21 & 22, 1941
METER RATED FLOW
NO RECORD
FLOW VARIED OVER A
COMPARATIVELY SMALL
RANGE
DISCHARGE IN SECOND-FEET
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
6 9 MID 3 6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID
FEB. 19
FEB. 20
FEB. 21
FEB. 22


STA. NO. F 180 R
LOS ANGELES RIVER
AT
STATE STREET, LONG BEACH
STORM OF MAR. 4 & 5, 1941
METER RATED FLOW
CALCULATED FLOW
DISCHARGE IN SECOND-FEET
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
8 10 MID 2 4 6 8 10 NOON 2 4 6 8 10 MID 2 4 6 8 10 NOON 2
MAR. 4
MAR. 5

STATION F130R

MALIBU CREEK at Crater Camp

LOCATION:

At upper end of Malibu Gorge, about 1/4 mile downstream from Crater Camp in the Santa Monica Mountains.

DRAINAGE AREA:

103 square miles.

CHANNEL AND CONTROL:

Channel - coarse sand and gravel lined with brush and trees which retard the velocity along the banks during high flows.
No artificial 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, 1940 to September 30, 1941.

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, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 3620 second-feet February 20.
Minimum 0.1 second-foot on several days.
1930-1941
Maximum 10,000 second-feet, estimated, March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Fair.
Flows frequently estimated or interpolated during latter half of year due to extreme channel scour which prevented communication to well.

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. F130R

DISCHARGE MEASUREMENTS OF MALIBU CREEK

AT OR NEAR Crater Camp DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
148	10-3	1123A / 1127A	Bollinger	3.0	0.66	0.29	4.18	0.19		.6	4	0	FC 6
149	10-31	235P / 240P	"	2.5	0.48	0.33	4.18	0.16		.6	4	0	"
150	11-14	155P / 200P	"	2.5	0.35	0.66	4.20	0.23		.6	3	0	"
151	12-5	323P / 330P	"	3.0	0.44	0.77	4.25	0.34		.6	5	0	"
152	12-10	1128A / 1143A	"	2.9	0.51	0.78	4.26	0.40		.6	4	0	"
153	12-17	558A / 605A	Bollinger & Rickart	30.8	30.0	0.83	4.96	24.9		.6	7	-.03	"
154	12-19	410P / 425P	Bollinger	29.5	30.4	1.12	5.23	34.1		.6	12	-.02	"
155	12-23	247P / 310P	Bollinger & Rickart	62.0	173.	4.46	7.73	772.		.6	8	-.24	"
156	12-27	1123A / 1140A	Bollinger	39.0	41.1	0.86	4.96	35.1		.6	16	0	"
157	12-30	318P / 333P	Bollinger	38.3	35.4	0.68	4.86	23.9		.6	15	-.02	FC 6
158	1-2	330P / 340P	"	31.0	38.8	0.38	4.74	14.9		.6	12	0	"
159	1-9	250P / 307P	"	34.3	31.0	1.61	5.09	49.9		.6	15	0	"
160	1-16	208P / 220P	"	31.5	19.0	1.24	4.79	23.6		.6	14	0	"
161	1-23	415P / 427P	"	34.0	36.9	1.94	5.18	71.6		.6	12	0	"
162	1-24	115P / 148P	Bollinger & Rickart	66.0	248.	5.20	8.24	1290.		.6	11	-.32	"
163	1-27	147P / 210P	Bollinger	41.7	55.8	1.90	4.82	106.		.6	18	-.01	"
164	1-30	405P / 420P	"	36.0	40.3	1.49	4.44	59.5		.6	15	0	"
165	2-6	1208P / 1224P	Bollinger & Rickart	44.0	60.2	2.92	5.35	176.		.6	8	+.02	"
166	2-11	348P / 402P	" "	49.0	117.	3.72	6.20	435.		.6	10	+.03	"
167	2-13	535P / 548P	Bollinger	42.5	59.4	2.15	4.92	128.		.6	12	0	"
168	2-14	912P / 940P	Bollinger & Rickart	63.0	216.	5.14	8.06	1110.		.6	11	-.14	"
169	2-15	855P / 925P	" "	60.0	179.	5.28	7.50	945.		.6	12	-.10	"
170	2-17	124P / 144P	" "	49.0	115.	4.18	6.52	481.		.6	10	-.03	"
171	2-19	435P / 458P	Bollinger	46.0	83.7	3.15	5.67	264.		.6	9	+.05	"
172	2-20	116P / 149P	Bollinger & Rickart	62.0	209.	6.12	8.01	1280.		.6	12	-.16	FC 6
173	2-22	205A / 231A	" "	70.0	266.	6.16	8.66	1640.		.6	13	-.14	"
174	2-24	552P / 606P	" "	52.0	137.	4.81	6.79	659.		.6	9	-.04	"
175	3-1	305A / 329A	" "	63.0	239.	6.65	8.30	1590.		.6	11	-.11	"
176	3-2	132P / 150P	" "	50.0	146.	4.01	6.50	585.		.6	9	-.01	"
177	3-11	1105A / 1120A	Bollinger	44.0	59.6	2.79	4.84	166.		.6	9	0	"
178	3-13	1215P / 1230P	Bollinger & Rickart	54.0	171.	4.53	7.06	774.		.6	10	-.05	"
179	3-19	1102A / 1132A	Bollinger	43.3	73.0	2.00	4.75	146.		.6	17	0	"
180	3-26	245P / 300P	"	42.5	48.7	1.70	4.22	83.3		.6	18	0	"
181	4-1	820A / 836A	Bollinger & Rickart	51.0	183.	4.62	7.17	846.		.6	10	0	"
182	4-1	845A / 901A	" "	51.0	188.	4.83	7.08	908.		.6	10	-.03	"
183	4-10	555P / 615P	Bollinger	44.0	78.9	2.06	4.74	163.		.6	14	+.01	"
184	4-11	1120A / 1135A	Bollinger & Rickart	49.0	109.	3.46	6.03	377.		.6	10	-.04	"
185	4-11	1141A / 1205P	" "	48.5	113.	3.54	6.00	400.		.6	11	-.01	"
186	4-17	615P / 627P	Bollinger	40.5	64.8	2.21	4.52	143.		.6	10	+.05	"
187	4-24	510P / 523P	"	38.5	47.6	1.68	4.19	80.1		.6	14	0	"
188	4-30	304P / 320P	Bollinger & Rickart	43.2	52.8	1.72	4.24	90.8		.6	18	+.02	"
189	4-30	331P / 345P	" "	43.2	54.5	1.71	4.26	93.4		.6	15	+.02	"
190	5-8	430P / 443P	Bollinger	42.3	30.1	1.33	4.17	40.0		.6	15	0	"
191	5-15	443P / 453P	"	36.0	21.2	1.32	4.07	28.1		.6	12	0	"
192	5-22	515P / 525P	"	26.0	27.1	0.89	3.97	24.4		.6	10	0	"
193	5-26	250P / 257P	"	26.0	14.2	0.63	---	9.0		.6	8	---	"
194	5-29	435P / 445P	"	18.5	25.2	0.60	4.00	15.0		.6	10	0	"
195	6-5	1208P / 1220P	"	33.5	19.7	0.91	3.87	17.5		.6	14	0	"
196	6-9	405P / 417P	Bollinger	7.0	7.78	1.67	3.81	12.5		.6	7	0	FC 6
197	6-19	215P / 227P	"	7.2	7.11	1.41	3.81	10.3		.6	11	0	"
198	6-26	200P / 210P	"	8.0	5.33	1.37	3.90	7.3		.6	8	0	"
199	7-10	347P / 357P	"	20.5	10.5	0.53	---	5.6		.6	11	---	"
200	7-17	448P / 458P	"	7.5	4.50	0.91	---	4.1		.6	8	---	"
201	7-24	502P / 513P	"	8.5	4.90	0.84	3.82	4.1		.6	9	0	"
202	8-7	515P / 522P	"	9.9	4.46	0.76	---	3.4		.6	6	---	"
203	8-14	240P / 252P	Moon	10.5	4.25	0.56	3.45	2.4		.6	10	0	FC 22
204	8-28	355P / 343P	Bollinger	10.0	4.25	0.61	---	2.6		.6	6	---	FC 6
205	9-4	412P / 418P	"	9.5	4.07	0.49	---	2.0		.6	7	---	"
206	9-18	405P / 412P	"	9.9	4.39	0.57	---	2.5		.6	7	---	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

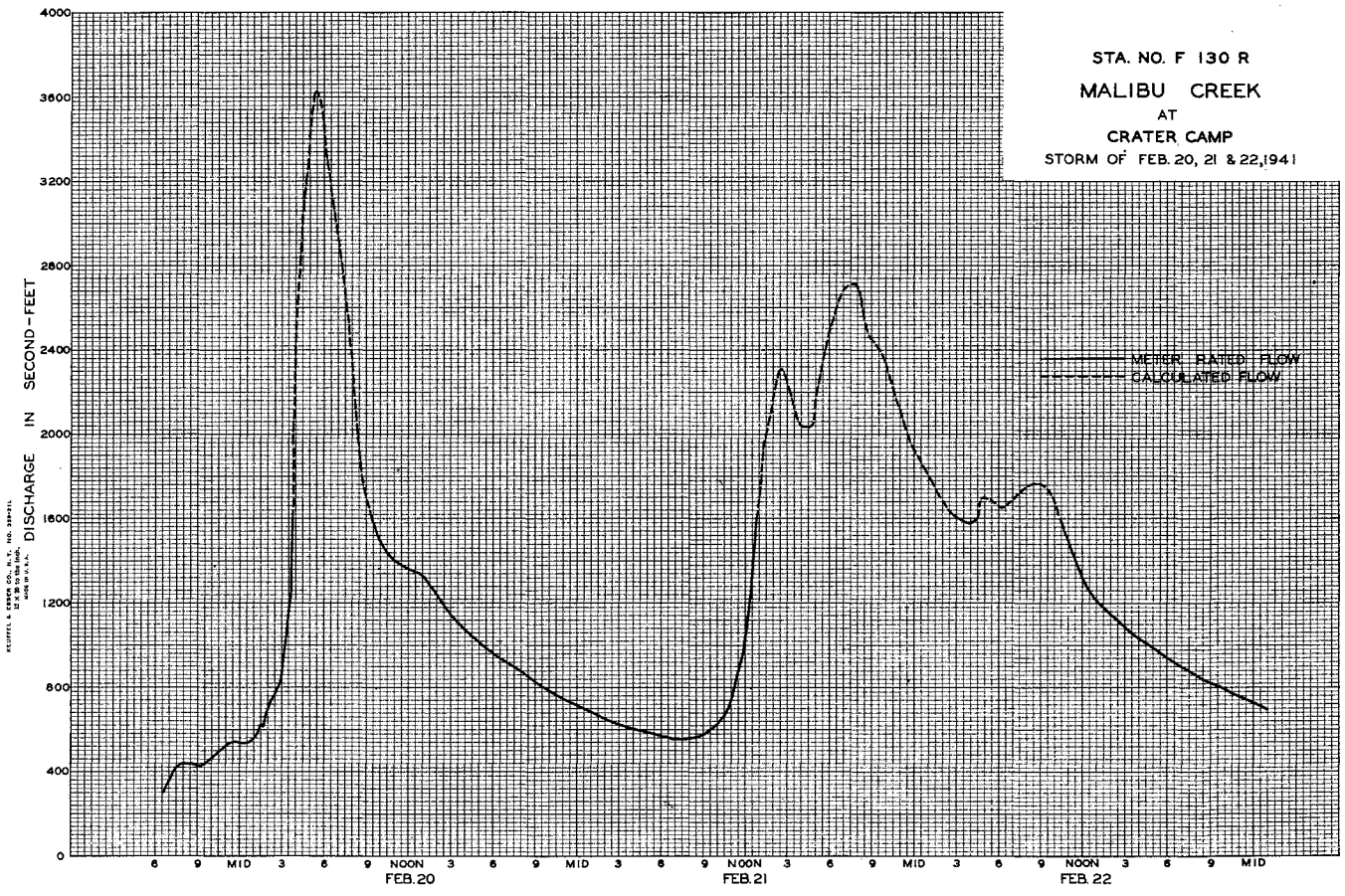
Sta. No F130R

Daily discharge, in second-feet of MALIBU CREEK at Crater Camp, for the year ending September 30, 1941

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0 2	0 2	0 4	14	55	1580	872	100	i 16	i 7	i 3.7	i 2.2
2	0 2	0 2	0 4	14	47	631	335	i 65	i 17	i 6.5	i 3.7	i 2.1
3	0 2	0 2	0 4	13	32	659	230	i 60	i 17	i 6.5	i 3.6	i 2.0
4	0 2	0 2	0 4	13	13	2200	465	56	i 18	i 6.5	i 3.5	E 2.0
5	0 2	0 2	0 4	32	17	814	680	52	E 18	i 6.5	i 3.5	i 2.0
6	0 2	0 2	0 4	10	147	465	294	48	i 16	i 6	i 3.4	i 2.1
7	0 2	0 2	0 4	31	91	336	230	44	i 14	i 6	E 3.4	i 2.1
8	0 2	0 2	0 4	66	71	2[illegible]	200	40	i 13	i 6	i 3.2	i 2.1
9	0 2	0 2	0 4	53	70	2	181	38	E 12	i 5.5	i 3.0	i 2.2
10	0 2	0 2	0 4	44	69	186	217	36	i 12	E 5.5	i 2.8	i 2.2
11	0 2	0 2	0 3	22	308	164	434	34	i 12	i 5.5	i 2.7	i 2.2
12	0 2	0 2	0 2	29	321	397	226	32	i 12	i 5	i 2.6	i 2.3
13	0 2	0 2	0 2	27	146	877	192	i 31	i 12	i 4.9	i 2.5	i 2.3
14	0 2	0 2	0 2	27	316	394	169	i 30	i 11	i 4.7	E 2.4	i 2.3
15	0 2	0 2	0 2	27	1140	323	161	E 29	i 11	i 4.5	i 2.4	i 2.4
16	0 2	0 3	0 5	24	542	205	146	i 29	i 11	i 4.3	i 2.4	i 2.4
17	0 2	0 3	51	21	652	181	140	i 28	i 11	E 4.1	i 2.4	i 2.4
18	0 1	0 4	135	20	279	162	128	i 27	i 10	i 4.1	i 2.4	i 2.5
19	0 1	0 4	92	19	280	147	110	i 26	E 10	i 4.1	i 2.5	E 2.5
20	0 1	0 4	28	18	1410	135	100	i 25	i 10	i 4.1	i 2.5	i 2.7
21	0 1	0 4	11	23	1420	122	i 95	i 24	i 9	i 4.1	i 2.5	i 2.8
22	0 1	0 4	8	87	1310	114	i 90	E 24	i 8	i 4.1	i 2.5	i 3.0
23	0 1	0 5	460	84	536	108	i 85	i 23	i 8	i 4.1	i 2.5	i 3.2
24	0 1	0 5	567	1320	615	E 101	E 80	E 15	i 7.5	E 4.1	i 2.5	i 3.4
25	0 1	0 4	111	299	392	E 93	i 75	i 9	i 7.5	i 4.1	i 2.6	i 3.6
26	0 1	0 5	46	165	277	86	70	E 9	E 7.5	i 4.0	i 2.6	i 3.7
27	0 1	0 5	38	112	226	82	i 65	i 11	i 7.5	i 4.0	i 2.6	i 3.9
28	0 2	0 4	38	90	1170	128	i 60	i 12	i 7	3.9	E 2.6	i 4.1
29	0 2	0 4	28	80		410	E 55	E 15	i 7	3.9	i 2.5	i 4.3
30	0 2	0 4	34	63		168	101	i 15	i 7	i 3.8	i 2.4	i 4.4
31	0 2		12	58		699		i 16		i 3.8	i 2.3	
	52	92	1664.6	2905	11952	12432	6286	1003	339.0	151.2	86.2	81.4
Mean	0.17	0.31	53.7	93.7	427.	401.	205.	32.4	11.3	4.88	2.78	2.71
Acre-Feet	10.	18.	3300.	5760.	23710.	24660.	12470.	1990.	672.	300.	171.	161.

Remarks: E = estimated. i = interpolated.

Year or Period: Mean 101. Acre-Feet 73220.



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 2 1/2 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 4 ft. x 3 ft. concrete stilling well.
An Au continuous recorder was in service from October 1, 1939 to October 30, 1939. An H.C.F. continuous recorder was in service from October 30, 1940 to September 30, 1941.

REGULATION:

None.

DIVERSIONS:

Monrovia pipe line diverts water above gage.

RECORDS AVAILABLE:

November 10, 1927 to September 30, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 68 second-feet, March 4.
Minimum + at various times.
1927-1941
Maximum not determined March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Good.
Flows estimated a few days due to work being performed in channel.

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 41

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.
271	10-10	848A 849A	Lindsay	0.5	0.04	0.77	4.18	0.03		.6	1	0	FC 28
272	10-17	930A 931A	"	0.5	0.05	0.40	4.18	0.02		.6	1	0	"
273	10-25	1139P 1143P	"	2.5	0.35	2.06	4.44	0.70		.6	4	0	"
274	10-31	905A 907A	"	0.5	0.06	1.00	4.22	0.06		.6	1	0	"
275	11-7	818A 821A	"	0.5	0.05	0.80	4.23	0.04		.6	1	0	"
276	11-14	834A 835A	"	0.5	0.06	1.00	4.23	0.06		.6	1	0	"
277	11-18	811A 816A	"	0.6	0.12	1.33	4.27	0.16		.6	1	0	"
278	11-20	848A 849A	"	0.6	0.11	0.82	4.23	0.09		.6	1	0	"
279	11-28	848A 850A	"	0.6	0.14	0.57	4.25	0.08		.6	1	0	"
280	12-5	454P 455P	"	0.6	0.16	0.50	4.24	0.08		.6	1	0	"
281	12-12	451P 453P	"	1.1	0.10	0.50	4.09	0.05		.6	2	0	"
282	12-13	305P 308P	"	1.3	0.11	0.55	4.04	0.06		.6	3	0	"
283	12-16	116P 120P	Lindsay-Keim	1.5	0.17	0.53	4.09	0.09		.6	3	0	"
284	12-17	152A 157A	" "	4.3	1.45	1.93	4.48	2.8		.6	5	+.01	"
285	12-17	711A 719A	" "	4.3	0.75	0.93	4.35	0.70		.6	5	0	"
286	12-18	353P 356P	Lindsay	1.6	0.21	0.90	4.26	0.19		.6	4	0	"
287	12-23	955A 958A	Lindsay-Keim	6.0	2.00	2.90	4.66	5.8		.6	6	+.04	"
288	12-23	1013A 1018A	" "	5.0	1.87	3.14	4.74	5.9		.6	5	+.01	"
289	12-24	739A 745A	" "	5.5	2.12	2.36	4.73	5.0		.6	6	0	"
290	12-24	235P 240P	" "	5.5	1.41	2.13	4.70	3.0		.6	6	0	"
291	12-27	1009A 1014A	Lindsay	2.6	0.34	0.76	4.54	0.26		.6	6	0	"
292	1-2	228P 233P	"	2.0	0.15	0.67	4.53	0.10		.6	4	0	"
293	1-8	108P 110P	Lindsay	1.0	0.11	0.82	4.52	0.09		.6	1	0	FC 28
294	1-16	905A 908A	"	1.0	0.10	0.90	4.52	0.09		.6	2	0	"
295	1-23	857A 859A	Lindsay	1.0	0.10	0.80	4.52	0.08		.6	2	0	FC 28
296	1-24	836A 841A	Lindsay-Keim	4.3	0.73	1.10	4.61	0.80		.6	5	0	FC 44
297	1-30	843A 849A	Lindsay	2.3	0.26	0.62	4.53	0.16		.6	5	0	FC 28
298	2-6	1010A 1014A	"	2.3	0.23	0.65	4.53	0.15		.6	5	0	"
299	2-11	1226P 1230P	Lindsay-Keim	5.5	1.27	1.73	4.70	2.2		.6	6	0	"
300	2-13	342P 347P	Lindsay	2.0	0.24	0.71	4.51	0.17		.6	4	0	"
301	2-14	552P 555P	Lindsay-Keim	2.1	0.30	0.83	4.56	0.25		.6	4	0	"
302	2-15	925A 928A	Lindsay	2.1	0.37	0.87	4.59	0.32		.6	4	0	"
303	2-15	330P 335P	"	5.5	1.39	1.73	4.70	2.4		.6	6	0	"
304	2-16	1028A 1032A	Lindsay-Keim	5.0	0.86	0.93	4.60	0.79		.6	6	0	"
305	2-17	134A 139A	" "	5.5	1.18	1.61	4.65	1.9		.6	6	0	"
306	2-18	900A 907A	Lindsay	5.0	1.14	1.05	4.63	1.2		.6	6	0	"
307	2-20	1205A 1211A	Lindsay-Keim	8.0	2.31	3.30	4.61	7.6		.6	7	+.01	"
308	2-20	446P 451P	" "	8.5	2.69	3.61	4.62	9.7		.6	8	0	"
309	2-21	441P 446P	" "	8.5	2.86	4.20	4.62	12.2		.6	8	-.01	"
310	2-23	252P 300P	Lindsay	7.5	2.27	1.76	4.50	4.0		.6	7	0	"
311	2-26	915A 925A	"	7.5	1.67	1.14	4.42	1.9		.6	7	0	"
312	2-28	1037P 1044P	Lindsay-Keim	8.0	2.83	2.44	4.56	6.9		.6	8	0	"
313	3-1	1209P 1214P	" "	7.0	2.30	1.96	4.52	4.5		.6	8	0	"
314	3-4	615P 621P	" "	12.0	7.44	4.57	4.93	33.9		.6	6	-.05	"
315	3-5	526P 532P	" "	10.0	3.38	2.90	4.58	9.8		.6	10	-.01	"
316	3-6	407P 413P	Lindsay	9.5	3.08	2.05	4.50	6.3		.6	8	0	"
317	3-12	1209P 1214P	Ingram	12.2	3.88	2.22	4.52	8.6		.6	6	+.02	"
318	3-14	435P 455P	"	10.2	3.23	1.39	4.47	4.5		.6	6	0	FC 18
319	3-20	1049A 1054A	Haig	4.5	1.27	1.09	4.34	1.4		.6	5	0	FC 33
320	3-24	230P 239P	"	5.5	1.56	0.90	4.32	1.4		.6	6	0	"
321	3-27	1240P 1246P	"	4.1	0.92	0.45	4.26	0.41		.6	5	0	"
322	3-29	1258A 112A	Ingram-Reilly	9.0	2.46	1.09	4.46	2.7		.6	8	+.01	FC 18
323	3-31	1239P 1248P	Lindsay-Keim	10.3	2.59	1.62	4.46	4.2		.6	9	0	FC 28
324	4-2	606P 613P	Haig	6.3	1.91	1.88	4.42	3.6		.6	7	0	FC 33
325	4-5	1020A 1055A	Keim-Lindsay	9.3	2.53	2.17	4.48	5.5		.6	9	0	FC 28
326	4-9	1228P 1236P	Haig	10.5	2.63	1.29	4.43	3.4		.6	7	0	FC 33
327	4-11	909A 914A	Haig & Trentham	9.6	2.21	1.72	4.46	3.8		.6	6	-.01	"
328	4-16	420P 427P	Lindsay	9.5	1.86	1.51	4.42	2.8		.6	7	0	FC 28
329	4-17	320P 326P	Haig	8.5	2.18	1.28	4.39	2.8		.6	6	0	FC 33
330	4-23	916A 925A	Lindsay	6.4	1.28	1.17	4.34	1.5		.6	7	0	FC 28
331	4-28	858A 905A	"	4.5	1.13	1.24	4.34	1.4		.6	5	0	"
332	4-30	400P 408P	"	9.5	2.38	1.93	4.47	4.6		.6	8	0	"
333	5-3	1223P 1230P	"	5.7	0.97	0.93	4.35	0.90		.6	5	0	"
334	5-5	408P 413P	"	5.2	0.86	1.00	4.34	0.86		.6	5	0	"
335	5-12	856A 901A	"	6.0	1.29	1.01	4.37	1.3		.6	6	0	"
336	5-22	1229P 1236P	"	4.0	0.57	0.68	4.31	0.39		.6	6	0	"
337	5-27	126P 133P	"	4.1	0.57	0.65	4.31	0.37		.6	6	0	"
338	6-2	906A 912A	"	4.2	0.68	0.88	4.33	0.58		.6	6	0	"
339	6-12	320P 324P	"	2.4	0.30	0.73	4.28	0.22		.6	4	0	"
340	6-16	844A 849A	"	2.7	0.54	0.92	4.34	0.50		.6	5	0	"
341	6-25	904A 909A	"	2.8	0.49	0.90	4.32	0.44		.6	5	0	"
342	7-2	848A 854A	"	2.5	0.35	0.66	4.28	0.23		.6	5	0	"
343	7-10	857A 843A	Lindsay	2.5	0.32	0.66	4.28	0.21		.6	5	0	FC 28
344	7-16	203P 207P	"	2.3	0.24	0.46	4.26	0.11		.6	4	0	"
345	7-23	1236P 1240P	Haig	2.3	0.28	0.32	4.26	0.09		.6	5	0	FC 33
346	7-30	1154A 1200N	"	2.3	0.24	0.36	4.26	0.10		.6	4	0	"
347	8-6	850A 855A	Lindsay	2.3	0.27	0.48	4.25	0.13		.6	5	0	FC 28
348	8-12	248P 252P	"	2.0	0.18	0.39	4.23	0.07		.6	4	0	"
349	8-20	140P 144P	"	2.0	0.17	0.35	4.22	0.06		.6	4	0	"
350	9-3	851A 855A	"	2.2	0.19	0.42	4.22	0.08		.6	4	0	"
351	9-18	1215P 1220P	Haig	2.0	0.16	0.19	4.22	0.03		.6	4	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

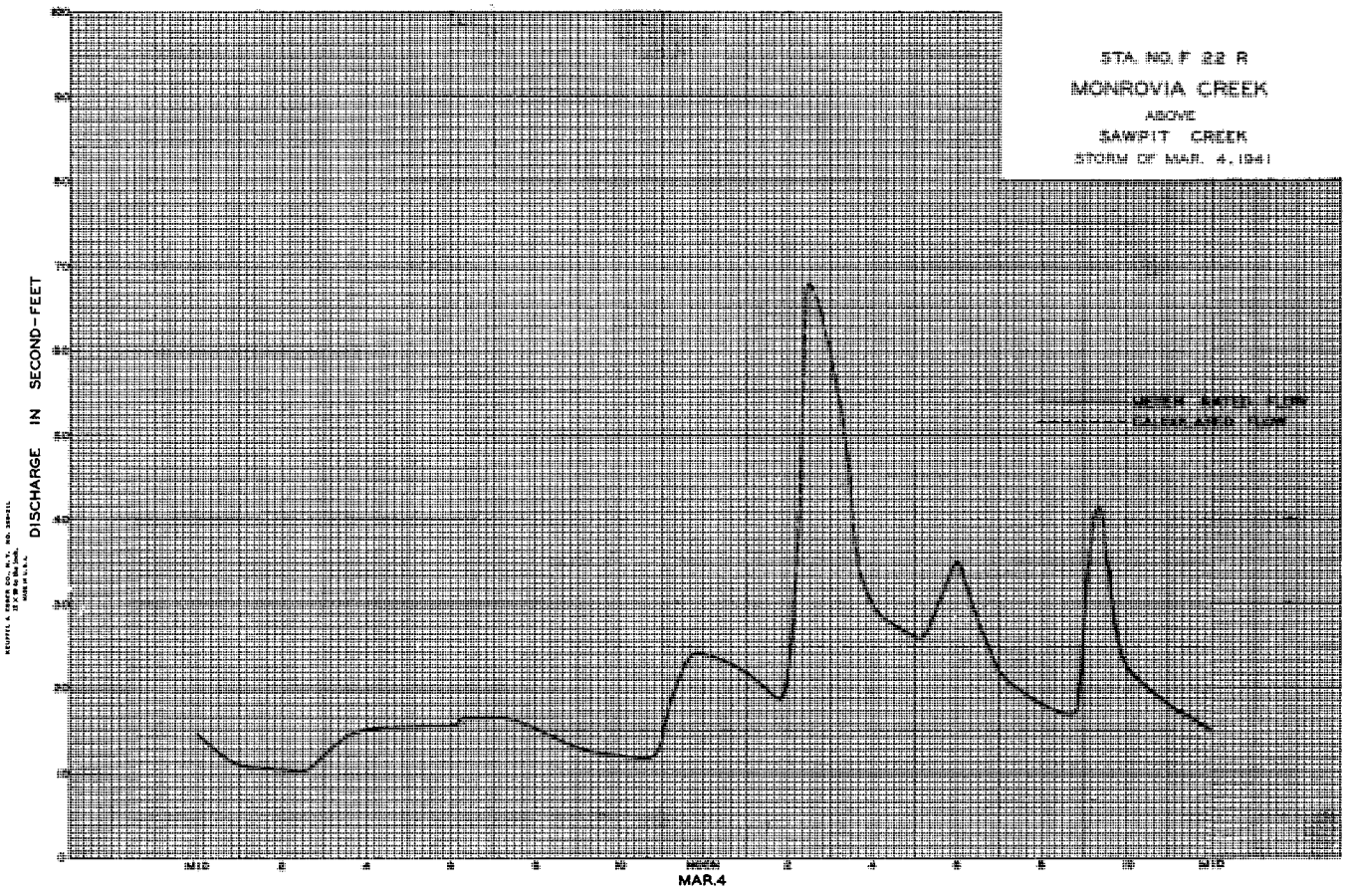
Sta. No. F22R

Daily discharge, in second-feet of MONROVIA CREEK above Sawpit Creek, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.03	0.1	0.05	0.1	0.2	4.9	4.0	3.2	0.4	0.3	0.1	0.1
2	0.03	0.1	0.1	0.1	0.2	4.9	3.7	1.7	0.5	0.3	0.1	0.1
3	0.03	0.1	0.1	0.1	0.2	4.8	3.5	1.0	0.5	0.3	0.1	0.1
4	0.03	0.05	0.1	0.1	0.2	21.0	6.9	1.0	0.5	0.3	0.1	0.1
5	0.03	0.05	0.1	0.1	0.2	10.9	6.3	0.8	0.5	0.3	0.1	0.1
6	0.03	0.05	0.1	0.1	0.2	7.0	4.9	1.1	0.5	0.2	0.1	0.1
7	0.03	0.05	0.05	0.1	0.2	6.0	4.0	0.8	0.5	0.3	0.1	0.1
8	0.03	0.05	0.05	0.1	0.2	5.3	3.5	0.6	0.4	0.2	0.1	0.1
9	0.03	0.05	0.05	0.2	0.2	4.6	3.8	1.2	0.3	0.2	0.1	0.1
10	0.03	0.05	0.05	0.3	0.2	3.5	4.6	1.0	0.3	0.2	0.1	0.1
11	0.03	0.05	E 0.05	0.4	0.9	2.5	4.6	1.0	0.4	0.3	0.1	0.1
12	0.03	0.05	0.05	0.3	E 0.3	6.2	3.5	1.2	0.3	0.2	0.1	0.05
13	0.03	0.05	0.02	0.2	0.2	5.3	3.2	1.0	0.4	0.2	0.1	0.05
14	0.02	0.05	0.05	0.02	0.3	4.2	3.0	0.8	0.3	0.2	0.1	0.03
15	0.02	0.05	0.1	0.01	1.0	4.0	2.8	0.5	0.4	0.2	0.1	0.03
16	0.02	0.05	0.3	0.1	1.3	3.5	2.8	0.5	0.4	0.1	0.05	0.03
17	0.02	0.05	0.9	0.1	2.0	2.5	3.0	0.5	0.3	0.1	0.05	0.03
18	0.02	0.2	0.3	0.1	1.2	2.0	2.8	0.5	0.4	0.1	0.05	0.03
19	0.02	0.05	0.2	0.1	4.6	2.0	2.8	0.5	0.3	0.1	0.05	0.03
20	0.02	0.1	0.2	0.1	9.1	1.6	2.5	0.5	0.4	0.05	0.05	0.03
21	0.02	0.1	0.2	0.1	9.6	1.4	1.7	0.5	0.3	0.05	0.05	0.03
22	0.02	0.1	0.2	0.1	8.2	1.6	1.6	0.5	0.3	0.1	0.05	0.05
23	0.03	0.1	1.6	0.1	4.2	1.4	1.6	0.5	0.4	0.1	0.05	0.05
24	0.03	0.1	2.4	0.5	3.5	1.4	1.6	0.5	0.3	0.1	0.05	0.05
25	0.3	0.1	0.5	0.4	2.3	1.4	1.7	0.5	0.4	0.1	0.05	0.05
26	0.1	0.1	E 0.4	0.3	1.8	0.8	1.4	0.5	0.3	0.1	0.05	0.03
27	0.2	0.1	0.3	0.2	1.3	0.5	1.4	0.4	0.3	0.1	0.05	0.03
28	0.1	0.1	0.3	0.2	3.6	1.1	1.4	0.5	0.3	0.1	0.1	0.03
29	0.1	0.1	0.3	0.2		4.6	1.4	0.4	0.3	0.1	0.1	0.03
30	0.1	0.1	0.3	0.2		3.0	4.1	0.4	0.3	0.1	0.1	0.03
31	0.1		0.2	0.2		3.7		0.5		0.1	0.1	
	1.63	2.35	9.62	5.23	57.4	127.6	94.1	24.6	11.2	5.20	2.50	1.79
Mean	0.05	0.08	0.31	0.17	2.05	4.12	3.14	0.79	0.37	0.17	0.08	0.06
Acre-Feet	3.2	4.7	19.	10.	114.	253.	187.	49.	22.	10.	5.0	3.6

Remarks: E = estimated.

Year or Period — Mean 0.94 — Acre-Feet 680.



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, 1940 to September 30, 1941.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

April 25, 1932 to September 30, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 770 second-feet March 4.
Minimum no flow most of the year.

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

ACCURACY:

Fair for low flows.
Poor for high flows due to inadequate facilities for measuring.

OPERATION:

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

F. C. Dist. Form 51 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

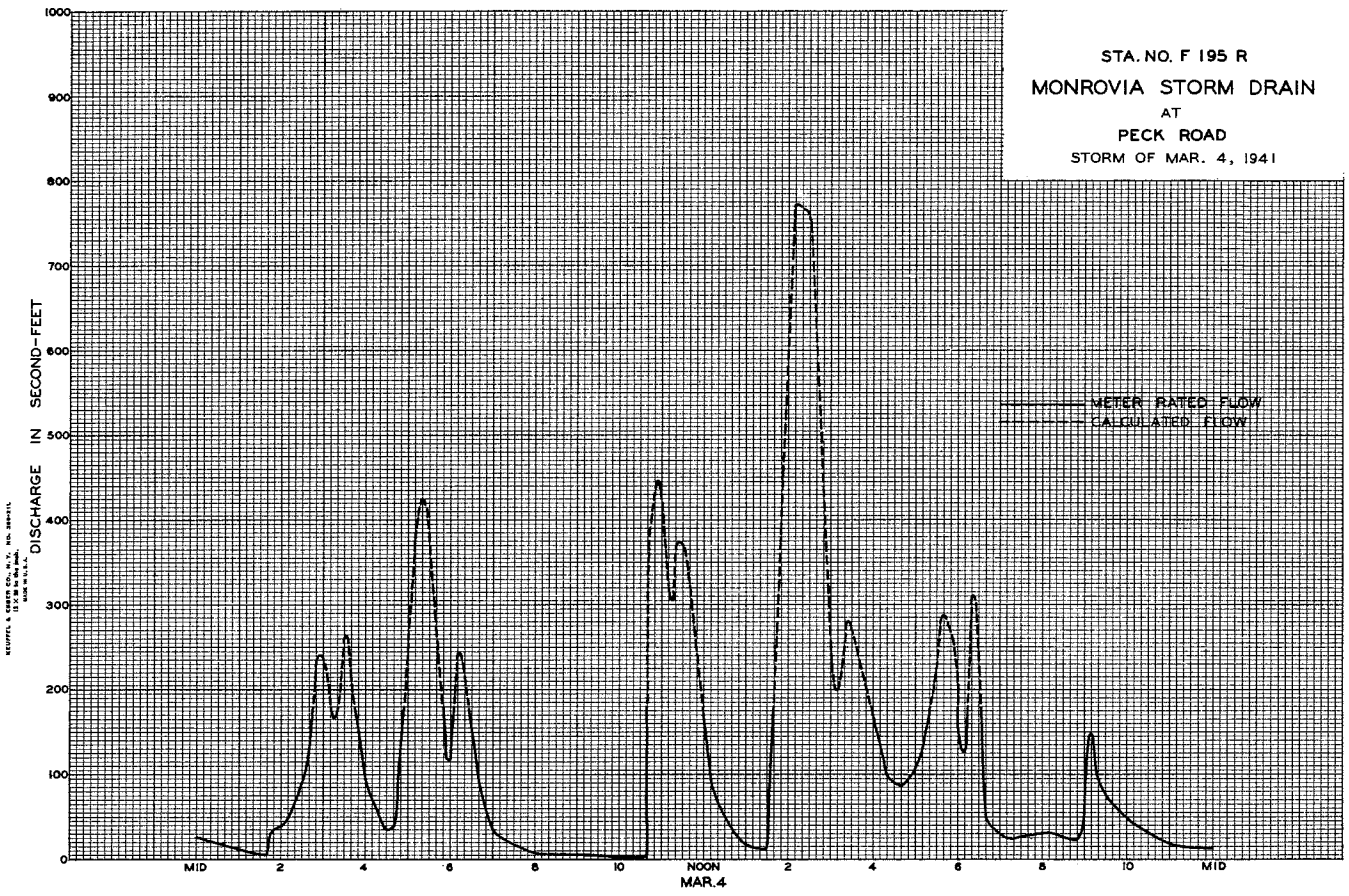
Sta. No. F195R

Daily discharge, in second-feet of MONROVIA STORM DRAIN at Peck Road, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	7	1.3	0	0	0	0	0
2	0	0	0	0	0	9.5	4.0	0	0	0	0	0
3	0	0	0	0	0	15	0	0	0	0	0	0
4	0	0	0	0	0	128	15	0	0	0	0	0
5	0	0	0	0	0	6	0	0	0	0	0	0
6	0	0	0	0	11	0.5	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	6	0	0	0	0	0
10	0	0	0	2.0	0	0	8	0	0	0	0	0
11	0	0	+	0	9	0.5	6.5	0	0	0	0	0
12	0	0	+	0	0	53	2.2	0	0	0	0	0
13	0	0	0	0	0	9	0	0	0	0	0	0
14	0	0	0	+	15	13	0	0	0	0	0	0
15	0	0	0	0	15	0	0	0	0	0	0	0
16	0	0	24	0	7.5	0	0	0	0	0	0	0
17	0	4.1	26	0	3.7	0	0	0	0	0	0	0
18	0	4.6	10	0	0	0	0	0	0	0	0	0
19	0	0	0	0	47	0	0	0	0	0	0	0
20	0	0	0	0	35	0	0	0	0	0	0	0
21	0	0	0	0.4	38	0	0	0	0	0	0	0
22	0	0	0	2.0	4.7	0	0	0	0	0	0	0
23	0	0	36	0	0	0	0	0	0	0	0	0
24	0	0	24	17	1.5	0	0	0	0	0	0	0
25	22	0	0	0	0	0	0	0	0	0	0	0
26	5	0	0	0.5	0	0	0	0	0	0	0	0
27	+	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	56	E 20	0	0	0	0	0	0
29	0	0	1.4	0		16	0	0	0	0	0	0
30	0	0	1.8	0		0	31	0	0	0	0	0
31	0		0	0		32		0		0	0	
	27	8.7	1232	21.9	2434	3095	74.0	0	0	0	0	0
Mean	0.87	0.29	3.97	0.71	8.69	9.98	2.47	0	0	0	0	0
Acre-Feet	54.	17.	244.	43.	483.	614.	147.	0	0	0	0	0

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

Year or Period Mean 2.21 Acre-Feet 1600.



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.
Channel forms control.
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 12, 1932 over an 18 inch diameter corrugated iron pipe stilling well.
An H.C.F. continuous recorder was in service from October 1, 1940 to September 30, 1941.

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, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 936 second-feet, March 3.
Minimum 0.1 second foot at varioue times.
1931-1941
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. F181R

DISCHARGE MEASUREMENTS OF MONTEBELLO STORM DRAIN

AT Outlet into Rio Hondo DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
72	10-26	1032A	Bonadiman	5.0	0.30	0.54	0.11	0.16	Est.	2	0		
73	11-17	200P / 210P	Bonadiman & Walton	14.0	10.9	6.24	0.99	68.0		.6	6	-.17	FC 40
74	11-17	227P / 237P	" "	14.0	9.27	4.22	0.64	39.1		.6	8	-.14	"
75	11-17	245P / 257P	" "	14.0	8.10	3.73	0.55	30.2		.6	9	-.07	"
76	11-18	843A / 847A	Bonadiman	7.0	0.70	0.67	0.17	0.47		.6	2	0	"
77	12-16	850A / 900A	Bonadiman & Walton	14.0	6.30	3.16	0.45	19.9		.6	6	+.03 -.05	"
78	12-16	902A / 908A	" "	14.0	6.00	2.92	0.44	17.5		.6	6	+.02 -.02	"
79	12-16 / 12-17	1155P / 1207A	" "	14.0	16.4	7.67	1.33	126.		.6	6	-.09	"
80	12-17	1207A / 1218A	" "	14.0	16.6	7.11	1.26	118.		.6	6	-.08	"
81	12-18	611P / 620P	" "	14.0	16.1	7.24	1.29	116.		.6	6	-.11	"
82	12-18	620P / 637P	" "	14.0	15.7	6.82	1.18	107.		.6	6	-.10	"
83	12-19	830A	Bonadiman	7.0	0.49	0.53	0.13	0.26		.6	2	0	FC 40
84	12-23	627A / 637A	Bonadiman & Walton	14.0	25.9	9.96	1.84	220.	Sur.		6	+.04	"
85	12-24	650A / 702A	" "	14.0	28.6	11.5	2.03	329.	Sur.		6	+.05	"
86	1-24	152A / 203A	" "	14.0	17.3	7.40	1.37	128.		.6	6	-.08	"
87	2-6	715A / 722A	" "	14.0	22.4	9.87	1.64	188.	Sur.		6	-.03	"
88	2-11	1124A / 1132A	" "	14.0	14.7	7.28	1.18	107.		.6	6	-.03	"
89	2-14	306P / 314P	Bonadiman & Walton	14.0	23.2	9.78	1.64	193.	Sur.		6	+.05	"
90	2-16	847A / 852A	Bonadiman	11.0	1.94	1.13	0.24	2.2		.6	4	0	"
91	2-18	841A / 846A	"	8.0	0.88	0.73	0.16	0.64		.6	2	0	"
92	2-19	618P / 625P	Bonadiman & Walton	14.0	42.3	13.8	2.64	584.	Sur.		6	+.10	"
93	2-19	635P / 642P	" "	14.0	43.7	13.5	2.55	588.	Sur.		5	0	"
94	2-21	812A / 818A	" "	14.0	17.7	8.02	1.34	142.		.6	6	-.01	"
95	2-21	819A / 825A	" "	14.0	16.6	7.83	1.33	130.		.6	6	-.01	"
96	3-2	856A / 902A	Bonadiman & Walton	14.0	7.57	4.76	0.60	36.0		.6	6	+.05	FC 40
97	3-5	825A / 832A	Bonadiman	14.0	4.60	2.30	0.36	10.6		.6	6	0	"
98	3-5	835A / 837A	Bonadiman & Walton	14.0	4.85	2.27	0.37	11.1		.6	7	+.02	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

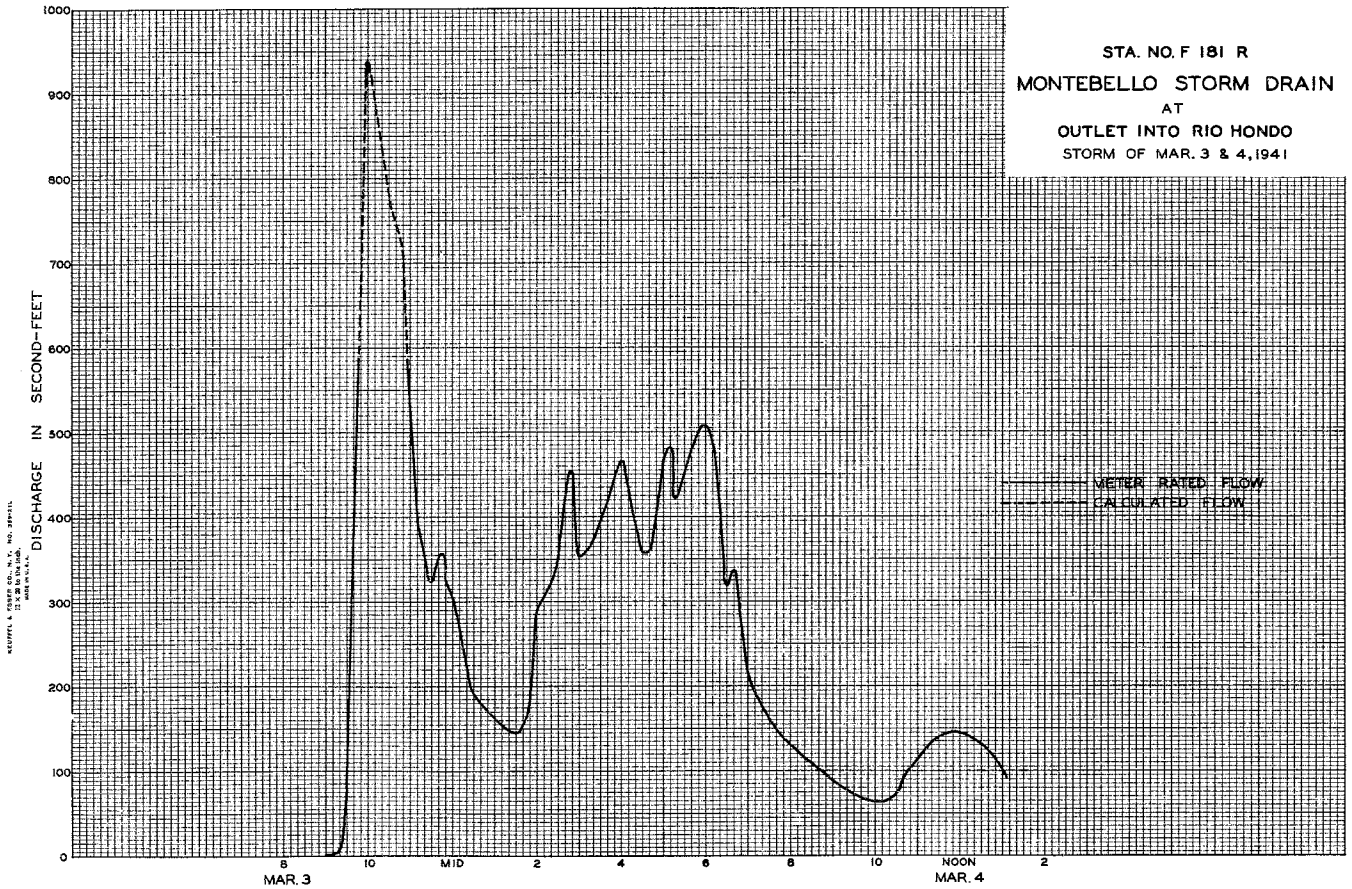
Sta. No. F181R

Daily discharge, in second-feet of MONTEBELLO STORM DRAIN at Outlet into Rio Hondo, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.1	0.1	0.1	0.5	43	22	0.9	0.3	0.3	0.3	0.1
2	0.1	0.1	0.3	0.1	0.3	39	22	0.3	0.3	0.3	0.3	0.3
3	0.1	0.1	0.1	0.1	0.3	63	1.7	0.1	0.3	0.3	0.3	0.3
4	0.3	0.1	0.3	0.1	0.3	204	17	0.1	0.3	0.3	0.3	0.5
5	0.1	0.1	0.3	0.1	0.3	21	5	0.1	0.3	0.3	0.3	0.5
6	0.1	0.1	0.5	0.1	27	15	1.3	0.1	0.3	0.3	0.5	0.7
7	0.1	0.1	0.7	0.1	E 0.7	17	0.9	0.1	0.3	0.3	0.5	0.5
8	0.3	0.1	0.3	0.1	0.7	5	0.9	0.1	0.3	0.3	0.5	0.7
9	0.1	0.1	0.3	0.1	0.1	1.7	2.2	0.3	0.3	0.3	0.5	0.5
10	0.1	0.1	0.1	2.4	0.1	15	6	0.3	0.3	0.3	0.5	0.7
11	0.1	0.1	0.3	0.1	24	13	19	0.3	0.3	0.3	0.5	0.9
12	0.1	0.1	1.1	0.1	0.9	85	5	0.5	0.3	0.3	0.5	1.1
13	0.1	0.1	0.1	0.1	0.1	20	0.9	0.7	0.3	0.3	0.5	0.7
14	0.5	0.1	0.1	1.9	77	60	0.5	0.7	0.3	0.3	0.5	0.1
15	0.7	0.3	0.1	0.1	43	4.6	0.3	0.7	0.3	0.3	0.7	0.5
16	0.1	0.5	25	0.3	56	32	0.3	0.7	0.3	0.3	0.7	0.7
17	0.1	8.5	17	0.1	27	1 23	0.1	0.7	0.3	0.3	0.7	0.3
18	0.3	1.9	13	0.1	1.9	1 21	0.1	0.7	0.3	0.3	0.7	0.1
19	0.1	0.1	0.9	0.1	62	1.9	0.1	0.7	0.3	0.3	0.7	0.1
20	0.1	0.1	0.1	0.5	58	1.5	0.1	0.7	0.3	0.3	0.7	0.1
21	0.3	0.1	0.1	2.6	150	1.1	0.3	0.7	0.3	0.3	0.7	0.1
22	0.3	0.1	0.1	5.5	48	1 0.9	0.3	0.5	0.3	0.3	0.7	0.1
23	0.3	0.1	108	3.6	2.8	1 0.7	0.3	0.3	0.3	0.3	0.7	0.3
24	0.5	0.1	57	74	24	0.3	0.3	0.5	0.3	0.3	0.9	0.5
25	1.9	0.1	E 6	E 0.7	3.7	0.5	0.5	0.5	0.3	0.3	0.9	0.5
26	6	0.1	E 0.7	1.1	1.5	0.9	0.3	0.5	0.3	0.3	0.9	0.5
27	0.9	0.1	0.1	0.1	1.1	0.7	0.5	0.5	0.3	0.3	0.9	0.7
28	0.1	0.1	0.7	0.1	156	13	0.5	0.7	0.3	0.3	0.9	0.9
29	0.1	0.1	4.8	0.3		26	0.7	0.5	0.3	0.3	0.9	0.7
30	0.1	0.1	0.5	0.3		1.1	21	0.3	0.3	0.3	0.3	0.9
31	0.1		0.3	0.3		81		0.3		0.3	0.1	
	313	138	2390	953	7673	7183	1301	141	90	93	181	146
Mean	1.01	0.46	7.71	3.07	27.4	23.2	4.33	0.45	0.30	0.30	0.58	0.49
Acre-Feet	62.	27.	474.	189.	1522.	1425.	258.	28.	18.	18.	36.	29.

Remarks: Estimated below 0.4 c.f.s. E = estimated. 1 = interpolated.

YEAR OR PERIOD — MEAN 5.64 — ACRE FEET 4090.



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 1/2 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, 1940 to September 30, 1941.

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, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 460 second-feet March 5.
Minimum no flow at various times.
1929-1941 (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 was put into operation during low flows; while pool was filling and head building up, flow was 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

at Flume below Pacoima Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
76	2-13	215P / 230P	Luce	10.0	13.4	9.39	1.41	126.		.6	10	-.01	FC 39
77	2-18	300P / 314P	Green	10.0	13.8	9.00	1.40	125.		.6	7	0	FC 19
78	2-23	1256P / 108P	Luce-Pardieck	10.0	16.1	10.9	1.63	176.		.6	7	0	FC 39
79	4-5	221P / 240P	" "	10.0	5.09	8.55	0.62	43.5		.6	12	0	"
80	4-10	1050A / 1048A	Luce-DeVore	10.0	6.27	9.52	0.71	59.7		.6	12	0	"
81	4-11	500P / 520P	Luce	10.0	10.9	10.9	1.13	119.		.6	11	0	"
82	4-15	1045A / 1105A	Green	10.0	10.9	9.63	1.07	105.		.6	12	-.02	FC 19
83	4-17	325P / 340P	Luce	10.0	10.5	10.0	1.07	105.		.6	12	0	FC 39
84	4-18	1240P / 100 P	Green	10.0	11.1	9.37	1.08	104.		.6	12	0	FC 19
85	4-19	138P / 155P	"	10.0	5.74	7.84	0.66	45.4		.6	12	+.01	"
86	4-21	325P / 345P	"	10.0	10.8	9.90	1.08	107.		.6	12	+.01	"
87	4-25	1220P / 1235P	Luce	10.0	10.3	1.05	1.07	108.		.6	7	0	FC 39
88	4-29	210P / 225P	Green	10.0	8.12	9.05	0.85	73.5		.6	12	0	FC 19
89	5-1	1238P / 102P	Luce-Pardieck	10.0	8.72	10.9	0.94	95.0		.6	12	0	FC 39
90	5-8	840A / 910A	Luce	10.0	8.49	10.8	0.93	92.0		.6	12	0	"
91	5-21	850A / 922A	"	10.0	8.90	8.65	0.95	77.1		.6	12	-.01	"
92	5-21	305P / 340P	"	10.0	8.71	7.92	0.90	69.0		.6	12	0	FC 41
93	5-21	550P / 625P	"	10.0	8.86	7.67	0.90	68.0		.6	12	-.01	"
94	5-22	745A / 815A	"	10.0	8.94	7.88	0.89	70.5		.6	12	+.02	"
95	5-28	1145A / 1200N	Luce-Turner	10.0	8.39	7.75	0.85	65.1		.6	12	0	"
96	5-31	928A / 1002A	DeVore	10.0	8.63	7.88	0.86	67.8		.6	12	+.01	FC 23
97	6-4	155P / 225P	Turner	10.0	8.13	7.87	0.78	64.3		.6	12	+.01	FC 5
98	6-7	1029A / 1055A	DeVore	10.0	8.16	7.90	0.79	64.5		.6	12	+.01	FC 23
99	6-10	305P / 315P	Green	10.0	7.57	7.79	0.73	58.7		.6	12	0	FC 19
100	6-11	150P / 216P	DeVore	10.0	8.04	7.84	0.74	63.0		.6	12	0	FC 23
101	6-12	1000A / 1035A	Turner	10.0	7.15	7.69	0.75	54.7		.6	12	0	FC 5

F.C. Dist. Form SI 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 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.8	0	0	+	+	117	42	76	66	9.8	4.4	4.3
2	1.8	0	+	+	+	168	72	89	66	9.4	4.4	4.3
3	1.7	0	+	+	+	239	73	89	64	9.1	4.5	4.3
4	4.4	0	+	+	+	277	61	89	63	9.1	4.6	4.3
5	13.0	0	+	+	+	431	31	89	61	9.1	4.6	4.6
6	13.5	0	+	+	+	423	18	87	58	9.1	4.7	5.4
7	7.5	0	0	+	+	415	17	87	62	8.9	4.9	5.3
8	5.5	0	0	+	+	321	16	86	61	8.8	5.1	5.2
9	4.9	0	+	+	+	299	37	86	59	8.6	5.2	4.9
10	4.0	0	+	+	+	294	55	86	58	8.4	5.2	4.7
11	3.9	0	+	+	+	286	81	86	62	8.3	5.2	4.7
12	3.9	0	+	+	+	237	117	86	55	8.2	5.2	4.7
13	3.9	0	+	+	97	192	112	86	36	8.0	5.2	4.6
14	3.9	0	+	+	56	163	111	86	11.0	7.9	5.2	4.6
15	3.9	0	+	+	0	125	109	85	12.3	8.0	5.2	4.5
16	4.0	0	+	+	0	111	108	69	5.5	7.8	5.2	4.5
17	4.0	0	+	+	60	111	109	66	0.2	7.8	5.2	4.4
18	3.9	0	+	+	113	73	109	66	0.1	8.0	5.2	4.3
19	3.9	0	+	+	74	62	90	49	+	6.6	5.1	4.2
20	3.9	0	+	+	30	71	111	E 69	2.4	4.5	5.1	4.0
21	3.9	0	+	+	125	87	109	E 71	10.2	2.2	5.0	3.8
22	3.9	0	+	+	264	86	111	69	10.0	2.4	4.9	4.0
23	3.9	0	+	+	181	86	109	70	10.0	3.4	4.8	4.2
24	3.9	0	+	+	185	86	111	65	9.9	2.4	4.7	3.9
25	2.7	0	+	+	186	86	111	66	9.6	4.0	4.7	4.1
26	0.1	0	+	+	191	85	87	68	9.5	5.9	4.6	4.3
27	+	0	+	+	199	85	75	56	9.8	5.9	4.5	3.0
28	+	+	+	+	106	57	76	66	9.5	5.9	4.5	+
29	+	+	+	+		60	76	63	9.4	5.9	4.5	+
30	0	0	+	+		77	42	62	9.8	5.9	4.4	+
31	0		+	+		29		65		5.4	4.4	
	115.7	+	+	+	1867	5239	2386	2333	900.2	214.7	150.4	119.1
MEAN	3.73	+	+	+	66.7	169.	79.5	75.3	30.0	6.93	4.85	3.97
ACRE-FEET	229.	+	+	+	3700.	10390.	4730.	4630.	1790.	426.	298.	236.

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

YEAR OR PERIOD MEAN 36.5
ACRE-FEET 26430.

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.

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, 1940 to September 30, 1941.

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, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 843 second-feet, March 3.
Minimum no flow most of year.
1929-1941
Maximum 2400 second-feet, estimated March 3, 1938.
Minimum no flow most of each year.

ACCURACY:

Poor due to badly 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. F16R

DISCHARGE MEASUREMENTS OF PACOIMA WASH

AT Parthenia Street DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
114	12-16	1147P 1150P	Luce-Pardieck	3.5	1.42	1.49	4.32	2.1		.6	4	0	FC 39
115	12-18	635P 640P	" "	3.5	0.40	0.82	3.94	0.33		.6	5	0	"
116	12-23	1232P 1236P	" "	13.0	6.77	2.35	4.10	16.		.6	8	-.03	"
117	12-24	750A 800A	" "	43.0	26.3	3.80	4.60	100.		.6	14	-.06	"
118	12-24	807A 815A	Luce	42.5	24.7	3.70	4.53	92.		.6	12	-.05	"
119	2-11	958P 1000P	Luce-Truitt	1.0	0.05	0.24	3.68	0.02		.6	2	0	"
120	2-14	340P 345P	Luce-Pardieck	10.0	3.52	1.25	4.00	4.4		.6	6	+.01	"
121	2-15	1221P 1226P	" "	12.6	8.62	3.02	4.20	26.		.6	8	+.03	"
122	2-15	103P 111P	" "	47.0	25.2	3.57	4.53	90.		.6	11	+.04	"
123	2-15	625P 628P	Luce	10.0	2.36	0.88	3.86	2.1		.6	6	-.01	"
124	2-17	520A 540A	Luce-Pardieck	33.0	15.2	5.91	4.56	267.		.6	7	-.19	FC 41
125	2-20	907A 917A	" "	21.6	14.0	2.79	3.68	39.		.6	11	-.04	FC 39
126	2-21	1250P 102P	" "	35.0	16.0	2.38	3.90	38.		.6	13	+.04	"
127	2-21	527P 538P	" "	40.0	21.2	3.63	3.91	77.		.6	14	+.02	"
128	2-21	800P 811P	" "	54.5	44.5	4.94	4.28	220.		.6	13	+.02	"
129	2-22	711A 724A	" "	76.0	50.9	4.97	4.53	253.		.6	16	+.01	"
130	2-22	728A 745A	" "	76.0	55.5	4.88	4.54	271.		.6	19	+.01	"
131	2-22	208P 219P	" "	71.5	40.0	4.08	4.50	163.		.6	14	-.01	"
132	2-23	954P 1002P	" "	30.5	14.8	3.24	4.55	48.		.6	10	0	"
133	2-24	223P 232P	" "	38.5	20.1	3.93	4.56	79.		.6	13	+.01	"
134	2-24	247P 256P	" "	40.0	27.0	5.26	4.71	142.		.6	14	+.02 -.08	"
135	2-24	435P 444P	" "	39.5	17.3	3.35	4.58	58.		.6	14	+.01	"
136	2-26	112P 125P	Luce	31.5	17.4	3.50	4.73	61.		.6	10	0	"
137	2-27	430P 440P	"	31.6	14.9	3.76	4.80	56.		.6	11	+.10	"
138	2-28	507P 525P	Luce-Pardieck	Two Channels			5.36	515.		.6	12	-.24	FC 41
139	2-28	1133P 1145P	" "	37.5	14.8	1.49	4.05	22.		.6	13	-.06	FC 39
140	3-1	420P 430P	Luce	26.8	12.2	3.69	4.37	45.		.6	9	+.01	"
141	3-4	533A 548A	Luce-Pardieck	66.8	45.7	4.07	4.63	186.		.6	16	-.02	"
142	3-4	1110P 1122P	" "	68.5	41.0	4.44	4.69	182.		.6	16	+.02	"
143	3-5	1123A 1142A	" "	37.0	53.4	6.59	5.02	352.		.6	13	-.05	FC 41
144	3-6	548P 618P	" "	Two Channels			5.27	258.		.6	20	0	"
145	3-7	906A 924A	" "	"	"		5.41	256.		.6	20	0	FC 39
146	3-8	236P 250P	" "	"	"		5.28	133.		.6	16	+.02	"
147	3-12	700P 723P	" "	"	"		5.59	208.		.6	20	-.04	"
148	3-13	935A 950A	Luce	41.0	23.2	4.40	5.44	102.		.6	12	-.04	"
149	3-13	305P 320P	"	44.5	25.0	4.76	5.44	119.		.6	14	0	"
150	3-15	422P 428P	"	10.0	2.80	1.86	4.77	5.2		.6	6	-.02	"
151	3-28	743P 805P	Luce-Pardieck	Two Channels			5.60	200.		.6	16	+.11	"
152	3-28	841P 851P	" "	22.5	11.4	4.56	5.62	52.		.6	9	+.04	"
153	3-29	455A 529A	" "	33.0	14.1	2.27	4.84	32.		.6	10	-.12	"
154	3-30	130P 133P	Luce	9.9	1.96	1.73	4.38	3.4		.6	6	-.01	"
155	3-31	229P 235P	Luce-Pardieck	28.5	13.0	3.38	4.78	44.		.6	10	-.03	"
156	4-1	530A 535A	Luce	6.5	2.82	1.60	3.92	4.5		.6	5	0	"
157	4-5	155A 206A	"	15.0	4.12	1.82	3.97	7.5		.6	7	-.02	"
158	4-5	1052A 1103A	Luce-Pardieck	20.5	5.95	3.03	4.45	18.		.6	11	0	"
159	4-5	445P 450P	" "	22.0	6.79	2.65	4.45	18.		.6	8	0	"
160	4-10	753A 758A	Luce	13.0	2.59	1.93	4.42	5.0		.6	6	0	"
161	4-11	1020A 1025A	"	5.5	1.15	1.48	4.03	1.7		.6	4	0	"
162	4-11	918P 925P	Luce-Pardieck	22.0	6.96	3.16	4.51	22.		.6	8	0	FC 39
163	4-14	1007A 1017A	Luce	24.5	4.70	1.60	4.58	7.5		.6	9	0	"
164	4-17	125P 135P	Luce	Two Channels			4.55	4.1		.6	9	0	"
165	4-30	807A 813A	Luce-Pardieck	35.0	15.8	3.35	4.98	53.		.6	9	-.03	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

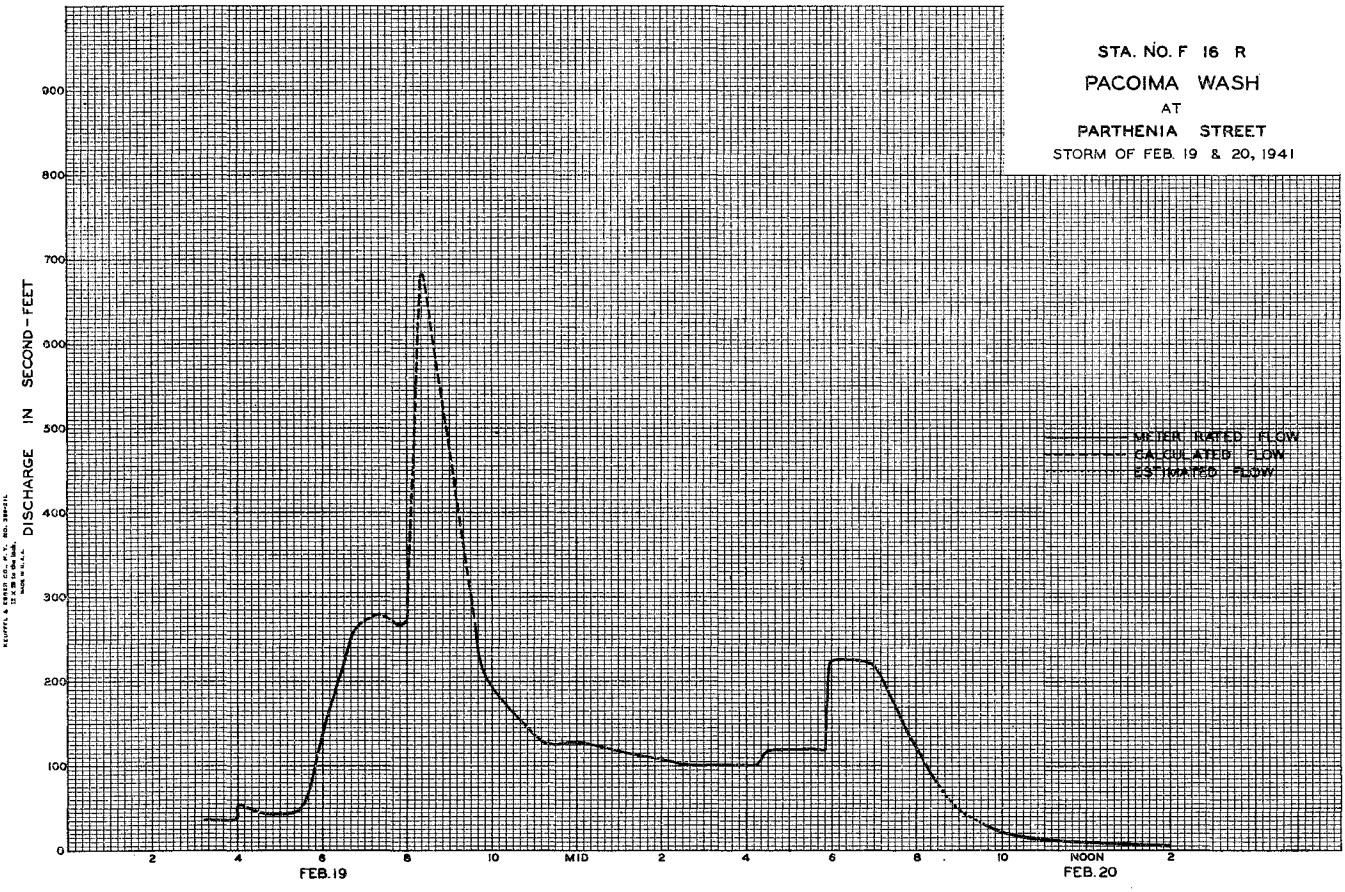
Sta. No. F16R

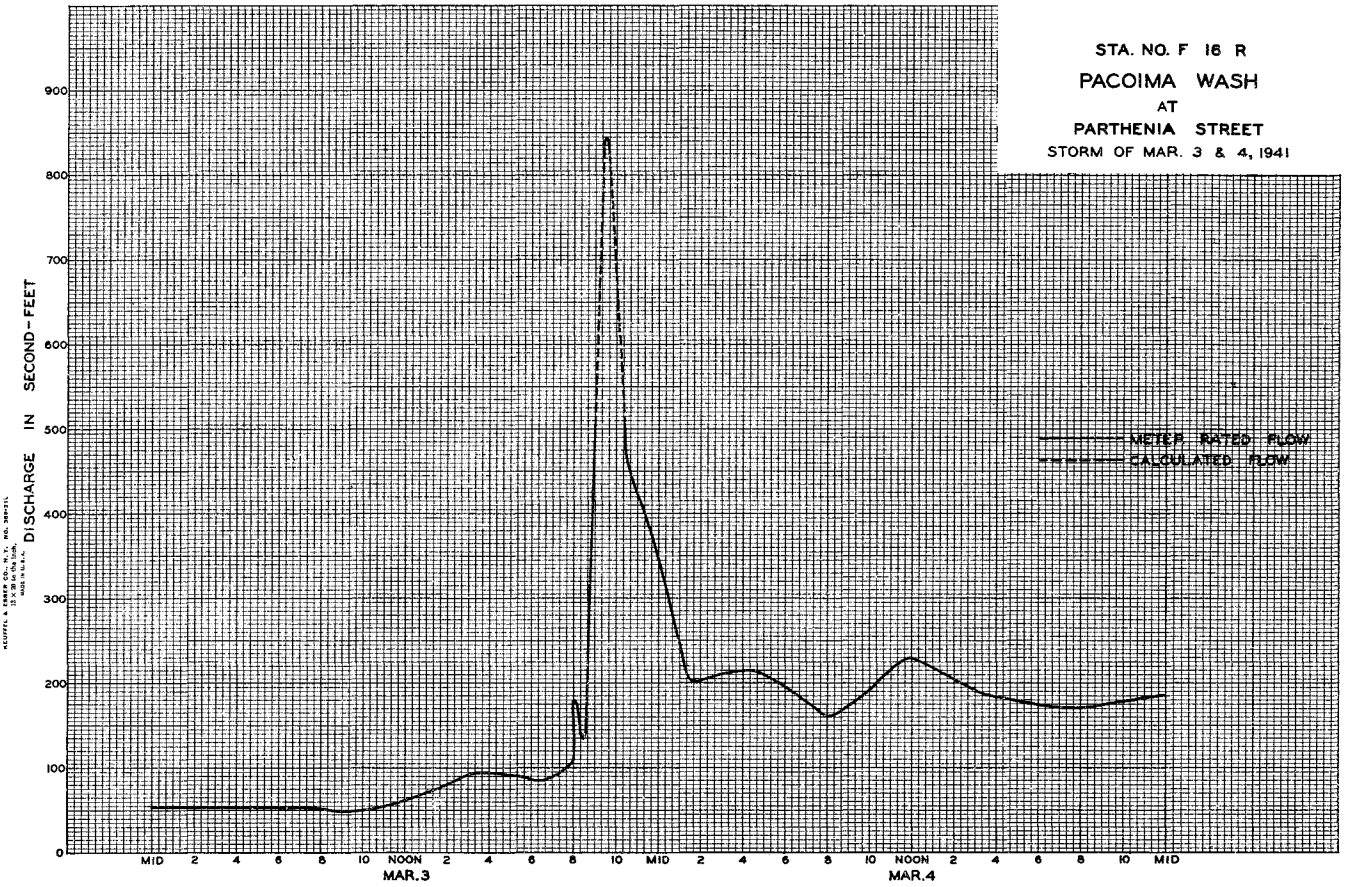
Daily discharge, in second-feet of PACOIMA WASH at Parthenia Street, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	23	23	0	0	0	0	0
2	0	0	0	0	0	53	15	+	0	0	0	0
3	0	0	0	0	0	133	3.5	0	0	0	0	0
4	0	0	0	0	0	197	34	0	0	0	0	0
5	0	0	0	0	0	309	14	0	0	0	0	0
6	0	0	0	0	2.2	299	+	0	0	0	0	0
7	0	0	0	0.1	0.1	220	0	0	0	0	0	0
8	0	0	0	0	+	161	0	0	0	0	0	0
9	0	0	0	0	0	161	1.5	0	0	0	0	0
10	0	0	0	0	0	183	12	0	0	0	0	0
11	0	0	0	0	2.2	215 E	26	0	0	0	0	0
12	0	0	0	0	+	204	18	0	0	0	0	0
13	0	0	0	0	0	96	11	0	0	0	0	0
14	0	0	0	0.1	2.2	97	7.5	0	0	0	0	0
15	0	0	0	0	8.5	26	8	0	0	0	0	0
16	0	0	0.7	0	0.1	1.4	7	0	0	0	0	0
17	0	0	11	0	57	0.5	6.5	0	0	0	0	0
18	0	0	0.1	0	0.1	0.8	8	0	0	0	0	0
19	0	0	0	0	78	0	6.5	0	0	0	0	0
20	0	0	0	0	53	0	13	0	0	0	0	0
21	0	0	0	0.3	80	0	17	0	0	0	0	0
22	0	0	0	0	212	0	20	0	0	0	0	0
23	0	0	19	+	84	0	23	0	0	0	0	0
24	0	0	15	1.4	73	0	25	0	0	0	0	0
25	0	0	+	0	48	0	28	0	0	0	0	0
26	0	0	0	+	50	0	20	0	0	0	0	0
27	0	0	0	0	54	0	0	0	0	0	0	0
28	0	0	0	0	137	14	0	0	0	0	0	0
29	0	0	0	0		31	0	0	0	0	0	0
30	0	0	0	0		14	22	0	0	0	0	0
31	0		0	0		54		0		0	0	
	0	0	45.8	1.9	941.4	2492.7	369.5	+	0	0	0	0
MEAN	0	0	1.48	0.06	33.6	80.4	12.3	+	0	0	0	0
ACRE-FEET	0	0	91.	3.8	1870.	4940.	733.	+	0	0	0	0

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

YEAR OR PERIOD — MEAN 10.6 — ACRE-FEET 7640.





STATION F4OR

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 area above diversion dam on San Dimas Creek.

CHANNEL AND CONTROL:

Channel-sand, gravel and puddingstone. Control-reinforced concrete Cipolletti weir 25 feet on bottom by 3 feet deep with a Cipolletti 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, 1940 to September 30, 1941.

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, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 25 second-feet, February 19.
Minimum + at various times.
1929-1941
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. F40R

DISCHARGE MEASUREMENTS OF PUDDINGSTONE CREEK

at below Puddingstone Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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	825A 828A	Brewster	0.5	0.17	0.88	0.08	0.15		.6	1	0	FC 24
208	10-9	900A 904A	"	1.0	0.36	0.39	0.08	0.14		.6	2	0	"
209	10-16	830A 834A	"	1.0	0.26	0.42	0.07	0.11		.6	2	0	"
210	10-23	1152A 1155A	"	0.5	0.12	0.58	0.05	0.07		.6	1	0	"
211	10-30	911A 915A	"	1.0	0.22	0.73	0.10	0.16		.6	2	0	"
212	11-6	830A 834A	"	1.0	0.24	0.62	0.09	0.15		.6	2	0	"
213	11-13	830A 834A	"	1.0	0.22	0.64	0.08	0.14		.6	2	0	"
214	11-20	435P 440P	"	1.0	0.24	0.54	0.07	0.13		.6	2	0	"
215	11-27	1056A 1100A	"	1.0	0.23	0.52	0.07	0.12		.6	2	0	"
216	12-4	854A 858A	"	1.5	0.63	0.51	0.15	0.32		.6	3	-.02	"
217	12-11	842A 845A	"	0.5	0.11	0.73	0.05	0.08		.6	1	0	"
218	12-18	356P 400P	"	1.0	0.23	0.74	0.10	0.17		.6	2	0	"
219	12-26	335P 340P	"	1.0	0.28	0.71	0.11	0.20		.6	2	0	"
220	12-31	1158A 1202P	"	1.0	0.24	0.67	0.10	0.16		.6	2	0	"
221	1-8	915A 920A	"	1.5	0.39	0.41	0.08	0.16		.6	3	0	"
222	1-15	1040A 1044A	"	1.5	0.31	0.45	0.09	0.14		.6	3	0	"
223	1-22	1010A 1015A	"	1.0	0.27	0.44	0.08	0.12		.6	2	0	"
224	1-29	911A 915A	"	1.0	0.28	0.39	0.07	0.11		.6	2	0	"
225	2-5	1056A 1100A	"	1.0	0.22	0.36	0.04	0.08		.6	2	0	"
226	2-12	1115A 1119A	"	1.0	0.24	0.38	0.05	0.09		.6	2	0	"
227	2-19	851A 855A	"	1.0	0.33	0.52	0.10	0.17		.6	2	0	"
228	2-20	302P 310P	Brewster-Smith	2.5	2.52	1.59	0.70	4.0		.6	5	0	"
229	2-26	150P 155P	Brewster	1.0	0.36	0.80	0.14	0.29		.6	2	0	"
230	3-7	900A 904A	"	1.0	0.45	0.80	0.17	0.36		.6	2	0	"
231	3-12	851A 853A	Brewster	1.0	0.42	0.65	0.14	0.27		.6	2	0	FC 24
232	3-19	856A 900A	"	1.0	0.44	0.98	0.18	0.43		.6	2	0	"
233	3-26	240P 245P	"	1.0	0.49	0.73	0.18	0.36		.6	2	0	"
234	4-2	900A 905A	"	2.0	1.45	0.97	0.38	1.4		.6	4	-.01	"
235	4-9	855A 900A	"	1.0	0.50	0.90	0.20	0.45		.6	2	0	"
236	4-16	855A 900A	"	1.8	1.09	0.64	0.22	0.70		.6	3	0	"
237	4-23	855A 900A	"	1.5	0.57	1.00	0.20	0.57		.6	3	0	"
238	4-30	835A 840A	"	1.5	0.63	0.81	0.22	0.51		.6	3	0	"
239	5-7	925A 930A	"	1.5	0.60	0.72	0.18	0.43		.6	3	0	"
240	5-14	910A 915A	"	1.5	0.66	0.95	0.22	0.63		.6	3	0	"
241	5-21	830A 835A	"	1.5	0.66	1.25	0.24	0.76		.6	3	0	"
242	5-28	845A 850A	"	1.5	0.84	1.02	0.25	0.86		.6	3	0	"
243	6-4	851A 855A	"	1.2	0.20	0.65	0.07	0.13		.6	2	0	"
244	6-11	220P 230P	"	5.0	2.92	1.92	0.88	5.6		.6	6	0	"
245	6-18	850A 900A	"	3.0	3.56	2.19	1.06	7.8		.6	6	0	"
246	6-25	850A 900A	"	4.0	5.16	2.05	1.31	10.6		.6	7	0	"
247	7-2	915A 925A	"	4.0	3.95	2.08	1.10	8.2		.6	8	0	"
248	7-9	924A 930A	"	4.0	4.49	1.87	1.16	8.4		.6	7	0	"
249	7-16	855A 905A	"	7.0	4.20	1.64	0.98	6.9		.6	7	0	"
250	7-23	820A 830A	"	6.0	2.88	1.81	0.82	5.2		.6	6	0	"
251	7-30	840A 850A	"	6.0	5.00	1.34	0.98	6.7		.6	6	0	"
252	8-6	920A 930A	"	6.0	4.66	1.16	0.83	5.4		.6	6	0	"
253	8-13	415P 423P	Lindsay	4.2	1.57	1.21	0.47	1.9		.6	7	0	FC 28
254	8-20	1104A 1112A	"	3.4	2.22	1.08	0.48	2.4		.6	7	0	"
255	8-27	502P 510P	Brewster	6.0	4.98	1.22	0.99	6.1		.6	6	0	FC 24
256	9-3	911A 920A	"	2.5	2.54	1.38	0.65	3.5		.6	5	0	"
257	9-10	841A 850A	"	2.5	3.33	1.92	0.92	6.4		.6	5	0	"
258	9-17	829A 835A	"	2.5	2.98	1.61	0.76	4.8		.6	5	0	"
259	9-24	856A 902A	"	2.5	3.29	1.85	0.88	6.1		.6	5	0	FC 12

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F40R

Daily discharge, in second-feet of PUDDINGSTONE CREEK below Puddingstone Dam, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.2	0.1	0.2	0.1	1.8	1.9	0.5	0.5	10.3	6.2	9.4
2	0.2	0.2	0.1	0.2	0.1	1.2	1.6	0.5	0.4	8.7	4.9	6.9
3	0.1	0.2	0.1	0.2	0.1	0.8	0.8	0.5	0.4	11.0	7.7	4.6
4	0.1	0.2	0.2	0.2	0.1	5.4	0.8	0.5	0.4	12.2	8.1	7.0
5	0.1	0.2	0.2	0.2	0.1	1.5	0.7	0.5	0.4	10.8	10.6	8.5
6	0.1	0.2	0.1	0.2	0.2	0.4	0.7	0.4	0.4	9.3	7.7	6.8
7	0.1	0.1	0.1	0.2	0.1	0.4	0.6	0.4	0.3	6.0	4.4	6.5
8	0.1	0.1	0.1	0.2	0.1	0.3	0.5	0.4	0.5	6.7	5.2	6.5
9	0.2	0.1	0.1	0.2	0.1	0.3	0.4	0.4	0.4	9.0	7.7	5.5
10	0.2	0.2	0.2	0.2	+	0.3	0.6	0.4	3.5	7.2	7.2	7.8
11	0.1	0.2	0.1	0.2	0.1	0.3	0.9	0.4	9.8	5.7	4.2	7.6
12	0.1	0.1	0.2	0.2	0.1	0.8	0.7	0.5	14.4	5.7	1.6	6.0
13	0.1	0.1	0.2	0.2	0.1	3.9	0.7	0.5	10.8	7.0	2.8	6.5
14	0.1	0.1	0.1	0.1	0.4	1.8	0.6	0.6	12.7	8.4	3.6	7.1
15	0.1	0.1	0.1	0.1	0.7	0.6	0.7	0.6	11.3	8.6	4.0	5.3
16	0.1	0.1	0.2	0.1	0.4	0.5	0.7	0.6	8.3	6.7	5.3	4.6
17	0.1	0.1	0.5	0.1	0.7	0.4	0.7	0.7	6.6	3.8	2.2	5.8
18	0.1	0.1	0.3	0.1	0.2	0.7	0.7	0.8	7.7	2.6	1.9	7.7
19	0.1	0.1	0.2	0.1	2.8	0.4	0.6	0.8	5.0	2.7	1.2	5.1
20	0.1	0.1	0.2	0.1	3.8	0.4	0.6	0.8	8.0	4.7	3.2	5.6
21	0.1	0.1	0.2	0.1	2.4	0.4	0.6	0.8	9.7	7.3	6.8	6.6
22	0.1	0.1	0.2	0.1	1.0	0.4	0.6	0.8	9.9	6.9	6.7	5.8
23	0.1	0.1	1.4	0.1	0.4	0.4	0.6	0.8	8.3	5.9	3.0	4.3
24	0.1	0.1	2.8	0.6	0.5	0.4	0.6	0.8	9.1	5.2	2.5	6.7
25	0.1	0.1	0.3	0.2	0.4	0.4	0.5	0.8	10.2	3.8	4.0	8.7
26	0.2	0.1	0.2	0.2	0.3	0.4	0.6	0.8	9.0	6.5	5.7	8.3
27	0.2	0.1	0.2	0.1	0.3	0.4	0.6	0.8	12.1	8.3	7.2	6.7
28	0.2	0.1	0.2	0.1	1.5	0.4	0.5	0.8	15.7	5.1	7.2	7.3
29	0.2	0.1	0.2	0.1		1.0	0.5	0.6	13.1	7.0	5.8	6.3
30	0.2	0.1	0.2	0.1		0.5	0.9	0.6	12.0	7.0	6.5	7.9
31	0.2		0.2	0.1		1.4		0.7		8.8	9.7	
	41	38	95	51	171	283	215	191	2109	2189	1648	1994
MEAN	0.13	0.13	0.31	0.16	0.61	0.91	0.72	0.62	7.03	7.06	5.32	6.65
ACRE-FEET	8.1	7.5	19.	10.	34.	56.	43.	38.	418.	434.	327.	396.

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

YEAR OR PERIOD MEAN 2.47
ACRE-FEET 1790.

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:

Indeterminate due to a natural split near Arrow Highway which divides the San Gabriel River into 2 branches; the west branch known as the Rio Hondo flows into the Los Angeles River; the east branch retains the name San Gabriel River.

CHANNEL AND CONTROL:

Channel - sand and gravel.
No artificial control.

DISCHARGE MEASUREMENTS:

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, 1940 to September 30, 1941.

REGULATION:

Flow partially regulated by Sierra Madre Dam, Big Santa Anita Dam, Sawpit Dam, San Gabriel Dams Nos. 1 and 2 and Morris Dam.

DIVERSIONS:

The City of Pasadena diverts water from the San Gabriel River.
The City of Monrovia diverts water from Monrovia Creek.
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, 1941, recorder records.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 4000 second-feet, March 4.
Minimum no flow several months.
1932-1941
Maximum 31000 second-feet, estimated March 2, 1938.
Minimum no flow at times each year.

ACCURACY:

Poor due to shifting control. At times the stream was in several channels at the recorder. Flows occasionally estimated due to recorder clock failure or 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. F192R

DISCHARGE MEASUREMENTS OF RIO HONDO

at Lower Azusa Road DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
226	10-25	945P / 950P	Lindsay	6.0	1.20	1.00	2.68	1.2		.6	4	0	FC 28
227	12-16	1116P / 1125P	Hall-Haig	45.0	45.6	1.32	3.20	60.3		.6	5	+.02	FC 33
228	12-23	814A / 822A	" "	48.0	52.8	2.64	3.50	140.		.6	9	+.03	"
229	12-23	1137A / 1142A	" "	30.0	31.4	1.67	3.20	52.5		.6	7	-.09	"
230	12-23	1240P / 1250P	Lindsay-Keim	31.0	14.4	0.73	2.98	10.4		.6	8	-.04	FC 28
231	12-24	912A / 918A	Haig-Hall	27.5	28.3	1.01	3.04	28.7		.6	7	-.03	FC 33
232	12-24	1258P / 105P	Lindsay	5.0	0.87	1.38	2.68	1.2		.6	5	0	FC 28
233	1-24	316A / 325A	Haig-Trentham	32.0	20.7	0.94	2.88	19.5		.6	6	+.01	FC 33
234	1-24	908A / 911A	" "	6.3	2.81	1.81	2.76	5.1		.6	4	-.01	"
235	2-6	807A / 814A	" "	29.0	30.0	1.64	3.06	49.3		.6	7	-.02	"
236	2-6	1050A / 1058A	Trentham-Haig	8.5	2.99	0.73	2.64	2.2		.6	5	0	"
237	2-11	1210P / 1214P	Haig-Trentham	27.5	29.9	1.76	3.12	52.6		.6	7	0	"
238	2-11	302P / 308P	" "	7.0	2.70	0.96	2.66	2.6		.6	5	-.02	"
239	2-14	457P / 507P	Haig	29.0	34.4	2.26	3.26	77.8		.6	7	-.04	FC 33
240	2-14	830P / 835P	Haig-Trentham	27.0	27.9	1.37	3.03	38.3		.6	6	-.01	"
241	2-14	1043P / 1047P	" "	4.5	1.40	1.05	2.61	1.5		.6	4	-.02	"
242	2-15	1140P / 145P	" "	27.0	34.9	2.41	3.31	83.9		.6	6	0	"
243	2-15	407P / 411P	" "	28.5	35.7	1.74	3.14	62.2		.6	6	-.01	"
244	2-16	1129A / 1137A	Lindsay-Keim	7.5	3.58	1.38	2.74	5.0		.6	8	0	FC 28
245	2-17	310A / 315A	Haig-Trentham	27.0	21.4	1.12	2.90	24.1		.6	5	0	FC 33
246	2-18	1434P / 1442P	Haig	20.5	11.4	1.26	2.91	14.5		.6	8	0	"
247	2-19	844P / 852P	Haig-Trentham	37.0	80.4	3.46	3.84	278.		.6	8	-.06	"
248	2-20	1141A / 150A	" "	69.0	54.9	2.76	3.52	151.		.6	9	0	"
249	2-21	1008A / 1021A	Haig-Trentham	78.0	102.	3.54	3.96	360.		.6	11	0	FC 33
250	2-21	229P / 243P	" "	84.0	100.	4.06	4.00	407.		.6	13	0	"
251	2-21	945P / 1000P	" "	83.0	157.	3.93	4.20	617.		.6	9	-.05	"
252	2-22	310P / 322P	" "	80.0	92.3	3.60	3.93	332.		.6	13	0	"
253	2-23	1124A / 1135A	" "	82.0	148.	3.95	4.15	587.		.6	10	0	"
254	2-24	239P / 248P	Haig	29.0	46.8	1.14	2.88	53.1		.6	9	-.01	
255	2-25	917A / 930A	"	70.0	81.4	3.08	3.54	251.		.6	12	+.01	"
256	2-25	1116A / 1128A	"	70.0	71.5	3.41	3.49	244.		.6	12	+.02	"
257	2-27	924A / 938A	"	31.0	61.6	4.16	2.76	256.		.6	10	+.01	"
258	2-28	325P / 336P	Lindsay	39.0	51.4	5.29	2.74	272.		.6	9	+.04	FC 28
259	2-28	814P / 821P	Haig-Trentham	71.0	122.	4.59	3.35	560.		.6	6	-.02	FC 33
260	3-1	105P / 120P	Lindsay-Keim	41.0	47.4	4.58	2.48	217.		.6	11	-.01	FC 28
261	3-2	1235P / 1245P	Haig	47.0	74.6	5.15	2.81	384.		.6	7	-.01	FC 33
262	3-3	1252P / 104P	"	27.0	18.3	2.02	1.54	37.5		.6	8	0	"
263	3-4	1210A / 1225A	Haig-Trentham	73.0	167.	5.61	3.63	938.		.6	7	-.02	"
264	3-4	425A / 448A	" "	Two Channels			4.42	1790.	Est	.6		+.79 -.11	"
265	3-4	940A / 1000A	" "	Three "			3.76	1470.	Sur	.6	17	+.17	"
266	3-4	1052A / 1102A	" "	Two "			4.77	2370.	Sur	.6	13	+.14	"
267	3-5	951A / 1148A	Haig	Four "			4.40	2450.	Sur	.6	24	0	"
268	3-6	947A / 1044A	"	Six "			4.45	2200.	Sur.		25	+.10	"
269	3-7	950A / 1050A	"	Three "			4.15	2010.	Sur.		24	0	"
270	3-8	450P / 520P	Haig-Haig	Two "			3.92	1150.	Sur	.6	18	0	"
271	3-10	445P / 505P	Haig	" "			3.65	481.		.6	16	-.01	"
272	3-12	956A / 1020A	"	" "			3.60	471.		.6	15	0	"
273	3-12	726P / 740P	Haig-Trentham	Two Channels			3.86	712.		.6	16	-.02	FC 33
274	3-13	1235P / 1238P	" "	Three "			3.54	504.		.6	17	+.09	"
275	3-13	245P / 305P	" "	Two "			4.18	1330.		.6	24	+.06	"
276	3-15	306P / 342P	Lindsay-Ingram	Three "			3.74	1020.		.6	22	-.07	FC 28
277	3-16	1207P / 1233P	" "	Two "			3.71	875.		.6	18	-.02	"
278	3-17	142P / 210P	Haig	" "			3.19	329.		.6	24	-.03	FC 33
279	3-18	205P / 228P	"	" "			3.26	271.		.6	20	0	"
280	3-19	215P / 225P	Ingram	" "			3.25	243.		.6	19	+.02	FC 18
281	3-21	1203P / 1238P	"	" "			3.22	304.		.6	20	-.05 +.04	"
282	3-24	1249P / 138P	"	" "			3.04	230.		.6	21	-.01	"
283	3-28	1107A / 1146A	"	Three "			2.64	135.		.6	23	+.01	"
284	3-28	1038P / 1050P	Haig-Trentham	" "			2.38	37.9		.6	12	-.01	FC 33
285	3-29	434A / 445A	" "	" "			2.53	79.6		.6	13	-.06	"
286	3-29	750A / 810A	" "	Two "			2.20	19.6		.6	14	0	"
287	3-31	1041A / 1058A	" "	" "			2.84	232.		.6	18	0	"
288	3-31	340P / 354P	" "	" "			2.70	200.		.6	16	-.01	"
289	3-31	1045P / 1108P	" "	" "			3.06	410.		.6	18	-.10	"
290	4-1	216P / 240P	Haig	" "			2.69	240.		.6	18	0	"
291	4-2	1055A / 1135A	Ingram	" "			2.70	231.		.6	23	0	FC 18
292	4-3	252P / 315P	Haig	" "			2.66	207.		.6	20	0	FC 33
293	4-4	1118P / 1133P	Haig-Trentham	" "			2.65	193.		.6	17	-.06	"
294	4-5	421P / 441P	Lindsay-Keim	" "			2.15	31.3		.6	14	0	FC 28
295	4-6	1155A / 1228P	Ingram	Three "			2.40	108.		.6	22	0	FC 18

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F192R

DISCHARGE MEASUREMENTS OF RIO HONDO

at Lower Azusa Road DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
296	4-9	1120A / 1155A	Ingram	Two Channels			2.73	244.		.6	20	0	FC 18
297	4-10	1115A / 1142A	Lindsay	"	"		2.92	370.		.6	23	0	FC 28
298	4-11	133A / 213A	Haig-Trentham	"	"		3.21	678.		.6	15	+.21 -.13	FC 33
299	4-11	1257P / 110P	Lindsay-Keim	"	"		3.07	491.		.6	21	+.02	FC 28
300	4-12	140P / 159P	" "	"	"		2.88	384.		.6	20	0	"
301	4-15	946A / 1018A	Ingram	"	"		2.82	418.		.6	18	-.01	FC 18
302	4-17	432P / 455P	Lindsay	"	"		2.24	113.		.6	16	0	FC 28
303	4-18	1201P / 1230P	"	"	"		2.40	192.		.6	18	0	"
304	4-24	158P / 215P	"	"	"		2.28	162.		.6	12	0	"
305	4-28	225P / 245P	"	"	"		1.24	127.		.6	16	0	"
306	4-30	836A / 852A	Haig	"	"		1.50	193.		.6	18	-.06	FC 33
307	4-30	1256P / 110P	"	"	"		2.24	217.		.6	20	-.08	"
308	5-1	145P / 206P	Lindsay	"	"		2.14	223.		.6	15	0	FC 28
309	5-2	1023A / 1045A	"	"	"		2.10	280.		.6	14	0	"
310	5-3	848A / 911A	"	"	"		2.09	334.		.6	15	-.01	"
311	5-5	913A / 928A	"	"	"		1.62	144.		.6	11	0	"
312	5-8	332P / 342P	"	31.0	36.6	3.14	1.53	115.		.6	8	0	"
313	5-12	355P / 407P	"	32.0	39.2	3.39	1.60	133.		.6	8	0	"
314	5-15	1217P / 1230P	"	37.0	43.9	3.35	1.70	147.		.6	9	0	"
315	5-19	921A / 930A	"	28.0	22.9	2.01	1.05	45.7		.6	7	-.02	"
316	5-22	318P / 325P	"	11.0	2.89	0.62	0.34	1.8		.6	6	0	"
317	5-28	1225P / 1239P	Lindsay	27.0	19.3	2.13	1.02	40.9		.6	9	0	FC 28
318	5-29	133P / 145P	"	27.0	20.6	2.40	1.11	49.4		.6	9	0	"
319	6-2	338P / 352P	"	27.0	19.6	2.08	1.03	40.7		.6	9	0	"
320	6-5	210P / 223P	Lindsay	27.0	20.9	2.17	1.07	45.3		.6	9	0	FC 28
321	6-9	248P / 302P	"	28.0	20.8	2.33	1.09	48.5		.6	10	0	"
322	6-13	200P / 210P	"	30.0	27.1	2.67	1.25	72.3		.6	8	0	"
323	6-16	248P / 302P	"	28.0	25.3	2.62	1.22	66.4		.6	10	-.01	"
324	6-19	256P / 310P	"	28.0	26.7	2.89	1.29	77.2		.6	10	0	"
325	6-26	223P / 237P	"	28.0	26.7	2.79	1.30	74.6		.6	10	0	"
326	7-3	1109A / 1121A	"	28.0	26.6	2.85	1.31	75.7		.6	9	0	"
327	7-7	1153A / 1207P	"	28.0	23.6	2.43	1.15	57.4		.6	9	0	"
328	7-8	941A / 954A	"	27.5	27.5	2.76	1.30	75.9		.6	10	0	"
329	7-17	203P / 220P	"	30.0	27.4	2.82	1.33	77.2		.6	11	0	"
330	7-24	230P / 240P	Haig	31.0	27.6	2.71	1.35	74.9		.6	11	0	FC 33
331	7-31	115P / 130P	"	25.5	23.2	2.43	1.17	56.3		.6	11	0	"
332	8-7	347P / 400P	Lindsay	25.0	19.2	1.89	1.06	36.3		.6	8	0	FC 28
333	8-12	910A / 920A	"	14.0	6.15	0.98	0.56	6.0		.6	7	0	"
334	8-18	1145A / 1157A	"	25.0	21.4	2.31	1.12	49.4		.6	9	0	"
335	8-21	720A / 730A	"	27.0	23.3	2.26	1.14	52.7		.6	9	0	"
336	8-25	1218P / 1229P	"	28.0	29.0	3.27	1.40	94.8		.6	9	+.01	"
337	8-28	1120A / 1134A	"	29.0	30.5	3.12	1.42	95.2		.6	10	0	"
338	9-4	133P / 143P	"	27.0	27.2	2.80	1.30	76.1		.6	9	0	"
339	9-11	1202P / 1212P	"	16.5	9.44	0.37	0.42	3.5		.6	8	0	"
340	9-18	230P / 244P	Haig	12.0	3.01	0.90	0.39	2.7		.6	9	0	"
341	9-25	255P / 310P	"	18.5	3.84	0.68	0.37	2.6		.6	10	0	FC 33

P.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

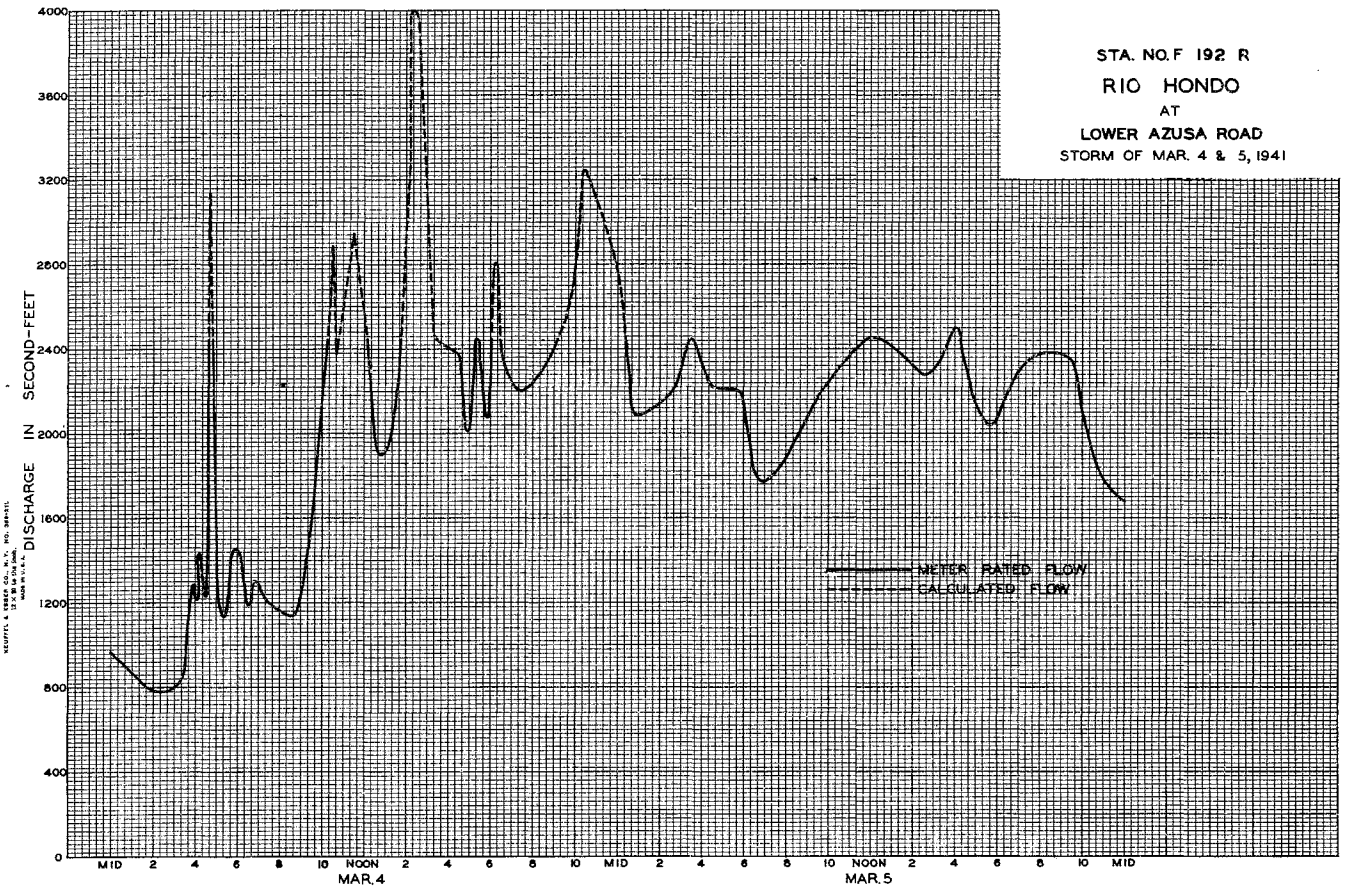
Sta. No F192R

Daily discharge, in second-feet of RIO HONDO at Lower Azusa Road, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	227	260	221	46	71	52	76
2	0	0	0	0	0	349	237	290	43	74	49	74
3	0	0	0	0	0	265	212	342	44	74	49	76
4	0	0	0	0	0	2010	218	327	46	78	46	76
5	0	0	0	0	0	2210	91	140	46	78	49	50
6	0	0	0	0	5.5	1980	86	127	47	77	48	5
7	0	0	0	0	0	2220	188	125	48	62	46	4.8
8	0	0	0	0	0	1890	232	122	48	76	43	4.2
9	0	0	0	0	0	1490	258	122	38	78	46	4.2
10	0	0	0	0.3	0	870	380	129	51	78	49	4.0
11	0	0	0	0	4.8	501	497	129	47	78	43	3.8
12	0	0	0	0	0.6	557	392	129	54	78	7	3.8
13	0	0	0	0	0.3	880	368	131	76	78	6.5	3.5
14	0	0	0	0.1	16	1330	386	125	76	76	6.5	3.2
15	0	0	0	0	18	1140	389	150	72	70	7.5	3.0
16	0	0	4.7	0	14	878	7.5	174	68	77	23	2.9
17	0	0.1	21	0	22	594	48	176	71	80	47	2.9
18	0	0.9	7.5	0	16	263	180	178	80	78	47	2.8
19	0	0	0.3	0	40	208	196	48	82	72	44	2.8
20	0	0	0	0	320	0.5	196	E 1.9	82	74	47	2.8
21	0	0	0	+	402	220	172	E 1.9	78	72	47	2.6
22	0	0	0	0.7	499	287	168	E 1.9	77	74	86	2.8
23	0	0	31	0	537	240	168	E 1.9	74	72	90	2.6
24	0	0	14	12	52	224	160	1.9	74	76	93	2.6
25	1.3	0	0.7	2.4	193	220	133	1.8	74	74	96	2.7
26	2.4	0	0.6	0.1	198	216	127	1.7	76	74	98	E 2.6
27	0.4	0	0	0	244	176	127	1.7	80	74	94	E 2.6
28	0	0	0	0	369	132	127	32	76	72	96	E 2.6
29	0	0	0.4	0		53	129	49	78	71	91	E 2.4
30	0	0	1.8	0		148	155	49	74	74	76	E 2.4
31	0		0.4	0		213		48		57	78	
	41		824		29512		62875		1926		17005	
		10		156		219915		33777		2297		4316
MEAN	0.13	0.03	2.66	0.50	105.	709.	210.	109.	64.2	74.1	54.9	14.4
ACRE-FEET	8.1	2.0	163.	31.	5850.	43620.	12470.	6700.	3820.	4560.	3370.	856.

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

YEAR OR PERIOD MEAN 113.
ACRE FEET 81450.



STATION F64R

RIO HONDO above Mission Bridge

LOCATION:

On the right (west) bank approximately 1000 feet above Mission Bridge (San Gabriel Blvd.) 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:

Indeterminate due to a natural split near Arrow Highway which divides the San Gabriel River into 2 branches; the west branch known as the Rio Hondo flows into the Los Angeles River; the east branch retains the name San Gabriel River.

CHANNEL AND CONTROL:

Channel-sand and silt.
No artificial control.

DISCHARGE MEASUREMENTS:

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, 1940 to September 30, 1941.

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 and Eaton Dam.

DIVERSIONS:

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

RECORDS AVAILABLE:

July, 1928, to September 30, 1941 (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:

1940-1941
Maximum 6570 second-feet, March 4.
Minimum 13 second-feet, October 24.
1928-1941
Maximum 28000 second-feet, estimated, March 2, 1938.
Minimum 0.3 second-feet, December 1, 1933.

ACCURACY:

Fair.
Control shifts during high flows.
Flows occasionally estimated due to recorder clock failure or communication being obstructed by sand.

OPERATION:

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. P64R

DISCHARGE MEASUREMENTS OF RIO HONDO

at above Mission Bridge DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
489	10-3	847A / 900A	Brewster	30.0	9.68	1.32	4.68	12.7		.6	7	0	FC 24
490	10-10	900A / 915A	"	19.0	8.68	1.56	4.71	13.5		.6	7	-.01	"
491	10-17	854A / 905A	"	15.0	8.85	1.52	4.70	13.4		.6	5	0	"
492	10-24	945A / 956A	"	19.0	9.76	1.33	4.75	13.1		.6	7	0	"
493	10-25	824P / 839P	Lindsay	108.0	111.	1.80	5.84	201.		.6	10	-.05	FC 28
494	10-26	1137A / 1150A	"	33.0	19.5	2.10	5.01	40.8		.6	9	0	"
495	10-31	940A / 955A	Brewster	27.0	12.2	1.52	4.68	18.5		.6	7	0	FC 24
496	11-7	941A / 953A	"	26.5	10.7	1.71	4.62	18.3		.6	7	0	"
497	11-14	915A / 930A	"	32.0	13.4	1.36	4.58	18.2		.6	7	0	"
498	11-18	510A / 522A	Lindsay	36.0	40.8	2.35	5.25	95.9		.6	8	-.08	FC 28
499	11-20	940A / 956A	Brewster	32.0	12.3	1.42	4.66	17.4		.6	7	0	FC 24
500	11-28	915A / 930A	"	33.0	11.5	1.21	4.58	13.9		.6	8	0	"
501	12-5	925A / 940A	"	32.0	11.0	1.36	4.57	15.0		.6	9	0	"
502	12-12	858A / 913A	"	31.0	11.9	1.35	4.60	16.0		.6	7	0	"
503	12-16	920A / 937A	Lindsay-Keim	106.0	104.	2.06	5.72	214.		.6	13	+.12	FC 28
504	12-16	952A / 1003A	" "	108.0	140.	2.45	6.02	341.		.6	11	+.13	"
505	12-16	234P / 245P	" "	Two Channels			5.48	125.		.6	11	-.03	"
506	12-16	430P / 502P	Haig-Hall	120.0	104.	1.62	5.61	169.		.6	19	-.13	FC 33
507	12-16	1120P / 1138P	Lindsay-Keim	135.0	255.	6.21	7.01	1590.		.6	10	-.03 +.02	FC 28
508	12-16	1138P / 1153P	" "	135.0	231.	6.35	6.99	1470.		.6	10	-.06	"
509	12-17	245A / 310A	Haig-Hall	123.0	241.	6.18	6.99	1490.		.6	11	-.18	FC 33
510	12-17	457A / 518A	Lindsay-Keim	111.0	124.	3.08	6.18	382.		.6	9	-.10	FC 28
511	12-17	859A / 914A	" "	115.0	199.	6.07	6.91	1210.		.6	9	+.06	"
512	12-17	914A / 926A	" "	115.0	190.	6.02	6.86	1140.		.6	9	-.15	"
513	12-18	220P / 235P	Lindsay	38.5	25.9	1.57	4.94	41.7		.6	11	-.01	FC 28
514	12-18	607P / 625P	"	114.0	221.	4.87	6.85	1080.		.6	10	-.08	"
515	12-18	640P / 655P	"	115.0	186.	3.97	6.57	738.		.6	9	-.20	"
516	12-19	910A / 925A	Brewster	24.0	18.3	1.58	4.81	29.0		.6	6	0	FC 24
517	12-23	820A / 837A	Haig-Hall	118.0	222.	4.40	6.80	975.		.6	10	+.14	FC 33
518	12-23	806A / 822A	Lindsay-Keim	125.0	249.	7.19	7.29	1790.		.6	9	+.09	FC 28
519	12-23	822A / 835A	" "	125.0	274.	7.54	7.41	2060.		.6	8	+.15	"
520	12-23	1021A / 1042A	Haig-Hall	135.0	322.	7.43	7.61	2390.		.6	10	-.38	FC 33
521	12-23	220P / 232P	Hall-Haig	107.0	126.	2.78	6.13	352.		.6	11	-.08	"
522	12-24	705A / 727A	Haig	138.0	290.	5.30	7.14	1540.		.6	11	-.06	"
523	12-24	1208P / 1220P	Lindsay-Keim	106.0	116.	2.35	6.12	273.		.6	12	-.06	FC 28
524	12-26	930A / 942A	Brewster	41.0	17.9	1.47	4.96	26.3		.6	5	0	FC 24
525	12-31	935A / 945A	Lindsay	43.0	17.5	1.43	4.85	25.1		.6	11	0	FC 28
526	1-2	920A / 935A	Brewster	47.0	17.8	1.25	4.80	21.7		.6	6	0	FC 24
527	1-9	915A / 930A	"	47.0	17.5	1.22	4.70	21.4		.6	6	0	"
528	1-10	1153A / 1208P	Lindsay	95.0	70.1	2.33	5.64	163.		.6	14	-.01	FC 28
529	1-16	935A / 950A	Brewster	40.0	14.9	1.49	4.68	22.2		.6	6	0	FC 24
530	1-23	910A / 925A	"	47.0	16.8	1.30	4.62	22.0		.6	7	+.01	"
531	1-24	203A / 219A	Haig-Trentham	108.0	171.	3.43	6.36	588.		.6	8	-.04	FC 33
532	1-24	400A / 422A	Lindsay-Keim	120.0	219.	4.61	6.76	1010.		.6	9	+.11	FC 44
533	1-24	422A / 436A	" "	120.0	227.	4.65	6.86	1060.		.6	8	+.07	"
534	1-24	1103A / 1115A	" "	106.0	106.	2.47	5.96	263.		.6	10	-.07	"

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.
534A	1-24	213P / 225P	Lindsay-Keim	54.0	52.2	2.10	5.37	110.		.6	11	-.04	FC 28
535	1-30	930A / 945A	Brewster	35.0	14.9	1.60	4.68	23.8		.6	5	0	FC 24
536	2-6	656A / 707A	Haig-Trentham	118.0	225.	6.18	6.81	1390.		.6	9	+.12	FC 33
537	2-6	751A / 804A	Lindsay	112.0	202.	6.49	6.74	1310.		.6	8	-.10	FC 28
538	2-6	804A / 815A	"	112.0	191.	5.84	6.62	1120.		.6	8	-.13	"
539	2-6	947A / 1000A	Haig-Trentham	111.0	160.	2.92	6.18	468.	Surf	.6	8	-.04	FC 33
540	2-6	1141A / 1156A	" "	93.0	86.1	2.34	5.65	201.		.6	11	-.06	"
541	2-6	308P / 320P	Brewster-Smith	46.0	38.6	1.51	5.08	58.2		.6	6	-.01	FC 24
542	2-11	1116A / 1130A	Haig-Trentham	109.0	196.	3.60	6.50	705.		.6	9	-.14	FC 33
543	2-11	136P / 146P	" "	109.0	150.	2.76	6.12	414.		.6	9	-.06	"
544	2-11	339P / 350P	" "	110.0	109.	2.42	5.67	262.		.6	12	-.04	"
545	2-13	940A / 952A	Brewster	40.0	16.4	1.58	4.75	25.8		.6	6	0	FC 24
546	2-14	350P / 401P	Haig	127.0	275.	4.31	6.99	1180.		.6	9	0	FC 33
547	2-14	659P / 717P	Haig-Trentham	128.0	306.	7.55	7.31	2310.		.6	10	-.07 +.03	"
548	2-14	934P / 948P	Lindsay-Keim	111.0	148.	3.03	6.32	450.		.6	8	-.07	FC 28
549	2-15	1230P / 1244P	Lindsay	117.0	234.	4.36	6.96	1020.		.6	8	+.01	"
550	2-15	1241P / 1255P	"	117.0	216.	4.41	6.94	954.		.6	8	-.05	"
551	2-15	310P / 322P	Haig-Trentham	123.0	247.	4.93	6.97	1220.		.6	9	-.05	FC 33
552	2-15	505P / 515P	" "	109.0	176.	3.19	6.35	561.		.6	8	-.02	"
553	2-16	1237P / 1247P	Lindsay-Keim	50.0	29.6	1.96	5.02	57.6		.6	11	-.01	FC 28
554	2-16	1028P / 1038P	" "	112.0	186.	5.70	6.71	1060.		.6	8	-.12	"
555	2-17	327A / 341A	" "	112.0	166.	3.61	6.50	600.		.6	9	-.23	"
556	2-17	626A / 635A	Haig-Trentham	109.0	150.	3.02	6.29	451.		.6	9	0	FC 33
557	2-18	520P / 532P	Haig	50.0	49.5	2.05	5.19	102.		.6	12	0	"
558	2-19	407P / 419P	"	102.0	126.	2.94	5.78	303.	Surf	.6	9	-.14	"
559	2-19	639P / 704P	Haig-Trentham	140.0	410.	8.01	7.90	3280.		.6	9	0	"
560	2-19	957P / 1012P	Haig-Trentham	130.0	322.	7.19	7.54	2310.		.6	8	-.18	FC 33
561	2-20	1215A / 1227A	" "	125.0	286.	3.49	6.90	997.		.6	8	-.11	"
562	2-20	605A / 619A	" "	113.0	237.	3.98	6.77	944.		.6	8	+.13	"
563	2-20	822A / 834A	" "	135.0	308.	5.49	7.42	1690.		.6	11	+.11	"
564	2-20	948A / 1000A	" "	128.0	274.	6.54	7.13	1790.		.6	8	-.08	"
565	2-21	835A / 847A	" "	130.0	262.	5.69	6.99	1490.		.6	10	0	"
566	2-21	105P / 115P	" "	114.0	223.	5.58	6.75	1240.		.6	10	-.06	"
567	2-21	455P / 504P	" "	109.0	207.	4.83	6.60	998.		.6	10	-.04	"
568	2-21	650P / 705P	" "	140.0	348.	7.27	7.62	2530.		.6	9	+.17	"
569	2-21	1052P / 1104P	" "	135.0	380.	7.31	7.56	2780.		.6	9	-.09	"
570	2-22	411P / 419P	" "	107.0	175.	3.50	6.28	612.		.6	8	0	"
571	2-23	1220P / 1229P	" "	109.0	185.	3.79	6.22	699.		.6	8	0	"
572	2-24	1212P / 1227P	Haig	101.0	93.8	2.82	5.64	265.		.6	9	-.01	"
573	2-25	1231P / 1244P	"	105.0	106.	2.60	5.74	275.		.6	11	0	"
574	2-27	1025A / 1044A	"	108.0	122.	2.85	5.72	347.		.6	14	+.01	"
575	2-28	110P / 124P	"	105.0	122.	3.11	5.66	379.		.6	11	-.01	"
576	2-28	150P / 202P	"	105.0	119.	3.37	5.65	402.		.6	11	0	"
577	2-28	330P / 348P	"	116.0	269.	7.64	7.10	2060.		.6	10	-.09	"
578	2-28	446P / 500P	"	145.0	398.	8.59	7.85	3420.		.6	10	+.10	"
579	2-28	530P / 544P	Haig-Trentham	146.0	394.	8.44	7.90	3330.		.6	9	0	"
580	2-28	935P / 950P	" "	128.0	297.	5.81	7.15	1720.		.6	9	-.12	"
581	3-1	258P / 310P	Lindsay-Keim	106.0	132.	3.08	6.10	406.		.6	12	-.01	FC 28
582	3-2	224P / 241P	Haig-Haig	104.0	150.	3.49	6.04	523.		.6	10	-.01	FC 33
583	3-3	246P / 301P	Haig	104.0	79.0	1.88	5.28	148.		.6	14	0	"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F64R

DISCHARGE MEASUREMENTS OF RIO HONDO

Above Mission Bridge DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
584	3-3	1020P / 1040P	Haig-Trentham	140.0	440.	9.25	8.04	4070.		.6	9	+.05	FC 33
585	3-4	250A / 305A	" "	130.0	330.	7.11	7.38	2340.		.6	9	+.05 -.02	"
586	3-4	540A / 600A	" "	146.0	433.	8.24	8.10	3570.		.6	9	+.20	"
587	3-4	1230P / 1249P	" "	141.0	412.	8.01	7.93	3300.		.6	12	+.05	"
588	3-4	212P / 226P	" "	146.0	489.	8.48	8.39	4150.		.6	11	+.08	"
589	3-4	345P / 403P	" "	157.0	602.	10.4	9.10	6250.	Sur	.6	10	-.20	"
590	3-5	257P / 320P	Haig	150.0	392.	7.33	7.66	2860.		.6	12	-.07 +.07	"
591	3-6	1250P / 103P	"	140.0	348.	6.98	7.44	2430.		.6	11	-.07	"
592	3-7	1120A / 1135A	"	130.0	329.	7.17	7.31	2360.		.6	10	+.01	"
593	3-8	326P / 340P	Haig-Haig	113.0	226.	5.48	6.70	1240.	Sur	.6	10	-.02	"
594	3-12	1144A / 1200N	Haig	109.0	243.	6.44	6.78	1570.		.6	10	+.08	"
595	3-12	430P / 436P	Haig-Trentham	130.0	306.	7.59	7.20	2330.		.6	11	+.13	"
596	3-12	459P / 510P	" "	135.0	348.	8.14	7.62	2830.		.6	9	+.17	"
597	3-12	528P / 541P	" "	140.0	426.	7.55	7.80	3210.		.6	10	0	"
598	3-12	1030P / 1038P	" "	109.0	190.	4.61	6.38	872.		.6	8	-.03	"
599	3-13	1110A / 1124A	" "	105.0	155.	4.33	6.33	671.		.6	12	-.01	"
600	3-13	418P / 428P	Haig-Trentham	110.0	250.	6.74	6.86	1680.		.6	10	0	FC 33
601	3-15	150P / 211P	Lindsay-Ingram	109.0	235.	6.90	6.92	1620.		.6	13	+.03 -.03	FC 28
602	3-16	208P / 226P	" "	108.0	170.	5.36	6.36	912.		.6	12	0	"
603	3-17	521P / 542P	Haig	106.0	110.	2.72	5.89	300.		.6	13	-.03	FC 33
604	3-18	417P / 440P	"	104.0	100.	2.84	5.82	285.		.6	17	-.01	"
605	3-19	335P / 400P	Ingram	105.0	97.0	2.82	5.71	273.		.6	12	0	FC 18
606	3-20	458P / 510P	Brewster	32.0	21.2	2.10	5.00	44.5		.6	8	0	FC 24
607	3-21	227P / 247P	Ingram	106.0	119.	2.64	5.77	314.		.6	12	0	FC 18
608	3-24	438P / 512P	"	119.0	127.	2.42	5.74	308.		.6	19	-.01	"
609	3-27	1035A / 1055A	Brewster	102.0	85.8	2.67	5.65	229.		.6	11	0	FC 24
610	3-28	110P / 137P	Ingram	103.0	80.2	2.33	5.54	187.		.6	15	+.01	FC 18
611	3-28	708P / 725P	Haig	109.0	205.	6.90	6.62	1410.		.6	9	+.15 -.15	FC 33
612	3-29	258A / 316A	Haig-Tretham	129.0	317.	8.10	7.48	2570.	Sur	.6 & .6	11	-.55	"
613	3-29	935A / 957A	" "	106.0	112.	1.87	5.66	209.	Sur	.6 & .6	8	-.04	"
614	3-31	1205P / 1211P	" "	109.0	202.	6.88	6.78	1390.		.6	9	+.04	"
615	3-31	457P / 507P	" "	106.0	138.	2.97	5.83	409.		.6	11	-.02	"
616	4-1	1237A / 1248A	" "	110.0	173.	4.90	6.35	848.		.6	10	-.06	"
617	4-1	1237P / 1252P	Haig	108.0	155.	2.53	6.00	392.		.6	9	0	"
618	4-2	142P / 212P	Ingram	122.0	137.	2.42	5.89	331.		.6	16	0	FC 18
619	4-3	1025A / 1045A	Brewster	85.0	100	2.92	5.80	293.		.6	12	0	FC 24
620	4-3	440P / 445P	Haig	103.0	109.	2.55	5.82	278.		.6	15	0	FC 33
621	4-4	1016P / 1026P	Haig-Trentham	110.0	217.	6.64	6.56	1440.		.6	10	-.10	"
622	4-5	335P / 344P	Lindsay-Keim	43.0	47.9	2.22	5.42	106.		.6	11	-.01	FC 28
623	4-6	222P / 242P	Ingram	113.0	88.4	2.28	5.64	201.		.6	14	0	FC 18
624	4-7	100P / 120P	Lindsay	105.0	105.	2.95	5.90	310.		.6	14	0	FC 28
625	4-9	148P / 215P	Ingram	119.0	131.	2.56	5.84	335.		.6	15	+.01	FC 18
626	4-9	1145P / 1200P	Haig	109.0	184.	4.19	6.14	768.		.6	10	-.10	FC 33
627	4-10	1040A / 1110A	Brewster	108.0	131.	4.02	5.98	525.		.6	12	+.05	FC 24
628	4-11	1217A / 1227A	Haig-Trentham	123.0	249.	7.52	6.79	1870.		.6	11	-.02	FC 33
629	4-11	442A / 452A	" "	111.0	143.	5.19	6.13	742.		.6	9	-.06	"
630	4-11	223P / 300P	Keim-Lindsay	103.0	147.	4.20	6.29	618.		.6	12	+.01	FC 28
631	4-15	1230P / 1241P	Lindsay-Ingram	103.0	140.	3.23	6.24	453.		.6	12	+.04	FC 18
632	4-16	1149P / 159P	Lindsay	42.0	30.6	1.89	5.42	58.2		.6	13	0	FC 28
633	4-17	740A / 750A	Brewster	52.0	24.8	1.62	5.29	40.2		.6	7	0	FC 24
634	4-18	135P / 150P	Lindsay	106.0	89.6	2.52	6.01	226.		.6	14	0	FC 28
635	4-24	900A / 925A	Brewster	109.0	103.	2.29	5.86	236.		.6	12	-.01	FC 24
636	4-30	642A / 708A	Haig	109.0	181.	4.39	6.53	796.		.6	13	+.02	FC 33
637	4-30	1004A / 1018A	"	109.0	206.	5.60	6.79	1150.		.6	11	+.18	"
638	4-30	1031A / 1048A	"	113.0	243.	6.49	6.88	1580.		.6	10	-.17	"
639	5-1	855A / 915A	Brewster	107.0	110.	2.81	6.00	310.		.6	12	+.05	FC 24
640	5-2	1112A / 1130A	Lindsay	119.0	115.	2.89	6.07	332.		.6	14	0	FC 28
641	5-3	958A / 1015A	"	120.0	115.	3.12	6.14	359.		.6	14	+.01	"
642	5-5	1005A / 1020A	"	103.0	73.7	2.29	5.77	169.		.6	13	+.01	"
643	5-8	850A / 850A	Brewster	105.0	67.6	2.16	5.63	146.		.6	12	0	FC 24
644	5-12	317P / 332P	Lindsay	102.0	74.4	1.98	5.76	147.		.6	13	0	FC 28
645	5-15	1027A / 1046A	Brewster	106.0	88.4	2.20	5.80	194.		.6	12	+.01	FC 24
646	5-19	1015A / 1030A	Lindsay	101.0	46.2	1.84	5.55	85.4		.6	12	-.02	FC 28
647	5-22	900A / 920A	Brewster	Two Channels			5.12	27.9		.6	14	-.01	FC 24
648	5-27	900A / 920A	"	"	"		5.12	25.1		.6	12	0	"
649	5-29	1245P / 104P	Lindsay	101.0	42.5	1.74	5.43	74.4		.6	13	0	FC 28
650	6-2	257P / 314P	"	101.0	46.9	1.70	5.40	79.6		.6	14	-.02	"
651	6-5	850A / 910A	Brewster	105.0	45.8	1.46	5.39	67.3		.6	13	0	FC 24
652	6-9	210P / 227P	Lindsay	101.0	50.0	1.78	5.50	88.9		.6	13	-.01	FC 28
653	6-12	840A / 900A	Brewster	105.0	50.8	1.44	5.32	72.8		.6	13	0	FC 24
654	6-13	322P / 340P	Lindsay	101.0	51.8	2.26	5.47	106.		.6	14	0	FC 28
655	6-16	203P / 221P	"	103.0	52.1	1.74	5.50	91.3		.6	15	0	"
656	6-19	901A / 920A	Brewster	103.0	60.9	1.63	5.53	99.4		.6	12	0	FC 24
657	6-26	850A / 910A	"	107.0	55.4	1.64	5.46	90.7		.6	13	0	"
658	7-3	852A / 913A	"	105.0	56.3	1.62	5.48	90.7		.6	12	0	"
659	7-8	130P / 150P	"	107.0	62.2	1.70	5.49	106.		.6	12	0	FC 43
660	7-10	850A / 910A	"	104.0	53.6	1.86	5.48	99.6		.6	12	0	FC 24
661	7-17	842A / 900A	"	105.0	60.2	1.71	5.44	103.		.6	12	0	"
662	7-24	900A / 920A	"	105.0	51.0	1.88	5.45	96.1		.6	12	0	"
663	7-31	845A / 905A	"	105.0	49.2	1.55	5.34	76.2		.6	13	0	"
664	8-7	900A / 920A	"	105.0	49.7	1.29	5.30	63.9		.6	12	0	"
665	8-14	900A / 913A	Lindsay	Two Channels			5.00	20.0		.6	16	0	FC 28
666	8-18	1237P / 1250P	"	102.0	46.8	1.61	5.36	75.3		.6	12	0	"
667	8-21	851A / 905A	"	103.0	41.6	1.57	5.29	65.5		.6	13	0	"
668	8-25	122P / 137P	"	102.0	60.2	2.01	5.55	121.		.6	12	0	"
669	8-28	905A / 925A	Brewster	105.0	60.0	1.77	5.51	106.		.6	12	0	FC 24
670	9-4	905A / 925A	"	104.0	56.8	1.67	5.42	94.9		.6	12	0	"
671	9-11	910A / 930A	"	Two Channels			5.04	19.1		.6	11	0	"
672	9-18	910A / 930A	"	"	"		4.99	20.4		.6	11	0	"
673	9-25	915A / 935A	Brewster	Two Channels			4.99	20.0		.6	11	0	FC 12

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

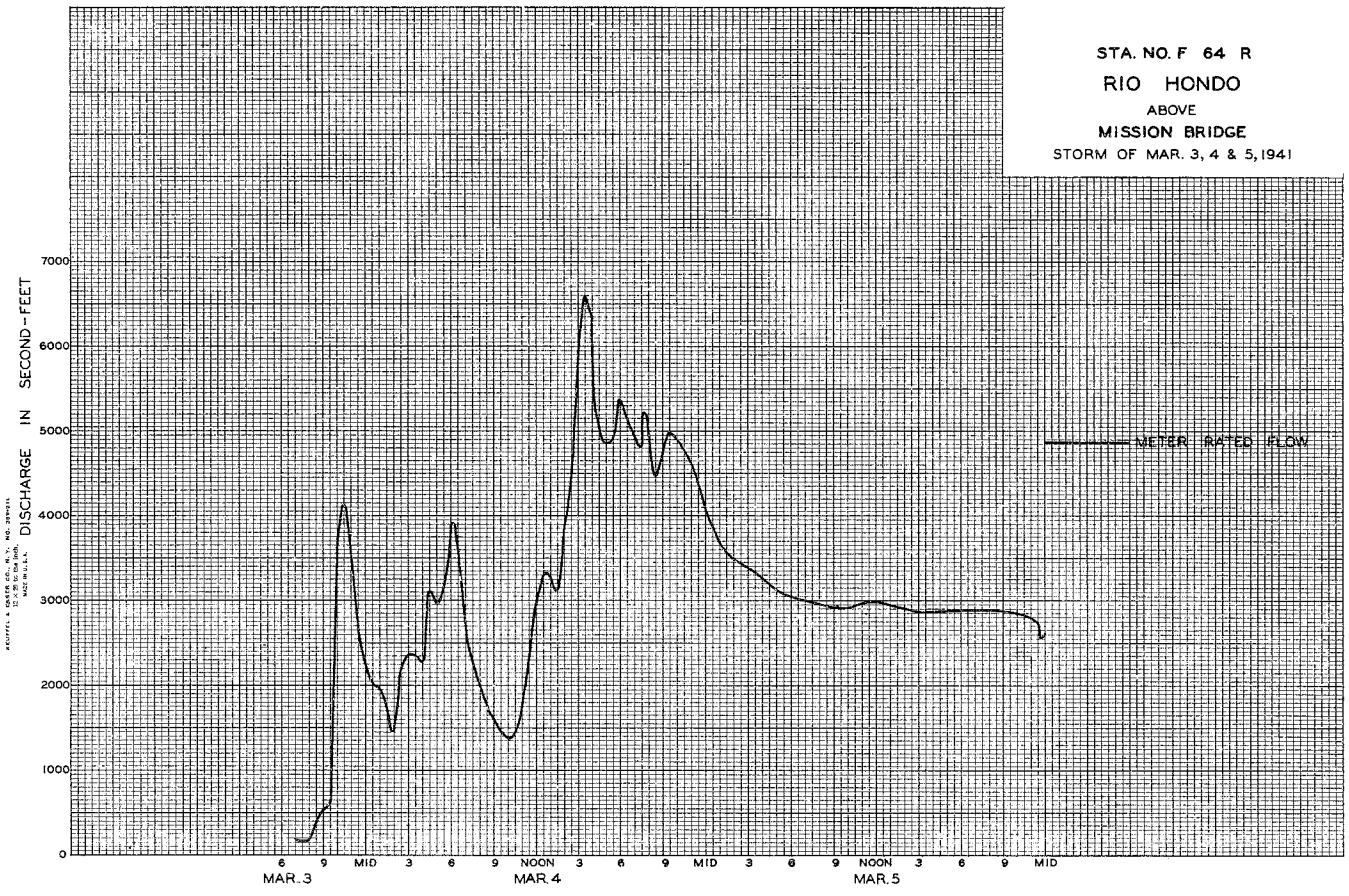
Sta. No F64R

Daily discharge, in second-feet of RIO HONDO above Mission Bridge, for the year ending September 30, 1941

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	22	18	29	30	497	535	344	79	88	75	92
2	17	23	20	28	28	654	370	354	75	90	75	92
3	17	23	20	28	30	558 E	277	359	72	90	66	101
4	18	24	20	27	30	3490	434	370	75	88	58	99
5	20	24	20	27	28	3030	243	192	74	99	64	75
6	19	24	20	28	250	2460	161	161	66	101	70	24
7	18	25	21	30	31	2380	255	155	66	75	66	22
8	18	25	21	29	28	1860	290	152	70	101	61	22
9	19	25	20	28	25	1060	345	152	63	101	54	22
10	18	24	20	41	24	907	591	158	75	94	52	22
11	18	24	20	30	174	828	744	152	79	99	50	21
12	20	25	30	27	38	1300	422	142	85	111	E 32	22
13	20	26	22	29	E 34	1160	398	145	97	106	E 27	22
14	18	25	21	54	E 424	1850	386	142	101	99	E 23	22
15	18	25	20	28	302	1460	404	192	92	101	27	23
16	19	25	282	27	287	925	103	238	83	99	33	23
17	18	60	337	26	234	632	81	226	75	106	56	24
18	18	259	147	25	90	268	196	234	94	106	66	25
19	19	21	38	23	692	252	218	108	99	99	64	27
20	18	20	32	24	1070	54	218	43	90	90	61	28
21	18	20	32	35	1430	196	215	35	90	E 90	70	E 28
22	17	20	31	54	957	304	226	32	94	90	97	27
23	17	20	617	31	667	277	226	31	85	90	101	26
24	16	18	352	340	218	290	E 238	31	88	92	104	26
25	197	21	E 33	43	191	260	222	28	94	90	114	E 25
26	113	20	29	45	304	238	203	29	90	88	104	26
27	37	20	29	28	349	215	203	28	94	85	114	27
28	22	20	27	29	1130	464	203	50	99	85	111	24
29	22	20	38	29		392	E 203	68	90	83	97	27
30	22	20	39	30		136 E	472	70	85	79	99	28
31	22		36	32		618 E		70		E 77	94	
	871	948	2412	1284	9095	29015	9082	4491	2519	2892	2185	1072
MEAN	28.1	31.6	77.8	41.4	325.	936.	303.	145.	84.0	93.3	70.5	35.7
ACRE-FEET	1730.	1880.	4780.	2550.	18040.	57550.	18010.	8910.	5000.	5740.	4330.	2130.

Remarks: E = estimated.

YEAR OR PERIOD — MEAN 180. — ACRE-FEET 130600.



STATION F45R

RIO HONDO at Stewart and Gray Road

LOCATION:

On downstream side of highway bridge, 1/2 mile upstream from junction of Rio Hondo and Los Angeles River and about 1-1/2 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:

Indeterminate due to a natural split near Arrow Highway which divides the San Gabriel River into 2 branches; the west branch known as the Rio Hondo flows into the Los Angeles River; the east branch retains the name San Gabriel River.

CHANNEL AND CONTROL:

Channel-sand 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 265 feet above station.

RECORDER:

Installed March 1, 1928, over a 21 inch diameter corrugated iron pipe stilling well. An Au continuous recorder was in service from October 1, 1940 to September 30, 1941.

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 and Eaton Dam.

DIVERSIONS:

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

RECORDS AVAILABLE:

March, 1928 to September 30, 1941. (For records prior to March, 1928, see State Division of Water Rights Bulletins.)

EXTREMES OF DISCHARGE:

1940-1941
Maximum 6420 second-feet, March 4
Minimum no flow at various times.
1929-1941
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 communication being obstructed by sand.

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. F45R

DISCHARGE MEASUREMENTS OF RIO HONDO

AT Stewart and Gray Road DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
319	10-3	816A / 824A	Bonadiman	14.0	4.42	0.64	5.32	2.8		.6	4	0	FC 40
320	10-10	802A / 815A	"	6.0	1.44	0.60	5.20	0.85		.6	4	0	"
321	10-17	842A / 848A	"	6.0	1.50	0.73	5.20	1.10		.6	4	0	"
322	10-24	803A / 808A	"	4.0	0.78	0.56	5.14	0.44		.6	3	0	"
323	10-26	951A / 1001A	"	10.0	4.01	0.70	5.30	2.8		.6	4	0	"
324	11-14	813A / 820A	"	10.0	4.00	0.70	5.28	2.8		.6	4	0	"
325	11-18	932A / 940A	"	2.3	0.58	0.53	5.05	0.31		.6	4	0	"
326	11-20	757A / 803A	"	14.0	4.68	0.91	5.33	4.2		.6	4	0	"
327	11-28	856A / 905A	"	14.0	4.66	0.71	5.32	3.3		.6	4	0	"
328	12-5	839A / 847A	"	36.0	11.0	0.68	5.51	7.5		.6	6	0	"
329	12-12	805A / 809A	"	4.0	0.87	0.46	5.09	0.40		.6	3	0	"
330	12-17	412A / 432A	Bonadiman & Walton	140.0	200.	3.07	7.14	616.		.6	11	-.02 / +.01	FC 40
331	12-17	115P / 128P	" "	130.0	126.	3.18	6.84	399.		.6	10	-.11	"
332	12-18	1039A / 1044A	Bonadiman	6.0	1.14	1.18	5.32	1.4		.6	2	-.05	"
333	12-18	1132P / 1145P	Bonadiman & Walton	87.0	70.6	2.47	6.32	174.		.6	8	-.06	"
334	12-19	851A / 905A	Bonadiman	12.0	7.64	1.09	5.48	8.3		.6	5	0	"
335	12-23	1125A / 1155A	Jordan & Thomsen	160.0	457.	6.09	8.58	2790.		.6	11	+.10	FC 21
336	12-23	1209P / 1227P	" "	160.0	454.	6.39	8.55	2890.		.6	11	-.20	"
337	12-23	424P / 437P	" "	100.0	111.	3.15	6.67	348.		.6	10	-.08	"
338	12-24	816A / 842A	Bonadiman & Walton	152.0	267.	4.09	7.10	1090.		.6	9	+.19	FC 40
339	12-24	303P / 315P	" "	85.0	70.4	3.61	6.48	254.		.6	7	-.07	"
340	12-25	1002A / 1009A	" "	13.0	3.30	0.94	5.19	3.1		.6	4	0	"
341	12-26	336P	Bonadiman	4.0	0.76	0.80	5.05	0.60		.6	3	0	"
342	1-24	618A / 631A	Bonadiman & Walton	90.0	96.8	2.84	6.37	275.		.6	8	+.17	"
343	1-24	444P / 500P	Walton & Bonadiman	73.0	55.2	1.74	5.91	96.2		.6	7	-.04	FC 40
344	1-25	340P / 346P	Bonadiman	9.0	2.10	0.53	5.12	1.1		.6	3	0	"
345	2-6	1112A / 1126A	Bonadiman & Walton	100.0	92.6	3.75	6.42	347.		.6	9	-.10	"
346	2-6	520P / 530P	" "	28.0	20.0	1.44	5.56	28.9		.6	8	+.01	"
347	2-7	1016A / 1019A	Bonadiman	3.0	0.80	0.72	5.12	0.70		.6	2	0	"
348	2-11	414P / 430P	Bonadiman & Walton	90.0	84.0	2.18	6.35	184.		.6	9	+.02	"
349	2-12	1005A / 1010A	Bonadiman	9.0	2.20	0.93	5.21	2.0		.6	4	0	"
350	2-13	852A / 858A	"	2.5	0.45	0.62	5.10	0.28		.6	2	0	"
351	2-14	755P / 825P	Jordan & Thomsen	156.0	286.	5.10	7.49	1460.		.6	11	+.42	FC 21
352	2-14	855P / 928P	" "	157.0	321.	5.80	7.90	1860.		.6	11	+.11 / -.14	"
353	2-15	731A / 749A	Bonadiman & Walton	46.0	25.8	1.82	5.67	42.9		.6	9	-.01	FC 40
354	2-15	552P / 610P	Jordan & Thomsen	153.0	217.	4.46	7.12	969.		.6	11	-.15	FC 21
355	2-16	128P / 134P	Bonadiman & Walton	23.0	9.61	1.07	5.32	10.3		.6	6	0	FC 40
356	2-16 / 2-17	1152P / 1208A	Jordan & Thomsen	158.0	275.	5.50	7.68	1510.		.6	9	-.17	FC 21
357	2-17	811A / 830A	Walton & Bonadiman	90.0	90.0	3.38	6.45	304.		.6	9	+.02	FC 40
358	2-18	531P / 545P	Bonadiman & Walton	21.0	10.1	1.34	5.29	13.5		.6	6	0	"
359	2-19	911P / 929P	" "	160.0	474.	6.41	8.54	3040.		.6	9	-.12	"
360	2-20	1204A / 1222A	Jordan & Thomsen	160.0	328.	5.60	7.89	1840.		.6	9	-.42	FC 21
361	2-20	857A / 914A	Bonadiman & Walton	155.0	229.	4.57	6.87	1050.		.6	9	+.09	FC 40
362	2-21	907A / 925A	" "	135.0	203.	4.30	6.85	870.		.6	10	+.06	"
363	2-21	806P / 825P	" "	155.0	328.	6.56	7.75	2150.		.6	9	+.20	"
364	2-21 / 2-22	1150P / 1219A	Jordan & Thomsen	165.0	493.	6.70	8.83	3300.		.6	9	-.40	FC 21
365	2-22	240P / 256P	Walton & Bonadiman	105.0	142.	4.46	6.69	635.		.6	10	-.02	FC 40
366	2-23	422P / 435P	Bonadiman & Walton	117.0	135.	3.81	6.63	516.		.6	10	-.01	"
367	2-24	952A / 1010A	Bonadiman & Walton	80.0	46.7	2.42	6.14	113.		.6	8	0	FC 40
368	2-24	601P / 614P	" "	80.0	49.5	2.66	6.16	133.		.6	7	0	"
369	2-25	230P / 240P	Bonadiman	20.0	13.3	0.95	5.75	12.7		.6	5	0	"
370	2-27	902A / 915A	"	80.0	54.0	1.86	6.07	101.		.6	10	0	"
371	2-28	538P / 610P	Jordan & Randolph	165.0	462.	6.93	8.72	3210.		.6	9	+.40	FC 21
372	2-28	815P / 835P	" "	166.0	554.	7.32	8.95	4050.		.6	9	-.10	"
373	3-1	320P / 335P	Bonadiman & Walton	105.0	123.	4.72	6.62	582.		.6	10	-.05	FC 40
374	3-2	1032A / 1044A	" "	115.0	137.	4.78	6.68	657.		.6	12	+.04	"
375	3-3	1021A / 1035A	" "	85.0	62.0	3.44	6.35	213.		.6	6	0	"
376	3-4	1223A / 1245A	" "	158.0	469.	7.90	8.92	3710.		.6	10	-.40	"
377	3-4	1105A / 1130A	" "	160.0	327.	5.91	7.58	1930.		.6	10	+.01	"
378	3-4	432P / 500P	" "	175.0	728.	8.50	9.72	6190.		.6	10	+.20 / -.10	"
379	3-5	931A / 947A	" "	160.0	355.	6.94	8.07	2470.		.6	11	+.01	"
380	3-6	326P / 340P	" "	150.0	369.	6.81	7.94	2510.		.6	10	+.01	"
381	3-10	916A / 935A	Bonadiman	133.0	186.	4.61	7.43	856.		.6	9	0	"
382	3-11	1140A / 1205P	Brewster	130.0	123.	3.59	6.98	442.		.6	13	-.01	FC 24
383	3-12	500P / 552P	Walton & Hall	165.0	367.	7.17	8.35	2630.		.6	17	+.90	FC 40
384	3-12	745P / 817P	Jordan & Thomsen	166.0	483.	7.84	8.80	3790.		.6	9	-.38	FC 21
385	3-14	505P / 527P	Walton & Bonadiman	135.0	360.	7.02	8.27	2530.		.6	9	+.05 / -.05	FC 40
386	3-15	808A / 827A	" "	155.0	261.	5.65	7.72	1480.		.6	10	-.04 / +.01	"
387	3-17	801A / 819A	Bonadiman	135.0	170.	5.28	7.33	894.		.6	9	+.02	"
388	3-18	801A / 820A	"	120.0	75.5	3.12	6.85	236.		.6	8	---	"
389	3-19	1206P / 1230P	"	120.0	71.2	2.67	6.86	191.		.6	7	0	"
390	3-24	1005A / 1030A	"	Two Channels			6.81	145.		.6	15	0	"

F. C. D. FORM 102a 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 41

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
391	3-27	826A 846A	Bonadiman	Two Channels			6.80	131.		.6	13	0	FC 40
392	3-28	901A 918A	"	"	"		6.61	72.6		.6	15	-.01	"
393	3-28	957P 1015P	Bonadiman & Walton	155.0	251.	6.59	8.00	1650.		.6	10	0	"
394	3-29	651A 705A	" "	140.0	211.	5.73	7.38	1210.		.6	9	-.12	"
395	3-30	841A 854A	" "	115.0	97.2	3.01	6.77	292.		.6	10	0	"
396	3-31	911A 932A	Bonadiman	115.0	91.8	2.79	6.84	257.		.6	8	-.01	"
397	3-31	111P 125P	Bonadiman & Walton	155.0	268.	6.44	7.95	1730.		.6	11	+.01	"
398	4-1	202P 220P	" "	130.0	108.	3.37	6.78	363.		.6	9	-.03	"
399	4-2	912A 922A	" "	135.0	106.	3.58	6.86	379.		.6	8	-.02	"
400	4-3	931A 950A	Bonadiman	135.0	93.5	2.69	6.80	252.		.6	8	0	"
401	4-5	151A 210A	Bonadiman & Walton	135.0	138.	4.62	7.13	639.		.6	8	-.14	"
402	4-5	938A 953A	" "	120.0	83.8	3.28	6.71	274.		.6	8	-.06	"
403	4-6	954A 1014A	Bonadiman	36.0	29.9	1.85	6.39	55.3		.6	8	+.01 -.01	"
404	4-7	916A 930A	"	40.0	34.7	1.75	6.42	60.6		.6	8	+.03	"
405	4-8	826A 843A	"	115.0	99.0	2.36	6.80	234.		.6	11	+.01	"
406	4-9	841A 900A	"	110.0	62.0	2.78	6.80	173.		.6	8	-.01	"
407	4-10	851A 906A	"	135.0	103.	3.74	6.92	386.		.6	9	-.05 +.02	"
408	4-11	231A 254A	Bonadiman & Walton	155.0	294.	7.12	8.09	1980.		.6	11	+.08 -.10	"
409	4-11	1011A 1025A	" "	155.0	136.	4.17	7.10	567.		.6	11	0	"
410	4-12	142P 159P	" "	150.0	120.	3.51	6.88	423.		.6	11	+.02 -.04	"
411	4-13	940A 1000A	Bonadiman	150.0	113.	4.11	7.05	465.		.6	10	+.01 -.01	"
412	4-14	915A 933A	"	140.0	109.	3.99	7.06	435.		.6	10	-.01 +.01	"
413	4-15	921A 935A	"	150.0	125.	3.17	7.02	397.		.6	12	+.04 -.03	"
414	4-16	1023A 1040A	"	40.0	31.0	2.11	6.65	65.5		.6	7	0	"
415	4-17	907A 920A	Bonadiman	35.0	14.2	1.17	6.33	16.6		.6	7	0	FC 40
416	4-21	1102A 1125A	Bonadiman	112.0	56.8	2.24	6.82	128.		.6	13	0	FC 40
417	4-24	928A 952A	"	130.0	96.6	1.72	6.82	167.		.6	11	0	"
418	4-26	238P	Ingram & Jordan	79.0	55.1	1.65	6.72	90.8		.6	12	0	FC 18
419	4-30	901A 920A	Bonadiman	150.0	161.	4.03	7.38	649.		.6	11	+.05 -.08	FC 40
420	4-30	152P 212P	"	155.0	211.	5.07	7.63	1070.		.6	11	-.03 +.04	"
421	5-1	956A 1010A	"	115.0	88.5	2.94	6.78	260.		.6	10	0	"
422	5-3	927A 946A	"	130.0	100.	3.78	6.91	378.		.6	11	-.03	"
423	5-8	901A 924A	"	135.0	61.8	1.60	6.80	99.3		.6	14	0	"
424	5-15	957A 1016A	"	145.0	108.	1.50	6.81	162.		.6	16	+.01	"
425	5-20	112P 130P	"	22.0	9.4	1.06	6.16	10.1		.6	8	-.01	"
426	5-22	846A 858A	"	24.0	7.96	1.02	6.13	8.1		.6	7	0	"
427	5-29	822A 835A	"	22.0	7.35	0.86	6.18	6.3		.6	6	-.02	"
428	6-5	907A 912A	"	11.0	2.45	0.73	6.06	1.8		.6	3	0	"
429	6-12	235P 240P	"	4.0	0.80	0.45	5.88	0.36		.6	2	0	"
430	6-19	842A 855A	"	20.0	7.20	0.49	6.14	3.5		.6	5	-.02	"
431	6-26	909A 915A	"	14.0	5.20	0.87	6.15	4.5		.6	4	0	"
432	7-3	932A 942A	"	26.0	10.6	0.88	6.30	9.3		.6	8	-.02	"
433	7-10	831A 843A	"	31.0	12.5	1.20	6.30	14.8		.6	7	-.02	"
434	7-17	822A 834A	"	20.0	11.3	1.06	6.25	12.2		.6	6	0	"
435	7-24	906A 915A	"	10.0	5.05	0.34	6.09	1.7		.6	4	0	"
436	7-31	924A 932A	"	20.0	6.95	0.86	6.18	6.0		.6	6	0	"
437	8-7	831A 842A	"	12.0	5.02	0.99	6.15	5.0		.6	4	0	"
438	8-14	840A 850A	"	13.0	5.43	1.13	6.13	4.8		.6	4	0	"
439	8-21	857A 908A	Bonadiman	37.0	11.7	0.88	6.22	10.3		.6	8	0	FC 40
440	8-27	806A 820A	"	24.0	10.6	0.90	6.24	9.5		.6	5	-.02	"
441	9-4	907A 925A	"	Two Channels			6.18	8.6		.6	8	0	"
442	9-10	948A 955A	Moon	12.0	4.76	0.67	6.18	3.2		.6	6	0	FC 22
443	9-17	930A 943A	"	Two Channels			6.31	8.8		.6	10	0	"
444	9-24	941A 950A	"	12.0	5.05	0.61	6.10	3.1		.6	5	0	FC 42

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

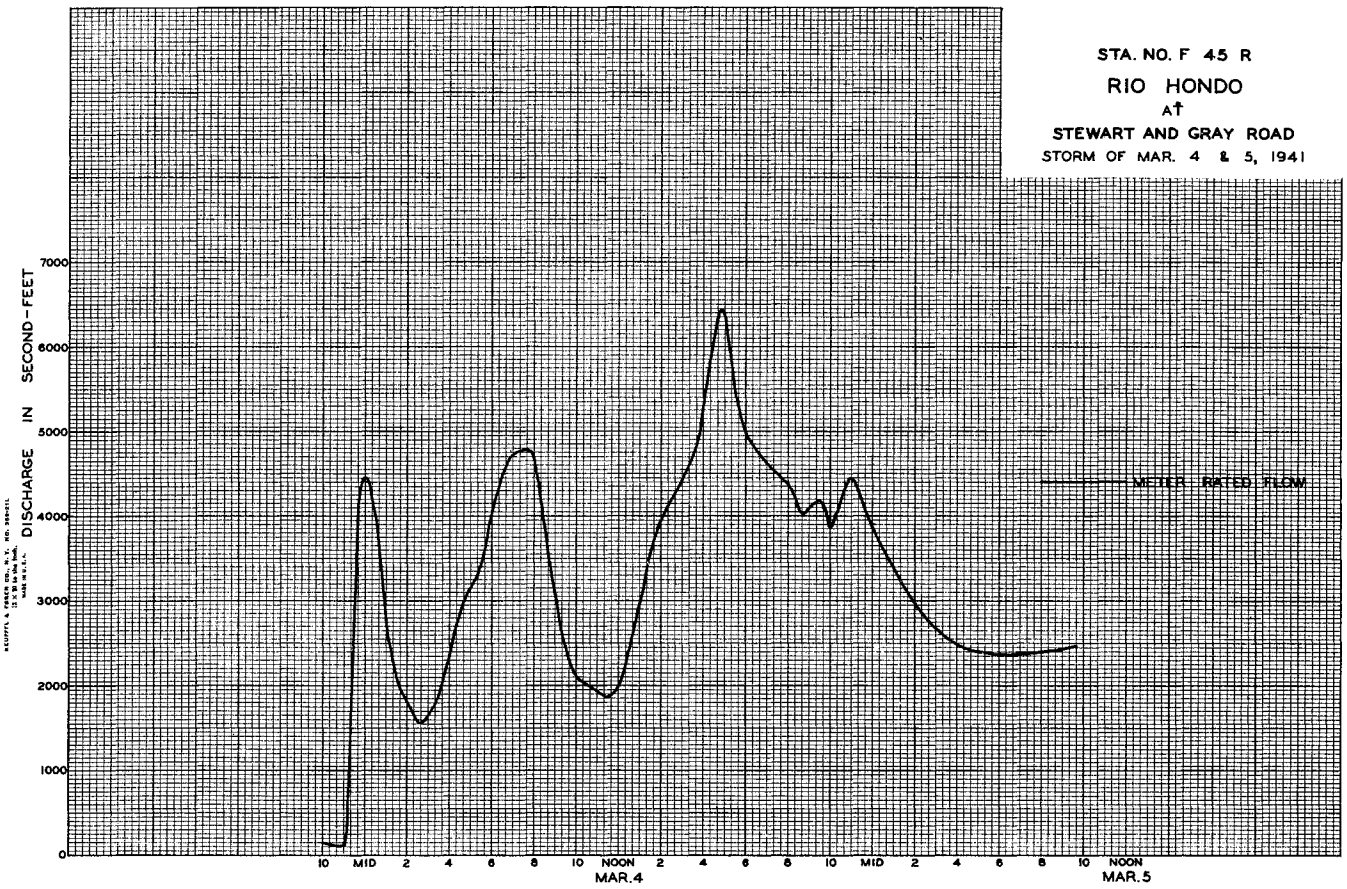
Sta. No F45R

Daily discharge, in second-feet of RIO HONDO at Stewart and Gray Road for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6	0	2.8	0	0	513	658	289	3.6	12	6	14
2	3.2	0	1.5	0	0	706	442	313	4.6	8	8	12
3	3.7	0	3.4	0	0	292	297	410	6	7	7	8
4	4.3	0.2	7	0	0	3690	506	392	5	18	5	11
5	3.0	0	5	0	0	2670	343	170	2.8	12	7	14
6	6.5	0	3.7	0	63	2540	55E	153	4.6	14	5	6
7	4.7	+	6.5	0	0.7	2340	159	119	4.6	8	4.1	6.5
8	3.2	0.1	7	0	0.2	1670	245	106	7	5	4.1	2.8
9	3.2	0.3	7.5	0	0.1	914	231	110	4.1	12	5	2.2
10	1.6	1.4	9	0	+	582	451	124	6	15	9	2.2
11	3.0	3.2	5	0	28	373	696	115	7	20	8	4.1
12	3.4	2.1	1.4	0	2.5	1230	736	128	8	20	6	3.3
13	3.7	1.6	3.2	0	0.3	784	524	137	3.6	23	5.5	4.6
14	3.7	4.9	6	+	254	1660	410	147	5	23	3.0	6.5
15	5.5	4.7	2.5	0	280	1260	419	164	6	13	4.1	8
16	5.5	3.7	4.3	0	134	836	75	231	3.6	13	5	8
17	6	7	198	0	248	630	6.5	273	5.5	14	8	7
18	6.5	0.4	11	0	17	245	10	281	3.6	8	5.5	6
19	6.5	0.8	7	0	455	224	153	164	4.1	7	4.6	7
20	6.5	4.7	+	0	714	E 30	142	9	4.6	5.5	7	7
21	8	6	+	0	1470	0	137	0.8	5	5	10	6
22	6	5.5	0	0.3	795	147	133	5	5	4.6	12	5
23	4.7	5	466	+	550	124	142	4.1	3.6	5	7	4.1
24	8	5.5	357	242	177	153	159	6	3.3	4.1	9	5
25	9	5	3.4	2.1	45	181	124	4.1	2.5	8	15	3.6
26	3.2	3.4	0.9	0.8	95	E 150	93	4.1	5.5	12	14	4.1
27	+	2.8	0.4	0.3	113	124	86	2.8	4.1	15	12	2.0
28	+	3.4	0.3	+	934	311	90	3.0	10	15	6.5	2.8
29	0.1	3.9	0.4	0		E 821	86	5	11	13	15	4.6
30	0	3.0	0.1	0		E 292	376	3.3	10	8	16	4.1
31	0		0.1	0		767		6		8	17	
	128.7	78.6	1120.4	245.5	6375.8	26259	7984.5	3879.2	159.3	355.2	250.4	181.5
MEAN	4.15	2.62	36.1	7.92	228.	847.	266.	125.	5.31	11.5	8.08	6.05
ACRE-FEET	355.	156.	2220.	487.	12650.	52080.	15840.	7690.	316.	705.	497.	360.

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

YEAR OR PERIOD MEAN 129.
ACRE FEET 93260.



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:

Negligible.
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, 1940 to September 30, 1941.

REGULATION:

Some water pumped just downstream from bridge.

DIVERSIONS:

None.

RECORDS AVAILABLE:

Recorder records June 14, 1930 to September 30, 1941. Some weekly stream measurements were taken prior to installation of recorder.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 104 second-feet, March 4.
Minimum 15 second feet, October 5.
1930-1941
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. Flows occasionally interpolated or estimated due to changes to control conditions or 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. F83-R

DISCHARGE MEASUREMENTS OF RIO HONDO SLOUGH

AT San Gabriel Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
216	10-3	1000A / 1015A	Brewster	15.0	12.2	1.54	6.50	18.9		.6	8	0	FC 24
217	10-10	955A / 1010A	"	14.0	12.0	1.55	6.50	18.5		.6	7	0	"
218	10-17	920A / 935A	"	14.0	12.0	1.60	6.46	19.2		.6	7	0	"
219	10-24	905A / 920A	"	14.0	12.0	1.56	6.47	18.6		.6	7	0	"
220	10-31	850A / 905A	"	14.0	12.9	1.55	6.48	20.0		.6	7	0	"
221	11-7	900A / 912A	"	14.0	13.0	1.54	6.46	20.0		.6	7	0	"
222	11-14	1000A / 1015A	"	14.0	12.7	1.59	6.46	20.3		.6	7	0	"
223	11-20	900A / 915A	"	14.0	13.1	1.61	6.55	21.1		.6	7	0	"
224	11-28	852A / 905A	"	14.0	12.8	1.50	6.53	19.2		.6	7	0	"
225	12-5	852A / 904A	"	14.0	12.4	1.52	6.48	18.8		.6	7	0	"
226	12-12	950A / 1005A	"	14.0	12.9	1.57	6.54	20.2		.6	7	0	"
227	12-19	1000A / 1015A	"	15.0	14.8	1.40	6.62	20.8		.6	7	-.01	"
228	12-26	955A / 1010A	"	16.0	16.3	1.54	6.52	25.1		.6	8	0	"
229	1-2	945A / 1000A	"	15.0	13.4	1.54	6.39	20.7		.6	7	0	"
230	1-9	955A / 1010A	"	15.0	13.3	1.60	6.35	21.3		.6	8	0	"
231	1-16	1015A / 1030A	"	15.0	12.8	1.65	6.36	21.1		.6	8	0	"
232	1-23	935A / 950A	"	15.0	13.3	1.67	6.35	22.2		.6	8	0	"
233	1-30	1000A / 1015A	"	15.0	13.6	1.74	6.38	23.6		.6	8	0	"
234	2-6	330P / 342P	Brewster-Smith	15.0	14.4	1.66	6.36	24.0		.6	7	0	"
235	2-13	1005A / 1018A	Brewster	16.0	14.5	1.72	6.32	25.4		.6	8	0	"
236	2-25	105P / 113P	Haig	15.5	17.4	1.78	6.46	30.6		.6	6	0	FC 33
237	2-27	1112A / 1123A	"	15.0	17.1	1.70	6.36	28.5		.6	6	0	"
238	3-8	955A / 1010A	Brewster	16.0	18.9	1.69	6.45	32.5		.6	9	0	FC 24
239	3-20	425P / 440P	"	17.0	15.4	1.75	6.32	27.1		.6	8	0	"
240	3-21	307P / 323P	Ingram	13.5	13.6	1.91	6.31	25.8		.6	7	0	FC 18
241	3-24	418P / 425P	"	14.0	12.3	2.03	6.28	25.2		.6	7	0	"
242	3-27	1000A / 1015A	Brewster	17.0	16.3	1.66	6.28	27.1		.6	9	0	FC 24
243	3-28	344P / 353P	Ingram	13.5	12.5	2.08	6.26	25.8		.6	7	0	FC 18
244	4-2	233P / 240P	"	14.5	18.2	1.98	6.62	35.7		.6	7	0	"
245	4-3	1000A / 1015A	Brewster	17.0	18.8	1.86	6.45	34.6		.6	9	0	FC 24
246	4-6	254P / 300P	Ingram	14.0	14.6	1.99	6.38	29.2		.6	7	0	FC 18
247	4-9	230P / 238P	"	14.0	14.5	1.93	6.35	28.4		.6	7	0	"
248	4-10	1125A / 1140A	Brewster	17.0	18.0	1.83	6.42	32.7		.6	9	0	FC 24
249	4-17	1030A / 1045A	"	17.0	16.8	1.79	6.36	30.4		.6	8	0	"
250	4-24	940A / 955A	"	17.0	15.6	1.86	6.35	28.9		.6	8	0	"
251	5-1	930A / 945A	"	17.0	17.6	1.65	6.38	29.4		.6	8	0	"
252	5-8	900A / 915A	"	16.0	15.5	1.61	6.30	25.4		.6	8	0	"
253	5-15	1000A / 1015A	"	17.0	15.7	1.66	6.27	26.3		.6	8	0	"
254	5-22	935A / 950A	"	16.0	14.6	1.78	6.27	25.7		.6	8	0	"
255	5-27	925A / 940A	"	17.0	16.0	1.50	6.32	24.4		.6	8	0	"
256	6-5	925A / 940A	"	17.0	16.4	1.46	6.31	23.7		.6	8	0	"
257	6-12	915A / 930A	"	17.0	16.3	1.53	6.30	25.0		.6	9	0	"
258	6-19	935A / 950A	"	17.0	15.9	1.45	6.31	23.4		.6	9	0	"
259	6-26	930A / 945A	"	17.0	16.4	1.48	6.37	24.3		.6	9	0	"
260	7-3	930A / 945A	"	17.0	15.7	1.53	6.39	24.1		.6	9	0	"
261	7-10	928A / 942A	"	17.0	16.1	1.47	6.35	23.6		.6	9	0	"
262	7-17	915A / 930A	"	17.0	15.8	1.37	6.41	21.7		.6	9	0	"
263	7-24	935A / 950A	"	17.0	17.1	1.36	6.44	23.3		.6	9	0	"
264	7-31	925A / 940A	Brewster	17.0	17.0	1.45	6.29	24.6		.6	9	0	FC 24
265	8-7	930A / 945A	"	16.0	15.4	1.53	6.28	23.6		.6	9	0	"
266	8-14	830A / 843A	Lindsay	20.0	20.1	1.04	6.25	20.8		.6	10	0	FC 28
267	8-21	830A / 842A	"	21.0	21.1	1.04	6.24	22.0		.6	8	0	"
268	8-28	945A / 1000A	Brewster	17.0	17.4	1.32	6.26	23.0		.6	9	0	FC 24
269	9-4	945A / 1000A	"	16.0	15.9	1.46	6.27	23.2		.6	9	0	"
270	9-11	938A / 952A	"	17.0	17.1	1.34	6.24	23.0		.6	9	0	"
271	9-18	945A / 1000A	"	17.0	17.4	1.36	6.24	23.6		.6	9	0	"
272	9-25	950A / 1005A	"	15.0	16.0	1.52	6.24	24.4		.6	8	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No F83R

Daily discharge, in second-feet of RIO HONDO SLOUGH at San Gabriel Boulevard, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19	20	20	22	23	60	44	29	23	24	24	22
2	19	20	20	21	23	46	37	29	22	24	24	22
3	18	20	19	21	22	35	33	28	22	24	24	23
4	18	20	20	21	18	86	33	28	23	24	24	23
5	17	20	19	21	18	52	34	27	23	24	24	22
6	19	20	20	22	24	E 37	30	27	23	24	24	22
7	18	20	20	21	21	34	29	25	24	24	24	22
8	19	20	20	21	21	33	28	25	24	24	24	22
9	19	20	20	22	20	31	30	24	24	24	24	22
10	19	20	21	22	20	30	33	25	25	24	23	22
11	19	20	22	22	27	29	37	25	25	24	22	22
12	19	20	20	22	27	59	36	26	25	23	21	22
13	20	20	20	22	25	50	33	26	25	23	20	22
14	19	20	20	22	30	E 44	33	26	25	22	20	23
15	19	20	20	22	37	38	32	27	25	22	20	23
16	19	20	22	21	34	33	31	27	25	22	20	24
17	18	21	26	21	40	31	30	27	24	22	21	24
18	17	22	21	21	31	30	30	27	23	22	21	24
19	18	21	22	22	33	29	30	26	23	22	21	24
20	18	21	19	21	47	28	29	26	23	22	21	24
21	18	22	18	21	E 60	26	29	25	22	22	21	24
22	18	21	18	25	50	26	28	26	23	23	21	24
23	18	21	41	23	40	26	28	26	23	23	22	24
24	18	20	38	41	35	26	29	26	24	23	22	24
25	21	20	28	29	E 32	26	27	26	24	23	22	24
26	23	20	25	27	30	27	27	25	24	23	22	24
27	21	20	23	25	28	27	27	24	24	23	22	24
28	21	19	22	24	43	28	26	24	24	24	22	25
29	21	19	22	24		42	27	24	24	24	22	25
30	20	19	22	24		31	30	24	24	24	22	25
31	20		22	24		36		24		24	22	
	590	606	690	717	859	1136	930	804	712	720	686	697
MEAN	19.0	20.2	22.3	23.1	30.7	36.6	31.0	25.9	23.7	23.2	22.1	23.2
ACRE-FEET	1170.	1200.	1370.	1420.	1700.	2250.	1840.	1590.	1410.	1430.	1360.	1380.

Remarks: E = estimated.

YEAR OR PERIOD MEAN 25.1 ACRE-FEET 18120.

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 foot invert with 0.5 foot 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, 1940 to September 30, 1941.

REGULATION:

Flow partially regulated by Los Flores and Rubio Debris Basins.

DIVERSIONS:

None.

RECORDS AVAILABLE:
November 6, 1936 to September 30, 1941.
For previous records on Rubio Wash see Stations F82R, F107R, F82B-R in previous reports.)

EXTREMES OF DISCHARGE:

1940-1941
Maximum 1940 second-feet, March 3.
Minimum no flow at various times.
1930-1941 (Stations F82R, F107R, F82B-R and F82C-R)
Maximum 2400 second-feet, estimated, March 2, 1938.
Minimum no flow at times each year.

ACCURACY:

Good.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F82C-R

DISCHARGE MEASUREMENTS OF RUBIO WASH

At NEAR Glendon Way DURING THE YEAR ENDING SEPTEMBER 30, 19

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	E. HT. CHANGE TOTAL	METER NO.
		932A								Vert			Pitot
62	12-23	949A	Haig-Hall	48.0	43.8	13.8	1.26	605.		Vel	8	-.39	Tube

F.C. Dist. Form 52 2-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

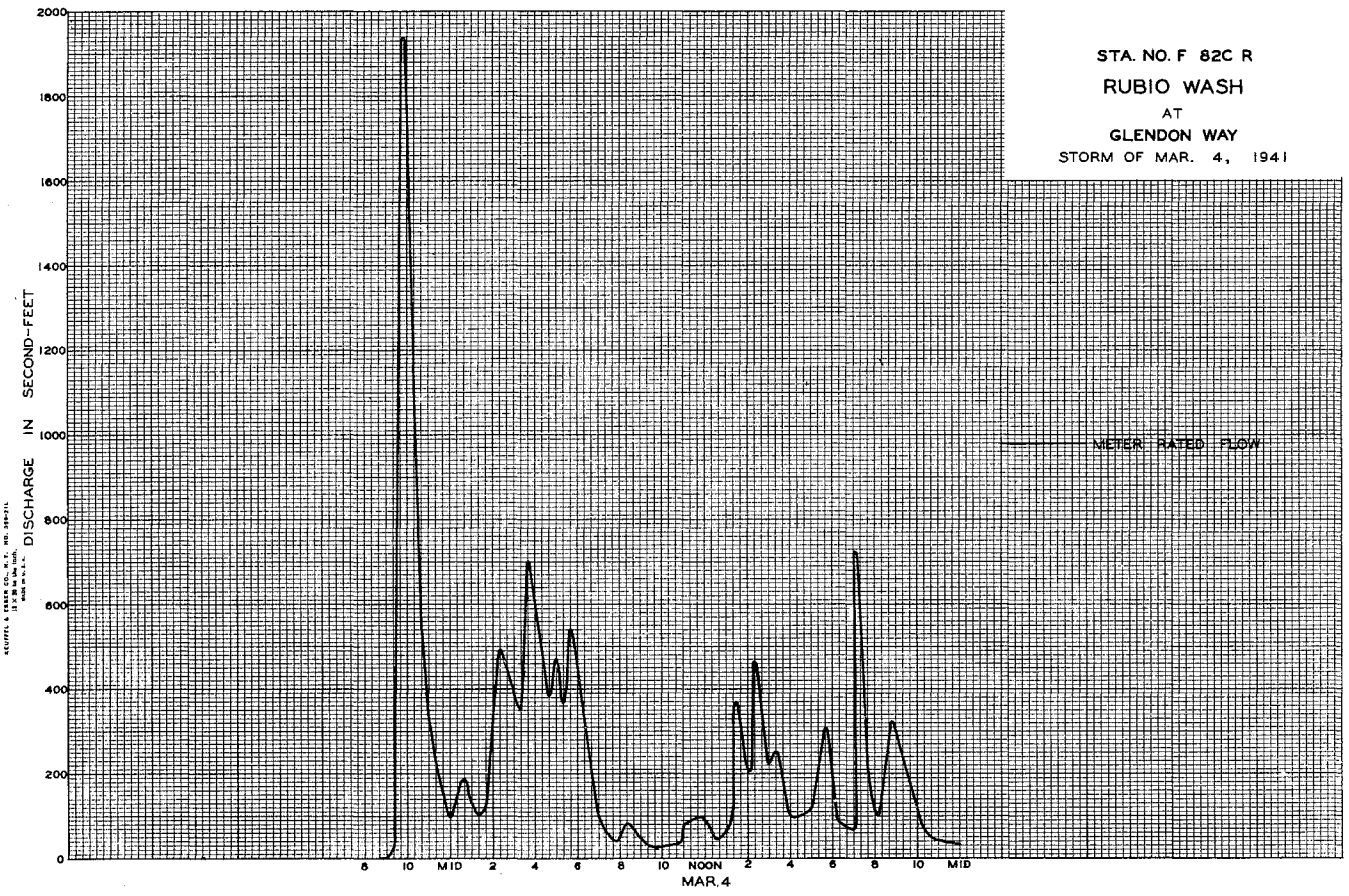
Sta. No. F82C-R

Daily discharge, in second-feet of RUBIO WASH at Glendon Way for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	0.1	+	0	42	24	3.8	0.2	+	0	0
2	0	0.2	0.1	+	0	54	13	1.4	0.2	0	0	0
3	0	0.2	0.6	+	0	92	1.7	1.7	0.4	0.2	0	0
4	0	0.4	0.3	+	0	200	58	1.4	0.1	+	0	0
5	0	0.2	0.3	0.2	0.1	21	16	1.7	E 0.1	+	0	0
6	0	0.1	0.2	0.1	57	16	9	1.4	0.1	0	0	0
7	0	0.1	0.1	1.3	1.0	11	5.5	0.1	0.1	0	0	+
8	0.1	0.2	0.1	+	1.4	5.5	2.0	1.0	0.1	0	0	+
9	1.4	0.3	0.1	0	0.2	3.8	18	0.7	0.1	+	0	0
10	0.6	0.1	0.2	9	0.1	2.0	31	0.7	0.1	0	+	0
11	0.3	+	3.2	0.1	46	6.5	40	0.2	0.1	0	0	0
12	0.1	0.1	4.0	0.1	0.3	113	14	0.7	0.1	0	0	0
13	0.1	+	0.1	0.5	0.1	26	5.5	0.1	0.1	+	0	0
14	0.1	0	0	12	89	20	3.8	1.4	E 0.1	0	0	0
15	0.1	+	0	0.1	42	3.8	2.0	0.1	0.1	0	0	0
16	0.2	0.1	99	0.1	61	3.8	3.8	+	0.1	0	0.1	+
17	0.1	12	75	0.1	32	2.0	2.0	0.7	0.2	0	0	0
18	0.1	18	33	+	0.2	2.0	2.0	0.1	1.0	0	0	0
19	0.1	+	1.4	+	193	2.0	2.0	0.1	1.0	0	+	0
20	0.1	0	0.2	0.3	176	1.7	1.7	+	0.7	0	0	0
21	0.1	0	0.1	5.5	168	1.7	1.0	+	0.1	0	0	0
22	0.1	0	0.1	8	42	1.7	0.3	+	+	0	0	0
23	0.1	0	126	1.7	5.5	1.4	1.0	0.2	+	0	0.1	0
24	0.1	0.1	58	64	11	1.0	0.7	0.1	0	0	+	0
25	69	0.1	0.1	0.1	1.0	1.0	1.4	0.1	0	0	0	0
26	19	0	+	8	0.3	0.7	1.4	0.1	0.4	0	0	0
27	2.0	0	0.1	0.1	0.2	0.4	0.2	0.1	0.2	0	0	0
28	0.1	0.1	0.1	0.1	151	71	1.0	0.2	0.2	0	+	0
29	+	0.2	9.5	+		56	1.0	0.2	0.2	0	+	0.1
30	0	0.2	6.5	0		1.4	81	0.2	0.1	0	0	+
31	0		0.2	0		102		0.2		0	0	
	939		418.7		1078.4		344.0		6.2		0.2	
		32.7		111.4		866.4		18.7		0.2		0.1
MEAN	3.03	1.09	13.5	3.59	38.5	27.9	11.5	0.60	0.21	0.01	0.01	+
ACRE-FEET	186.	65.	830.	221.	2140.	1720.	682.	37.	12.	0.4	0.4	0.2

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

YEAR OR PERIOD MEAN 8.14
ACRE-FEET 5890.



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, 1940 to September 30, 1941.

REGULATION:

None.

DIVERSIONS:

Two diversions for irrigation.

RECORDS AVAILABLE:

February 20, 1931 to September 30, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 368 second-feet March 12
Minimum no flow for several months.

1930-1941
Maximum 23400 second-feet, estimated March 2, 1938.
Minimum no flow for several months 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. F151R

DISCHARGE MEASUREMENTS OF SAN ANTONIO CREEK

AT Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
268	12-17	844A 850A	Brewster & Smith	8.0	2.28	1.53	9.38	3.5		.6	4	+.01	FC 24
269	12-23	1120A 1130A	" "	14.0	7.60	2.79	9.90	21.2		.6	5	+.03	"
270	12-24	1110A 1120A	" "	20.0	11.4	3.92	10.21	44.7		.6	5	-.02	"
271	12-25	447P 455P	Brewster	8.0	2.54	1.15	9.35	2.9		.6	5	0	"
272	12-29	1148A 1155A	"	5.0	1.10	0.96	9.20	1.1		.6	5	0	"
273	12-31	402P 405P	"	0.5	0.11	0.18	8.96	0.02		.6	1	-.01	"
274	1-10	1254P 100P	"	8.0	1.68	0.58	9.22	1.0		.6	4	+.01	"
275	1-24	1220P 1230P	Brewster & Smith	9.0	2.28	0.78	9.27	1.8		.6	5	0	"
276	2-6	1215P 1225P	" "	9.0	2.69	1.04	9.36	2.8		.6	5	-.01	"
277	2-11	430P 440P	" "	16.0	7.12	2.94	9.74	20.8		.6	8	-.01	"
278	2-12	100P 110P	Brewster	10.0	2.68	0.82	9.25	2.2		.6	5	0	"
279	2-14	1035P 1045P	Brewster & Smith	14.0	7.00	2.19	9.68	15.4		.6	4	0	"
280	2-15	910A 920A	" "	11.0	4.10	1.78	9.44	7.3		.6	5	0	"
281	2-15	725P 735P	" "	16.0	9.22	2.97	9.76	27.4		.6	5	-.03	"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F151R

DISCHARGE MEASUREMENTS OF SAN ANTONIO CREEK

AT Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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	2-16	900A / 910A	Brewster & Smith	14.0	7.08	2.22	9.64	15.7		.6	6	0	FC 24
283	2-17	150P / 200P	" "	18.0	8.34	2.23	9.74	18.6		.6	5	-.01	"
284	2-19	235P / 245P	Brewster	15.0	7.61	3.84	9.74	22.4		.6	7	0	"
285	2-19	1050P / 1110P	Brewster & Smith	24.0	26.6	5.45	10.80	145.		.6	6	+.20	"
286	2-20	1225A / 1250A	" "	36.0	39.6	4.57	11.08	181.		.6	8	-.25	"
287	2-20	740A / 800A	" "	22.0	20.7	4.53	10.48	93.8		.6	5	-.05	"
288	2-20	515P / 530P	" "	30.0	31.0	4.64	10.86	144.		.6	6	0	"
289	2-21	850A / 910A	" "	28.0	32.0	4.03	10.65	129.		.6	7	0	"
290	2-21	540P / 600P	" "	Two Channels			10.84	145.		.6	11	-.03	"
291	2-22	800A / 820A	" "	" "			10.72	146.		.6	12	0	"
292	2-23	200P / 220P	Brewster & Smith	Two Channels			10.26	101.		.6	13	+.03	FC 24
293	2-24	530P / 550P	Brewster	" "			10.12	98.6		.6	11	-.01	"
294	2-25	245P / 300P	"	22.0	19.7	4.42	10.05	87.0		.6	7	0	"
295	2-26	500P / 520P	"	20.0	17.8	4.71	10.01	83.9		.6	7	0	"
296	2-28	550P / 600P	Brewster & Smith	23.0	23.4	4.74	10.16	111.		.6	7	+.04	"
297	2-28	1000P / 1020P	" "	23.0	26.6	4.97	10.25	132.		.6	8	0	"
298	3-1	800A / 812A	" "	24.0	23.9	5.10	10.19	122.		.6	7	+.02	"
299	3-2	900A / 920A	" "	25.0	24.1	4.32	10.28	104.		.6	8	0	"
300	3-3	915A / 930A	Brewster	27.0	22.6	4.10	10.24	105.		.6	8	0	"
301	3-3	1140P / 1155P	Brewster & Smith	25.0	26.8	5.60	10.51	150.		.6	8	+.02	"
302	3-4	925A / 940A	" "	24.0	33.2	5.09	10.50	169.		.6	6	0	"
303	3-4	710P / 730P	" "	34.0	38.1	5.33	10.82	203.		.6	10	0	"
304	3-5	1105A / 1120A	" "	28.0	32.0	5.09	10.26	163.		.6	9	-.02	"
305	3-7	420P / 440P	Brewster	27.0	27.7	4.66	10.04	129.		.6	9	0	"
306	3-10	1135A / 1150A	"	31.0	29.9	3.98	9.88	119.		.6	9	0	"
307	3-12	1155A / 1215P	"	30.0	29.8	4.66	10.04	139.		.6	9	+.04	"
308	3-12	950P / 1020P	Brewster & Smith	Three Channels			10.60	295.		.6	21	-.09	"
309	3-13	940A / 1000A	" "	Two "			10.24	246.		.6	12	-.01	"
310	3-14	300P / 320P	Brewster & Smith	30.0	39.0	5.28	10.17	206.		.6	9	0	FC 24
311	3-17	500P / 530P	Brewster	28.0	35.5	4.62	10.10	164.		.6	8	0	"
312	3-19	620P / 640P	"	28.0	33.4	4.76	10.03	159.		.6	8	0	"
313	3-24	140P / 200P	"	28.0	29.5	3.76	9.74	111.		.6	8	-.01	"
314	3-26	530P / 545P	"	28.0	25.6	3.44	9.65	88.0		.6	8	0	"
315	3-29	1025A / 1040A	Brewster & Smith	27.0	29.6	4.29	9.82	127.		.6	8	-.01	"
316	3-31	1230P / 1245P	Brewster & Smith	27.0	30.0	4.70	9.92	141.		.6	8	+.04	FC 24
317	3-31	240P / 255P	" "	29.0	32.2	4.07	9.88	131.		.6	8	-.03	"
318	3-31	1100P / 1115P	" "	29.0	32.2	4.69	9.98	151.		.6	8	-.05	"
319	4-2	515P / 530P	Brewster	28.0	28.1	4.23	9.71	119.		.6	8	0	"
320	4-5	810A / 830A	"	27.0	30.8	5.00	10.00	154.		.6	8	0	"
321	4-9	430P / 450P	"	28.0	29.6	4.36	9.83	129.		.6	8	0	"
322	4-11	645A / 700A	"	28.0	34.1	4.40	10.00	150.		.6	8	-.01	"
323	4-16	510P / 530P	"	28.0	28.2	4.04	9.76	114.		.6	8	0	"
324	4-21	150P / 210P	"	28.0	25.1	3.98	9.67	100.		.6	8	0	"
325	4-23	510P / 530P	"	28.0	24.8	3.95	9.62	97.9		.6	8	0	"
326	4-28	240P / 300P	"	28.0	24.0	3.77	9.55	90.4		.6	8	0	"
327	4-30	955A / 1015A	"	28.0	28.9	4.22	9.82	122.		.6	8	0	"
328	5-7	240P / 300P	"	28.0	29.3	4.10	9.79	120.		.6	8	0	"
329	5-14	255P / 315P	"	28.0	29.0	4.76	9.83	138.		.6	8	0	"
330	5-21	420P / 440P	"	28.0	25.8	4.03	9.64	104.		.6	8	+.01	"
331	5-28	340P / 400P	"	30.0	24.6	3.62	9.53	88.9		.6	9	0	"
332	6-4	350P / 410P	"	24.0	20.0	3.50	9.44	70.0		.6	7	0	"
333	6-11	1035A / 1050A	"	21.0	16.2	3.62	9.34	58.6		.6	7	0	"
334	6-18	300P / 320P	"	22.0	14.7	3.15	9.18	46.3		.6	7	0	"
335	6-25	140P / 200P	"	17.0	13.1	2.84	9.08	37.2		.6	6	0	"
336	7-2	300P / 320P	"	18.0	10.7	1.92	8.87	20.5		.6	6	0	"
337	7-9	1133A / 1145A	"	15.0	8.05	1.89	8.68	15.2		.6	5	0	"
338	7-16	310P / 325P	"	11.0	7.85	1.27	8.55	10.0		.6	6	0	"
339	7-23	140P / 150P	"	10.0	7.14	1.26	8.47	9.0		.6	6	0	"
340	7-30	245P / 255P	Brewster	8.0	4.05	1.06	8.39	4.3		.6	5	0	FC 24
341	8-6	200P / 210P	"	8.0	1.96	0.77	8.10	1.5		.6	4	0	"
342	8-13	330P / 331P	Lindsay	0.8	0.10	0.13	7.96	0.13		.6	1	0	FC 28

F.C. Dist. Form 52 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

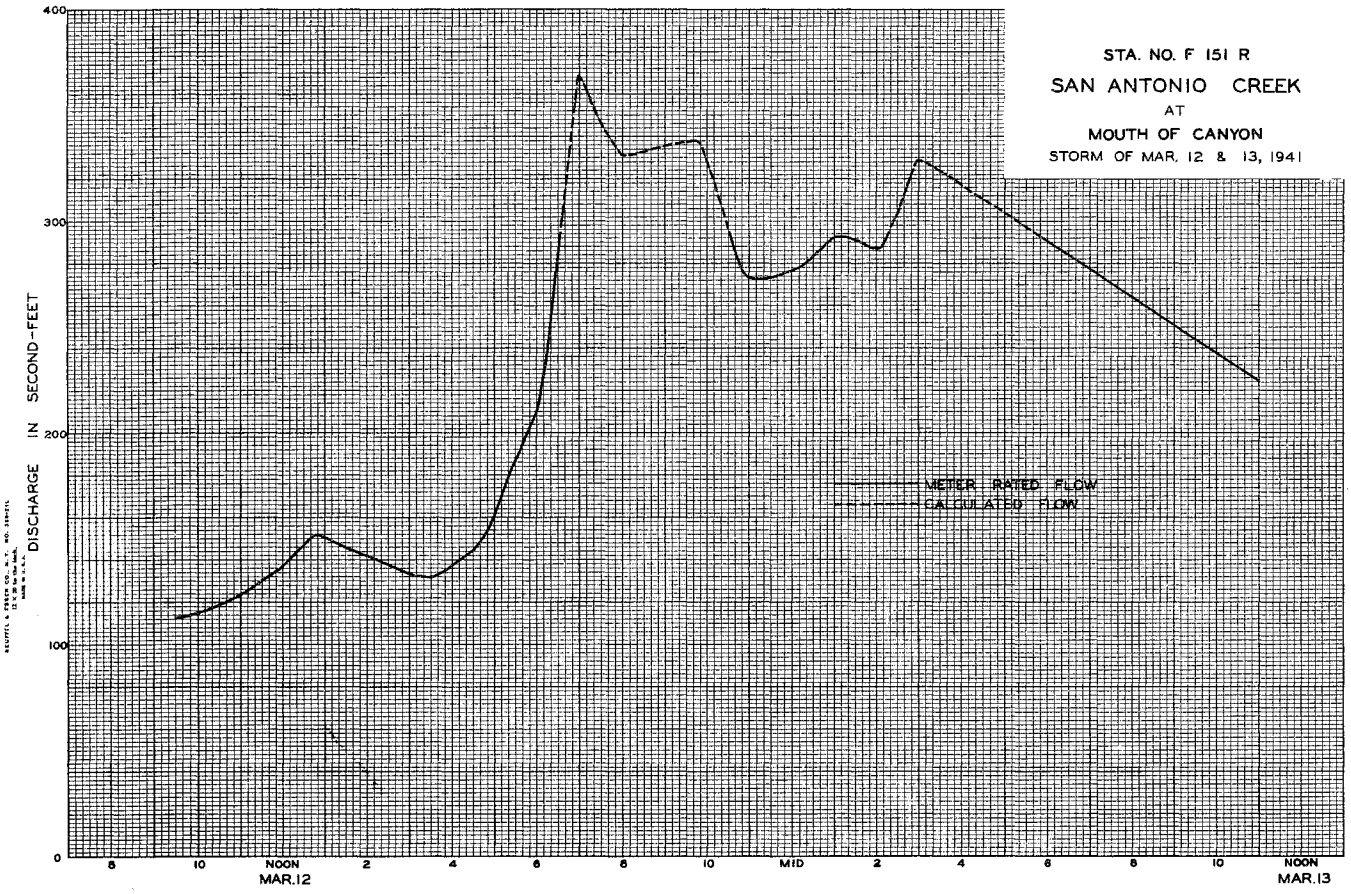
Sta. No F151R

Daily discharge, in second-feet of SAN ANTONIO CREEK at Mouth of Canyon, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0.1	0	115	120	101	76	25	4.8	0
2	0	0	0	0.1	0	103	126	101	74	23	3.6	0
3	0	0	0	0.1	0	108	115	99	70	24	2.4	0
4	0	0	0	0.1	0	179	133	98	70	20	2.2	0
5	0	0	0	0	0	162	154	98	68	19	2.3	0
6	0	0	0	0	1.5	144	137	105	67	18	2.0	0
7	0	0	0	0	0.4	134	130	123	67	17	1.9	0
8	0	0	0	0	0	127	127	130	65	15	1.5	0
9	0	0	0	0	0	123	131	134	62	15	1.4	0
10	0	0	0	0.5	0	118	139	146	59	15	1.6	0
11	0	0	0	0	13	114	150	152	58	15	1.4	0
12	0	0	0	0	5.5	174	137	154	56	15	0.9	0
13	0	0	0	0	1.4	250	128	148	57	15	0.7	0
14	0	0	0	0	5.5	218	123	141	56	14	0.1	0
15	0	0	0	0	1.6	188	120	132	55	13	0	0
16	0	0	+	0	15	181	114	122	52	12	0	0
17	0	0	4.2	0	19	169	115	117	51	11	0	0
18	0	0	0	0	18	167	112	115	49	11	0	0
19	0	0	0	0	36	163	108	115	47	10	0	0
20	0	0	0	0	127	154	103	105	46	10	0	0
21	0	0	0	0	134	139	101	96	43	10	0	0
22	0	0	0	0	129	130	103	92	42	10	0	0
23	0	0	4.5	0	111	120	102	94	41	10	0	0
24	0	0	19	0.4	108	112	96	98	39	9.5	0	0
25	0.2	0	6	0	90	102	94	98	38	9	0	0
26	0	0	0.9	0.2	87	92	111	94	36	8.5	0	0
27	0	0	0	0.2	83	88	100	92	34	8	0	0
28	0	0	0	0	95	97	94	91	32	7	0	0
29	0	0	0.2	0		129	91	88	28	6	0	0
30	0	0	0.5	0		102	110	82	26	5.5	0	0
31	0		0.6	0		113		78		5.5	0	
	0.2	0	35.9	1.7	1095.3	4315	3524	3439	1564	406.0	26.8	0
MEAN	0.01	0	1.16	0.05	39.1	139.	117.	111.	52.1	13.1	0.86	0
ACRE-FEET	0.40	0	71.	3.4	2170.	8560.	6990.	6820.	3100.	805.	53.	0

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

YEAR OR PERIOD MEAN 39.5
ACRE FEET 28570.



STATION F209R

SAN GABRIEL RIVER W. 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 1/2 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, 1940 to September 30, 1941.

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, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 1160 second-feet, February 22.
Minimum 0.5 second-foot, various times.
1933-1941
Maximum 25000 second-feet, estimated March 2, 1938.
Minimum + several times.

ACCURACY:

Good.
Flows estimated on a few days due to recorder failure.

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. F209R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - WEST FORK

AT below San Gabriel Dam #2 DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
912	10-1	925A 940A	Godfrey	4.3	1.19	0.84	3.11	1.0		.6	8	0	FC 20
913	10-3	245P 258P	"	4.3	0.99	0.50	3.08	0.49		.6	7	0	"
914	10-8	925A 937A	"	4.3	1.08	0.62	3.11	0.67		.6	7	0	"
915	10-11	935A 948A	"	4.0	0.99	0.77	3.10	0.76		.6	8	0	"
916	10-14	808A 816A	Brown	4.5	1.18	0.92	3.13	1.1		.6	8	0	FC 32
917	10-17	946A 958A	Godfrey	4.3	1.16	0.80	3.12	0.95		.6	7	-.01	FC 20
918	10-21	1118A 1124A	Brown	4.4	1.26	0.88	3.14	1.1		.6	8	0	FC 32
919	10-24	856A 908A	Godfrey	4.3	1.18	0.83	3.13	0.98		.6	7	0	FC 20
920	10-27	1105A 1120A	"	11.2	5.01	1.46	3.38	7.3		.6	10	+.01	"
921	10-28	253P 305P	Brown	9.7	3.52	0.88	3.23	3.1		.6	10	0	FC 32
922	11-1	725A 730A	"	4.6	1.45	1.06	3.16	1.5		.6	8	0	"
923	11-4	905A 915A	"	4.6	1.50	1.01	3.16	1.5		.6	8	0	"
924	11-7	934A 947A	Godfrey-Brown	4.7	1.54	0.92	3.16	1.4		.6	8	0	"
925	11-7	347P 400P	" "	4.2	1.07	0.63	3.10	0.67		.6	8	0	"
926	11-11	1125A 1138A	Godfrey	4.1	1.08	0.58	3.10	0.63		.6	8	0	FC 20
927	11-12	808A 820A	Brown	10.3	4.49	1.26	3.30	5.7		.6	10	0	FC 32
928	11-14	845A 853A	"	4.9	1.73	1.14	3.17	2.0		.6	9	0	"
929	11-18	915A 923A	"	4.5	1.33	0.68	3.11	0.90		.6	8	0	"
930	11-21	1033A 1047A	Godfrey	4.4	1.20	0.57	3.10	0.68		.6	7	0	FC 20
931	11-25	815A 824A	Brown	4.4	1.26	0.66	3.11	0.85		.6	8	0	FC 32
932	11-28	800A 810A	"	4.4	1.28	0.70	3.11	0.89		.6	8	0	"
933	12-2	833A 843A	"	4.5	1.30	0.68	3.11	0.88		.6	8	0	"
934	12-5	848A 858A	"	4.4	1.30	0.72	3.12	0.94		.6	8	0	"
935	12-9	850A 858A	Brown	4.5	1.30	0.71	3.12	0.92		.6	8	0	FC 32
936	12-12	815A 825A	"	4.5	1.31	0.75	3.13	0.98		.6	8	0	"
937	12-16	728A 742A	Godfrey	4.8	1.61	0.80	3.17	1.3		.6	8	0	FC 20
938	12-17	955A 1008A	Brown	10.7	4.47	1.20	3.29	5.4		.6	11	0	FC 32
939	12-19	1118A 1130A	"	9.8	3.87	0.96	3.25	3.7		.6	10	0	"
940	12-23	1010A 1018A	Godfrey-Brown	13.4	7.81	1.70	3.43	13.2		.6	7	-.02	FC 20
941	12-26	810A 820A	Brown	14.4	7.17	1.61	3.42	11.5		.6	10	0	FC 32
942	12-29	934A 949A	Godfrey	13.3	7.56	1.51	3.40	11.3		.6	7	0	FC 20
943	12-30	800A 812A	Brown	14.2	6.45	1.52	3.39	9.8		.6	13	0	FC 32
944	1-2	920A 930A	"	13.5	6.21	1.41	3.37	8.7		.6	9	0	"
945	1-6	800A 810A	"	13.4	5.99	1.34	3.36	8.0		.6	9	0	"
946	1-9	230P 245P	Godfrey	14.1	8.17	0.80	3.35	6.5		.6	8	0	FC 20
947	1-13	900A 908A	Brown	13.4	5.91	1.32	3.34	7.8		.6	9	0	FC 32
948	1-16	1255P 105P	"	13.5	5.83	1.29	3.34	7.5		.6	9	0	"
949	1-20	843A 853A	"	13.2	5.78	1.30	3.34	7.5		.6	9	0	"
950	1-23	837A 848A	"	13.0	5.87	1.24	3.34	7.3		.6	9	0	"
951	1-24	802A 817A	Godfrey	14.7	9.96	1.02	3.40	10.2		.6	8	0	FC 20
952	1-27	854A 907A	Brown	15.0	8.26	1.57	3.44	13.0		.6	10	0	FC 32
953	1-30	900A 910A	"	14.8	8.30	1.60	3.43	13.2		.6	10	0	"
954	2-3	935A 945A	"	14.6	7.51	1.52	3.42	11.4		.6	10	0	"
955	2-6	935A 945A	Brown-Godfrey	14.9	8.05	1.56	3.44	12.6		.6	10	0	"
956	2-10	850A 901A	Brown	15.0	8.28	1.60	3.44	13.2		.6	10	0	"
957	2-13	945A 1020A	Godfrey	20.5	21.5	1.14	3.60	24.6		.6	20	0	FC 20
958	2-16	1047A 1111A	"	21.6	19.9	2.40	3.85	47.7		.6	12	0	"
959	2-17	850A 900A	Brown	23.0	23.2	2.81	4.11	65.2		.6	10	+.01	FC 32
960	2-17	1033A 1043A	Brown-Godfrey	31.5	33.7	2.65	4.38	89.1		.6	10	-.27	"
961	2-17	1140A 1150A	" "	32.2	49.7	3.75	4.82	186.		.6	9	-.22	"
962	2-17	1232P 1239P	" "	30.4	38.7	3.49	4.37	131.		.6	9	+.74	"
963	2-17	130P 147P	" "	32.0	60.5	5.34	5.36	324.		.6	7	+.05	"
964	2-17	300P 318P	" "	33.0	75.4	6.17	5.70	465.		.6	7	+.05	"
965	2-18	656A 710A	Brown	43.5	85.5	5.09	5.72	436.		.6	7	0	"
966	2-18	928A 945A	"	36.5	106.	7.28	6.20	774.		.6	8	-.03	"
967	2-18	1035A 1055A	"	36.5	110.	7.04	6.23	773.		.6	8	0	"
968	2-19	655A 715A	"	36.0	115.	5.71	6.15	656.		.6	8	0	"
969	2-19	335P 350P	"	36.0	115.	5.55	6.10	640.		.6	8	0	"
970	2-20	658A 720A	"	36.5	118.	5.70	6.19	675.		.6	8	0	"
971	2-20	123P 138P	Brown-Godfrey	40.0	148.	7.55	7.13	1120.		.6	9	-.02	"
972	2-20	203P 224P	" "	40.0	139.	7.52	7.09	1050.		.6	9	+.03 -.03	FC 20
973	2-21	710A 735A	Brown	41.0	156.	7.03	7.14	1100.		.6	9	0	FC 32
974	2-21	457P 518P	"	41.0	151.	7.02	7.13	1060.		.6	9	-.02	"
975	2-22	712A 734A	"	41.0	165.	7.05	7.15	1160.		.6	9	0	"
976	2-22	358P 420P	"	41.0	163.	6.78	7.10	1110.		.6	9	+.01	"
977	2-23	652A 715A	"	40.5	160.	6.58	7.02	1050.		.6	9	0	"
978	2-23	1025A 1040A	"	38.0	103.	3.56	5.60	367.		.6	8	0	"
979	2-23	440P 455P	"	38.0	102.	3.80	5.60	387.		.6	8	0	"
980	2-24	655A 715A	"	38.0	100.	3.49	5.61	349.		.6	9	0	"
981	2-24	507P 530P	"	38.0	101.	3.41	5.60	346.		.6	12	0	"
982	2-25	705A 722A	"	38.0	100.	3.42	5.60	342.		.6	8	0	"
983	2-25	1030A 1050A	Brown	39.5	92.8	2.57	5.25	262.		.6	9	0	FC 32
984	2-26	700A 715A	"	37.0	89.4	2.59	5.25	231.		.6	8	0	"
985	2-27	700A 725A	"	37.0	91.2	2.68	5.24	244.		.6	13	0	"
986	2-27	905A 925A	"	37.0	86.5	2.19	5.00	190.		.6	13	0	"
987	2-27	128P 145P	"	36.0	75.2	1.62	4.65	122.		.6	12	0	"
988	2-28	659A 717A	"	36.0	74.8	1.64	4.65	123.		.6	12	0	"
989	3-1	705A 720A	"	36.0	72.5	1.94	4.76	154.		.6	12	0	"
990	3-1	1050A 1111A	Brown-Godfrey	38.0	106.	3.97	5.76	420.		.6	13	0	"
991	3-1	333P 401P	Godfrey	39.0	107.	3.83	5.76	407.		.6	9	-.01	"
992	3-2	646A 718A	"	39.0	106.	3.97	5.76	423.		.6	13	0	"
993	3-3	625A 645A	Brown	37.0	106.	3.99	5.74	425.		.6	13	0	"
994	3-4	640A 655A	"	41.5	160.	6.92	7.08	1110.		.6	9	-.05	"
995	3-4	857A 915A	"	41.0	158.	6.79	7.02	1080.		.6	9	+.03	"
996	3-4	308P 328P	"	41.0	159.	6.48	7.04	1030.		.6	9	0	"
997	3-5	645A 705A	"	41.0	156.	6.62	7.00	1040.		.6	10	0	"
998	3-5	440P 500P	"	41.0	151.	6.40	6.93	969.		.6	14	0	"
999	3-6	642A 707A	"	41.0	150.	6.47	6.81	973.		.6	13	0	"
1000	3-6	830A 858A	"	41.0	154.	6.29	6.92	971.		.6	14	0	"
1001	3-6	1100A 1135A	Brown-Godfrey	41.0	154.	6.53	6.89	1000.		.6	14	0	"
1002	3-7	450A 525A	Brown	41.0	150.	6.28	6.69	946.		.6	13	0	"
1003	3-7	623A 643A	"	38.0	97.6	3.14	5.46	306.		.6	12	0	"
1004	3-7	224P 257P	Godfrey	39.0	90.9	3.20	5.46	291.		.6	13	0	FC 20
1005	3-8	658A 713A	"	39.0	93.9	3.29	5.47	308.		.6	12	0	"
1006	3-9	645A 710A	"	39.0	90.9	3.16	5.47	287.		.6	11	0	FC 32
1007	3-10	658A 718A	Brown	37.0	97.8	3.13	5.46	306.		.6	14	0	FC 32
1008	3-10	845A 905A	"	36.5	85.0	2.42	5.10	206.		.6	13	0	"
1009	3-11	638A 703A	"	36.0	83.8	2.47	5.10	207.		.6	13	0	"
1010	3-12	645A 710A	"	37.0	86.1	2.41	5.10	213.		.6	13	0	"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F209R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - WEST FORK

below San Gabriel Dam #2. DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
1011	3-13	633A 700A	"	37.0	89.5	2.63	5.19	236.		.6	13	0	"
1012	3-13	1025A 1100A	Brown-Godfrey	39.5	131.	5.88	6.45	771.		.6	14	0	"
1013	3-13	415P 441P	Brown	39.5	131.	5.74	6.45	754.		.6	15	0	"
1014	3-14	637A 710A	"	39.5	133.	5.69	6.41	758.		.6	15	0	"
1015	3-14	410P 435P	"	39.5	130.	5.50	6.37	713.		.6	15	0	"
1016	3-15	650A 700A	"	39.0	129.	5.48	6.32	708.		.6	14	0	"
1017	3-15	1029A 1107A	Godfrey	39.0	104.	3.65	5.64	379.		.6	13	0	"
1018	3-15	252P 325P	"	38.0	88.9	2.82	5.31	251.		.6	13	+.01	"
1019	3-16	620A 650A	"	38.0	90.1	2.81	5.32	253.		.6	13	0	"
1020	3-17	616A 646A	"	38.0	90.2	2.88	5.33	260.		.6	13	0	"
1021	3-18	612A 640A	Brown	37.0	92.5	2.90	5.32	269.		.6	14	0	"
1022	3-19	650A 718A	"	37.0	92.9	2.81	5.32	261.		.6	14	0	"
1023	3-20	655A 725A	"	37.0	90.2	2.83	5.31	255.		.6	14	0	"
1024	3-21	633A 703A	"	37.0	91.6	2.83	5.30	259.		.6	14	0	"
1025	3-21	1229P 1257P	Godfrey	37.0	52.3	3.35	4.97	176.		.6	14	0	FC 20
1026	3-22	852A 900A	"	37.0	52.7	3.55	4.97	187.		.6	13	0	"
1027	3-23	836A 902A	"	37.0	53.4	3.43	4.97	183.		.6	14	0	"
1028	3-24	654A 715A	Brown	37.0	85.5	2.04	4.96	175.		.6	13	0	FC 32
1029	3-25	650A 710A	"	37.0	85.5	2.10	4.96	179.		.6	13	0	"
1030	3-26	652A 712A	"	37.0	85.0	2.10	4.95	179.		.6	13	0	"
1031	3-27	640A 700A	Brown	37.0	85.2	2.07	4.94	176.		.6	13	0	FC 32
1032	3-27	840A 900A	"	35.0	63.4	1.27	4.35	80.7		.6	11	0	"
1033	3-28	650A 710A	"	35.0	64.5	1.30	4.36	84.0		.6	11	0	"
1034	3-29	625A 650A	"	35.0	65.7	1.30	4.40	85.2		.6	11	0	"
1035	3-30	648A 710A	"	35.0	65.7	1.27	4.42	83.6		.6	11	0	"
1036	3-31	645A 708A	"	35.0	65.6	1.28	4.43	84.2		.6	14	0	"
1037	3-31	1245P 115P	"	37.0	90.2	2.68	5.26	243.		.6	13	0	"
1038	4-1	640A 708A	"	37.0	89.2	2.68	5.26	238.		.6	14	0	"
1039	4-2	645A 715A	"	37.0	90.2	2.71	5.27	244.		.6	14	0	"
1040	4-3	650A 715A	"	37.0	91.0	2.69	5.27	245.		.6	14	0	"
1041	4-4	655A 720A	"	37.0	90.8	2.71	5.26	246.		.6	14	0	"
1042	4-5	655A 725A	"	37.0	91.4	2.76	5.29	252.		.6	14	0	"
1043	4-6	656A 726A	Godfrey	38.0	87.9	2.82	5.30	248.		.6	13	0	"
1044	4-7	642A 710A	Brown	37.0	91.2	2.82	5.30	257.		.6	14	0	"
1045	4-7	320P 340P	"	33.5	48.2	0.85	3.90	40.9		.6	16	0	"
1046	4-10	655A 710A	Godfrey	33.0	55.3	1.04	4.15	57.5		.6	8	0	FC 20
1047	4-11	640A 655A	"	34.5	64.8	1.15	4.37	74.4		.6	8	0	"
1048	4-12	933A 955A	"	35.0	67.5	1.21	4.46	81.7		.6	10	0	"
1049	4-13	924A 948A	"	35.5	70.6	1.21	4.52	85.8		.6	11	0	"
1050	4-14	130P 155P	Brown	35.5	70.6	1.46	4.58	103.		.6	16	0	FC 32
1051	4-15	940A 1010A	"	37.0	88.8	2.71	5.22	240.		.6	14	0	"
1052	4-15	128P 155P	"	37.0	83.0	2.47	5.08	205.		.6	14	0	"
1053	4-16	630A 655A	"	37.0	82.6	2.48	5.09	204.		.6	14	0	"
1054	4-17	942A 1010A	"	36.0	71.6	1.48	4.60	106.		.6	16	0	"
1055	4-21	1048A 1118A	Brown	36.0	73.8	1.47	4.64	109.		.6	17	0	FC 32
1056	4-24	1006A 1030A	Brown-Godfrey	34.5	43.9	2.75	4.67	120.		.6	15	0	"
1057	4-28	906A 932A	Brown	36.0	75.8	1.55	4.68	118.		.6	17	0	"
1058	5-1	914A 945A	Godfrey	35.5	47.3	2.89	4.70	137.		.6	15	0	FC 20
1059	5-2	1135A 1200N	"	37.0	80.2	2.18	4.94	175.		.6	13	0	"
1060	5-2	1230P 100P	"	37.0	81.2	2.48	5.08	209.		.6	13	0	"
1061	5-2	130P 222P	"	38.0	92.0	3.03	5.28	278.		.6	13	0	"
1062	5-3	610A 640A	Brown	37.0	90.9	2.85	5.28	259.		.6	14	0	FC 32
1063	5-5	900A 935A	"	36.0	77.1	1.59	4.69	122.		.6	17	0	"
1064	5-8	848A 915A	Brown-Godfrey	36.0	76.6	1.49	4.68	114.		.6	17	0	"
1065	5-12	925A 1000A	Brown	36.0	75.5	1.64	4.67	124.		.2 .8	12	0	"
1066	5-15	906A 938A	Godfrey	35.5	76.8	1.59	4.64	122.		.2 .8	14	0	FC 20
1067	5-19	932A 1010A	Brown	36.0	73.6	1.50	4.63	110.		.2 .8	12	0	FC 32
1068	5-22	858A 922A	Godfrey	35.5	73.6	1.32	4.61	97.0		.6	11	0	FC 20
1069	5-22	527P 600P	"	35.5	73.6	1.44	4.61	106.		.2 .8	11	0	"
1070	5-26	930A 1000A	Brown	35.5	72.9	1.41	4.58	103.		.6	17	0	FC 32
1071	5-29	945A 1015A	"	35.5	71.6	1.35	4.56	96.7		.6	17	0	"
1072	6-2	944A 1015A	"	35.5	70.8	1.38	4.52	98.1		.6	17	0	"
1073	6-4	625P 650P	Brown-Godfrey	36.5	79.8	1.67	4.76	133.		.6	17	0	"
1074	6-5	622A 657A	Brown	38.0	81.2	1.61	4.75	130.		.6	17	0	"
1075	6-6	505A 528A	Brown-Godfrey	36.5	79.1	1.51	4.74	120.		.6	17	0	FC 20
1076	6-7	902A 940A	Godfrey	36.0	78.2	1.65	4.72	129.		.6	16	0	"
1077	6-8	910A 939A	"	36.0	77.9	1.60	4.70	124.		.6	16	0	"
1078	6-9	618A 650A	Brown	36.5	76.6	1.50	4.68	115.		.6	17	0	FC 32
1079	6-10	640A 712A	Brown	36.5	76.6	1.50	4.67	115.		.6	17	0	FC 32
1080	6-10	830A 905A	"	37.0	80.8	1.72	4.82	139.		.6	18	0	"
1081	6-11	640A 715A	"	37.0	80.0	1.72	4.80	137.		.6	18	0	"
1082	6-12	625A 700A	"	37.0	79.8	1.79	4.78	142.		.6	18	0	"
1083	6-13	630A 705A	"	36.5	80.3	1.62	4.76	130.		.6	17	0	"
1084	6-13	430P 503P	"	37.0	83.9	1.84	4.87	154.		.6	17	0	"
1085	6-13	630P 715P	"	36.5	92.2	2.89	5.28	268.		.6	14	0	"
1086	6-16	650A 707A	"	37.0	88.5	2.63	5.18	232.		.6	14	0	"
1087	6-18	305P 345P	"	36.0	83.3	2.36	5.07	197.		.6	14	0	"
1088	6-23	936A 957A	"	20.8	25.8	1.32	3.81	34.1		.6	11	0	"
1089	6-26	921A 945A	"	20.8	25.5	1.26	3.78	32.1		.6	11	0	"
1090	6-30	1127A 1148A	"	20.6	24.6	1.22	3.75	30.0		.6	11	0	"
1091	7-3	951A 1007A	Godfrey	20.0	24.8	1.20	3.74	29.8		.6	10	0	FC 20
1092	7-6	1047A 1103A	"	20.0	24.5	1.23	3.72	30.1		.6	10	0	"
1093	7-10	935A 958A	"	19.8	23.6	1.15	3.70	27.4		.6	10	0	"
1094	7-13	930A 948A	"	20.0	23.1	1.13	3.68	26.1		.6	10	0	"
1095	7-17	1012A 1030A	"	20.0	22.9	1.18	3.66	26.9		.6	10	0	"
1096	7-20	1020A 1032A	"	20.0	22.4	1.16	3.64	25.8		.6	9	0	"
1097	7-24	1022A 1040A	"	20.0	21.6	1.06	3.62	23.4		.6	9	0	"
1098	7-27	1012A 1030A	"	20.0	22.4	1.03	3.60	23.2		.6	9	0	"
1099	7-31	955A 1010A	"	19.5	22.2	1.08	3.58	24.1		.6	9	0	"
1100	8-3	1027A 1042A	"	19.5	22.1	1.00	3.56	22.3		.6	9	0	"
1101	8-7	915A 932A	Godfrey-Oliver	19.5	22.0	0.91	3.54	20.4		.6	9	0	"
1102	8-9	912A 928A	Godfrey	19.5	22.1	0.95	3.52	20.7		.6	9	0	"
1103	8-14	1100A 1125A	Oliver-Godfrey	19.0	20.2	0.90	3.50	18.3		.6	9	0	FC 20
1104	8-17	1025A 1045A	Godfrey	19.5	21.1	0.89	3.48	18.9		.6	9	0	"
1105	8-21	1040A 1100A	Oliver-Godfrey	19.5	20.4	0.89	3.44	18.2		.6	9	0	"
1106	8-24	1045A 1101A	Godfrey	18.5	17.8	0.94	3.43	16.8		.6	9	0	"
1107	8-28	305P 316P	Godfrey-Smith	17.5	17.1	0.90	3.40	15.4		.6	9	0	"
1108	8-31	950A 1017A	Godfrey	19.0	15.0	1.06	3.39	15.9		.6	12	0	"
1109	9-4	1040A 1100A	"	18.0	14.5	1.05	3.36	15.2		.6	9	0	"
1110	9-7	1000A 1015A	"	18.0	14.0	0.96	3.35	13.4		.6	9	0	"
1111	9-11	935A 955A	"	17.5	13.7	0.96	3.32	13.1		.6	9	0	"
1112	9-14	907A 922A	"	17.8	14.6	0.85	3.30	12.4		.6	9	0	"
1113	9-19	1103A 1116A	"	14.0	13.6	0.89	3.28	12.1		.6	7	0	"
1114	9-21	1028A 1038A	"	14.0	13.3	0.81	3.26	10.8		.6	7	0	"
1115	9-25	933A 946A	"	13.6	12.7	0.73	3.21	9.3		.6	7	0	"
1116	9-28	1011A 1030A	"	13.6	11.9	0.73	3.20	8.7		.6	13	0	"

F.C. Dist. Form 92 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F209R

Daily discharge, in second-feet of SAN GABRIEL RIVER - WEST FORK below San Gabriel Dam #2, for the year ending September 30, 1941

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	1.6	E 0.9	9.1	12.6	300	237	122	96	30	23	15.4
2	0.9	1.6	E 0.9	8.6	12.6	420	243	197	96	30	22	15.4
3	0.7	1.6	0.9	8.6	11.2	424	243	194	95	30	22	15.0
4	0.6	1.6	0.9	8.2	11.2	892	250	122	103	30	22	15.0
5	0.5	1.6	0.9	8.2	11.2	1000	253	122	131	30	21	14.4
6	1.0	1.6	0.9	8.2	12.6	966	247	119	120	30	21	13.7
7	0.7	1.0	0.9	7.7	12.6	464	169	118	129	29	21	13.4
8	0.9	0.7	0.7	6.7	13.2	308	44	114	124	28	21	13.4
9	0.9	0.7	0.9	6.7	13.2	287	49	116	116	27	21	13.1
10	0.9	0.6	0.9	7.7	13.2	239	62	118	130	27	21	13.1
11	0.9	2.7	0.9	7.7	16.7	207	77	120	136	27	20	13.1
12	1.0	4.2	1.0	7.7	23	222	82	124	142	26	19.3	12.7
13	1.0	2.1	1.0	7.7	24	519	87	124	146	26	18.6	12.4
14	0.9	2.1	0.9	7.7	26	732	102	122	263	26	18.2	12.4
15	0.7	2.1	0.7	7.7	36	464	176	122	247	27	18.6	12.4
16	0.6	1.9	1.9	7.7	48	253	188	118	231	27	18.6	12.1
17	0.7	1.2	5.6	7.7	243	260	106	114	219	27	18.9	12.1
18	0.6	1.1	4.7	7.7	627	270	107	112	150	27	18.9	12.1
19	0.6	0.7	3.7	7.7	653	260	110	110	37	26	18.9	12.1
20	1.0	0.7	3.7	7.7	873	253	110	108	37	26	18.9	11.5
21	1.7	0.7	3.4	7.2	1080 E	182	112	106	36	26	18.2	10.8
22	1.0	0.7	3.4	7.2	1130 E	187	113	106	35	25	17.5	9.9
23	1.0	0.9	7.1	7.2	662	184	118	104	34	24	17.1	9.9
24	1.0	0.9	11.4	10.4	345	175	120	103	34	24	16.8	9.6
25	1.2	0.9	11.2	11.9	288	177	119	103	33	23	16.4	9.3
26	1.0	0.9	11.2	13.8	231	179	119	103	32	23	16.1	9.3
27	4.2	0.9	10.6	13.2	177	115	118	100	32	23	15.7	9.0
28	4.0	0.9	10.6	12.6	130	84	118	98	31	23	15.7	8.7
29	1.7	0.9	10.6	13.2		85	118	96	30	24	15.7	8.7
30	1.6	1.0	9.6	13.2		84	120	96	30	24	15.7	8.4
31	1.6		9.6	13.2		161		96		24	15.7	
	361	401	1316	279.8	67363	10353	4117	3627	3075	819	5845	3584
Mean	1.16	1.34	4.25	9.03	241.	334.	137.	117.	102.	26.4	18.9	11.9
Acre-Feet	72.	80.	261.	555.	13360.	20530.	8170.	7190.	6100.	1620.	1160.	711.

Remarks: E = estimated.

Year or Period: Mean 82.6; Acre-Feet 59810.

STATION F3R

SAN GABRIEL RIVER-W. FORK above Forks

LOCATION:

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

DRAINAGE AREA:

102 square miles.

CHANNEL AND CONTROL:

Channel - sand, gravel and boulders.
No artificial control. Channel eroded 6.5± feet during and following the February 20 storm.

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 F3B-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, 1940 to September 30, 1941.

REGULATION:

Flow partially regulated by San Gabriel Dam No.2.

DIVERSIONS:

None.

RECORDS AVAILABLE:

December 3, 1930 to September 30, 1941.
For records prior to December 3, 1930 on file at Los Angeles County Flood Control District office refer to abandoned Station F1R San Gabriel River-W. Fork ½ mile above Forks; records from July 12, 1938 to September 27, 1938 are from Station F3B-R San Gabriel River-W. Fork 400 ft. below North Fork.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 3000± second-feet, estimated February 20.
Minimum 0.7 second-feet, October 20.
1930-1941 (Stations F1R, F3R and F3BR)
Maximum 34000 second-feet, estimated, March 2, 1938.
Minimum 0.3 second feet, October 17, 1931.

ACCURACY:

Good except for February 19 to 25.
Record occasionally estimated due to extreme erosion of channel or 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. F3-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER -WEST FORK

Above Forks

DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
891	10-3	638A 649A	Brown	17.8	11.9	0.68	7.52	8.1		.6	9	.0	FC 18
892	10-10	631A 650A	Cooper	18.5	11.9	0.68	7.51	8.1		.6	9	.0	"
893	10-17	632A 648A	"	18.8	11.7	0.61	7.49	7.2		.6	9	.0	"
894	10-24	615A 631A	"	18.7	12.0	0.64	7.51	7.6		.6	9	.0	"
895	10-25	435P 450P	"	19.4	14.3	0.92	7.64	13.1		.6	10	+.01	"
896	10-26	1225A 1240A	Ingram-Reilly	23.0	18.8	1.30	7.86	24.5		.6	9	+.01	FC 2
897	10-26	840A 900A	Cooper	21.0	15.9	1.10	7.74	17.5		.6	11	.0	FC 18
898	10-31	615A 631A	"	19.4	13.4	0.82	7.60	11.0		.6	9	.0	"
899	11-7	632A 650A	"	19.4	13.3	0.79	7.58	10.5		.6	9	.0	"
900	11-14	615A 631A	"	19.5	13.3	0.82	7.59	11.0		.6	9	.0	"
901	11-20	412P 426P	"	20.0	13.7	0.89	7.65	12.2		.6	10	.0	"
902	11-28	615A 633A	"	19.5	13.0	0.82	7.61	10.6		.6	9	.0	"
903	12-5	410P 428P	"	19.4	12.9	0.79	7.60	10.2		.6	10	.0	"
904	12-12	630A 646A	"	20.0	13.7	0.89	7.65	12.1		.6	10	.0	"
905	12-16	202P 216P	"	24.0	23.2	1.70	8.05	39.5		.6	12	+.02	FC 11
906	12-16	252P 308P	"	24.8	24.0	1.84	8.10	44.2		.6	12	+.01	"
907	12-16	1140P 1156P	Ingram-Reilly	40.0	56.2	4.16	8.90	234.		.6	10	+.08	FC 2
908	12-17	105A 125A	" "	64.0	87.0	5.41	9.37	471.		.6	11	+.11	"
909	12-17	150A 210A	" "	64.0	94.6	6.03	9.47	571.		.6	11	+.02	"
910	12-17	537A 552A	" "	64.0	95.8	4.95	9.19	474.		.6	11	-.06	"
911	12-17	825A 847A	" "	61.0	73.8	4.58	8.96	338.		.6	11	+.01	"
912	12-19	1130A 1150A	Cooper	27.0	20.2	2.00	7.79	40.4		.6	12	.0	FC 11
913	12-23	853A 904A	Ingram-Reilly	32.0	46.4	3.78	8.50	175.		.6	7	+.14	FC 2
914	12-23	944A 1000A	" "	64.0	75.7	5.46	9.13	413.		.6	12	+.28	"
915	12-23	1038A 1050A	Ingram-Reilly	63.0	95.6	6.55	9.30	626.		.6	10	-.10	FC 2
916	12-23	1157A 1212P	" "	63.0	101.	6.01	8.92	610.		.6	10	-.06	"
917	12-23	137P 153P	" "	58.0	78.8	5.17	8.60	407.		.6	10	-.11	"
918	12-23	404P 415P	" "	57.0	60.6	4.23	8.36	256.		.6	10	0	"
919	12-24	742A 755A	" "	63.0	85.1	6.13	8.81	522.		.6	11	+.02	"
920	12-24	844A 900A	" "	63.0	112.	6.65	8.82	742.		.6	10	-.02	"
921	12-24	920A 945A	" "	62.0	101.	6.12	8.69	619.		.6	10	-.07	"
922	12-24	1050A 1118A	" "	58.0	95.8	5.89	8.51	565		.6	10	-.12	"
923	12-24	1230P 1247P	" "	53.0	86.0	5.73	8.37	493		.6	10	-.02	"
924	12-24	128P 142P	" "	56.0	89.4	5.94	8.28	531		.6	10	-.01	"
925	12-24	238P 249P	" "	56.0	82.6	5.74	8.20	474		.6	10	-.01	"
926	12-26	1210P 1230P	Cooper	38.5	35.0	2.47	7.38	86.5		.6	14	0	FC 11
927	1-2	430P 448P	"	31.0	26.9	1.65	7.12	44.2		.6	10	0	"
928	1-9	505P 523P	"	29.0	23.6	1.50	6.98	35.6		.6	10	0	"
929	1-16	505P 523P	"	28.1	22.0	1.46	6.96	32.2		.6	10	0	"
930	1-23	420P 436P	"	27.6	21.9	1.48	6.93	32.4		.6	10	0	"
931	1-24	405A 423A	Ingram-Reilly	32.0	33.6	2.26	7.29	75.8		.6	8	+.06	FC 2
932	1-24	540A 550A	" "	34.0	40.5	3.49	7.54	142.		.6	7	+.06	"
933	1-24	640A 657A	" "	52.0	51.2	4.58	7.78	235.		.6	10	+.04	"
934	1-24	705A 715A	" "	52.0	53.9	4.79	7.84	259.		.6	10	+.04 -.02	"
935	1-24	812A 823A	" "	52.0	59.0	4.52	7.88	266.		.6	11	0	"
936	1-24	922A 933A	" "	52.0	59.5	4.76	7.91	283.		.6	10	+.01	"
937	1-24	1039A 1048A	Ingram-Reilly	52.0	60.3	4.91	7.93	296.		.6	10	+.02	FC 2
938	1-24	1142A 1152A	" "	52.0	61.6	4.54	7.90	280.		.6	11	0	"
939	1-24	1242P 1252P	Ingram-Reilly	51.5	58.9	4.32	7.86	255.		.6	10	0	FC 2
940	1-24	232P 246P	" "	51.0	54.6	4.16	7.80	227.		.6	11	0	"
941	1-30	450P 508P	Cooper	33.4	33.0	1.87	7.19	61.7		.6	11	0	FC 11
942	2-6	1250P 108P	"	35.5	42.8	5.04	7.46	107.		.6	13	0	FC 18
943	2-6	130P 146P	"	35.5	41.7	2.40	7.44	99.8		.6	13	-.01	"
944	2-11	1137A 1148A	Ingram-Reilly	52.0	54.8	4.58	7.79	248.		.6	10	+.08	FC 2
945	2-11	1234P 1244P	" "	54.0	70.2	5.46	8.10	384.		.6	11	+.06 -.02	"
946	2-11	124P 136P	" "	54.0	71.9	5.21	8.06	375.		.6	11	0	"
947	2-11	325P 341P	" "	53.0	66.8	4.93	7.94	329.		.6	11	+.03	"
948	2-11	437P 446P	" "	53.0	61.6	5.05	7.93	311.		.6	11	-.02	"
949	2-11	607P 621P	" "	53.0	64.9	5.20	7.96	337.		.6	11	+.04	"
950	2-11	647P 700P	" "	53.0	67.2	5.25	7.99	353.		.6	11	+.02	"
951	2-11	752P 803P	" "	53.0	66.8	4.95	7.97	331.		.6	10	-.02	"
952	2-13	425P 445P	Cooper	36.5	45.2	2.54	7.45	115.		.6	13	0	FC 11
953	2-14	825P 845P	Ingram-Reilly	52.0	62.7	4.95	7.93	310.		.6	10	+.10	FC 2
954	2-14	930P 943P	" "	53.0	71.8	5.24	8.05	376.		.6	11	+.04	"
955	2-14	1011P 1024P	" "	54.0	72.0	5.46	8.10	393.		.6	11	-.07	"
956	2-14 2-15	1153P 1204A	" "	53.0	67.8	5.02	7.98	340.		.6	11	-.02	"
957	2-15	1254A 106A	" "	53.0	66.0	4.85	7.92	320.		.6	11	0	"
958	2-15	457P 515P	Ingram	56.0	87.1	5.99	8.16	521.		.6	9	+.02	"
959	2-15	1042P 1058P	Ingram-Reilly	55.0	84.2	5.66	8.06	477.		.6	10	0	"
960	2-16	1247A 103A	" "	55.0	82.0	5.44	8.02	446.		.6	10	0	"
961	2-16	1258P 109P	" "	53.0	70.4	5.03	7.88	354.		.6	11	0	"
962	2-16	227P 240P	" "	53.0	73.1	4.93	7.87	361.		.6	12	0	"
963	2-16	427P 440P	Ingram-Reilly	53.0	73.4	4.89	7.87	359.		.6	11	0	FC 2
964	2-16	548P 600P	" "	53.0	74.2	5.07	7.95	376.		.6	11	+.02	"
965	2-16	706P 720P	" "	55.0	87.1	5.63	8.04	490.		.6	11	+.05	"
966	2-16	802P 818P	" "	56.0	91.6	6.00	8.13	549.		.6	11	0	"
967	2-16	851P 906P	" "	56.0	94.2	6.30	8.15	593.		.6	11	+.02	"
968	2-16	955P 1010P	" "	56.0	95.8	6.12	8.12	587.		.6	11	-.05	"
969	2-16 2-17	1150P 1204A	" "	56.0	92.7	6.40	8.10	594.		.6	12	-.02	"
970	2-17	135A 153A	" "	56.0	91.2	6.34	8.11	578.		.6	12	-.02	"
971	2-17	305A 321A	" "	56.0	96.9	6.16	8.13	597.		.6	11	-.02	"
972	2-17	412A 423A	" "	56.0	100.	6.33	8.21	633.		.6	9	+.02	"
973	2-17	505A 526A	" "	53.0	94.7	6.82	8.24	645.		.6	8	+.01	"
974	2-17	535A 556A	" "	53.0	102.	6.87	8.24	703.		.6	10	0	"
975	2-17	655A 720A	" "	56.0	102.	6.50	8.32	665.		.6	10	-.01	"
976	2-17	801A 821A	" "	56.0	103.	6.49	8.30	668.		.6	10	-.03	"
977	2-17	851A 912A	" "	56.0	102.	6.42	8.30	653.		.6	10	+.02	"
978	2-17	205P 221P	Cooper	53.0	94.2	5.79	8.19	545.		.6	10	-.02	"
979	2-17	250P 310P	"	60.0	133.	6.06	8.42	807.		.6	11	-.15 +.05	"
980	2-17	428P 500P	"	66.0	140.	6.44	8.62	904.		.6	11	-.05	"
981	2-18	1155A 1218P	Ingram	60.0	153.	6.39	8.30	980.		.6	11	+.03	"
982	2-18	117P 148P	"	60.0	160.	6.18	8.26	991.		.6	11	+.06 -.07	"
983	2-19	503P 525P	Ingram-Reilly	55.0	133.	6.56	8.05	875.		.6	11	+.01	"
984	2-19	701P 725P	" "	55.0	137.	6.72	8.10	921.		.6	11	+.05	"
985	2-19	843P 902P	" "	62.0	169.	7.06	8.40	1190.		.6	10	+.10	"
986	2-19	920P 934P	" "	65.0	177.	7.23	8.50	1280.		.6	8	+.15	"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F3R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - WEST FORK

above Forks DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
		1007P											
987	2-19	1022P	Ingram-Reilly	62.0	169.	7.68	8.28	1300.		.6	9	-.35	FC 2
		1058P											
988	2-19	1115P	" "	58.0	171.	8.39	7.94	1430.		.6	9	-.05	"
	2-19	1155P											
989	2-20	1218A	" "	57.0	186.	8.91	8.02	1660.		.6	7	-.04	"
		1140A											
990	2-20	217A	" "	68.0	194.	10.6	7.54	2050.		.6	12	-.48	"
		123A											
991	2-20	140A	" "	65.0	191.	10.2	6.42	1950.		.6	8	-.31	"
		650A											
992	2-20	708A	" "	65.0	222.	10.1	5.75	2240.		.6	8	+.20	"
		805A											
993	2-20	826A	" "	63.0	234.	10.1	6.28	2360.		.6	8	+.06	"
		903A											
994	2-20	940A	" "	67.0	262.	10.1	6.34	2660.		.6	8	+.15	"
		1108A											
995	2-20	1136A	" "	68.0	247.	10.0	6.33	2470.		.6	9	-.12	"
		1236P											
996	2-20	1257P	" "	68.0	251.	10.6	6.28	2660.		.6	10	-.05	"
		555A											
997	2-21	606A	" "	62.0	257.	10.6	4.37	2710.		.6	11	-.14	"
		734A											
998	2-21	800A	" "	61.0	244.	10.6	4.23	2600.		.6	10	-.02	"
		1055A										+.05	
999	2-21	1125A	" "	64.0	263.	10.7	4.34	2800.		.6	9	-.02	"
		135P											
1000	2-21	154P	" "	65.0	254.	10.4	4.28	2640.		.6	11	-.01	"
		350P										-.05	
1001	2-21	417P	" "	65.0	264.	11.0	4.38	2900.		.6	12	+.03	"
		335P											
1002	2-21	603P	" "	65.0	263.	10.5	4.33	2750.		.6	13	-.10	"
		740P										+.05	
1003	2-21	800P	" "	65.0	282.	10.2	4.43	2860.		.6	10	-.02	"
		939P											
1004	2-21	953P	" "	65.0	260.	10.4	4.38	2720.		.6	9	-.06	"
	2-21	1155P											
1005	2-22	1212A	" "	65.0	262.	9.69	4.38	2540.		.6	9	+.05	"
		738A											
1006	2-22	805A	" "	63.0	234.	9.46	4.00	2210.		.6	12	-.04	"
		1009A											
1007	2-22	1029A	" "	65.0	231.	8.87	3.92	2050.		.6	10	-.03	"
		1240P											
1008	2-23	1255P	Ingram	62.0	157.	7.02	3.10	1100.		.6	10	---	"
		940A											
1009	2-24	1000A	"	61.0	136.	6.72	2.30	912.		.6	12	---	"
		958P											
1010	2-24	1020P	"	62.0	138.	6.20	2.42	853.		.6	12	+.01	"
		1000A											
1011	2-25	1018A	Ingram	61.0	132.	6.34	2.32	834.		.6	12	-.01	FC 2
		855A											
1012	2-26	916A	"	59.0	122.	5.30	1.97	645.		.6	12	0	FC 18
		445P											
1013	2-27	515P	Cooper	60.0	100.	4.71	1.50	471.		.6	13	-.01	FC 11
		955A											
1014	2-28	1020A	Ingram	58.0	92.6	4.24	1.44	392.		.6	11	0	FC 18
		550P											
1015	2-28	611P	Ingram-Reilly	64.0	184.	7.14	2.91	1310.		.6	11	+.08	FC 2
		734P											
1016	2-28	755P	" "	64.0	185.	7.07	2.82	1310.		.6	12	-.03	"
		913P											
1017	2-28	931P	" "	64.0	179.	7.15	2.86	1280.		.6	12	0	"
		1108P											
1018	2-28	1130P	" "	63.0	168.	6.89	2.68	1160.		.6	12	-.04	"
		143A											
1019	3-1	208A	" "	61.0	161.	6.33	2.46	1020.		.6	12	-.03	"
		427A											
1020	3-1	453A	" "	60.0	139.	6.03	2.28	841.		.6	12	-.01	"
		645A											
1021	3-1	702A	" "	60.0	134.	5.88	2.26	791.		.6	12	-.01	"
		815A											
1022	3-1	831A	" "	60.0	139.	5.98	2.28	829.		.6	12	0	"
		350P											
1023	3-1	108P	" "	62.0	162.	6.79	2.60	1100.		.6	12	+.01	"
		505P											
1024	3-1	525P	" "	62.0	164.	6.66	2.59	1090.		.6	12	+.01	"
		1120A											
1025	3-2	1135A	Ingram-Lindsay	61.0	167.	6.60	2.62	1100.		.6	12	-.01	"
		500P											
1026	3-3	530P	Cooper	61.0	151.	6.19	2.42	936.		.6	12	0	"
		325A											
1027	3-4	349A	Ingram-Reilly	65.0	220.	5.57	3.44	1890.		.6	12	+.20	"
		412A											
1028	3-4	432A	" "	65.0	242.	8.76	3.78	2110.		.6	10	+.06	"
		553A										+.58	
1029	3-4	627A	" "	66.0	284.	9.59	4.52	2720.		.6	13	-.24	"
		640A											
1030	3-4	706A	" "	66.0	288.	9.34	4.48	2690.		.6	13	-.33	"
		810A											
1031	3-4	842A	" "	66.0	296.	9.31	4.50	2760.		.6	13	-.10	"
		815P											
1032	3-4	842P	" "	68.0	305.	9.01	4.34	2750.		.6	13	-.01	"
		1128P											
1033	3-4	1154P	Ingram-Reilly	67.0	302.	9.09	4.17	2750.		.6	13	-.07	FC 2
		242A											
1034	3-5	307A	" "	67.0	293.	8.75	4.08	2560.		.6	13	-.07	"
		615A											
1035	3-5	633A	Ingram-Reilly	66.0	277.	8.45	3.78	2340.		.6	13	-.07	FC 2
		847A										+.08	
1036	3-5	912A	" "	66.0	277.	8.51	3.76	2360.		.6	13	-.23	"
		1102A											
1037	3-5	1117A	" "	65.0	264.	8.05	3.68	2120		.6	13	+.11	"
		909A										-.32	
1038	3-6	931A	Ingram	66.0	210.	7.45	2.86	1570.		.6	13	+.43	"
		1102A											
1039	3-6	1121A	"	64.0	239.	8.35	3.16	2000.		.6	13	-.15	"
		1155A										-.08	
1040	3-6	1220P	"	64.0	228.	7.78	3.12	1780		.6	13	+.06	"
		1120A											
1041	3-7	1145A	Cooper	62.0	153.	6.42	2.18	980.		.6	13	-.01	"
		505P											
1042	3-10	530P	"	62.0	147.	4.55	1.62	667.		.6	12	0	FC 18
		215P	Whisler										
1043	3-12	228P	Middleton-	64.0	165.	5.11	2.05	845.		.6	7	-.02	FC 2
		402P											
1044	3-12	418P	" "	64.0	181.	6.25	2.35	1130.		.6	9	+.04	"
		535P											
1045	3-12	555P	" "	65.0	213.	6.97	2.70	1480.		.6	9	-.02	"
		842P											
1046	3-12	901P	" "	64.0	210.	6.46	2.52	1350.		.6	10	-.04	"
		103A											
1047	3-13	120A	" "	64.0	195.	6.06	2.42	1180.		.6	10	+.04	"
		811A											
1048	3-13	834A	" "	64.0	192.	5.90	2.35	1140.		.6	10	-.02	"
		1052A											
1049	3-13	1106A	" "	64.0	166.	5.26	1.99	871.		.6	10	-.02	"
		1215P											
1050	3-13	1240P	" "	65.0	225.	8.06	2.88	1810.		.6	13	+.01	"
		728P											
1051	3-13	743P	" "	65.0	218.	7.71	2.88	1690.		.6	8	0	"
		522A											
1052	3-14	539A	" "	66.0	241.	8.12	2.98	1960		.6	9	+.01	"
		1007A											
1053	3-14	1023A	" "	65.0	216.	7.63	2.87	1650.		.6	11	0	"
		1050A											
1054	3-17	1120A	Cooper	62.0	162.	5.22	1.95	845.		.6	13	0	FC 18
		535P											
1055	3-20	600P	"	61.0	152.	4.58	1.71	697.		.6	12	0	FC 11
		445P											
1056	3-24	510P	"	60.0	125.	4.01	1.36	501.		.6	12	0	"
		605P											
1057	3-27	630P	"	59.0	94.6	3.20	1.08	303.		.6	12	-.05	"
		932P	Whisler										
1058	3-28	950P	Middleton-	62.0	156.	4.25	1.27	662.		.6	10	+.06	FC 2
		1037P	Middleton &										
1059	3-28	1050P	Whisler	62.0	146.	4.38	1.40	640.		.6	10	+.02	FC 2
		1118P											
1060	3-28	1135P	" "	62.0	143.	4.33	1.43	621.		.6	10	0	"
		548A											
1061	3-29	606A	" "	62.0	153.	4.92	1.71	752.		.6	10	-.04	"
		228P											
1062	3-31	250P	Ingram-Reilly	61.0	144.	4.21	1.42	605.		.6	12	+.07	"
		437P											
1063	3-31	455P	Ingram-Reilly	62.0	142.	3.96	1.58	561.		.6	12	0	"
		800P											
1064	3-31	823P	" "	62.0	142.	4.08	1.53	579.		.6	12	0	"
		112A											
1065	4-1	142A	" "	62.0	150.	4.21	1.83	632.		.6	12	-.04	"
		322A											
1066	4-1	340A	" "	61.0	146.	4.03	1.72	589.		.6	12	-.01	"
		432P											
1067	4-1	453P	" "	62.0	158.	4.16	1.70	656.		.6	12	0	"
		435P											
1068	4-3	455P	Cooper	61.0	149.	4.19	1.57	623.		.6	12	0	FC 29
		1050P											
1069	4-4	1102P	Ingram	64.0	214.	7.48	2.90	1610.		.6	13	-.07	FC 2
		1102P											
1070	4-4	1135P	"	64.0	215.	8.18	2.82	1760.		.6	13	-.11	"
		1224A											
1071	4-5	1252A	"	62.0	194.	6.61	2.52	1280.		.6	13	-.11	"
		152A											
1072	4-5	228A	"	62.0	190.	5.30	2.34	1010.		.6	12	-.07	"
		550P											
1073	4-7	615P	Cooper	61.0	120.	3.87	1.40	464.		.6	12	-.07	FC 11
		1110A											
1074	4-10	1130A	"	61.0	124.	3.71	1.18	460.		.6	12	0	"
		423A											
1075	4-11	450A	Ingram-Reilly	61.0	169.	4.76	2.03	807.		.6	12	-.06	FC 2
		623A											
1076	4-11	642A	" "	60.0	156.	4.73	1.90	740.		.6	12	-.01	"
		455P											
1077	4-14	520P	Cooper	61.0	136.	4.06	1.47	553.		.6	12	0	FC 11
		505P											
1078	4-17	525P	"	61.0	135.	3.84	1.37	516.		.6	12	0	"
		510P											
1079	4-21	530P	"	61.0	121.	3.51	1.19	425.		.6	12	0	"
		525P											
1080	4-24	545P	"	61.0	118.	3.34	1.12	396.		.6	12	0	"
		355P											
1081	4-28	415P	"	61.0	113.	3.34	1.03	379.		.6	12	0	"
		1250P											
1082	4-30	120P	Ingram	61.0	143.	4.54	1.54	650.		.6	12	+.05	FC 2

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. P3R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - WEST FORK

at Above Forks DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
1083	4-30	218P / 240P	Ingram	61.0	144.	3.82	1.61	549.		.6	12	0	FC 2
1084	4-30	318P / 340P	"	60.0	133.	3.87	1.57	516.		.6	12	-.02	"
1085	5-1	450P / 510P	Cooper	61.0	119.	3.53	1.12	422.		.6	12	0	FC 11
1086	5-5	505P / 525P	"	60.0	110.	3.30	0.97	361.		.6	12	0	"
1087	5-8	555P / 615P	"	60.0	106.	3.20	0.89	339.		.6	12	0	"
1088	5-12	605P / 625P	"	60.0	102.	3.12	0.84	319.		.6	12	0	"
1089	5-15	425P / 445P	"	60.0	100.	2.95	0.82	295.		.6	12	0	"
1090	5-19	630P / 650P	"	60.0	92.0	3.12	0.74	287.		.6	12	0	"
1091	5-22	530P / 550P	"	60.0	91.5	2.92	0.71	267.		.6	12	0	"
1092	5-26	505P / 525P	"	58.0	85.0	2.82	0.67	240.		.6	12	0	"
1093	5-29	540A / 602A	"	58.0	86.5	2.72	0.65	235.		.6	12	0	"
1094	6-2	605P / 625P	"	58.0	76.6	2.53	0.62	194.		.6	12	0	"
1095	6-5	645P / 710P	"	58.0	86.5	2.86	0.62	247.		.6	12	0	"
1096	6-10	140P / 205P	"	58.0	86.8	2.98	0.66	259.		.6	12	0	"
1097	6-13	1125A / 1150A	"	58.0	76.1	2.42	0.61	184.		.6	12	0	"
1098	6-16	450P / 515P	"	59.0	103.	3.16	0.91	324.		.6	12	-.01	"
1099	6-19	632P / 654P	"	42.0	57.4	2.06	0.10	118.		.6	13	0	"
1100	6-23	505P / 525P	"	41.0	59.2	1.96	0.06	116.		.6	13	0	"
1101	6-24	420P / 440P	"	35.0	85.6	1.24	0.04	106.		.6	10	0	"
1102	6-25	505P / 525P	"	40.0	56.3	1.83	---	103.		.6	11	---	"
1103	6-27	425P / 445P	"	40.0	57.5	1.96	0.05	112.		.6	11	---	"
1104	6-30	510P / 530P	"	41.0	55.4	1.78	0.03	98.6		.6	11	0	"
1105	7-1	600P / 622P	Cooper	41.0	54.3	1.83	0.03	99.6		.6	11	---	FC 11
1106	7-3	440P / 500P	"	41.0	53.9	1.70	0.47	91.7		.6	11	0	"
1107	7-7	450P / 510P	Cooper	35.0	49.5	1.81	0.42	89.6		.6	10	0	FC 11
1108	7-10	445P / 505P	"	35.0	49.7	1.68	0.40	83.6		.6	10	0	"
1109	7-14	450P / 510P	"	35.0	48.2	1.68	0.35	80.9		.6	10	0	"
1110	7-17	400P / 420P	"	35.0	47.4	1.59	0.32	75.3		.6	10	0	"
1111	7-21	1127A / 1149A	Brown	42.5	51.3	1.42	0.33	72.9		.6	13	0	FC 32
1112	7-24	144P / 210P	"	39.0	51.5	1.49	0.31	77.1		.6	15	0	FC 11
1113	7-28	252P / 311P	"	38.0	49.9	1.45	0.29	72.5		.6	13	0	"
1114	7-31	1255P / 115P	"	38.0	50.0	1.40	0.26	70.0		.6	13	0	"
1115	8-4	618P / 636P	Cooper	34.0	42.7	1.46	0.19	62.5		.6	10	0	"
1116	8-7	500P / 518P	"	34.0	42.9	1.40	0.19	60.2		.6	10	0	"
1117	8-11	528P / 546P	"	34.0	41.6	1.46	0.18	60.6		.6	9	0	"
1118	8-14	420P / 438P	"	34.0	40.6	1.35	0.14	54.9		.6	9	0	"
1119	8-18	440P / 458P	"	32.0	39.3	1.32	0.12	51.7		.6	9	0	"
1120	8-21	505P / 521P	"	32.0	38.2	1.27	0.11	48.4		.6	9	0	"
1121	8-25	325P / 341P	"	32.0	38.8	1.24	0.12	48.1		.6	9	0	"
1122	8-28	510P / 528P	"	31.0	38.0	1.20	0.11	45.7		.6	9	0	"
1123	9-4	540P / 555P	"	31.0	37.5	1.12	0.06	42.1		.6	9	0	"
1124	9-8	420P / 435P	"	30.0	36.0	1.11	0.05	39.9		.6	8	0	"
1125	9-11	430P / 445P	"	30.0	35.5	1.04	0.00	36.9		.6	8	+.01	"
1126	9-15	1125A / 1140A	"	28.0	37.5	1.04	0.05	39.1		.6	8	0	"
1127	9-18	305P / 320P	"	27.0	34.6	1.00	0.00	34.6		.6	8	-.01	FC 34
1128	9-22	1050A / 1105A	"	27.5	34.6	1.05	5.98	36.5		.6	8	0	"
1129	9-25	415P / 430P	"	27.0	34.3	0.94	5.96	32.5		.6	8	0	FC 11
1130	9-29	500P / 516P	"	27.0	33.8	0.98	5.97	33.2		.6	8	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

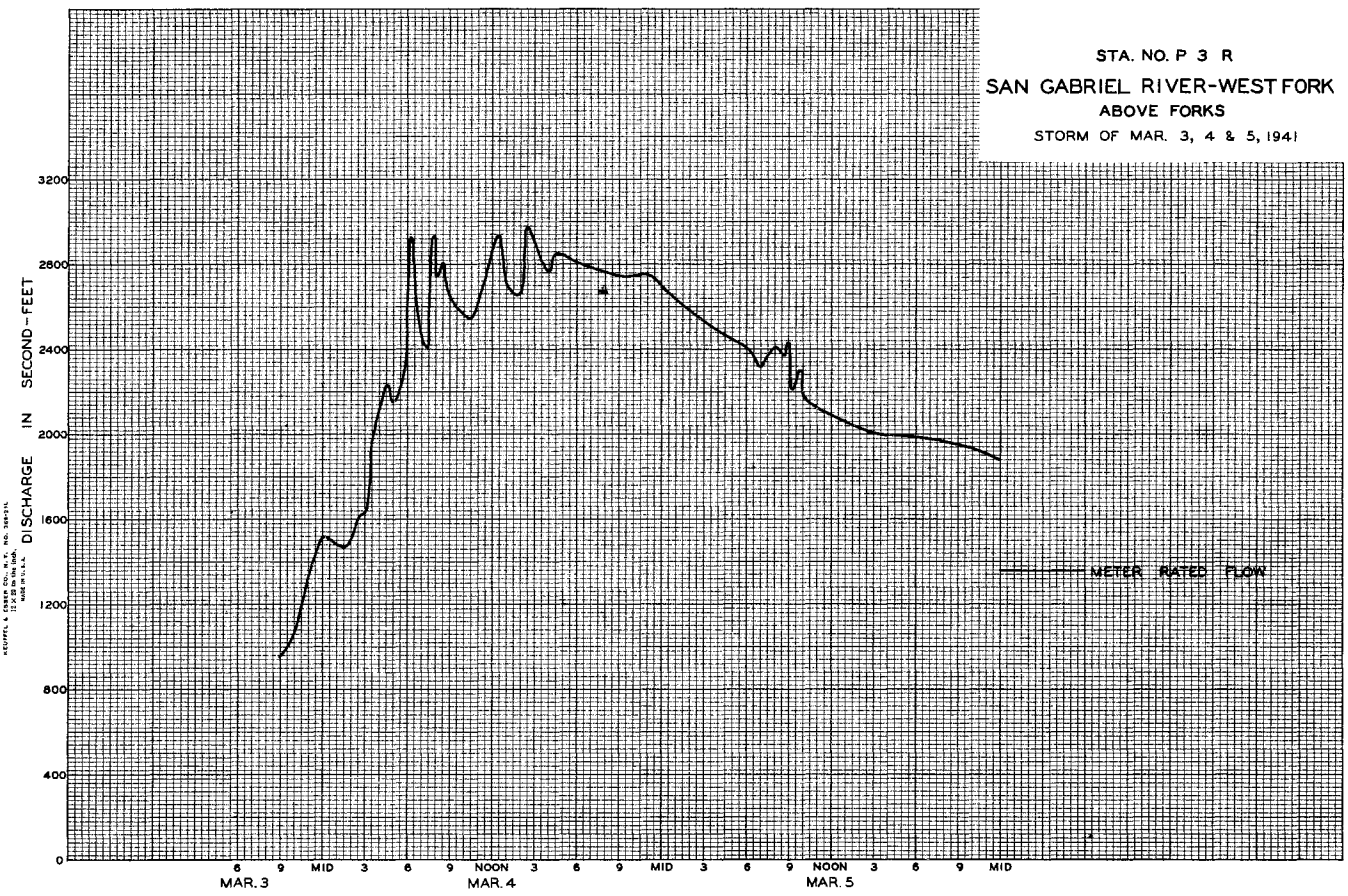
Sta. No. P3R

Daily discharge, in second-feet of SAN GABRIEL RIVER - WEST FORK above Forks, for the year ending September 30, 1941

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8	10	10	54	55	982	636	439	205	E100	71	44
2	8	10	10	45	53	1090	668	469	195	i 96	71	44
3	8	10	10	43	49	1000	635	500	213	E 92	69	44
4	8	10	10	42	46	2520	777	381	229	95	69	43
5	7.5	10	10	39	44	2190	838	366	247	95	68	42
6	7.5	10	10	39	80	1780	696	358	247	93	64	40
7	8	10	10	38	54	1160	578	354	247	95	63	40
8	8	10	10	38	50	880	370	351	247	93	63	40
9	8	10	10	36	48	826	373	344	247	91	63	38
10	E 8	10	10	41	46	742	522	334	253	87	66	38
11	E 8	9.5	10	38	195	646	715	326	232	87	64	38
12	E 8	14	12	36	162	913	566	323	207	87	61	39
13	E 8	12	10	35	122	1450	540	313	206	87	58	38
14	E 8	11	10	35	162	1700	556	303	316	86	57	38
15	7.5	10	10	33	376	1240	622	297	323	84	58	38
16	E 7.5	10	43	32	432	895	650	297	334	82	57	36
17	7.5	13	276	31	707	846	530	293	313	80	53	36
18	7.5	29	59	31	939	826	506	293	267	78	51	36
19	7	14	41	31	971	780	479	290	E118	75	54	36
20	7	12	33	31	E2870	707	461	284	1118	73	51	37
21	8	12	28	31	2720	611	439	274	1117	71	51	37
22	8	12	25	40	2140	535	422	268	1116	73	50	37
23	7.5	11	210	33	1530	525	414	262	E116	75	49	36
24	7.5	11	360	177	E 907	506	401	256	E106	77	49	34
25	11	11	E 175	99	767	465	401	250	E103	78	49	33
26	19	10	90	88	640	418	397	241	1108	78	49	33
27	16	10	68	78	533	350	393	238	E112	77	46	33
28	16	10	58	69	671	305	385	238	1108	75	46	33
29	12	10	74	66		545	378	235	1104	71	45	33
30	11	10	68	63		410	468	224	E 99	71	45	32
31	10		63	58		490		216		71	45	
	281.0		1823		17369		15816		5853		1755	
		3415		1550		28333		9617		2573		1126
MEAN	9.06	11.4	58.8	50.0	620.	914.	527.	310.	195.	83.0	56.6	37.5
ACRE-FEET	557.	677.	3620.	3070.	34450.	56200.	31370.	19080.	11610.	5100.	3480.	2230.

Remarks: E = estimated. i = interpolated.

YEAR OR PERIOD MEAN 237
ACRE-FEET 171400.



STATION P4B-R

SAN GABRIEL RIVER-E. 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. Tractor work was occasionally performed to confine the flow to the north side of channel.

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, 1940 to September 30, 1941.

REGULATION:

None.

DIVERSIONS:

Some water diverted for placer mining.

RECORDS AVAILABLE:

At Stations P4R and P4B-R
November 30, 1932 to September 30, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 1870 second-feet, February 20.
Minimum 11.0 second-feet, October 6.
1932-1941
Maximum 46000 second-feet, estimated by U.S.G.S. March 2, 1938.
Minimum 1.5 second-feet October 1, 1934.

ACCURACY:

Good due to sufficient meter measurements.
Flows occasionally estimated due to extreme control shifts.

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. F48-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - EAST FORK

at above Forks DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
485	10-3	122P 134P	Brown	18.2	8.39	1.67	7.58	14.0		.6	9	0	FC 29
486	10-10	232P 248P	Cooper	23.8	12.6	1.04	7.07	13.1		.6	11	0	"
487	10-17	325P 340P	"	18.0	8.30	1.61	7.08	13.4		.6	9	0	"
488	10-24	258P 312P	"	18.2	8.28	1.63	7.09	13.5		.6	9	0	"
489	10-31	305P 321P	"	21.6	9.78	1.81	7.16	17.7		.6	10	0	"
490	11-7	325P 341P	"	19.5	9.07	1.84	7.12	16.7		.6	10	0	"
491	11-14	220P 236P	"	19.8	9.16	1.78	7.12	16.3		.6	10	0	"
492	11-20	120P 136P	"	22.8	11.6	1.99	7.22	23.3		.6	11	0	FC 18
493	11-28	230P 248P	"	22.8	11.6	1.42	7.15	16.5		.6	11	0	"
494	12-5	105P 121P	"	19.5	9.04	1.76	7.12	15.9		.6	10	0	FC 29
495	12-12	252P 310P	"	21.8	9.62	1.88	7.16	18.1		.6	10	0	"
496	12-16	1245P 1259P	Whisler Middleton-	23.5	14.1	2.70	7.40	37.9		.6	12	0	"
497	12-16	247P 300P	" "	23.0	14.2	2.77	7.39	39.5		.6	12	0	"
498	12-16	621P 638P	" "	24.0	15.1	2.76	7.42	41.8		.6	13	0	"
499	12-16	1029P 1042P	" "	25.3	18.0	3.23	7.50	61.0		.6	13	+.02	"
500	12-17	1209A 1222P	" "	28.2	26.6	3.53	7.61	93.6		.6	10	+.01	"
501	12-17	116A 127A	" "	30.0	33.3	3.55	7.69	118.		.6	10	+.02	"
502	12-17	234A 246A	" "	39.0	41.9	4.53	7.63	190.		.6	10	-.01	"
503	12-17	308A 332A	" "	Two Channels			7.63	221.		.6	19	0	"
504	12-17	355A 423A	" "	" "			7.63	180.		.6	20	0	"
505	12-17	545A 610A	" "	" "			7.68	230.		.6	21	0	"
506	12-17	821A 845A	" "	" "			7.65	193.		.6	21	0	"
507	12-17	1107A 1130A	" "	" "			7.70	195.		.6	21	+.01	"
508	12-17	133P 152P	" "	" "			7.61	143.		.6	21	-.02	"
509	12-17	408P 417P	Whisler Middleton-	24.0	22.8	4.60	7.58	105.		.6	10	-.01	FC 29
510	12-17	621P 633P	" "	23.4	21.0	5.03	7.63	106.		.6	11	+.01	"
511	12-18	747P 758P	" "	22.8	16.4	3.64	7.65	59.5		.6	10	0	"
512	12-19	236P 254P	Cooper	23.8	13.5	3.24	7.61	43.9		.6	12	0	"
513	12-23	1146A 1157A	Whisler Middleton-	22.0	11.2	3.03	7.56	34.0		.6	11	0	"
514	12-23	712A 723A	" "	23.6	17.0	3.80	7.68	64.3		.6	11	+.02	"
515	12-23	848A 857A	" "	25.6	25.3	4.75	7.82	120.		.6	10	+.01	"
516	12-23	937A 946A	" "	27.2	33.6	5.49	7.82	184.		.6	9	-.01	"
517	12-23	1015A 1035A	" "	Two Channels			7.79	228.		.6	19	+.02	"
518	12-23	1110A 1130A	" "	" "			7.81	266.		.6	20	+.01	"
519	12-23	1142A 1156A	" "	" "			7.86	290.		.6	21	-.02	"
520	12-23	1228P 1245P	" "	" "			7.97	282.		.6	20	+.06	"
521	12-23	105P 124P	" "	" "			7.98	246.		.6	19	-.04	"
522	12-23	250P 302P	" "	45.0	37.1	5.57	7.71	207.		.6	15	-.02	"
523	12-23	410P 420P	" "	45.5	35.3	5.62	7.61	198		.6	14	-.04	"
524	12-24	245A 258A	" "	25.0	23.4	5.18	7.26	121.		.6	9	+.02	"
525	12-24	430A 440A	" "	30.0	27.5	5.24	7.31	144.		.6	8	0	"
526	12-24	715A 730A	" "	Two Channels			7.73	363.		.6	19	+.02	"
527	12-24	830A 845A	" "	" "			7.96	514.		.6	15	+.04	"
528	12-24	955A 1015A	" "	" "			8.24	605.		.6	17	+.02 -.05	"
529	12-24	1042A 1106A	" "	" "			7.98	484.		.6	14	-.11	"
530	12-24	1211P 1230P	" "	" "			7.69	497.		.6	16	-.10	"
531	12-24	153P 208P	" "	Three Channels			7.40	535.		.6	16	0	"
532	12-24	330P 350P	" "	" "			7.41	456.		.6	15	+.06	"
533	12-24	645P 708P	Whisler Middleton	Three Channels			7.57	430.		.6	12	+.02	FC 29
534	12-24	835P 905P	" "	" "			7.63	384.		.6	19	+.01	"
535	12-26	310P 332P	Cooper	Two Channels			7.16	102.		.6	14	-.01	FC 11

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.
536	12-28	1050P 1103P	Whisler Middleton-	Two Channels			7.10	85.7		.6	14	0	FC 29
537	12-29	318A 331A	" "	" "			7.11	97.2		.6	14	+.01	FC 36
538	12-29	731A 745A	" "	30.3	22.1	4.74	7.12	105.		.6	16	0	"
539	12-29	412P 424P	" "	26.0	21.2	4.51	7.10	95.5		.6	14	0	"
540	12-30	210P 226P	Cooper	35.0	22.3	3.33	7.69	74.1		.6	12	0	FC 11
541	1-2	155P 215P	"	25.0	17.8	3.65	---	64.8		.6	12	---	"
542	1-3	1215P 1233P	"	30.0	28.0	2.10	6.78	59.0		.6	10	0	"
543	1-7	1025A 1050A	Wood	39.0	18.5	2.77	6.82	51.2		.6	13	0	FC 36
544	1-9	1245P 101P	Cooper	31.5	22.8	2.10	6.80	47.9		.6	11	0	FC 11
545	1-16	108P 126P	"	30.5	21.0	2.01	6.84	42.3		.6	10	0	"
546	1-21 1-22	1158P 1213A	Whisler Middleton-	32.0	23.5	2.23	6.90	52.5		.6	13	+.01	FC 29
547	1-22	150A 203A	" "	32.2	24.8	2.42	6.91	60.0		.6	14	0	"
548	1-23	1245P 101P	Cooper	30.5	21.8	1.85	6.86	40.3		.6	10	0	FC 11
549	1-24	1223A 1238A	Whisler Middleton-	27.0	22.9	2.08	6.87	47.8		.6	14	0	FC 29
550	1-24	153A 207A	" "	27.5	24.8	2.23	6.90	55.3		.6	14	+.01	"
551	1-24	327A 342A	" "	27.5	26.7	2.62	6.95	69.9		.6	15	+.02	"
552	1-24	440A 454A	" "	34.9	30.6	2.96	7.01	90.4		.6	15	+.02	"
553	1-24	553A 606A	" "	36.3	34.9	3.32	7.12	116.		.6	14	+.04	"
554	1-24	702A 714A	" "	40.0	35.0	4.18	7.25	146.		.6	14	+.02	"
555	1-24	820A 837A	" "	51.7	36.3	4.44	7.43	161.		.6	18	+.02	"
556	1-24	950A 1008A	" "	52.0	36.9	4.46	7.54	165.		.6	14	+.02	"
557	1-24	1040A 1053A	Whisler Middleton-	Two Channels			7.58	184.		.6	14	+.02	FC 29
558	1-24	1118A 1130A	" "	37.5	32.4	5.60	7.65	181.		.6	12	+.02	"
559	1-24	1223P 1235P	" "	44.7	32.5	5.00	7.72	162.		.6	14	+.02	"
560	1-24	748P 805P	" "	46.3	31.2	4.24	8.06	133.		.6	14	-.04	"
561	1-26	350A 400A	" "	Two Channels			7.52	107.		.6	15	-.02	"
562	1-26	518A 530A	" "	" "			7.50	105.		.6	14	0	"
563	1-26	913A 928A	" "	" "			7.51	112.		.6	17	0	"
564	1-26	321P 335P	" "	" "			7.50	96.1		.6	15	0	"
565	1-30	235P 251P	Cooper	23.3	18.4	4.38	7.44	80.7		.6	13	0	FC 11
566	2-6	810A 820A	Whisler Middleton-	Two Channels			7.53	108.		.6	14	0	FC 29
567	2-6	853A 905A	" "	" "			7.56	118.		.6	13	+.01	"
568	2-6	1007A 1018A	" "	" "			7.54	108.		.6	14	0	"
569	2-6	1137A 1148A	" "	" "			7.52	98.7		.6	13	-.01	"
570	2-6	137P 148P	" "	" "			7.48	87.0		.6	14	-.01	"
571	2-6	330P 341P	" "	" "			7.46	82.0		.6	14	-.01	"
572	2-11	1047A 1103A	" "	51.0	32.8	4.76	7.60	156.		.6	13	0	"
573	2-11	1123A 1133A	" "	57.0	39.5	5.18	7.58	204.		.6	13	-.03	"
574	2-11	1145A 1154A	" "	57.3	40.2	4.74	7.70	191.		.6	12	+.17	"
575	2-11	1205P 1214P	" "	57.3	41.6	5.40	7.84	224.		.6	12	+.10	"
576	2-11	1225P 1235P	" "	58.0	43.6	5.24	7.95	228.		.6	12	+.08	"
577	2-11	1245P 1253P	" "	58.0	45.4	5.62	8.02	254.		.6	12	+.03 -.03	"
578	2-11	127P 138P	" "	58.0	50.3	6.02	7.92	303.		.6	12	-.08	"
579	2-11	203P 215P	" "	59.0	46.8	5.70	7.74	267.		.6	12	-.03	"
580	2-11	243P 253P	" "	59.0	49.4	5.45	7.65	269.		.6	11	0	"
581	2-11	331P 341P	Whisler Middleton-	53.0	45.0	5.74	7.69	258.		.6	11	0	FC 29
582	2-11	435P 446P	" "	53.4	47.2	5.74	7.69	271.		.6	11	0	"
583	2-11	535P 546P	" "	53.0	44.4	6.09	7.58	270.		.6	11	-.01	"
584	2-11	738P 750P	" "	56.0	45.3	5.94	7.40	269.		.6	11	-.04	"
585	2-11	917P 928P	" "	22.5	30.6	7.96	7.32	244.		.6	8	-.01	"
586	2-11	1106P 1119P	" "	22.7	29.1	7.13	7.32	207.		.6	9	+.02	"
587	2-12	113A 122A	" "	23.5	28.5	7.01	7.26	200.		.6	9	0	"
588	2-12	304A 324A	" "	23.2	27.9	6.88	7.26	192.		.6	9	0	"
589	2-12	804A 813A	" "	23.0	28.1	6.04	7.20	170.		.6	9	-.02	"
590	2-12	1013A 1021A	" "	23.0	26.6	6.31	7.21	168.		.6	9	+.01	"
591	2-13	140P 158P	Cooper	32.5	25.8	4.16	7.12	107.		.6	11	-.01	FC 11

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. P48-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - EAST FORK

at above Forks DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
592	2-14	233P / 243P	Whisler Middleton	23.0	23.5	5.61	7.12	132.		.6	10	0	FC 29
593	2-14	348P / 358P	" "	23.5	24.3	6.14	7.22	149.		.6	10	-.01	"
594	2-14	508P / 518P	" "	23.0	28.6	6.18	7.31	176.		.6	10	+.01	"
595	2-14	702P / 710P	" "	24.5	29.3	7.14	7.39	209.		.6	9	+.03	"
596	2-14	915P / 926P	" "	24.5	35.2	6.97	7.33	245.		.6	10	0	"
597	2-14	1013P / 1021P	" "	24.5	35.1	7.50	7.39	263.		.6	10	+.04	"
598	2-14	1042P / 1050P	" "	24.5	34.5	7.50	7.45	259.		.6	10	0	"
599	2-15	1205A / 1215A	" "	24.5	34.1	7.75	7.44	264.		.6	10	+.02	"
600	2-15	202A / 212A	" "	28.5	34.2	7.34	7.37	251.		.6	11	-.04	"
601	2-15	752A / 800A	" "	28.5	33.0	6.33	7.27	208.		.6	10	0	"
602	2-15	1038A / 1045A	" "	29.0	32.2	6.37	7.30	205.		.6	9	-.04	"
603	2-15	105P / 113P	" "	29.0	35.8	7.10	7.41	255.		.6	10	+.06	"
604	2-15	136P / 142P	" "	30.0	35.2	7.74	7.50	272.		.6	8	+.02	"
605	2-15	302P / 312P	Whisler Middleton-	32.5	38.5	7.58	7.60	292.		.6	8	+.04	FC 36
606	2-15	339P / 347P	" "	Two Channels			7.60	315.		.6	11	0	FC 25
607	2-15	429P / 437P	" "	" "			7.67	305.		.6	12	0	"
608	2-15	537P / 548P	" "	" "			7.72	335.		.6	13	-.02	"
609	2-15	718P / 729P	" "	" "			7.70	306.		.6	14	0	"
610	2-15	909P / 919P	" "	" "			7.72	302.		.6	12	0	"
611	2-16	722A / 734A	" "	" "			7.77	272.		.6	14	0	"
612	2-16	1025A / 1040A	" "	" "			7.80	290.		.6	17	+.02	"
613	2-16	1235P / 1247P	" "	57.0	48.2	5.70	7.84	276.		.6	16	-.02	"
614	2-16	314P / 331P	" "	57.0	45.6	5.93	7.91	270.		.6	15	+.02	"
615	2-16	510P / 522P	" "	57.0	46.4	5.70	7.90	264.		.6	13	0	"
616	2-16	709P / 719P	" "	58.0	50.5	6.07	7.96	306.		.6	11	+.02	"
617	2-16	746P / 800P	" "	58.0	48.8	6.04	7.98	295.		.6	11	-.02	"
618	2-16	1008P / 1021P	" "	59.0	59.2	5.96	8.01	353.		.6	13	0	"
619	2-16	1110P / 1123P	" "	58.0	54.9	5.99	7.95	328.		.6	13	-.02 +.01	"
620	2-17	307A / 322A	" "	63.0	58.0	6.96	7.99	404.		.6	12	0	FC 36
621	2-17	352A / 407A	" "	63.0	55.4	7.64	8.00	422.		.6	12	+.02 -.02	"
622	2-17	644A / 659A	" "	65.0	61.3	7.77	8.04	476.		.6	13	+.02	"
623	2-17	706A / 720A	" "	65.0	56.2	7.49	8.04	421.		.6	13	-.04	"
624	2-17	905A / 915A	" "	51.0	62.5	6.76	8.06	423.		.6	10	-.04	FC 29
625	2-17	1100A / 1110A	" "	51.0	59.0	7.00	7.90	412.		.6	9	-.04	"
626	2-17	142P / 150P	" "	52.0	61.2	6.64	8.00	406.		.6	9	-.05 +.13	"
627	2-17	512P / 525P	" "	52.0	58.5	6.78	7.77	396.		.6	11	+.04	"
628	2-17	730P / 743P	" "	52.0	60.3	6.80	8.08	410.		.6	12	-.04	"
629	2-17	1014P / 1027P	Middleton & Whisler	59.0	66.6	5.82	7.92	387.		.6	12	+.02	FC 29
630	2-18	720A / 733A	" "	49.0	61.5	5.70	7.95	351.		.6	11	-.02	"
631	2-18	912A / 924A	" "	60.0	64.6	5.10	7.74	330.		.6	14	-.02	"
632	2-18	107P / 120P	" "	60.0	64.9	5.21	7.62	339.		.6	13	0	"
633	2-18	512P / 525P	" "	46.0	54.3	5.82	7.55	316.		.6	11	0	"
634	2-19	830A / 843A	" "	46.0	52.9	5.07	7.49	269.		.6	11	0	"
635	2-19	1047A / 1055A	" "	46.0	50.0	5.43	7.48	271.		.6	11	0	"
636	2-19	302P / 312P	" "	46.0	52.4	5.20	7.48	273.		.6	12	+.01	"
637	2-19	634P / 648P	" "	46.0	56.6	5.55	7.50	314.		.6	11	0	"
638	2-19	741P / 749P	" "	47.0	56.8	6.12	7.61	348.		.6	10	+.02	"
639	2-19	801P / 810P	" "	49.0	64.2	6.51	7.76	418.		.6	10	+.09	"
640	2-19	825P / 835P	" "	46.0	53.0	7.70	7.95	408.		.6	11	+.10	"
641	2-19	859P / 916P	" "	50.0	76.2	7.88	8.03	602.		.6	12	-.12	FC 36
642	2-19	932P / 947P	" "	51.0	85.0	7.93	8.00	675.		.6	12	+.05	"
643	2-19	1027P / 1042P	" "	67.0	93.0	8.12	8.23	754.		.6	13	+.20	"
644	2-19	1113P / 1135P	" "	90.0	113.	8.76	8.46	988.		.6	13	+.02	"
645	2-19 / 2-20	1145P / 1202A	" "	95.0	100.	8.40	8.64	840.		.6	10	+.02	"
646	2-20	1217A / 1228A	" "	100.0	109.	7.89	8.67	862.		.6	10	0	"
647	2-20	112A / 127A	Middleton & Whisler	100.0	113.	8.05	8.57	909.		.6	10	-.08	FC 36
648	2-20	202A / 220A	" "	75.0	103.	8.91	8.36	919.		.6	9	-.04	"
649	2-20	253A / 305A	" "	72.0	92.3	9.23	8.09	852.		.6	11	-.06	"
650	2-20	353A / 408A	" "	55.0	70.3	9.79	7.76	688.		.6	12	-.01	"
651	2-20	518A / 532A	" "	58.0	60.0	9.70	7.71	582.		.6	12	-.02	"
652	2-20	708A / 718A	" "	60.0	71.2	9.90	7.87	705.		.6	12	-.02	"
653	2-20	857A / 915A	Middleton & Whisler	65.0	81.6	9.89	8.10	807.		.6	13	+.10	FC 36
654	2-20	1032A / 1050A	" "	75.0	116.	9.90	8.62	1150.		.6	10	+.09	"
655	2-20	1133A / 1145A	" "	80.0	126.	10.8	8.66	1360.		.6	8	-.02	"
656	2-20	1247P / 105P	" "	80.0	124.	10.9	8.50	1340.		.6	9	-.05	"
657	2-20	512P / 521P	" "	60.0	118.	11.7	8.16	1380.		.6	8	-.04	"
658	2-20	704P / 717P	" "	60.0	105.	12.1	8.02	1270.		.6	8	-.01	"
659	2-20	1018P / 1035P	" "	63.0	108.	11.2	8.24	1220.		.6	8	-.06	"
660	2-20	1111P / 1129P	" "	135.0	146.	8.71	8.25	1270.		.6	13	-.20	"
661	2-20	1137P / 1157P	" "	135.0	162.	9.30	8.15	1510.		.6	10	+.02	"
662	2-21	135A / 155A	" "	135.0	136.	8.92	8.20	1220.		.6	15	-.06	"
663	2-21	717A / 735A	" "	Three Channels			7.76	767.		.6	12	-.06	"
664	2-21	936A / 946A	" "	" "			7.54	937.		.6	14	0	"
665	2-21	1201P / 1222P	" "	" "			7.49	903.		.6	15	-.06	"
666	2-21	225P / 249P	" "	" "			7.39	813.		.6	16	0	"
667	2-21	502P / 521P	" "	" "			7.42	1110.		.6	15	0	"
668	2-21	801P / 820P	" "	" "			7.20	893.		.6	12	+.06	"
669	2-21	1103P / 1128P	" "	" "			7.33	1200.		.6	13	0	"
670	2-22	732A / 751A	" "	Two Channels			7.37	1050.		.6	14	-.02	"
671	2-22	1118A / 1132A	" "	55.0	108.	9.65	7.39	1050.		.6	11	-.04	"
672	2-22	200P / 218P	" "	56.0	115.	10.0	7.50	1150.		.6	12	+.12	"
673	2-22	226P / 239P	" "	58.0	115.	9.63	7.58	1100.		.6	12	-.05	"
674	2-22	518P / 533P	" "	56.0	104.	9.20	7.41	960.		.6	12	-.02	FC"29
675	2-22	830P / 846P	" "	56.0	93.5	9.15	7.28	856.		.6	13	0	"
676	2-23	734A / 750A	" "	58.0	95.4	8.23	7.45	786.		.6	13	-.02	"
677	2-23	1002A / 1015A	Middleton & Whisler	59.0	99.6	8.22	7.48	819.		.6	13	0	FC 29
678	2-23	525P / 542P	" "	59.0	84.6	8.50	7.62	719.		.6	13	+.03	"
679	2-23	942P / 958P	" "	60.0	96.2	7.25	7.76	697.		.6	13	+.02	"
680	2-24	642A / 658A	" "	64.0	96.2	7.84	8.22	755.		.6	14	0	"
681	2-24	918A / 937A	" "	65.0	85.6	7.49	8.24	641.		.6	14	+.02	"
682	2-24	1215P / 1232P	" "	66.0	88.6	7.87	8.24	698.		.6	15	+.02	"
683	2-24	240P / 257P	" "	66.0	87.0	7.26	8.30	631.		.6	15	+.01	"
684	2-24	527P / 544P	" "	67.0	88.3	7.39	8.32	652.		.6	15	-.01	"
685	2-24	910P / 930P	" "	Two Channels			8.34	599.		.6	14	+.01	"
686	2-25	717A / 733A	" "	" "			7.88	462.		.6	12	-.01	"
687	2-25	1007A / 1020A	" "	" "			7.75	391.		.6	11	0	"
688	2-25	1235P / 1250P	" "	" "			7.63	491.		.6	13	0	"
689	2-25	241P / 255P	" "	" "			7.66	449.		.6	13	+.04	"
690	2-26	817A / 835A	" "	80.0	89.8	6.08	8.01	546.		.6	17	+.08	"
691	2-26	1030A / 1047A	" "	82.0	88.8	5.90	8.14	524.		.6	18	+.02	"
692	2-26	207P / 221P	" "	76.3	81.2	5.63	8.24	457.		.6	15	0	"
693	2-26	524P / 540P	" "	79.0	80.0	5.74	8.33	459.		.6	17	+.02	"
694	2-26	911P / 930P	" "	79.0	79.0	6.39	8.30	504.		.6	13	+.02	"
695	2-27	800A / 818A	" "	104.0	87.4	5.30	8.65	464.		.6	17	+.04	"
696	2-27	1103A / 1125A	" "	104.0	83.2	5.22	8.61	434.		.6	19	+.02	"
697	2-27	406P / 419P	" "	100.0	83.7	5.48	8.63	459.		.6	13	-.02	"
698	2-28	714A / 736A	" "	Two Channels			8.48	382.		.6	18	-.04	"
699	2-28	1032A / 1048A	" "	95.0	77.0	5.15	8.49	397.		.6	16	0	"
700	2-28	208P / 218P	" "	100.0	92.4	4.45	8.43	411.		.6	13	-.10	"
701	2-28	432P / 450P	Middleton & Whisler	Two Channels			8.56	437.		.6	11	+.08	FC 29
702	2-28	515P / 525P	" "	Three "			8.64	515.		.6	13	0	"
703	2-28	711P / 726P	" "	70.0	86.7	7.47	8.64	648.		.6	14	-.01	"
704	2-28	903P / 922P	" "	Two Channels			8.64	794.		.6	15	+.28	"
705	2-28	952P / 1008P	" "	90.0	113.	7.45	8.94	840.		.6	16	+.17	"
706	2-28	1135P / 1152P	" "	102.0	132.	6.83	9.33	903.		.6	13	+.06 -.02	"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F48-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - EAST FORK

above Forks

DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
707	3-1	106A / 122A	" "	102.0	126.	6.57	9.49	824.		.6	11	0	"
708	3-1	337A / 352A	" "	Two Channels			8.95	804.		.6	12	-.10	"
709	3-1	813A / 825A	" "	80.0	104.	6.81	9.35	705.		.6	9	-.02	"
710	3-1	1101A / 1122A	" "	97.0	104.	6.74	9.42	702.		.6	12	+.03	"
711	3-1	102P / 114P	" "	100.0	110.	6.40	9.55	702.		.6	11	0	"
712	3-1	527P / 540P	" "	Two Channels			9.12	633.		.6	13	+.04	"
713	3-1	808P / 823P	" "	100.0	116.	6.81	9.36	788.		.6	11	0	"
714	3-1	1013P / 1028P	" "	72.0	98.6	7.64	9.09	753.		.6	14	+.02	"
715	3-2	722A / 736A	" "	71.0	101.	7.81	9.26	787.		.6	12	-.01	"
716	3-2	1009A / 1024A	" "	70.0	97.1	7.46	9.21	724.		.6	14	0	"
717	3-2	112P / 126P	" "	Two Channels			9.11	668.		.6	15	-.02	"
718	3-2	417P / 433P	" "	"	"		9.15	618.		.6	14	0	"
719	3-3	841A / 900A	" "	"	"		9.09	586.		.6	15	-.02	"
720	3-3	1130A / 1147A	" "	"	"		9.00	548.		.6	15	0	"
721	3-3	228P / 255P	" "	"	"		8.96	519.		.6	15	0	"
722	3-3	915A / 930A	" "	"	"		9.03	568.		.6	12	+.02	"
723	3-3	1104P / 1117P	" "	"	"		9.14	722.		.6	12	+.04	"
724	3-4	1212A / 1225A	" "	80.0	119.	7.31	9.28	866.		.6	11	+.04	"
725	3-4	206A / 233A	Middleton & Whisler	72.0	117.	7.42	9.28	864.		.6	13	-.04	FC 29
726	3-4	405A / 425A	" "	Two Channels			9.08	935.		.6	15	-.04	"
727	3-4	620A / 635A	" "	85.0	114.	7.65	9.12	871.		.6	16	0	"
728	3-4	819A / 835A	" "	75.0	106.	8.38	9.15	886.		.6	16	-.04	"
729	3-4	923A / 939A	" "	Two Channels			9.04	890.		.6	16	-.04	"
730	3-4	1108A / 1122A	" "	85.0	124.	8.22	9.00	1020.		.6	13	0	"
731	3-4	1205P / 1220P	" "	95.0	120.	8.15	9.05	974.		.6	15	+.04	"
732	3-4	230P / 245P	" "	100.0	136.	7.94	9.25	1080.		.6	13	+.04	"
733	3-4	314P / 330P	" "	100.0	142.	8.65	9.30	1220.		.6	15	0	"
734	3-4	446P / 506P	" "	105.0	146.	8.28	9.30	1210.		.6	17	0	"
735	3-4	734P / 750P	" "	135.0	174.	7.35	9.63	1280.		.6	14	+.20	"
736	3-5	825A / 845A	" "	115.0	132.	6.85	9.58	906.		.6	13	-.02	"
737	3-5	1102A / 1118A	" "	105.0	138.	7.25	9.63	1000.		.6	12	-.02	"
738	3-5	102P / 119P	" "	105.0	130.	6.92	9.54	896.		.6	11	0	"
739	3-5	306P / 320P	" "	100.0	130.	7.01	9.46	908.		.6	11	0	"
740	3-5	436P / 450P	" "	100.0	120.	7.35	9.24	886.		.6	12	-.02	"
741	3-6	905A / 925A	Middleton & M. Middleton	95.0	105.	7.16	8.85	754.		.6	11	0	"
742	3-7	835A / 853A	" "	100.0	95.5	6.15	9.07	588.		.6	11	-.02	"
743	3-10	1240P / 120P	Cooper	Three Channels			8.76	490.		.6	20	+.12	FC 36
744	3-14	400P / 410P	Middleton & Whisler	49.0	107.	9.95	8.52	1060.	Floats	7	0	----	
745	3-17	415P / 435P	Cooper	52.0	82.4	8.08	7.28	666.	Floats	11	+.01	----	
746	3-20	200P / 225P	"	50.0	70.7	6.82	7.22	482.		.6	10	-.03	FC 11
747	3-24	135P / 200P	"	51.0	68.5	5.91	6.92	405.		.6	11	0	"
748	3-27	1230P / 100P	"	46.0	68.7	5.24	6.84	360.		.6	13	0	"
749	3-31	135P / 148P	Middleton & Whisler	49.0	88.1	6.17	7.08	543.		.6	12	+.02	FC 36
750	3-31	255P / 313P	" "	49.0	89.0	5.85	7.08	520.		.6	13	-.02	"
751	3-31	530P / 550P	" "	47.5	77.6	5.73	6.97	445.		.6	12	-.01	"
752	3-31	915P / 930P	" "	47.5	76.6	5.12	6.95	392.		.6	11	0	"
753	4-1	707A / 726A	" "	47.5	79.0	5.51	7.01	436.		.6	10	0	"
754	4-1	1050A / 1107A	" "	47.5	78.9	5.44	6.96	429.		.6	10	0	"
755	4-1	422P / 439P	" "	47.5	82.4	5.31	6.99	438.		.6	11	0	"
756	4-2	933A / 946A	" "	47.5	75.6	5.87	6.99	444.		.6	11	0	"
757	4-3	1210P / 1235P	Cooper	45.0	73.3	4.89	6.92	358.		.6	14	0	FC 11
758	4-4	1145P / 1154P	Middleton & Whisler	53.0	137.	10.8	7.75	1480.		.6	8	-.01	FC 29
759	4-5	1252A / 110A	" "	56.0	122.	9.82	7.59	1200.		.6	12	+.24	"
760	4-5	220A / 233A	" "	58.0	120.	9.62	7.64	1150.		.6	12	-.02	"
761	4-5	655A / 710A	" "	61.0	93.9	8.55	7.57	802.		.6	13	0	"
762	4-5	903A / 918A	" "	61.0	103.	8.02	7.65	826.		.6	13	0	"
763	4-6	1000A / 1030A	G. Middleton & M. Middleton	Two Channels			7.69	686.		.6	15	-.04	FC 29
764	4-7	115P / 210P	Cooper	"	"		7.51	525.		.6	10	-.02	"
765	4-10	920P / 945P	Middleton & Whisler	Three	"		8.11	561.		.6	12	-.02	FC 36
766	4-10	1103P / 1120P	" "	"	"		8.15	634.		.6	14	+.12	"
767	4-11	1235A / 1255A	" "	"	"		8.50	744.		.6	15	+.08	"
768	4-11	215A / 235A	" "	Two	"		8.63	830.		.6	17	-.02 +.02	"
769	4-11	425A / 446A	" "	"	"		8.55	820.		.6	18	-.04	"
770	4-11	615A / 630A	" "	"	"		8.53	674.		.6	17	-.04	"
771	4-11	944A / 1000A	" "	"	"		8.50	601.		.6	15	0	"
772	4-14	225P / 245P	Cooper	"	"		7.42	452.		.6	11	0	FC 29
773	4-17	125P / 150P	Cooper	Two Channels			7.30	417.		.6	11	0	FC 29
774	4-21	150P / 210P	"	"	"		7.14	399.		.6	9	-.01	"
775	4-24	110P / 130P	"	"	"		7.08	349.		.6	9	0	"
776	4-28	1210P / 1230P	"	"	"		7.11	358.		.6	9	0	"
777	4-30	910A / 926A	Middleton	"	"		7.22	438.		.6	13	+.01	FC 36
778	4-30	1103A / 1118A	"	"	"		7.32	490.		.6	13	+.01	"
779	4-30	115P / 231P	"	"	"		7.35	497.		.6	13	0	"
780	5-1	100P / 120P	Cooper	"	"		7.09	343.		.6	9	0	FC 29
781	5-5	1205P / 1225P	"	"	"		7.14	358.		.6	9	0	"
782	5-8	245P / 305P	"	"	"		7.27	384.		.6	9	0	"
783	5-12	245P / 305P	"	"	"		7.17	386.		.6	9	0	"
784	5-15	1050A / 1110A	"	"	"		7.03	354.		.6	9	0	"
785	5-19	110P / 130P	"	"	"		6.97	283.		.6	9	0	"
786	5-22	155P / 215P	"	"	"		6.91	259.		.6	9	0	"
787	5-26	150P / 210P	"	"	"		6.88	261.		.6	9	0	"
788	5-29	1105A / 1125A	"	"	"		6.84	268.		.6	9	0	"
789	6-2	305P / 325P	"	36.0	52.0	4.22	6.92	219.		.6	8	0	"
790	6-5	155P / 215P	"	36.0	49.7	3.90	6.92	194.		.6	8	0	"
791	6-9	135P / 155P	"	35.0	48.8	3.89	6.87	190.		.6	8	0	"
792	6-12	1230P / 1250P	"	35.0	46.4	3.97	6.86	184.		.6	8	0	"
793	6-16	1135P / 155P	"	35.0	46.5	3.63	6.82	169.		.6	8	0	"
794	6-19	140P / 200P	"	35.0	44.6	3.45	6.80	154.		.6	8	.01	"
795	6-23	205P / 225P	"	30.7	44.5	3.20	6.75	142.		.6	10	0	"
796	6-26	1235P / 1255P	"	30.5	43.5	3.19	6.76	139.		.6	10	0	"
797	7-3	1110A / 1130A	Cooper	30.0	40.7	2.98	6.69	121.		.6	10	0	FC 29
798	7-7	130P / 150P	"	30.0	39.2	2.81	6.64	110.		.6	10	-.01	"
799	7-10	1250P / 110P	"	30.0	41.0	2.70	6.61	111.		.6	10	0	"
800	7-14	1250P / 110P	"	30.0	37.7	2.71	6.56	102.		.6	10	-.01	"
801	7-17	1230P / 1250P	"	30.0	38.1	2.67	6.53	102.		.6	10	-.01	"
802	7-21	145P / 207P	Brown	29.7	37.0	2.41	6.50	89.3		.6	13	0	FC 32
803	7-24	1040A / 1100A	"	29.5	36.9	2.33	6.51	85.6		.6	11	0	FC 29
804	7-28	1201P / 1215P	"	29.5	36.2	2.46	6.48	89.4		.6	10	0	"
805	7-31	1000A / 1015A	"	29.5	36.2	2.32	6.46	84.1		.6	10	0	"
806	8-4	308P / 326P	Cooper	29.0	32.3	2.33	6.37	75.4		.6	10	0	"
807	8-7	220P / 240P	"	29.0	32.0	2.27	6.36	72.6		.6	10	0	"
808	8-11	130P / 148P	"	29.0	32.2	2.21	6.36	71.2		.6	10	0	"
809	8-14	104P / 122P	"	27.0	31.0	2.02	6.32	62.7		.6	9	0	"
810	8-18	200P / 218P	"	26.0	31.3	1.83	6.29	57.3		.6	9	0	"
811	8-21	210P / 228P	"	25.5	29.9	1.90	6.27	57.0		.6	9	0	"
812	8-25	105P / 123P	"	25.5	31.0	1.88	6.27	58.3		.6	9	0	"
813	8-28	1228P / 1248P	Cooper-Oliver	25.0	26.6	1.93	6.25	51.3		.6	5	0	"
814	8-28	115P / 132P	" "	26.0	29.8	1.74	6.25	52.0		.6	9	0	"
815	9-4	210P / 225P	Cooper	25.0	26.4	1.66	6.22	43.8		.6	9	-.01	"
816	9-8	220P / 235P	"	25.0	25.8	1.70	6.21	43.8		.6	9	0	"
817	9-11	150P / 205P	"	25.0	26.0	1.58	6.16	41.2		.6	9	0	"
818	9-15	405P / 420P	"	25.0	24.4	1.59	6.15	38.9		.6	9	0	"
819	9-22	115P / 130P	"	24.5	24.2	1.45	6.12	35.1		.6	9	0	FC 34
820	9-25	110P / 125P	"	24.4	22.8	1.48	6.12	33.7		.6	9	0	FC 29
821	9-29	200P / 216P	Cooper	24.3	23.4	1.48	6.12	34.6		.6	9	0	FC 11

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

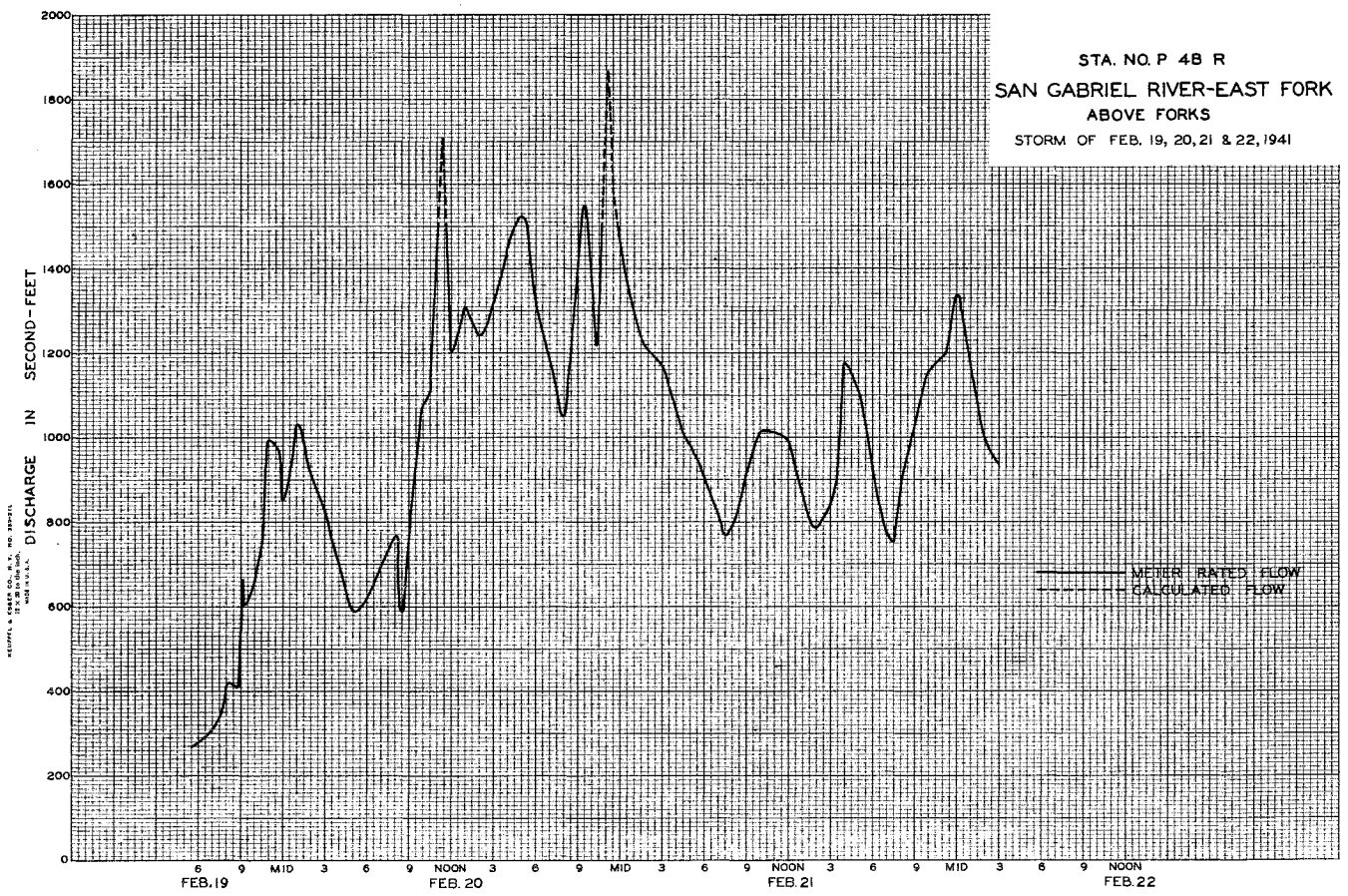
Sta. No. P4B-R

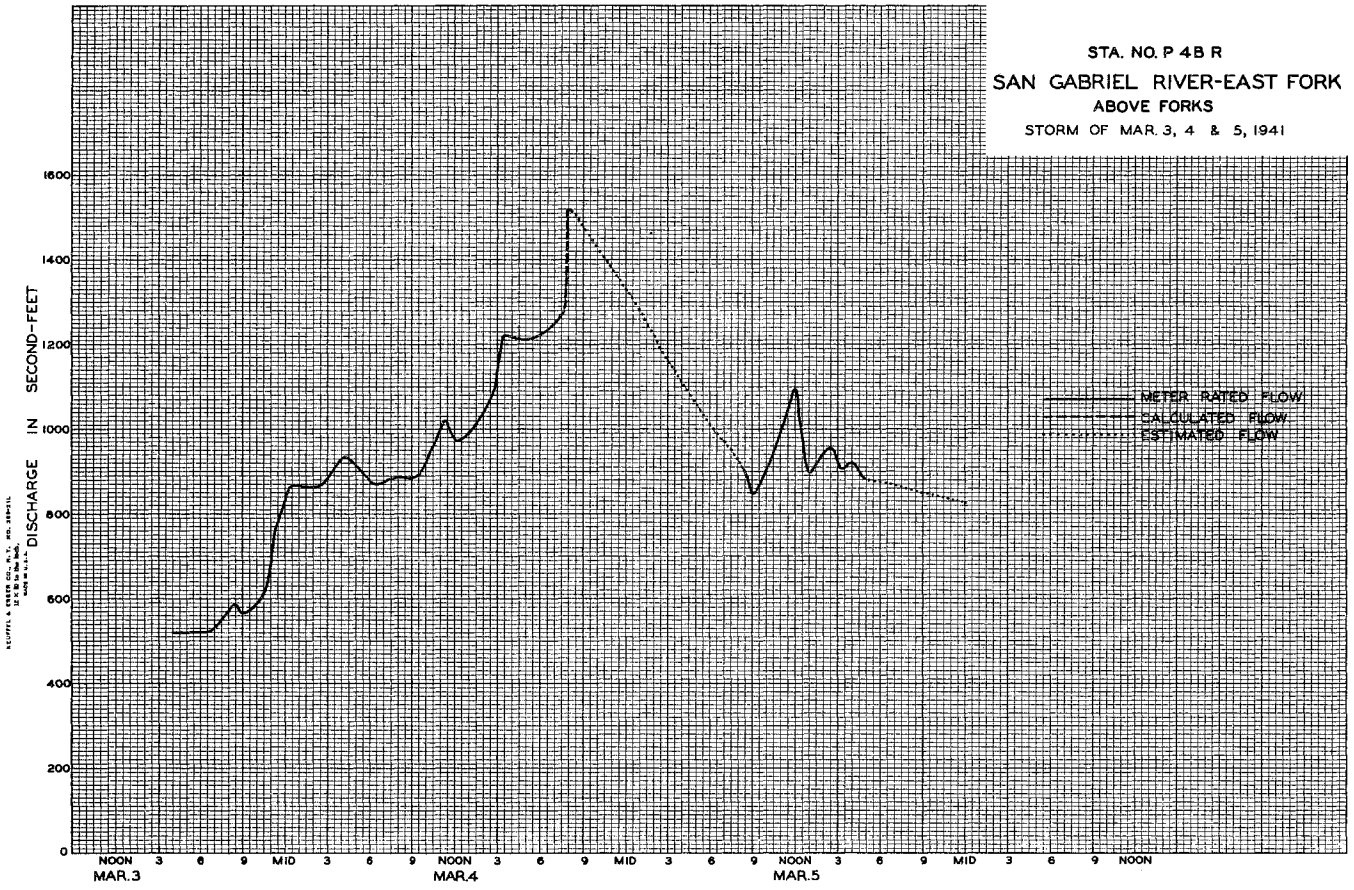
Daily discharge, in second-feet of SAN GABRIEL RIVER - EAST FORK above Forks, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14	18	16	i 68	80	752	450	363	1232	122	78	44
2	14	17	16	E 65	78	737	441	336	E 219	119	78	43
3	14	17	16	E 59	75	577	374	356	217	119	78	43
4	13	17	16	56	73	1080	434	370	206	117	78	43
5	12	17	16	56	71	978	865	397	201	114	78	43
6	12	17	16	54	84	732	675	425	206	112	75	43
7	12	17	16	51	71	E 587	547	425	217	110	72	43
8	13	17	16	49	67	E 537	515	418	211	110	71	43
9	14	17	15	48	67	1507	518	425	196	110	71	43
10	14	17	15	52	64	480	554	425	192	110	72	43
11	14	17	15	56	171	E 478	645	432	187	107	70	43
12	14	17	18	52	162	488	E 524	411	182	107	67	39
13	14	17	17	49	104	674	526	397	177	105	64	38
14	14	17	16	48	141	634	475	390	177	102	61	38
15	14	17	15	46	259	724	467	390	177	100	61	38
16	14	17	34	42	292	693	446	363	172	100	61	39
17	14	21	153	42	401	530	446	342	168	100	60	39
18	14	46	65	40	342	436	425	322	158	98	57	38
19	14	28	43	42	356	E 366	411	291	155	96	56	37
20	13	24	40	42	1110	401	404	272	151	93	56	37
21	13	23	37	43	1010	401	404	266	148	91	56	36
22	13	21	34	54	980	382	390	266	144	89	56	35
23	13	20	133	40	746	382	370	266	141	86	56	35
24	14	20	372	128	662	410	356	272	141	84	56	34
25	20	18	196	116	477	392	356	266	134	86	56	34
26	37	17	104	101	502	374	363	266	131	87	54	34
27	28	17	95	92	456	358	363	272	127	87	53	34
28	24	16	90	88	497	360	363	272	124	87	50	34
29	21	16	98	82		550	370	E 268	124	82	50	34
30	20	16	E 74	80		392	419	1256	122	81	48	33
31	18		171	80		415		1244		79	46	
	492	576	1878	1921	9398	16807	13896	10464	5137	3090	1945	1160
MEAN	15.9	19.2	60.6	62.0	336.	542.	463.	338.	171.	99.7	62.7	38.7
ACRE-FEET	976.	1140.	3720.	3810.	18640.	33340.	27560.	20760.	10190.	6130.	3860.	2300.

Remarks: E = estimated. i = interpolated.

YEAR OR PERIOD — MEAN 183. — ACRE-FEET 132400.





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 witb 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, 1940 to September 30, 1941.

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, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 131 second-feet June 25. (Peak flow discharged to river)
Minimum no flow for several months.
1935-1941
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 cooperation 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 51 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, 1941

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19.6	31	28	85	109	30	0	0	0	* 0.8	0	0
2	19.6	31	28	50	109	0	0	0	0	0.8	0	0
3	19.6	31	28	36	109	0	0	0	0	0.6	0	0
4	19.6	30	10.6	85	109	0	0	0	0	0.6	0	0
5	19.6	26	7.0	85	109	0	0	0	0	0.6	0	0
6	19.6	26	26	85	109	0	0	0	0	0.6	0	0
7	19.6	26	30	85	109	0	0	0	0	0.6	0	0
8	21	26	30	85	109	0	0	0	0	0.6	0	0
9	24	26	26	85	109	0	0	0	0	0.6	0	0
10	24	26	30	85	102	0	0	0	0	0.6	0	0
11	24	26	30	85	99	0	0	0	0	0.6	0	0
12	23	27	31	85	110	0	0	0	0	0.6	0	0
13	23	27	29	85	107	0	0	0	0	* 0.2	0	0
14	23	27	28	85	97	0	0	0	0	0	0	0
15	23	27	28	85	88	0	0	0	0	0	0	0
16	23	27	56	85	89	0	0	0	0	0	0	0
17	22	27	86	83	88	0	0	0	0	0	0	0
18	20	49	66	79	88	0	0	0	0	0	0	0
19	20	49	85	81	86	0	0	0	0	0	0	0
20	20	37	85	79	83	0	0	0	0	0	0	0
21	20	39	83	79	90	0	0	0	0	0	0	0
22	20	39	83	85	88	0	0	0	0	0	0	0
23	20	39	80	87	90	0	0	0	0	0	0	0
24	20	39	82	88	90	0	0	0	0	0	0	0
25	20	33	82	87	91	0	0	0	* 1.4	0	0	0
26	31	28	81	87	91	0	0	0	0.8	0	0	0
27	38	28	81	88	90	0	0	0	0.8	0	0	0
28	31	28	80	88	90	0	0	0	0.8	0	0	0
29	31	28	79	88		0	0	0	0.8	0	0	0
30	31	28	79	103		0	0	0	* 0.8	0	0	0
31	31		83	110		0		0		0	0	
	720.2	931	1660.6	2588	2738	30	0	0	5.4	7.8	0	0
MEAN	23.2	31.0	53.6	83.5	97.8	9.68	0	0	0.18	0.25	0	0
ACRE-FEET	1430.	1850.	3290.	5130.	5430.	60.	0	0	11.	15.	0	0

Remarks: * = flow by-passed to River.

YEAR OR PERIOD — MEAN 23.8 — ACRE-FEET 17200.

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 #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, 1940 to September 30, 1941.

RECORDS AVAILABLE:

February 26, 1933 to September 30, 1941. (See "Recorder") (See Remarks)

EXTREMES OF DISCHARGE:

1940-1941
Maximum 89 second-feet January 27.
Minimum + at various times.
1933-1941
Maximum 100 second-feet April 11, 1935.
Minimum not determined.

ACCURACY:

Excellent.

OPERATION:

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

REMARKS:

The Azusa Conduit was inoperative from March 2, 1938 to March 27, 1940. Intake to the Azusa Conduit was at Morris Dam from March 1, 1941 to September 30, 1941. Published herewith are the records of diversion from Morris Reservoir. These records together with Station F220R complete the records of the annual diversion thru the conduit.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F220R

DISCHARGE MEASUREMENTS OF SAN GABRIEL-AZUSA CONDUIT

AT Garcia Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.	M. HT. CHANGE TOTAL	METER NO.
195	10-3	1047A / 1058A	Brown	4.6	6.08	3.50	1.32	21.3		.6	10	0	FC 18
196	10-10	1105A / 1123A	Cooper	4.6	6.90	3.61	1.52	24.9		.6	10	0	"
197	10-17	1154A / 1212P	"	4.6	6.18	3.43	1.35	21.2		.6	10	0	"
198	10-24	1010A / 1024A	"	4.6	6.16	3.28	1.35	20.2		.6	10	0	FC 11
199	10-31	1136A / 1152A	"	4.6	8.44	3.80	1.85	32.1		.6	10	0	FC 18
200	11-7	1120A / 1136A	"	4.6	7.41	3.60	1.62	26.7		.6	10	0	"
201	11-14	1005A / 1021A	"	4.6	7.50	3.62	1.65	27.2		.6	10	0	"
202	11-20	942A / 956A	"	4.6	8.42	3.77	1.86	31.7		.6	10	0	"
203	11-28	1028A / 1044A	"	4.6	7.67	3.62	1.70	27.8		.6	10	0	"
204	12-12	1215A / 1233A	"	4.6	8.31	3.86	1.84	32.1		.6	10	0	"
205	12-12	1148A / 1208P	"	4.6	8.31	3.84	1.84	31.9		.6	10	0	FC 11
206	12-19	1020A / 1038A	"	4.6	18.5	4.51	4.05	83.6		.6	10	0	"
207	1-9	1005A / 1021A	"	4.6	18.9	4.49	4.13	84.7		.6	10	0	"
208	1-16	345P / 401P	"	4.6	18.9	4.41	4.14	83.4		.6	10	0	"
209	1-23	945A / 1001A	"	4.6	19.5	4.62	4.28	90.3		.6	10	0	"
210	1-30	1010A / 1028A	"	4.6	19.8	4.61	4.35	91.4		.6	10	0	"
211	1-31	112P / 130P	"	4.6	19.8	4.53	4.33	89.9		.6	10	0	"
212	1-31	134P / 154P	"	4.6	19.9	4.47	4.33	89.1		.2 .8	10	0	"
213	2-3	320P / 340P	"	4.6	19.8	4.46	4.32	88.4		.2 .8	10	0	"
214	2-4	325P / 345P	"	4.6	19.8	4.40	4.32	87.2		.2 .8	10	0	"
215	2-5	200P / 220P	"	4.6	19.9	4.36	4.34	86.6		.2 .8	10	0	"
216	2-6	1015A / 1035A	"	4.6	19.9	4.44	4.36	88.5		.2 .8	10	0	FC 18
217	2-7	130 P / 150P	"	4.6	19.9	4.42	4.36	88.0		.2 .8	10	0	FC 11
218	2-7	200P / 222P	Cooper	4.6	19.9	4.40	4.36	87.5		.2 .8	10	0	FC 18
219	2-10	220P / 240P	"	4.6	19.8	4.42	4.32	87.4		.2 .8	10	0	FC 11
220	2-13	1055A / 1115A	"	4.6	20.0	4.42	4.37	88.4		.2 .8	10	0	"
221	2-27	1145A / 1205P	"	4.6	19.2	4.49	4.20	86.2		.2 .8	10	0	"
222	2-27	1215P / 1235P	"	4.6	19.2	4.43	4.20	85.0		.2 .8	10	0	FC 37
223	2-27	1250P / 115P	"	4.6	19.2	4.43	4.20	85.1		.2 .8	10	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No F220R

Daily discharge, in second-feet of SAN GABRIEL - AZUSA CONDUIT at Garcia Canyon for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20	33	30	85	88	32	02	02	01	01	+	+
2	20	33	30	50	88	02	02	02	01	01	+	+
3	20	33	30	36	88	02	02	02	01	01	+	+
4	20	31	12	84	88	02	02	02	01	01	+	+
5	20	27	71	85	88	02	02	02	01	01	+	+
6	20	27	27	85	88	02	02	02	01	01	+	+
7	20	27	30	85	89	02	02	02	01	01	+	+
8	22	28	31	85	88	02	02	02	01	01	+	+
9	25	28	27	86	88	02	02	02	01	01	+	+
10	25	28	30	86	88	02	02	02	01	01	+	+
11	24	28	31	86	88	02	02	02	01	01	+	+
12	23	28	33	86	88	02	02	02	01	01	+	+
13	23	28	30	86	88	02	02	02	01	01	+	+
14	24	28	28	86	87	02	02	02	01	01	+	+
15	24	28	28	86	86	02	02	02	01	01	+	+
16	24	28	57	86	86	02	02	02	01	01	+	+
17	22	28	86	84	86	02	02	02	01	01	+	+
18	21	52	66	82	86	02	02	02	01	01	+	+
19	21	51	84	82	86	02	02	02	01	01	+	+
20	21	39	84	82	86	02	02	02	01	01	+	+
21	21	42	84	82	85	02	02	02	01	01	+	+
22	21	42	84	86	85	02	02	02	01	01	+	+
23	21	42	81	88	85	02	02	02	01	01	+	+
24	21	42	83	88	85	02	02	02	01	01	+	+
25	21	35	83	87	85	02	02	02	01	01	+	+
26	33	29	82	87	87	02	02	02	01	01	+	+
27	41	29	82	88	87	02	02	02	01	01	+	+
28	34	30	81	88	87	02	02	02	01	01	+	+
29	34	30	79	88		02	02	02	01	01	+	+
30	34	30	80	88		02	02	02	01	01	+	+
31	33		83	88		02		02		01	+	
	753	984	16831	2571	2434	380	6.0	6.2	3.0	3.1	+	+
MEAN	24.3	32.8	54.3	82.9	86.9	1.23	0.20	0.20	0.10	0.10	+	+
ACRE-FEET	1490.	1950.	3340.	5100.	4830.	75.	12.	12.	6.0	6.1	+	+

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

YEAR OR PERIOD MEAN 23.2
ACRE-FEET 16820.

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 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	54	83	85	86	76	88	90
2	0	0	0	0	0	88	84	86	86	88	89	90
3	0	0	0	0	0	71	83	86	86	87	86	88
4	0	0	0	0	0	25	82	86	86	87	81	87
5	0	0	0	0	0	1	83	85	87	88	86	89
6	0	0	0	0	0	18	84	86	86	88	89	89
7	0	0	0	0	0	52	84	87	87	88	89	89
8	0	0	0	0	0	61	83	87	87	89	90	90
9	0	0	0	0	0	83	83	86	84	87	89	88
10	0	0	0	0	0	78	84	87	85	88	89	89
11	0	0	0	0	0	77	84	87	86	88	89	90
12	0	0	0	0	0	71	85	87	87	88	90	87
13	0	0	0	0	0	51	85	86	86	87	88	89
14	0	0	0	0	0	61	85	86	86	85	90	88
15	0	0	0	0	0	86	86	86	88	87	90	86
16	0	0	0	0	0	87	86	86	85	88	89	89
17	0	0	0	0	0	83	85	87	85	88	91	89
18	0	0	0	0	0	85	87	87	91	88	90	88
19	0	0	0	0	0	85	86	86	88	88	90	84
20	0	0	0	0	0	86	86	87	86	88	89	81
21	0	0	0	0	0	85	86	87	88	88	90	77
22	0	0	0	0	0	85	85	86	86	88	90	78
23	0	0	0	0	0	85	81	86	86	88	89	73
24	0	0	0	0	0	85	86	87	86	89	89	68
25	0	0	0	0	0	85	88	86	88	87	89	68
26	0	0	0	0	0	84	87	83	86	87	89	68
27	0	0	0	0	0	85	86	86	88	89	89	67
28	0	0	0	0	0	85	86	86	86	88	90	67
29	0	0	0	0		85	85	86	74	88	89	67
30	0	0	0	0		86	83	86	33	87	89	68
31	0		0	0		85		87		89	89	
	0	0	0	0	0	2238	2541	2672	2529	2709	2754	2461
MEAN	0	0	0	0	0	72.2	84.7	86.2	84.3	87.4	88.8	82.0
ACRE-FEET	0	0	0	0	0	4440.	5040.	5300.	5020.	5370.	5460.	4880.

Remarks:

YEAR OR PERIOD MEAN 49.1
ACRE-FEET 35510.

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 No. 1 and No. 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 Blvd, 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, 1939 to September 30, 1941. Previous records 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 at Mouth of Canyon, for the year ending September 30, 19 40

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	29.9	54.9	57.4	48.8	73.3	74.7	6.6	0	0	0	53.1	0
2	29.9	54.1	57.4	48.8	73.3	75.3	4.4	0	0	0	54.8	0
3	29.9	52.3	57.4	48.8	73.3	75.3	2.9	0	0	0	57.8	0
4	29.9	52.3	57.4	50.3	72.9	73.1	1.8	0	0	0	57.8	0
5	29.9	52.3	57.4	48.8	72.9	71.6	1.5	0	0	0	57.8	0
6	29.9	52.3	57.4	48.8	72.9	71.1	1.3	0	0	0	57.8	0
7	31.1	52.3	57.4	52.6	72.9	70.4	1.1	0	0	0	57.8	0
8	29.9	52.3	55.7	62.6	72.1	70.4	0.9	0	0	0	57.8	0
9	29.9	52.4	50.2	74.4	72.1	70.4	0.8	0	0	0	57.4	0
10	40.9	52.8	50.2	76.0	72.1	70.4	0.6	0	0	109	57.3	0
11	54.9	52.6	50.2	76.0	72.1	70.4	0.5	0	0	44.8	57.5	0
12	54.9	52.2	50.2	76.0	72.1	70.4	0.4	0	0	53.1	57.4	0
13	54.9	52.2	50.2	76.0	72.1	70.4	0.4	0	0	55.2	57.4	0
14	55.7	52.2	50.2	76.0	72.7	70.4	0	0	0	58.8	57.4	0
15	55.7	51.8	50.2	74.4	72.7	70.4	0	0	0	58.8	35.7	0
16	55.7	51.8	50.2	72.1	72.7	71.0	0	0	0	57.2	3.9	0
17	55.7	51.8	50.2	72.1	72.7	71.0	0	0	0	55.5	0	0
18	55.7	51.8	50.2	72.1	72.7	71.0	0	0	0	52.9	0	0
19	55.7	51.1	49.7	72.1	72.7	71.0	0	0	0	49.4	0	0
20	55.7	55.7	49.1	72.1	72.7	71.0	0	0	0	49.4	0	0
21	54.9	58.1	49.1	72.1	72.7	71.0	0	0	0	49.4	0	0
22	54.9	58.6	48.3	72.1	72.7	71.0	0	0	0	28.0	0	0
23	54.9	58.0	50.6	72.1	72.7	71.0	0	0	0	3.3	0	0
24	54.9	58.0	49.0	72.1	74.7	71.0	0	0	0	1.1	0	0
25	54.9	57.6	48.8	72.1	75.6	71.0	0	0	0	0	0	0
26	54.9	57.8	48.8	72.1	75.3	71.0	0	0	0	0	0	0
27	54.9	57.6	48.8	72.1	75.6	71.0	0	0	0	0	0	0
28	54.9	57.8	48.8	72.1	76.0	71.0	0	0	0	41.8	0	0
29	54.9	57.3	48.8	72.1	75.3	71.0	0	0	0	54.8	0	0
30	54.9	57.3	48.8	72.1		71.0	0	0	0	53.1	0	0
31	54.9		48.8	72.1		55.1		0		53.1	0	
	1469.7	1629.7	1596.9	2091.9	2123.6	2194.8	23.2	0	0	830.6	838.7	0
MEAN	47.4	54.3	51.5	67.5	73.2	70.8	0.77	0	0	26.8	27.1	0
ACRE-FEET	2915.	3232.	3167.	4149.	4212.	4353.	46.0	0	0	1647.	1664.	0

Remarks:

YEAR OR PERIOD — MEAN 35.0 — ACRE-FEET 25380.

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 at Mouth of Canyon, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	37.2	0	0	55.7	74.4	72.9	72.5	76.0
2	0	0	0	0	37.9	0	0	61.0	74.4	72.9	72.5	76.0
3	0	0	0	0	39.4	0	0	62.6	74.4	72.9	72.5	76.0
4	0	0	0	0	40.1	0	0	59.9	74.4	72.9	72.5	76.0
5	0	0	0	0	40.8	0	0	62.6	74.4	72.9	72.5	62.6
6	0	0	0	0	41.7	0	0	71.3	74.4	72.1	72.5	50.3
7	0	0	0	0	41.2	0	0	71.3	74.4	72.1	72.5	65.0
8	0	0	0	0	41.2	0	16.3	71.3	74.4	72.1	71.3	54.9
9	0	0	0	0	41.7	0	24.4	71.3	73.7	71.7	70.5	67.3
10	0	0	0	0	41.7	0	32.1	71.3	73.7	71.7	70.5	68.1
11	0	0	0	0	44.6	0	36.3	71.3	73.7	71.7	61.3	48.8
12	0	0	0	0	42.7	0	39.3	71.3	73.7	71.7	34.9	7.7
13	0	0	0	0	42.7	0	40.1	71.3	73.7	71.7	36.3	8.0
14	0	0	0	0	44.6	0	40.8	71.3	73.7	71.7	36.3	7.2
15	0	0	0	0	46.9	0	27.5	72.1	73.7	72.5	42.0	6.9
16	0	0	0	0	46.9	0	8.5	75.2	73.7	72.5	66.5	6.9
17	0	0	0	0	47.8	0	42.1	76.8	73.7	72.5	71.3	6.6
18	0	0	0	0	46.2	0	55.2	76.0	73.7	72.5	71.3	6.6
19	0	0	0	0	29.9	0	60.3	72.9	73.7	72.5	70.5	6.4
20	0	0	0	0	0	0	60.3	69.6	73.7	72.1	69.6	4.5
21	0	0	0	0	0	0	60.3	51.8	73.7	72.1	69.6	4.0
22	0	0	0	0	0	0	60.3	57.2	73.7	72.5	67.3	3.8
23	0	0	0	0	0	0	61.8	65.8	73.7	72.5	72.1	3.6
24	0	0	0	0	2.0	0	61.8	58.0	73.7	72.5	73.7	4.2
25	0	0	0	0	0	0	63.8	54.9	73.7	72.5	74.4	4.5
26	0	0	0	0	0	0	69.6	71.3	73.7	72.5	74.4	4.0
27	0	0	0	0	0	0	69.6	72.9	73.7	72.5	76.0	3.6
28	0	0	0	0	0	0	69.6	74.4	73.7	72.5	76.0	3.4
29	0	0	0	193		0	69.6	74.4	73.7	72.5	76.0	3.4
30	0	0	0	31.4		0	62.6	74.4	73.7	72.5	76.0	3.8
31	0		0	35.0		0		74.4		72.5	76.0	
	0	0	0	85.7	7972	0	11322	2115.6	2216.6	2242.7	20913	820.1
MEAN	0	0	0	2.76	28.5	0	37.7	68.2	73.9	72.3	67.5	27.3
ACRE-FEET	0	0	0	170.	1581.	0	2246.	4196.	4397.	4448.	4148.	1627.

Remarks:

YEAR OR PERIOD — MEAN 31.5 — ACRE-FEET 22810.

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.
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, 1940 to September 30, 1941.

REGULATION:

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

DIVERSIONS:

Pasadena diverts water for domestic use.
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, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 5280 second-feet March 4.
Minimum no flow at various times.
1932-1941
Maximum 62000 second-feet, estimated March 2, 1938.
Minimum no flow at times each year.

ACCURACY:

Fair.
Flows occasionally estimated due to recorder failure and unknown parties building dams affecting control conditions. During latter part of year extreme channel scour prevented communication to well.

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. F190R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT Foothill Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
201	12-13	838A / 846A	Lindsay	5.0	1.27	0.16	5.46	0.20		.6	4	0	FC 28
202	12-27	823A / 831A	"	10.0	3.82	0.39	5.66	1.5		.6	7	0	"
203	1-7	212P / 222P	"	15.0	7.96	0.42	5.76	3.4		.6	7	0	"
204	1-16	314P / 322P	"	14.0	8.48	0.49	5.80	4.2		.6	7	0	"
205	1-23	207P / 217P	"	16.0	8.44	0.59	5.84	5.0		.6	8	0	"
206	1-30	115P / 128P	"	19.5	11.6	0.84	5.97	9.9		.6	9	0	"
207	2-6	315P / 329P	"	19.5	17.8	1.46	6.25	26.1		.6	10	-.01	"
208	2-11	535P / 545P	Lindsay-Keim	26.0	23.9	2.30	6.61	55.1		.6	12	+.02	"
209	2-20	532P / 542P	" "	85.0	127.	4.29	8.44	546.		.6	11	0	"
210	2-21	850A / 905A	" "	86.0	113.	3.84	8.18	434.		.6	12	+.02	"
211	2-22	1045A / 1110A	" "	107.0	222.	5.77	9.20	1280.		.6	12	0	"
212	2-22	1248P / 126P	Keim-Lindsay	106.0	205.	5.37	8.94	1100.		.6	12	0	"
213	2-24	1045A / 1100A	Lindsay	Two Channels			6.82	130.		.6	13	-.03	"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F190R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT Foothill Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
214	2-25	825A / 853A	"	86.0	133.	4.38	8.21	584.		.6	14	0	"
215	2-27	915A / 935A	"	87.0	136.	4.07	8.28	553.		.6	14	0	"
216	2-28	515P / 527P	Lindsay-Keim	86.0	119.	3.50	7.99	416.		.6	13	+.10	"
217	3-1	527P / 540P	" "	85.0	107.	3.19	7.75	341.		.6	13	0	"
218	3-3	238P / 252P	Lindsay	83.0	64.0	2.16	7.01	138.		.6	14	+.02	"
219	3-3	751P / 816P	Lindsay-Keim	103.0	179.	5.44	8.76	974.		.6	13	+.01	"
220	3-4	205A / 237A	" "	108.0	290.	7.70	10.03	2230.		.6	12	+.06	"
221	3-4	1214P / 1244P	" "	113.0	428.	9.76	11.20	4180.		.6	13	+.11	"
222	3-4	245P / 322P	" "	113.0	485.	10.8	11.40	5130.		.6	13	+.13	"
223	3-4	354P / 411P	" "	113.0	441.	10.2	11.35	4520.		.6	13	+.02	"
224	3-5	200A / 235A	Lindsay-Keim	113.0	491.	8.62	11.62	4230.		.6	13	-.01	FC 28
225	3-5	1043A / 1111A	" "	114.0	421.	8.81	11.62	4160.		.6	13	0	"
226	3-6	950A / 1035A	Lindsay	115.0	403.	9.06	11.18	3650.		.6	14	0	"
227	3-7	955A / 1045A	"	116.0	420.	8.17	11.12	3430.		.6	14	0	"
228	3-8	115P / 135P	Lindsay-Ingram	113.0	313.	6.03	10.05	1880.		.6	14	0	"
229	3-10	1254P / 115P	Haig-Jordan	90.0	215.	4.80	9.17	1030.		.6	9	0	FC 33
230	3-11	135P / 203P	Haig	90.0	193.	5.18	9.13	1000.		.6	9	+.03	"
231	3-12	435P / 510P	Ingram-Keim	117.0	256.	4.96	9.40	1270.		.6	14	+.05	FC 28
232	3-13	127P / 206P	" "	119.0	402.	7.44	10.87	2990.		.6	12	0	"
233	3-14	825A / 915A	Lindsay	118.0	394.	8.15	10.94	3210.		.6	15	0	"
234	3-15	423P / 500P	Lindsay-Ingram	113.0	316.	6.08	10.14	1920.		.6	14	0	"
235	3-16	853A / 920A	" "	113.0	309.	5.15	10.14	2010.		.6	14	0	"
236	3-17	100P / 140P	Lindsay	77.0	186.	5.25	9.09	976.		.6	13	0	"
237	3-19	1057A / 1200N	Ingram	85.0	180.	5.31	9.05	956.		.6	15	0	FC 18
238	3-20	1135A / 1152A	Haig	46.0	51.9	2.22	7.12	115.		.6	13	0	FC 33
239	3-26	810A / 905A	Lindsay	68.0	143.	5.20	8.83	743.		.8	13	0	FC 28
240	4-1	1150A / 1228P	Lindsay	62.0	123.	4.68	8.59	576.		.6	11	0	FC 28
241	4-3	135P / 152P	Haig	77.0	158.	3.75	8.57	592.	Sur.	.6	9	0	FC 33
242	4-5	911A / 926A	Ingram-Keim	45.0	56.8	2.68	7.63	152.		.6	12	-.01	FC 28
243	4-6	1150A / 1205P	Lindsay	49.0	72.7	3.22	7.88	234.		.6	12	+.01	"
244	4-9	1155A / 1210P	"	57.0	115.	4.62	8.51	531.		.8	11	0	"
245	4-11	1040A / 1115A	Lindsay-Keim	80.0	205.	5.41	9.29	1110.		.8	10	0	"
246	4-12	915A / 947A	" "	Two Channels			9.48	1300.		.8		0	"
247	4-15	1040A / 1125A	Lindsay	108.0	260.	5.50	9.59	1430.		.8	13	0	FC 28
248	4-16	952A / 1003A	"	39.0	39.5	2.38	7.22	93.5		.6	11	-.02	"
249	4-18	820A / 854A	"	68.0	156.	4.92	8.82	768.		.8	10	0	"
250	4-24	1025A / 1055A	"	Two Channels			8.78	687.		.8	9	0	"
251	5-2	855A / 915A	"	80.0	210.	5.48	9.31	1150.		.8	11	0	"
252	5-19	300P / 316P	"	37.0	37.3	2.57	7.25	95.6		.6	10	-.01	"
253	5-22	1100A / 1110A	"	35.0	22.8	1.67	---	38.4		.6	9	---	"
254	5-27	1115A / 1135A	"	Two Channels			7.67	182.		.6	19	0	"
255	7-8	305P / 320P	"	80.0	102.	2.30	7.92	235.		.6	11	0	"
256	7-17	1210P / 1235P	Haig-Lindsay	78.0	104.	2.48	7.95	258.		.6	15	0	"
257	7-24	1215P / 105P	Haig	81.0	118.	2.25	8.09	265.		.6	15	0	FC 33
258	7-31	1050A / 1100A	"	83.0	119.	2.31	8.10	276.		.6	18	0	"
259	8-7	1125A / 1150A	Lindsay	80.0	97.6	2.32	8.01	227.		.6	16	0	FC 28
260	8-12	350P / 400P	"	14.0	13.5	0.82	---	11.4		.6	8	--	"
261	8-13	1048A / 1055A	"	9.5	8.90	0.60	---	5.3		.6	5	--	"
262	8-14	425P / 430P	"	8.5	6.18	0.40	---	2.5		.6	5	--	"
263	8-18	900A / 917A	"	76.0	80.1	1.92	7.64	154.		.6	11	0	"
264	8-21	500A / 515A	"	77.0	88.7	1.82	7.71	161.		.6	10	0	"
265	8-25	920A / 938A	"	80.0	106.	1.87	7.94	198.		.6	11	0	"
266	9-4	1010A / 1030A	"	78.0	97.7	1.94	7.82	190.		.6	11	0	"
267	9-11	222P / 235P	"	20.0	34.8	0.72	---	25.2		.6	8	--	"
268	9-18	1050A / 1058A	Haig	7.0	5.70	0.42	---	2.4		.6	6	---	"
269	9-25	1125A / 1126A	"	0.7	0.21	0.57	---	0.12		.6	3	---	FC 37

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

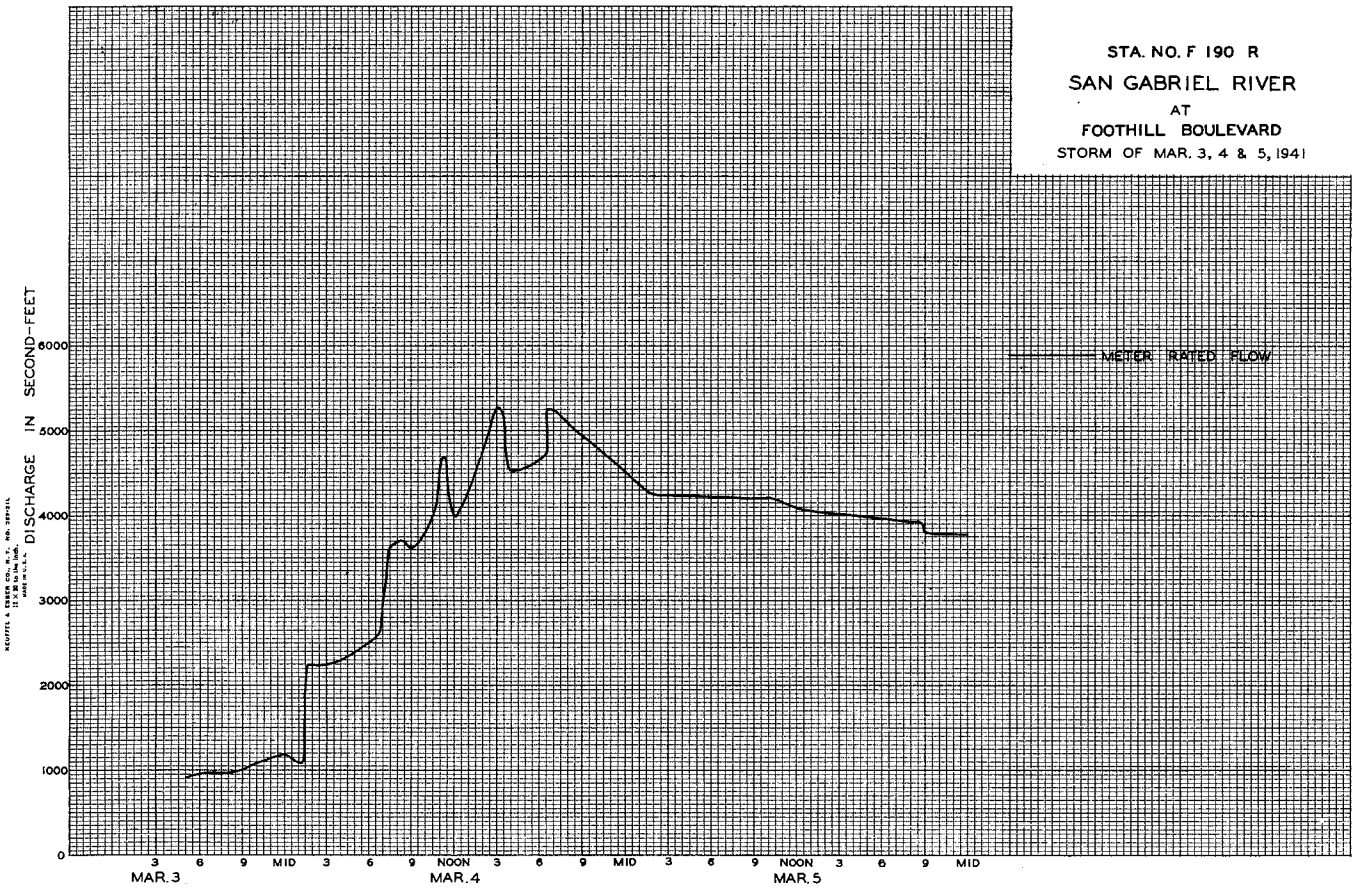
Sta. No F190R

Daily discharge, in second-feet of SAN GABRIEL RIVER at Foothill Boulevard, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	1.5	10	388	601	978	290	283	264	196
2	0	0	0	1.0	10	461	590	1260	290	283	257	194
3	0	0	0	0	11	419	578	1370	290	283	254	192
4	0	0	0	2.6	11	3820E	504	1290	290	283	251	192
5	0	0	0	4.0	11	4090	175	663	290	287	248	103
6	0	0	0	3.8	20	3650	239	645	290	274	245	25
7	0	0	0	3.3	16	3400	464	638	290	233	233	25
8	0	0	0	3.3	14	2520	520	638	290	245	233	25
9	0	0	0	2.9	14	1820	561	632	287	245	233	25
10	0	0	0	3.6	13	1280	875	632	287	245	233	25
11	0	0	0.3	3.3	37	1000	1160	632	287	251	187	E 25
12	0	0	0.7	3.1	34	1090	1310	632	287	251	E 11	4.2
13	0	0	0.5	3.3	25	2120	1360	632	287	257	E 11	3.9
14	0	0	0.4	4.0	29	3210	1400	575	287	260	E 11	3.6
15	0	0	0.6	3.8	54	2610	1230	669	290	260	34	3.3
16	0	0	0.8	4.2	62	2030	101	764	280	260	154	3.0
17	0	0	17	4.0	67	1390	605	757	283	260	154	2.7
18	0	0	0.1	3.3	51	970	E 734	737	308	260	155	E 2.4
19	0	0	+	3.3	146	734	736	165	311	260	157	1 2.0
20	0	0	0.1	3.6	469	143	736	57	308	260	1 160	1.7
21	0	0	0.1	4.2	396	909	736	E 39	304	264	1 163	1.4
22	0	0	+	6	1000	857	730	38	304	267	172	1.0
23	0	0	17	5.5	E 741	785	723	38	301	267	181	0.7
24	0	0	41	24	E 129	778	723	38	301	267	190	1 0.4
25	0	0	11	14	465	757	607	38	301	267	198	E 0.1
26	0	0	3.6	12	572	757	584	E 148	294	267	E 198	1 0.1
27	0	0	1.2	10	550	696	584	178	290	270	199	0.1
28	0	0	0.3	9.5	495	531	584	284	290	277	199	0
29	0	0	1.8	9.5		349	584	301	287	277	199	0
30	0	0	1.0	9.5		555	525	294	283	280	196	1 0
31	0		3.9	9.5		578		290		277	199	
	0		101.4		5452		20859		8777		5579	
		0		175.6		44697		16052		8220		1057.6
Mean	0	0	3.27	5.66	195.	1442.	695.	518.	293.	265.	180.	35.3
Acre Feet	0	0	201.	348.	10810.	88660.	41370.	31840.	17410.	16300.	11070.	2100.

Remarks: E = estimated. 1 = interpolatrd. + = 0.05 c.f.s. or less.

Year or Period Mean 304.
Acre Feet 220100.



STATION F261R

SAN GABRIEL RIVER near Elliot Avenue

LOCATION:

On the left (east) bank 200 feet downstream from the extension of Elliot Avenue, approximately 2 miles southeast of El Monte.

DRAINAGE AREA:

Indeterminate on account of a natural split near Arrow Highway which divides the San Gabriel River into 2 branches; the west branch known as the Rio Hondo flows into the Los Angeles River; the east branch retains the name San Gabriel River.

CHANNEL AND CONTROL:

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

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed March 11, 1937 over a 21 inch diameter corrugated iron pipe well. A horizontal Lietz recorder was in service from October 1, 1940 to August 27, 1941.

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.

DIVERSIONS:

Water diverted for irrigation and spreading. Pasadena diverts water for domestic use.

RECORDS AVAILABLE:

March 11, 1937 to September 30, 1941.

EXTREMES OF DISCHARGE:

Not determined.

ACCURACY:

Poor.
Flow frequently estimated by comparison and extrapolation or interpolated between measurements due to extreme channel and control shifts and insufficient high flow measurements. Flow estimated following August 27.

OPERATION:

Located and operated by the Los Angeles County Flood Control District in cooperation 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. F261R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

NEAR Elliot Avenue DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
134	10-31	206P / 213P	Lindsay	3.5	0.71	0.34	3.74	0.24		.6	5	0	FC 28
135	12-19	116P / 121P	"	2.5	1.38	0.35	3.76	0.48		.6	5	0	"
136	12-26	408P / 412P	Lindsay & Thompson	4.0	0.72	0.83	3.53	0.60		.6	5	0	"
137	1-2	112P / 120P	Lindsay	3.9	0.57	0.79	3.53	0.45		.6	7	0	"
138	1-16	158P / 204P	"	4.0	0.57	0.79	3.51	0.45		.6	6	0	FC 28
139	1-23	205P / 210P	Brewster	3.0	0.52	0.83	3.52	0.43		.6	3	0	FC 24
140	1-30	324P / 330P	"	4.0	0.76	0.78	3.56	0.59		.6	4	0	"
141	2-6	824A / 830A	Brewster-Smith	4.0	0.90	0.89	3.56	0.78		.6	4	0	"
142	2-13	245P / 255P	Brewster	6.0	2.20	1.14	3.60	2.5		.6	4	0	"
143	2-25	140P / 153P	Lindsay	42.0	29.6	3.78	4.90	112.		.6	12	+.01	FC 28
144	2-27	212P / 225P	"	33.0	29.2	3.28	4.92	95.9		.6	11	0	"
145	3-17	325P / 336P	Haig	57.0	38.1	3.33	4.99	127.		.6	10	-.02	FC 33
146	3-18	315P / 325P	"	51.0	42.4	2.41	4.92	102.		.6	11	+.01	"
147	3-19	523P / 545P	Ingram	57.0	46.3	2.27	5.10	105.		.6	14	+.01	FC 18
148	3-20	125P / 135P	Brewster	10.0	2.52	0.91	4.46	2.3		.6	5	0	FC 24
149	3-21	358P / 415P	Ingram	50.5	43.8	3.04	5.22	133.		.6	13	+.01	FC 18
150	3-24	550P / 609P	"	58.0	46.2	2.16	5.28	100.		.6	12	0	"
151	3-27	125P / 143P	Brewster	58.0	38.2	2.74	5.28	105.		.6	12	0	FC 24
152	3-28	435P / 455P	Ingram	57.0	42.2	2.32	5.28	98.0		.6	12	+.03	FC 18
153	3-29	345P / 351P	Brewster-Smith	10.0	2.52	1.23	4.65	3.1		.6	1	0	FC 24
154	4-2	318P / 340P	Ingram	50.0	44.6	2.87	5.24	128.		.6	12	+.04	FC 18
155	4-3	100P / 120P	Brewster	53.0	42.8	3.08	5.28	132.		.6	13	+.01	FC 24
156	4-6	404P / 417P	Ingram	49.0	27.8	1.60	5.00	44.5		.6	9	-.01	FC 18
157	4-7	200P / 218P	Lindsey	59.0	34.8	2.78	5.22	96.6		.6	12	0	FC 28
158	4-9	314P / 330P	Ingram	56.0	36.6	3.61	5.20	132.		.6	12	0	FC 18
159	4-10	1218P / 1235P	Lindsay	58.0	49.5	4.46	5.33	221.		.6	12	0	FC 28
160	4-12	235P / 250P	Lindsay-Keim	56.0	93.4	5.88	5.54	549.		.6	9	0	"
161	4-15	307P / 320P	Lindsay-Ingram	98.0	126.	4.87	5.40	613.		.6	16	0	"
162	4-17	135P / 145P	Lindsay & Brewster	48.0	53.1	4.39	4.70	233.		.6	9	0	FC 24
163	4-18	900A / 915A	Ingram	52.0	60.1	5.22	5.00	314.		.6	10	0	FC 18
164	4-24	200P / 220P	Brewster	53.0	69.3	4.54	4.99	315.		.6	9	0	FC 24
165	4-28	338P / 352P	Lindsay	53.0	63.9	3.63	4.68	232.		.6	11	0	FC 28
166	5-1	110P / 130P	Brewster	53.0	84.4	4.32	4.60	365.		.6	8	0	FC 24
167	5-2	1210P / 1230P	Lindsay	77.0	93.4	5.36	5.11	501.		.6	11	+.02	FC 28
168	5-8	1150A / 1210P	Brewster	51.0	60.2	4.04	4.49	243.		.6	9	0	FC 24
169	5-15	200P / 220P	"	50.0	71.6	3.39	4.18	243.		.6	9	0	"
170	5-22	340P / 350P	"	12.0	3.82	1.15	2.72	4.4		.6	4	0	"
171	5-27	430P / 445P	"	38.0	22.0	1.64	3.04	35.8		.6	7	0	"
172	5-28	105P / 125P	Lindsay	Two Channels			3.40	84.0		.6	13	0	FC 28
173	6-5	140P / 157P	"	"	"		3.40	86.1		.6	14	0	"
174	6-5	420P / 440P	Brewster	46.0	39.0	2.38	3.40	93.2		.6	12	0	FC 24
175	6-12	320P / 340P	"	46.0	38.2	2.38	3.38	90.9		.6	9	0	"
176	6-13	226P / 240P	Lindsay	27.0	22.3	2.78	3.24	67.4		.6	9	0	FC 28
177	6-19	240P / 300P	Brewster	42.0	30.9	1.88	3.18	57.6		.6	8	0	FC 24
178	6-26	340P / 400P	"	48.0	24.2	1.61	3.10	39.0		.6	9	0	"
179	7-3	145P / 200P	"	40.0	24.6	1.30	3.09	32.2		.6	7	0	"
180	7-7	1225P / 1235P	Lindsay	20.5	9.79	1.34	2.80	17.1		.6	7	0	FC 28
181	7-8	1012A / 1020A	"	12.0	3.89	0.75	2.80	6.9		.6	6	0	"
182	7-10	240P / 250P	Brewster	11.0	4.06	0.86	2.80	3.5		.6	4	0	FC 24
183	7-17	255P / 305P	"	14.0	4.10	0.78	2.82	3.2		.6	4	0	"
184	7-24	220P / 230P	"	14.0	4.80	0.75	2.84	3.6		.6	4	0	"
185	7-31	200P / 212P	"	14.0	4.36	0.69	2.82	3.0		.6	5	0	"
186	8-7	240P / 250P	"	15.0	4.48	0.80	2.82	3.6		.6	5	0	"
187	8-14	1240P / 1250P	Lindsay	10.0	2.76	0.80	2.82	2.2		.6	10	0	FC 28
188	8-21	137P / 145P	"	13.0	2.84	0.85	2.83	2.4		.6	6	0	"

F.C. Dist. Form 51 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No F261R

Daily discharge, in second-feet of SAN GABRIEL RIVER near Elliot Avenue, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.5	0.2	0.3	0.5	0.6	153	197	390	88	33	3.5	E 2.4
2	0.5	0.2	0.3	0.4	0.7	54	153	472	89	32	3.7	2.4
3	0.5	0.2	0.3	0.4	0.7	38	120	508	91	31	3.7	2.4
4	0.5	0.3	0.3	0.4	0.8	1300 E	90	482	92	33	4.3	2.4
5	0.4	0.3	0.3	0.4	0.8	840	41	255	92	33	4.1	2.4
6	0.4	0.3	0.3	0.4	0.8	600	28	245	94	29	4.3	2.5
7	0.3	0.3	0.3	0.3	0.9	600	67	240	94	E 16	3.9	2.5
8	0.3	0.3	0.3	0.3	1.0	730	112	240	96	8	3.7	2.5
9	0.2	0.3	0.3	0.3	1.1	285	132	238	96	4.6	3.5	2.5
10	0.2	0.3	0.3	0.3	1.1	190	202	248	94	E 3.5	3.7	2.5
11	0.2	0.3	0.3	0.3	2.7	90 E	344	243	94	3.5	3.9	2.5
12	0.2	0.3	0.3	0.4	2.9	205	580	234	89	3.2	2.8	2.5
13	0.2	0.3	0.3	0.4	2.5	510	498	231	72	3.7	2.4	2.5
14	0.2	0.3	0.3	0.4	14	590	617	236	74	3.7	2.3	2.5
15	0.2	0.3	0.3	0.4	37	433	605	250	72	3.9	2.4	2.5
16	0.2	0.3	0.4	0.4	3.0	354	284	280	70	3.7	2.6	2.6
17	0.2	0.3	11	0.4	3.9	240	231	260	58	3.5	2.4	2.6
18	0.2	0.3	1.7	0.4	5.5	111	304	250	63	3.2	2.4	2.6
19	0.2	0.3	0.5	0.5	67	89	323	88	60	3.2	2.4	2.6
20	0.2	0.3	0.5	0.5	E 410	31	323	E 4.8	57	3.2	2.4	2.6
21	0.2	0.3	0.5	0.5	135	85	323	4.3	53	3.2	2.4	2.6
22	0.2	0.3	0.5	0.5	360	102	323	.4.3	49	3.2	E 2.4	2.7
23	0.2	0.3	105	E 0.4	115	96	323	4.3	47	3.2	2.4	2.7
24	0.2	0.3	157	2.2	20	86	320	4.3	44	3.7	2.4	2.7
25	0.2	0.3	0.6	0.7	100	86	294	E 4.3	43	3.9	2.4	2.7
26	0.3	0.3	0.6	0.6	E 150	96	274	24	42	4.1	2.4	2.8
27	0.3	0.3	0.6	0.6	87	99	E 245	36	42	3.9	2.4	2.8
28	0.3	0.3	0.6	0.6	128	81	236	74	39	3.7	2.4	2.8
29	0.2	0.3	0.5	0.6		56	267	91	39	3.2	2.4	2.8
30	0.2	0.3	0.5	0.6		110	E 312	89	38	3.0	E 2.4	E 2.8
31	0.2		0.5	0.6		138		86		3.0	E 2.4	
	8.3		2855		1652.0		8168		2071		90.8	
		8.7		15.7		8478		5816.3		296.0		77.4
MEAN	0.27	0.29	9.21	0.51	59.0	273.	272.	188.	69.0	9.55	2.93	2.58
ACRE-FEET	16.	17.	566.	31.	3280.	16820.	16200.	11540.	4110.	587.	180.	154.

Remarks: E = estimated.

YEAR OR PERIOD MEAN 73.9 ACRE FEET 53500.

STATION F263R

SAN GABRIEL RIVER at Beverly Boulevard

LOCATION:

On the downstream side of the Beverly Boulevard bridge approximately 3/4 mile northeast of Pico.

DRAINAGE AREA:

Indeterminate due to a natural split near Arrow Highway which divides the San Gabriel River into 2 branches; the west branch known as the Rio Hondo flows into the Los Angeles River; the east branch retains the name San Gabriel River.

CHANNEL AND CONTROL:

Channel-sand and silt.
No artificial control.

DISCHARGE MEASUREMENTS:

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, 1940 to September 30, 1941.

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.

DIVERSIONS:

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

RECORDS AVAILABLE:

February 4, 1937 to September 30, 1941.
(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:

1940-1941
Maximum 5830 second-feet, March 4.
Minimum no flow at various times.
1936-1941
Maximum 22700 second-feet, estimated, March 2, 1938.
Minimum no flow for several months.
(For earlier years see Station F63R.)

ACCURACY:

Poor.
Flow occasionally estimated by comparison due to extreme channel and control shift making stage discharge relation inconsistent.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F263R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

at Beverly Boulevard

DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
209	10-31	1230P 1250P	Brewster	Two Channels			4.49	25.7		.6	10	0	FC 24
210	11-7	1215P 1230P	"	42.0	12.6	1.20	4.47	15.1		.6	7	0	"
211	11-14	120P 140P	"	45.0	14.5	1.12	4.48	16.3		.6	6	0	"
212	11-20	1135A 1150A	"	55.0	21.7	1.16	4.52	25.2		.6	7	0	"
213	11-28	1135A 1150A	"	51.0	16.4	1.21	4.46	19.9		.6	7	0	"
214	12-16	355P 405P	Hall-Haig	52.0	10.5	0.89	4.44	9.3		.6	10	0	FC 33
215	12-19	1205P 1225P	Brewster	68.0	28.2	1.26	4.61	36.4		.6	8	0	FC 24
216	12-23	234P 355P	Linden-Wallace	215.0	247.	4.89	5.52	1210.		.6	17	-.09	FC 23
217	12-24	200P 245P	Wallace-Linden	Two Channels			5.62	1440.		.6	15	-.09	"
218	12-26	1135A 1155A	Brewster	63.0	32.0	1.58	4.28	50.8		.6	9	0	FC 24
219	1-2	1205P 1225P	"	79.0	31.1	1.62	4.21	50.5		.6	9	0	"
220	1-9	1142A 1159A	"	57.0	28.8	1.64	4.28	47.4		.6	7	+.01	"
221	1-16	1207P 1226P	"	59.0	26.8	1.71	4.27	45.6		.6	8	0	"
222	1-23	1130A 1150A	Brewster	77.0	29.3	1.49	4.36	43.8		.6	10	0	FC 24
223	1-24	610A 638A	Haig-Trentham	157.0	164.	3.19	4.92	525.		.6	10	+.12	FC 33
224	1-24	1105A 1127A	" "	137.0	143.	4.01	5.00	575.		.6	14	-.04	"
225	1-24	308P 330P	Brewster-Smith	142.0	97.6	2.51	4.70	245.		.6	15	-.03	FC 24
226	1-30	1228P 1249P	Brewster	93.0	33.9	1.40	4.33	47.6		.6	11	0	"
227	2-6	940A 1000A	Brewster-Smith	130.0	72.4	1.56	4.50	113.		.6	14	+.01	"
228	2-13	1210P 1230P	Brewster	80.0	36.8	1.44	4.40	53.1		.6	10	0	"
229	2-14	752P 835P	Linden-Wallace	192.0	216.	3.63	5.28	784.		.6	14	-.07 +.04	FC 23
230	2-15	1250P 120P	Brewster-Smith	138.0	86.8	1.53	4.56	133.		.6	15	+.02	FC 24
231	2-17	1250A 107A	Haig-Trentham	149.5	113.	1.84	4.64	207.		.6	10	-.01	FC 33
232	2-17	830A 850A	Brewster-Smith	172.0	128.	2.12	4.98	272.		.6	18	+.15	FC 24
233	2-20	111A 149A	Linden-Wallace	Three Channels			5.59	1590.		.6	18	-.22	FC 23
234	2-20	1016A 1047A	Wallace-Linden	Two "			5.74	2030.		.6	17	+.08	"
235	2-21	951P 1015P	Jordan & Thomsen	193.0	320.	6.98	5.72	1920.		.6	9	+.03	FC 21
236	2-22	133A 157A	Wallace-Linden	Two Channels			5.83	2210.		.6	16	-.07	FC 23
237	2-22	418A 433A	Linden-Wallace	154.0	238.	5.39	5.38	1280.		.6	9	+.03	"
238	2-22	240P 300P	Brewster-Smith	100.0	107.	3.95	4.73	424.		.6	11	+.02	FC 24
239	2-24	1050A 1110A	Brewster	110.0	71.6	1.94	4.40	139.		.6	12	+.02	"
240	2-28	1050A 1110A	"	112.0	68.2	1.68	4.43	115.		.6	13	0	"
241	2-28	1106P 1146P	Linden-Wallace	Two Channels			6.09	3310.		.6	23	-.27	FC 23
242	3-1	526A 538A	Wallace-Linden	125.0	148.	4.93	4.88	730.		.6	7	-.01	"
243	3-1	1255P 115P	Brewster-Smith	127.0	171.	5.23	4.95	895.		.6	14	-.02	FC 24
244	3-2	230P 248P	Wallace-Linden	77.0	96.0	3.96	4.55	380.		.6	11	0	FC 23
245	3-4	300A 346A	Linden-Wallace	Two Channels			6.09	3310.		.6	19	+.09 -.19	"
246	3-4	1133P 1157P	Wallace-Linden	Three "			6.18	4360.		.6	20	-.15	"
247	3-5	142A 215A	Linden-Wallace	Two "			5.88	3270.		.6	18	-.15	"
248	3-6	325P 345P	Brewster-Smith	130.0	163.	4.63	4.83	755.		.6	13	0	FC 24
249	3-12	335P 405P	" "	165.0	138.	3.79	4.76	523.		.6	17	0	"
250	3-12	841P 855P	Wallace-Linden	Two Channels			6.03	3000.		.6	15	-.06	FC 23
251	3-13	526A 550A	" "	"	"		6.34	3930.		.6	16	-.42	"
252	3-20	315P 340P	Brewster	"	"		4.28	87.6		.6	13	0	FC 24
254	3-27	1220P 1245P	"	"	"		4.51	183.		.6	16	0	"
255	3-29	300P 325P	Brewster-Smith	140.0	72.6	2.02	4.47	147.		.6	14	0	"
256	4-1	219A 232A	Wallace-Linden	183.0	234.	5.43	5.20	1270.		.6	10	-.04	FC 23
257	4-1	243A 255A	Wallace-Linden	182.0	235.	5.33	5.17	1260.		.6	10	+.03	FC 23
258	4-3	1205P 1225P	Brewster	100.0	90.0	2.37	4.55	214.		.6	10	0	FC 24
260	4-15	145P 220P	Lindsay-Ingram	180.0	159.	4.62	4.90	734.		.6	17	+.03 -.03	FC 28
261	4-17	813A 830A	Brewster	87.0	58.5	2.53	4.53	148.		.6	10	+.07	FC 24
262	4-17	1252P 127P	Ingram	Two Channels			4.68	342.		.6	20	+.03	FC 18
263	4-18	1010A 1045A	"	"	"		4.75	400.		.6	23	+.06	"
264	4-24	1150A 1220P	Brewster	185.0	137.	2.94	4.75	402.		.6	19	0	FC 24
265	5-1	1120A 1150A	"	180.0	161.	2.83	5.10	435.		.6	18	-.03	"
266	5-8	1025A 1050A	"	131.0	118.	2.80	5.10	331.		.6	14	+.03	"
267	5-15	1202P 1230P	"	114.0	114.	2.65	5.12	302.		.6	13	+.01	"
268	5-22	1205P 1220P	"	56.0	27.6	1.49	4.31	41.4		.6	7	0	"
269	5-27	100P 115P	"	86.0	39.4	1.47	4.42	58.2		.6	10	0	"
270	6-5	1210P 1240P	"	162.0	72.6	1.47	4.66	107.		.6	17	-.01	"
271	6-12	1205P 1235P	"	152.0	67.2	1.58	4.65	106.		.6	16	0	"
272	6-19	1130A 1156A	"	144.0	52.7	1.31	4.56	69.2		.6	15	0	"
273	6-26	1210P 1240P	"	148.0	50.2	1.19	4.50	59.8		.6	16	0	"
274	7-3	1124A 1150A	"	Two Channels			4.48	53.6		.6	15	0	"
275	7-8	410P 425P	"	"	"		4.39	26.9		.6	9	0	FC 43
276	7-10	1210P 1230P	"	"	"		4.38	27.3		.6	10	0	FC 24
277	8-28	107P 115P	"	18.0	6.80	1.15	4.30	7.8		.6	5	0	"
278	9-4	1240P 1250P	"	18.0	4.74	1.05	4.31	5.0		.6	5	0	"
279	9-11	1235P 1251P	"	Two Channels			4.35	7.8		.6	9	0	"
280	9-18	1230P 1245P	"	"	"		4.38	13.3		.6	10	0	"
281	9-25	1245P 105P	"	"	"		4.40	14.0		.6	10	0	FC 12

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

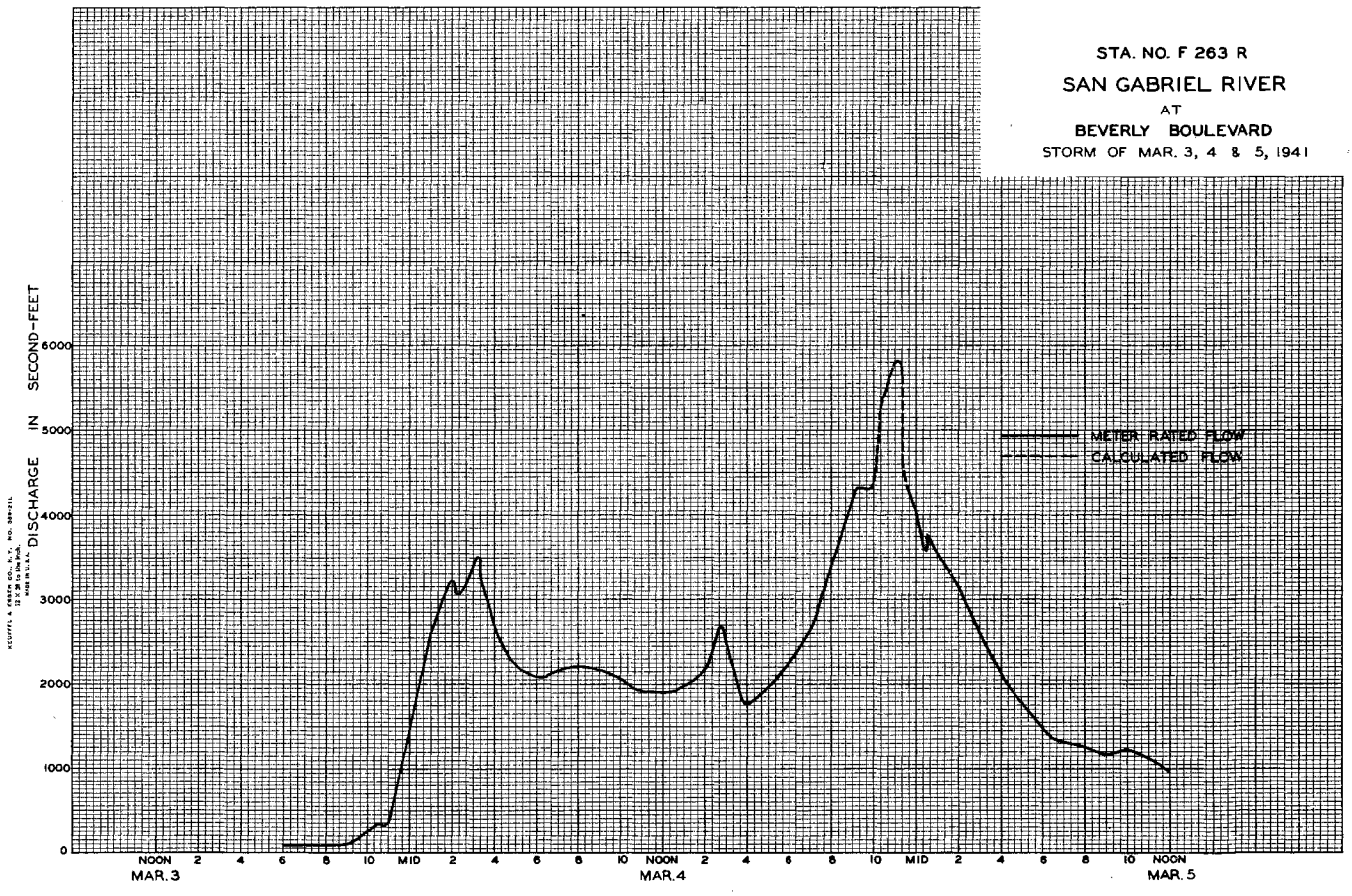
Sta. No F263R

Daily discharge, in second-feet of SAN GABRIEL RIVER at Beverly Boulevard, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	23	E 1.0	57	64	946	582	504	118	49	0	10
2	0	18	0.5	57	48	624	390	545	108	46	0	11
3	0	18	0	60	43	165	202	552	100	42	0.6	11
4	0	17	0	57	57	2700	218	595	100	42	0.4	7
5	0	17	0	60	64	1410	169	342	108	49	+	4.5
6	0	15	0	54	80	709	132	342	100	49	+	6
7	0	15	0	43	80	702	180	342	100	46	+	14
8	0	15	0	40	73	821	218	336	108	30	0.6	11
9	0	15	0	48	67	370	240	323	104	23	2.0	7
10	0	18	0	54	57	276	315	310	113	18	3.1	7
11	0	20	0	57	73	166	495	310	100	3.5	3.8	8.5
12	0	18	0	51	67	740	638	316	104	11	3.1	7
13	0	20	0	45	54	1450	615	310	70	2.1	2.0	10
14	0	18	0	45	187	1460	684	272	70	0	0.7	8.5
15	0	15	0	43	282	841	702	278	86	2.7	0.3	8.5
16	0	17	5	45	158	554	E 350	323	86	0.4	1.4	13
17	0	17	71	54	196	i 417	E 280	297	77	0	1.7	17
18	0	23	35	51	84	i 280	368	278	86	0	1.3	15
19	0	25	37	45	302	143	392	E 107	70	0	0.4	17
20	0	25	25	36	1310	90	380	E 46	63	0	0.2	18
21	0	25	23	36	738	176	418	E 42	74	0	1.4	20
22	0	28	23	48	813	202	445	42	82	0	2.8	13
23	0	25	541	40	214	188	495	49	70	0	2.0	13
24	0	23	641	304	245	188	455	60	66	0	2.0	15
25	0	30	84	60	215	202	418	42	60	0	1.2	14
26	37	25	54	51	227	195	368	37	60	0	3.4	14
27	35	25	43	54	174	175	380	60	60	0	4.2	15
28	28	17	48	51	903	203	392	86	66	0	7	17
29	32	E 1.0	54	54		231	380	95	66	0	7	28
30	28	E 1.0	57	51		180	334	100	60	0	6	28
31	25		57	51		319		113		0	11	
	185		1799.5		6875		11635		2535		69.6	
		569.0		1802		17123		7454		413.7		388.0
MEAN	5.97	19.0	58.0	58.1	246.	552.	388.	240.	84.5	13.3	2.25	12.9
ACRE-FEET	367.	1130.	3570.	3570.	13640.	33960.	23080.	14780.	5030.	821.	138.	770.

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

YEAR OR PERIOD — MEAN 139. — ACRE-FEET 100900.



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:

Indeterminate due to a natural split near Arrow Highway which divides the San Gabriel River into two branches; the west branch known as the Rio Hondo, flows into the Los Angeles River; the east branch retains the name San Gabriel River.

CHANNEL AND CONTROL:

Shifting sand 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, 1940 to September 30, 1941.

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.

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, 1941. 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:

1940-1941
Maximum 5630 second-feet, March 4.
Minimum no flow at various times.
1937-1941
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 cooperation with the San Gabriel Valley Protective Association.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F262-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT Florence Avenue DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
140	12-19	939A 945A	Bonadiman & Walton	14.0	10.8	0.60	1.89	6.5		.6	7	-.02	FC 40
141	12-23	115P 158P	Jordan & Thomsen	Two Channels			3.34	1100.		.6	18	+.05	FC 21
142	12-24	341P 356P	Bonadiman & Walton	148.0	204.	5.48	2.97	1110.		.6	9	-.15	FC 40
143	12-25	731A 733A	" "	15.0	5.26	0.80	1.57	4.2		.6	4	0	"
144	1-24	1011A 1026A	" "	Two Channels			2.64	652.		.6	12	+.04	"
145	1-25	952A 1002A	" "	11.0	3.01	0.78	1.65	2.4		.6	3	0	"
146	2-6	545P 558P	"	25.0	5.14	1.29	1.72	6.7		.6	6	0	"
147	2-15	856A 910A	" "	45.0	19.0	3.11	2.03	59.1		.6	8	-.02	"
148	2-15	616P 632P	" "	Two Channels			2.75	434.		.6	10	-.02	"
149	2-16	940A 950A	" "	32.0	21.6	1.71	1.94	37.5		.6	7	0	"
150	2-17	912A 924A	Walton & Bonadiman	41.0	17.9	1.62	2.10	28.6		.6	9	-.01	"
151	2-18	953A 1002A	Bonadiman & Walton	31.0	15.8	1.08	2.08	16.5		.6	6	0	"
152	2-20	313P 347P	Jordan & Thomsen	206.0	385.	5.08	3.60	2250.		.6	16	-.15	FC 21
153	2-21	315P 330P	Bonadiman & Walton	170.0	100.	3.99	2.65	399.		.6	11	-.04	FC 40
154	2-23	940A 957A	" "	60.0	33.0	2.25	2.37	73.5		.6	11	-.02	"
155	2-24	421P 436P	" "	Two Channels			2.51	371.		.6	10	0	"
156	2-25	907A 916A	Bonadiman	22.0	9.88	1.92	2.28	19.0		.6	7	0	"
157	2-27	321P 332P	"	40.0	20.9	1.82	2.31	37.9		.6	6	0	"
158	3-1	406P 423P	Bonadiman & Walton	99.5	112.	4.69	2.62	525.		.6	7	0	"
159	3-2	943A 1002A	" "	Three Channels			2.84	623.		.6	12	-.04	"
160	3-3	919A 940A	" "	" "			2.23	37.7		.6	14	-.02	"
161	3-4	1206P 1239P	" "	204.8	371.	5.04	3.44	1870.		.6	14	-.16	"
162	3-5	1032A 1050A	Bonadiman & Walton	128.0	29.2	4.44	3.18	1520.		.6	8	+.17	FC 40
163	3-6	826A 846A	" "	Two Channels			3.08	741.		.6	12	-.02	"
164	3-10	818A 835A	Bonadiman	" "			2.71	187.		.6	7	+.02	"
165	3-11	1100A 1110A	Brewster	34.0	13.5	1.26	---	17.0		.6	5	---	FC 24
166	3-12	940P 1015P	Jordan & Thomsen	207.0	372.	5.87	4.04	2510.		.6	11	-.18	FC 21
167	3-14	331P 355P	Walton & Bonadiman	206.2	359.	4.70	3.40	1690.		.6	10	+.03	FC 40
168	3-15	727A 745A	" "	Two Channels			3.27	963.		.6	10	0	"
169	3-17	711A 730A	Bonadiman	" "			3.05	510.		.6	10	-.02	"
170	3-18	729A 742A	"	57.4	77.3	3.22	2.17	249.		.6	4	-.02	"
171	3-19	1255P 107P	"	57.0	41.6	2.67	2.11	111.		.6	4	0	"
172	3-24	1115A 1139A	"	Two Channels			2.45	102.		.6	12	0	"
173	3-27	1016A 1040A	"	" "			2.28	14.2		.6	9	0	"
174	3-28	800A 815A	"	" "			2.31	15.3		.6	10	0	"
175	3-29	131A 140A	Bonadiman & Walton	50.0	43.0	2.05	2.52	88.3		.6	4	-.01	"
176	3-39	730A 750A	" "	Two Channels			2.59	127.		.6	11	0	"
177	3-30	805A 814A	" "	" "			2.59	47.6		.6	14	0	"
178	3-31	810A 827A	Bonadiman	" "			2.56	62.9		.6	12	0	"
179	3-31	1106A 1138A	"	" "			2.91	370.		.6	13	-.16	"
180	3-31	533P 547P	Bonadiman & Walton	213.0	180.	3.65	3.09	656.		.6	12	0	"
181	4-1	816A 841A	" "	Two Channels			2.96	654.		.6	11	-.01	"
182	4-2	820A 845A	" "	" "			2.94	853.		.6	10	0	"
183	4-3	1048A 1100A	Bonadiman	93.0	71.0	2.11	2.61	150.		.6	7	0	"
184	4-5	410A 425A	Bonadiman & Walton	101.0	80.7	3.40	2.66	274.		.6	7	+.04	"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F262R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT Florence Avenue ...DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
185	4-5	1030A / 1045A	Bonadiman & Walton	84.4	52.1	2.19	2.54	114.		.6	6	-.01	FC 40
186	4-6	1038A / 1100A	Bonadiman	135.0	71.8	1.48	2.53	106.		.6	15	+.02	"
187	4-7	1006A / 1020A	"	41.0	31.6	1.49	2.40	46.8		.6	8	0	"
188	4-8	916A / 937A	"	Three Channels			2.46	78.4		.6	15	+.03	"
189	4-9	801A / 816A	"	101.0	70.0	2.20	2.49	154.		.6	9	0	"
190	4-10	1016A / 1032A	"	124.0	79.8	2.86	2.76	228.		.6	9	+.01	"
191	4-11	918A / 940A	Bonadiman & Walton	Two Channels			3.04	423.		.6	15	-.05	"
192	4-12	850A / 900A	" "	211.4	218.	3.06	3.19	667.		.6	16	+.01	"
193	4-13	900A / 916A	Bonadiman	213.0	208.	3.53	3.11	735.		.6	16	-.01	"
194	4-14	824A / 845A	"	Two Channels			3.10	824.		.6	16	0	"
195	4-15	751A / 815A	"	222.0	256.	3.54	3.14	905.		.6	17	0	"
196	4-16	940A / 1000A	"	81.0	112.	1.29	2.23	145.		.6	9	0	"
197	4-17	948A / 1002A	"	88.8	97.2	2.05	2.55	199.		.6	8	0	"
198	4-17	316P / 335P	Ingram	73.0	54.8	2.78	2.75	152.		.6	12	0	FC 18
199	4-18	428P / 442P	Lindsay & Jordan	88.0	71.2	3.68	2.96	262.		.6	13	+.03	---
200	4-21	1116A / 1215P	Bonadiman	Three Channels			3.01	372.		.6	17	-.02	FC 40
201	4-24	1023A / 1051A	"	"	"		3.07	355.		.6	14	-.01	"
202	4-26	140P / 210P	Ingram-Jordan	Two Channels			2.94	250.		.6	22	---	FC 18
203	4-30	238P / 305P	Bonadiman	Three Channels			3.07	319.		.6	14	+.02	FC 40
204	5-1	1038A / 1104A	"	Five Channels			3.14	524.		.6	17	0	"
205	5-3	742A / 817A	"	Four Channels			3.27	736.		.6	23	+.06	"
206	5-8	940A / 1004A	"	Three Channels			3.07	305.		.6	16	0	"
207	5-15	1101A / 1120A	"	Four Channels			3.12	295.		.6	19	+.02	"
208	5-20	1050A / 1108A	Bonadiman	Two Channels			2.64	29.7		.6	11	+.01	FC 40
209	5-22	1026A / 1034A	"	22.0	7.74	0.62	2.49	4.8		.6	6	0	"
210	5-29	956A / 948A	"	34.0	13.1	1.22	2.65	15.9		.6	8	0	"
211	6-5	1025A / 1045A	"	Three Channels			2.78	40.5		.6	17	0	"
212	6-5	235P / 320P	Ingram	Two Channels			2.78	46.6		.6	21		FC 2
213	6-9	335P / 355P	"	Three Channels			2.89	48.0		.6	15		"
214	6-11	340P / 405P	Ingram & Schlaberg	"	"		2.82	39.7		.6	20		"
215	6-12	135P / 205P	Bonadiman	Four Channels			2.78	38.2		.6	23	-.01	FC 40
216	6-19	943A / 955A	"	Two Channels			2.72	6.5		.6	9	0	"

F.C. Dist. Form 82 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

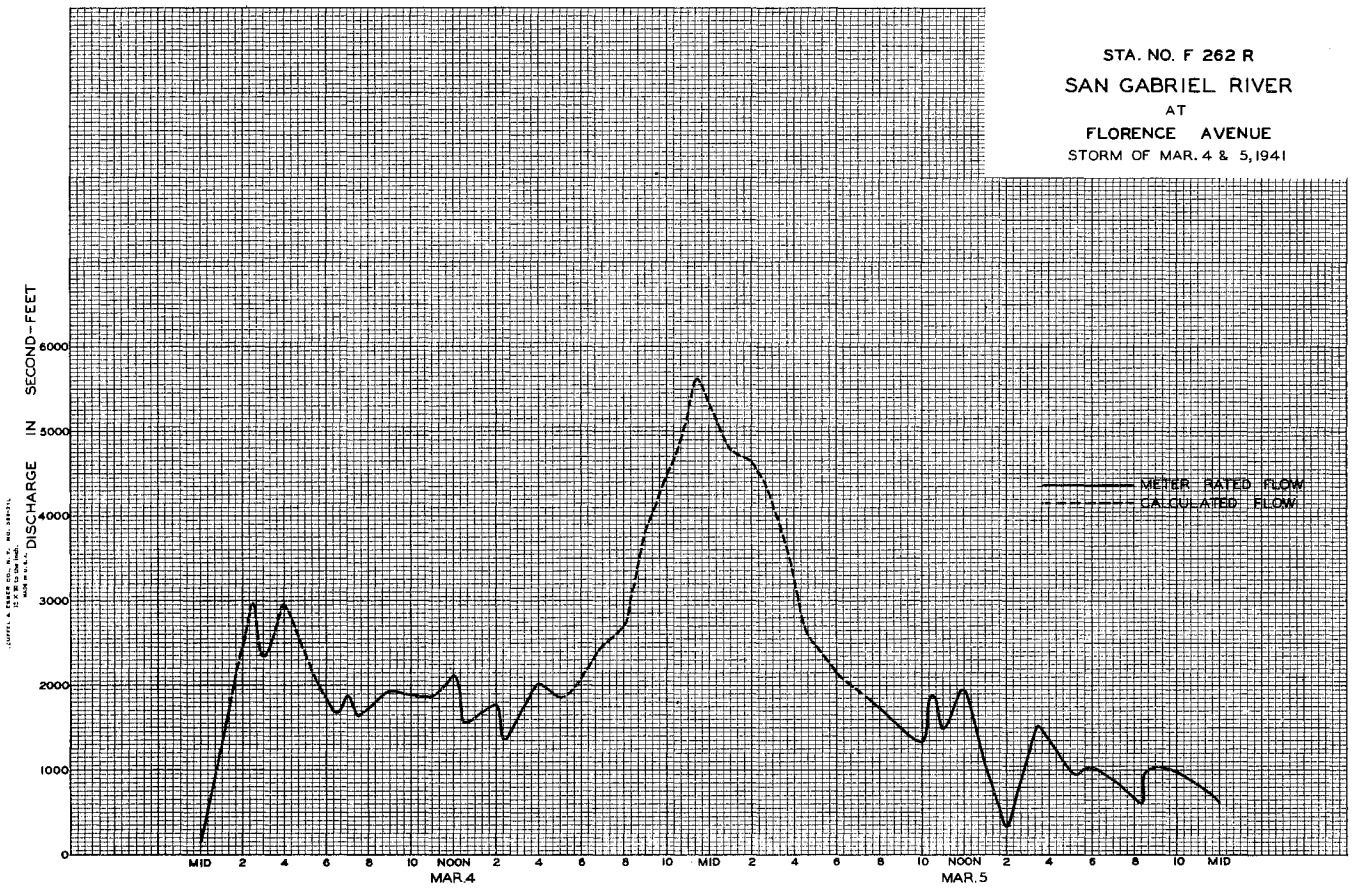
Sta. No. F262R

Daily discharge, in second-feet of SAN GABRIEL RIVER at Florence Avenue for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	E 928	619	555	50	0	0	0
2	0	0	+	0	0	425	E 350	615	58	0	0	0
3	0	0	0.4	0	0	43	E 150	698	43	0	0	0
4	+	0	0.6	0	0	2390	143	570	29	0	0	0
5	+	0	+	0	0	1869	111	330	48	0	0	0
6	+	0	+	0	23	698	84	330	48	0	0	0
7	0	0	+	0	+	856	71	320	55	0	0	0
8	0	0	0	0	0	664	84	310	53	0	0	0
9	0	0	0	0	0	E 280	154	330	55	0	0	0
10	+	0	0	0	0	E 181	270	320	53	0	0	0
11	+	0	0	0	0	E 167	501	290	45	0	+	0
12	0	0	0	0	0	E 651	600	330	43	0	0	0
13	+	0	0	0	0	1380	664	260	28	0	0	0
14	+	0	0	0	56	1830	780	310	20	0	0	0.7
15	0	0	+	0	E 109	892	856	310	23	0	0	0.6
16	0	0	+	0	E 43	398	207	310	20	0	0	0
17	0	0	13	0	E 67	379	146	270	6.5	0	0	0
18	+	0	1.3	0	14	E 249	280	300	8.5	0	0	0
19	+	0	2.9	0	82	111	344	174	5.5	0	0	0
20	+	0	0	0	1120	70	E 350	31	4.3	0	0	0
21	0	0	0	0	E 536	100	E 370	12	5.5	0	0	0
22	0	0	0	0	730	120	E 390	4.7	7.5	0	0	0
23	0	0	318	0	80	E 110	E 360	0	5	0	0	0
24	0	0	556	183	120	102	330	2.9	2.7	0	0	0
25	0	0	4.8	3.1	70	102	290	+	+	0	0	0
26	0	0	0	0	80	67	270	0	0	0	0	0
27	0	0	0	0	60	12	230	0	0	0	0	+
28	0	0	0	0	E 541	25	230	0	0	0	0	0
29	0	0	0	0		93	300	14	0	0	0	0
30	0	0	0	0		40	357	48	0	0	0	0
31	0		0	0		302		40		0	0	
	+	0	897.0	186.1	3710.3	15534	9891	7084.6	716.5	0	+	13
MEAN	+	0	28.9	6.00	133.	501.	330.	229.	23.9	0	+	+
ACRE-FEET	+	0	1780.	369.	7360.	30810.	19620.	14050.	1420.	0	+	2.6

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

YEAR OR PERIOD MEAN 105.
ACRE-FEET 75780.



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:

Indeterminate due to a natural split near Arrow Highway which divides the San Gabriel River into 2 branches; the west branch known as the Rio Hondo flows into the Los Angeles River; the east branch retains the name San Gabriel River.

CHANNEL AND CONTROL:

Channel-sand and silt over adobe with earth levees protected by wire mesh.
No artificial control.

DISCRARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from cat-walk on upstream side of bridge.

RECORDER:

Installed February 6, 1928 over a 21 inch diameter corrugated iron pipe stilling well. An Au continuous recorder in service October 1, 1940 to September 30, 1941.

REGULATION:

Flow partially regulated by San Gabriel Dam No. 1, San Gabriel Dam No. 2, Morris Dam, Big Dalton Dam, San Dimas Dam, Puddingstone Diversion Dam, Puddingstone Dam, Live Oak Dam and Thompson Creek Dam.

DIVERSION:

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

EXTREMES OF DISCHARGE:

1940-1941
Maximum 4830 second-feet, March 13.
Minimum no flow most of year.

1927-1941
Maximum 27000 second-feet, estimated March 2, 1938.
Minimum no flow most of each year.

RECORDS AVAILABLE:

February 6, 1928 to September 30, 1941.
(For periods prior to February, 1928 see State Division of Water Rights Bulletins)

ACCURACY:

Fair
Low flows occasionally estimated 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 41

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.
103	12-23	436P / 447P	Bonadiman & Walton	121.0	212.	4.18	6.65	889.		.6	7	+.15	FC 40
104	12-23	856P / 910P	" "	110.0	90.3	2.95	5.62	266.	Sur.	.6	9	-.06	"
105	12-24	1115A / 1124A	" "	32.0	21.6	1.63	4.67	35.2		.6	6	+.02	"
106	12-24	1236P / 1248P	" "	107.5	158.	3.94	6.24	622.		.6	9	+.13	"
107	12-24	536P / 555P	" "	109.0	187.	4.89	6.64	914.		.6	9	-.09	"
108	12-25	802A / 805A	" "	12.0	14.4	1.13	5.04	16.3		.6	3	0	"
109	1-24	152P / 212P	" "	106.5	97.4	2.75	5.71	268.		.6	9	+.04	"
110	1-24	535P / 544P	Walton & Bonadiman	104.5	67.4	2.32	5.53	156.		.6	9	-.02	"
111	1-25	1152A / 1200N	Bonadiman	13.0	5.05	0.79	4.72	4.0		.6	4	0	"
112	2-15	116A / 133A	Bonadiman & Walton	109.5	115.	2.36	5.81	271.		.6	9	+.02	"
113	2-15	323A / 340A	" "	109.5	99.8	1.89	5.64	189.		.6	9	-.04	"
114	2-15	1111A / 1123A	" "	97.5	49.4	1.07	5.10	52.9		.6	10	-.01	"
115	2-15	900P / 907P	" "	109.5	115.	2.48	5.83	286.		.6	9	+.06	"
116	2-16	1042A / 1054A	" "	52.0	33.7	1.30	5.08	43.8		.6	10	0	"
117	2-18	1137A / 1153A	" "	30.0	19.2	0.59	4.85	11.4		.6	6	0	"
118	2-20	149A / 214A	" "	109.5	212.	4.77	6.80	1010.		.6	10	+.27	"
119	2-20	306A / 330A	" "	112.5	272.	6.48	7.59	1760.		.6	10	-.18	"
120	2-20	231P / 250P	" "	113.5	315.	6.23	7.45	1970.		.6	10	0	"
121	2-21	120P / 132P	" "	102.5	117.	2.43	5.86	285.		.6	9	+.17	"
122	2-22	105A / 125A	" "	113.0	331.	5.17	7.13	1710.		.6	9	+.02	"
123	2-22	940A / 1002A	" "	106.5	209.	3.97	6.34	829.		.6	9	-.06	"
124	2-23	1226P / 1240P	Bonadiman	102.0	67.0	1.44	5.44	97.3		.6	9	0	"
125	2-24	216P / 226P	Bonadiman & Walton	27.5	17.8	1.02	5.06	18.2		.6	7	-.01	"
126	2-24	500P / 512P	" "	103.5	154.	2.68	5.93	413.		.6	9	-.03	"
127	2-25	1130A / 1140A	Bonadiman	Three Channels			5.16	32.8		.6	8	+.01	FC 40
128	2-26	256P / 314P	"	Two	"		5.33	71.5		.6	11	0	"
129	3-1	1214A / 1242A	Bonadiman & Walton	112.5	377.	7.16	8.36	2700.		.6	11	+.12	"
130	3-1	945A / 1003A	" "	107.0	151.	3.04	5.95	459.		.6	10	-.02	"
131	3-2	111P / 136P	" "	103.0	143.	2.73	5.83	390.		.6	11	-.06	"
132	3-3	101P / 115P	" "	Two Channels			5.27	50.8		.6	12	0	"
133	3-4	646A / 706A	" "	113.0	348.	6.47	7.79	2260.		.6	12	-.15	"
134	3-4	242P / 256P	" "	112.5	295.	4.74	7.24	1400.		.6	10	0	"
135	3-5	106P / 120P	" "	109.5	262.	4.29	6.70	1120.		.6	10	-.01	"
136	3-6	1055A / 1115A	Bonadiman & Walton	112.0	190.	3.04	6.13	577.		.6	10	0	FC 40
137	3-10	1253P / 110P	Bonadiman	104.0	75.2	1.96	5.50	147.		.6	9	0	"
138	3-13	1232A / 1258A	Hall & Walton	113.0	398.	5.58	7.82	2220.		.6	11	+.04	"
139	3-14	111P / 129P	Walton & Bonadiman	111.0	356.	4.91	7.22	1750.		.6	10	-.06 +.02	"
140	3-15	1112A / 1130A	" "	110.0	235.	3.83	6.57	901.		.6	9	-.02	"
141	3-17	1202P / 1220P	Bonadiman	97.0	146.	3.02	6.15	440.		.6	9	+.01	"
142	3-19	310P / 326P	"	102.0	62.9	1.85	5.40	116.		.6	9	0	"
143	3-27	1227P / 1250P	"	16.0	8.74	1.54	4.86	13.4		.6	6	0	"
144	3-29	227A / 240A	Bonadiman & Walton	64.0	39.6	1.63	5.41	64.4		.6	4	+.04	"
144A	3-29	920A / 939A	" "	106.0	83.1	1.18	5.34	98.4		.6	10	0	"
145	3-30	1122A / 1135A	" "	59.0	34.0	1.19	5.16	40.5		.6	11	0	"
146	3-31	338P / 350P	" "	106.0	112.	1.68	5.79	188.		.6	10	+.02	"
147	4-1	951A / 1005A	" "	106.0	158.	3.56	6.15	562.		.6	10	-.02	"
148	4-2	1117A / 1125A	" "	109.0	178.	3.53	6.26	627.		.6	10	-.07	"
149	4-3	1221P / 1232P	Bonadiman	107.0	78.4	1.92	5.62	151.		.6	8	0	"
150	4-5	738A / 753A	Bonadiman & Walton	107.0	104.	2.05	5.70	213.		.6	8	+.05	FC 40
151	4-10	1148A / 1206P	Bonadiman	107.0	90.6	1.62	5.65	146.		.6	8	0	"
152	4-11	1255A / 108A	Bonadiman & Walton	92.0	116.	1.81	5.90	209.		.6	9	-.01	"
153	4-11	511A / 525A	" "	107.0	119.	2.56	6.07	304.		.6	9	+.03	"
154	4-11	1255P / 107P	" "	107.0	150.	3.10	5.86	465.		.6	9	-.02	"
155	4-12	1025A / 1035A	" "	107.0	180.	3.55	6.11	640.		.6	10	0	"
156	4-13	1031A / 1045A	Bonadiman	97.0	160.	3.20	6.04	513.		.6	10	-.02	"
157	4-14	1032A / 1050A	"	97.0	159.	3.13	6.12	497.		.6	10	0	"
158	4-15	1046A / 1100A	"	97.0	163.	3.70	6.15	602.		.6	10	+.01 -.01	"
159	4-16	1221P / 1232P	"	Two Channels			5.34	98.8		.6	7	-.01	"
160	4-17	1125A / 1132A	"	30.0	52.3	0.86	5.04	45.2		.6	5	-.01	"
161	4-21	113P / 125P	"	107.0	188.	1.73	5.96	324.		.6	10	0	"
162	4-24	1256P / 114P	"	107.0	148.	2.13	6.08	315.		.6	9	+.01	"
163	4-30	500P / 520P	"	110.0	114.	2.30	6.02	262.		.6	10	0	"
164	5-1	1231P / 1245P	"	107.0	175.	3.11	6.21	545.		.6	11	-.04	"
165	5-3	1021A / 1041A	"	113.0	192.	3.04	6.25	584.		.6	11	+.05 -.05	"
166	5-8	1141A / 1200N	"	107.0	129.	2.04	6.06	263.		.6	10	-.01	"
167	5-15	1246P / 100P	"	107.0	128.	1.72	6.08	220.		.6	11	0	"
168	5-20	931A / 955A	"	44.0	36.0	0.94	5.25	33.5		.6	9	0	"
169	5-22	1250P / 100P	"	14.0	2.78	0.43	4.63	1.2		.6	3	0	"
170	6-5	1151A / 1210P	"	49.0	36.4	1.59	5.38	58.0		.6	9	0	"
171	6-12	1128A / 1142A	"	51.0	38.5	1.58	5.39	60.6		.6	10	0	"
172	6-19	1121A / 1131A	"	18.7	14.3	0.77	5.06	11.5		.6	6	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

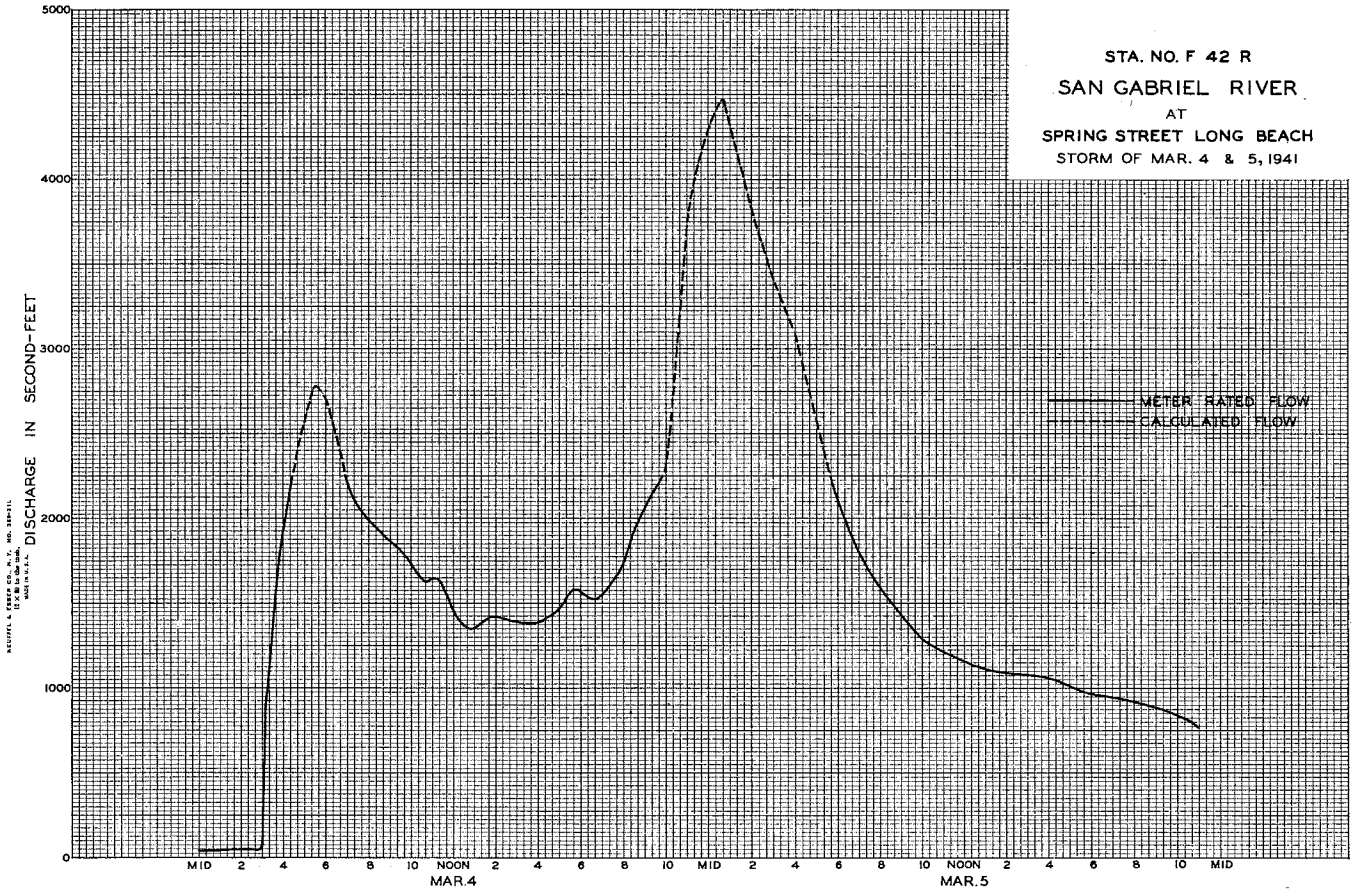
Sta. No F42R

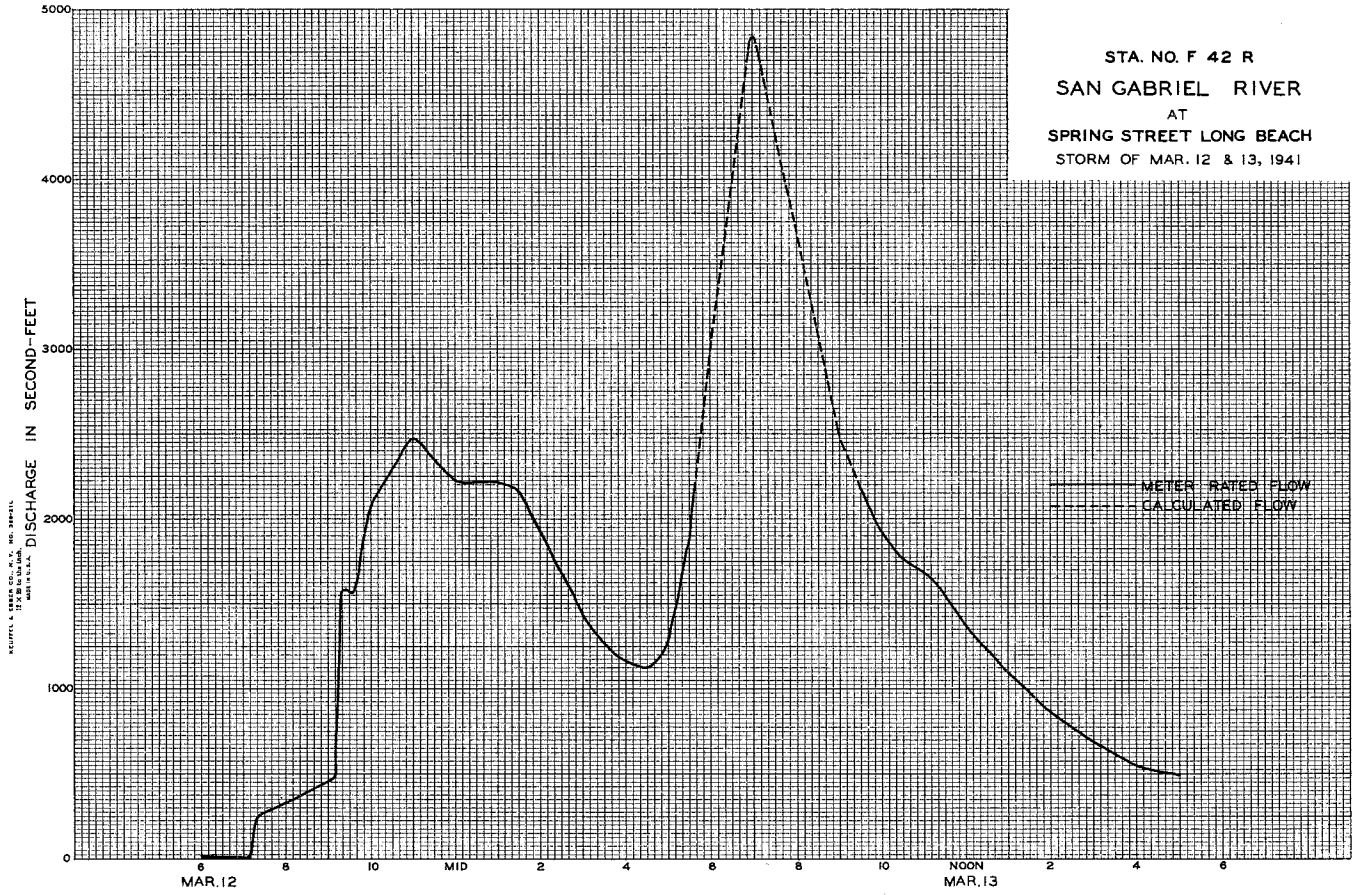
Daily discharge, in second-feet of SAN GABRIEL RIVER at Spring Street, Long Beach, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	923	532	519	57	0	0	0
2	0	0	0	0	0	458	392	581	53	0	0	0
3	0	0	0	0	0	76	152	549	38	0	0	0
4	0	0	0	0	0	1710	145	541	35	0	0	0
5	0	0	0	0	0	1710	138	350 E	45	0	0	0
6	0	0	0	0	0	639	63	314	43	0	0	0
7	0	0	0	0	0	518	53	298	47	0	0	0
8	0	0	0	0	0	458	63	260	63	0	0	0
9	0	0	0	0	0	E240	88	265	67	0	0	0
10	0	0	0	0	0	131	159	276	53	0	0	0
11	0	0	0	0	0	16	451	260	49	0	0	0
12	0	0	0	0	0	285	648	265	45	0	0	0
13	0	0	0	0	0	1550	589	255	32	0	0	0
14	0	0	0	0	0	1470	573	235	16	0	0	0
15	0	0	0	0	108	937	630	235	14	0	0	0
16	0	0	0	0	57	541	159	325	23	0	0	0
17	0	0	0	0	58	411	107	325	12	0	0	0
18	0	0	0	0	12	E208	286	337	+	0	0	0
19	0	0	0	0	3.3	134	349	200 E	5.5	0	0	0
20	0	0	0	0	1120	41	343	35	0	0	0	0
21	0	0	0	0	398	41	349	13	0	0	0	0
22	0	0	0	0	860	131	361	2.8	0	0	0	0
23	0	0	136	0	105	117	343	0	3.0	0	0	0
24	0	0	337	62	108	114	320	0	0	0	0	0
25	0	0	20	9	56	110	265	0	0	0	0	0
26	0	0	0	0	70	90	240	0	0	0	0	0
27	0	0	0	0	49	16	240	0	0	0	0	0
28	0	0	0	0	248	8.5	245	0	0	0	0	0
29	0	0	0	0		100	250	0	0	0	0	0
30	0	0	0	0		45	245	12	0	0	0	0
31	0		0	0		208		35		0	0	
	0		493		32523		8778		700.5		0	
		0		71		134365		64878		0		0
MEAN	0	0	15.9	2.29	116.	433.	293.	209.	23.4	0	0	0
ACRE-FEET	0	0	978.	141.	6450.	26650.	17410.	12870.	1390.	0	0	0

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

YEAR OR PERIOD MEAN 91.0
ACRE FEET 65890.


STA. NO. F 42 R
SAN GABRIEL RIVER
AT
SPRING STREET LONG BEACH
STORM OF MAR. 4 & 5, 1941
METER RATED FLOW
CALCULATED FLOW
DISCHARGE IN SECOND-FEET
5000
4000
3000
2000
1000
0
MID 2 4 6 8 10 NOON 2 4 6 8 10 MID 2 4 6 8 10 NOON 2 4 6 8 10 MID
MAR.4
MAR.5


STA. NO. F 42 R
SAN GABRIEL RIVER
AT
SPRING STREET LONG BEACH
STORM OF MAR. 12 & 13, 1941
METER RATED FLOW
CALCULATED FLOW
DISCHARGE IN SECOND-FEET
5000
4000
3000
2000
1000
0
6 8 10 MID 2 4 6 8 10 NOON 2 4 6
MAR.12
MAR.13

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, 1940 to September 30, 1941.

REGULATION:

Flow partially regulated by Thompson Creek Dam.

DIVERSIONS:

Small diversion for spreading. (See Sta. F276R)

RECORDS AVAILABLE:

January 2, 1929 to September 30, 1941.
(For records prior to January 2, 1929 see State Division of Water Rights Bulletins).

EXTREMES OF DISCHARGE:

1940-1941
Maximum 2500 second-feet February 28.
Minimum 0.7 second-foot August 19.

1928-1941
Maximum 13100 second-feet January 1, 1934.
Minimum no flow at various times.

ACCURACY:

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

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. F48-R

DISCHARGE MEASUREMENTS OF SAN JOSE CREEK

AT Workman Mill Road DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
311	10-3	108P / 115P	Brewster	8.0	1.76	0.55	1.42	0.97		.6	4	0	FC 24
312	10-10	1220P / 1225P	"	7.0	1.86	0.63	1.42	1.2		.6	4	0	"
313	10-17	150P / 155P	"	8.0	1.56	0.60	1.40	0.94		.6	4	0	"
314	10-24	105P / 112P	"	8.0	1.44	0.52	1.40	0.75		.6	4	0	"
315	10-31	230P / 235P	"	6.0	1.14	0.78	1.46	0.89		.6	4	0	"
316	11-7	132P / 140P	"	8.0	1.84	0.60	1.42	1.1		.6	4	0	"
317	11-14	210P / 216P	"	6.0	1.17	0.88	1.40	1.0		.6	4	0	"
318	11-20	1240P / 1247P	"	7.0	1.29	0.88	1.43	1.1		.6	4	0	"
319	11-28	108P / 115P	"	7.0	1.39	0.81	1.42	1.1		.6	4	0	"
320	12-5	120P / 130P	"	8.0	1.64	0.79	1.44	1.3		.6	4	0	"
321	12-12	202P / 210P	"	6.0	1.28	0.69	1.44	0.88		.6	3	0	"
322	12-16	1020A / 1030A	"	8.0	1.56	0.76	1.45	1.2		.6	4	0	"
323	12-16	325P / 327P	Haig-Hall	10.0	1.25	0.59	1.45	0.74		.6	3	0	FC 33
324	12-17	408A / 424A	" "	58.0	61.1	2.60	2.55	158.		.6	7	-.02	"
325	12-17	115P / 130P	Brewster-Smith	36.0	22.8	1.96	2.00	44.6		.6	7	-.05	FC 24
326	12-17	345P / 400P	" "	36.0	16.0	1.69	1.84	26.9		.6	7	-.01	"
327	12-18	955A / 1005A	Brewster	10.0	2.76	0.78	1.36	2.1		.6	5	0	"
328	12-19	150P / 200P	"	11.0	3.80	0.95	1.42	3.6		.6	4	-.01	"
329	12-23	805A / 820A	Brewster & Smith	50.0	48.2	3.11	2.41	150.		.6	7	+.10	"
330	12-23	115P / 140P	Wallace & Linden	105.0	168.	3.98	4.00	667.		.6	13	-.26	"
331	12-23	350P / 406P	Brewster & Smith	95.0	105.	2.91	3.20	306.		.6	10	-.08	"
332	12-24	105P / 140P	Linden & Wallace	102.0	178.	3.96	3.94	705.		.6	12	-.20	FC 23
333	12-24	330P / 345P	Brewster & Smith	95.0	107.	3.07	3.19	328.		.6	10	-.05	FC 24
334	12-25	1155A / 1203P	Brewster	10.0	4.20	1.17	1.58	4.9		.6	5	0	"
335	12-26	1250P / 100P	Brewster	6.0	2.44	1.48	1.56	3.6		.6	4	0	FC 24
336	12-29	940A / 950A	"	8.0	2.64	1.17	1.55	3.1		.6	4	0	"
337	1-2	130P / 140P	"	9.0	2.17	0.58	1.52	1.2		.6	5	0	"
338	1-9	100P / 110P	"	9.0	2.17	0.65	1.50	1.4		.6	5	0	"
339	1-16	142P / 150P	"	8.0	1.72	0.69	1.51	1.2		.6	4	0	"
340	1-23	114P / 120P	"	8.0	2.12	0.83	1.52	1.8		.6	4	0	"
341	1-24	507A / 526A	Haig-Trentham	94.0	102.	3.73	2.80	379.		.6	9	+.20	FC 33
342	1-24	830A / 850A	Brewster & Smith	96.0	157.	4.21	3.79	662.		.6	10	-.02	FC 24
343	1-24	1150A / 1155A	Haig-Trentham	93.0	107.	3.64	3.26	389.		.6	7	-.02	FC 33
344	1-24	215P / 230P	Brewster & Smith	71.0	64.0	3.19	2.66	204.		.6	8	-.07	FC 24
345	1-25	1205P / 1212P	Brewster	10.0	4.28	0.95	1.22	4.0		.6	5	0	"
346	1-30	154P / 200P	"	6.0	1.71	0.87	1.17	1.5		.6	4	0	"
347	2-6	905A / 920A	Brewster & Smith	20.0	15.3	3.88	1.85	59.3		.6	6	+.06	"
348	2-6	445P / 455P	" "	12.0	6.48	1.45	1.36	9.4		.6	6	-.02	"
349	2-11	230P / 240P	" "	20.0	8.34	1.58	1.42	13.2		.6	6	-.01	"
350	2-13	154P / 200P	Brewster	6.0	1.73	0.95	1.19	1.6		.6	4	0	"
351	2-14	931P / 948P	Wallace & Linden	92.0	124.	4.15	3.39	513.		.6	10	-.18	FC 23
352	2-15	1148A / 1156A	Brewster & Smith	22.0	14.2	2.43	1.54	34.6		.6	6	+.01	FC 24
353	2-15	525P / 542P	" "	91.0	108.	4.14	3.06	446.		.6	10	-.04	"
354	2-16	1220P / 1230P	" "	22.0	11.7	1.85	1.30	21.7		.6	6	-.01	"
355	2-17	142A / 150A	Haig-Trentham	25.5	16.2	2.22	1.54	35.9		.6	6	-.01	FC 33
356	2-17	800A / 815A	Brewster & Smith	75.0	88.0	3.24	2.58	285.		.6	8	+.15	FC 24
357	2-17	455P / 510P	" "	30.0	28.0	2.80	1.58	78.5		.6	8	-.01	"
358	2-18	1219P / 1225P	Brewster	12.0	5.38	0.99	1.03	5.3		.6	4	0	"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F48R

DISCHARGE MEASUREMENTS OF SAN JOSE CREEK

AT Workman Mill Road DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
	2-19	1130P	Wallace &										
359	2-20	1215A	Linden	103.0	234.	5.28	4.74	1240.		.6	11	-.31	FC 23
		828A	Linden &										
360	2-20	847A	Wallace	108.0	257.	4.52	4.70	1160.		.6	11	+.44	"
		910A											
361	2-20	929A	" "	108.0	284.	5.12	5.18	1450.		.6	11	+.11	"
		238P	Brewster &										
362	2-21	253P	Smith	Two Channels			2.40	230.		.6	11	+.02	FC 24
		833P	Linden &										
363	2-21	848P	Wallace	105.0	230.	4.76	4.48	1100.		.6	10	+.02	FC 23
		1217A											
364	2-22	1230A	" "	107.0	264.	5.35	5.03	1410.		.6	10	-.03	"
		505A	Wallace &										
365	2-22	516A	Linden	102.0	143.	5.12	4.21	731.		.6	10	-.02	"
		140P	Brewster &										
366	2-22	200P	Smith	Two Channels			2.37	134.		.6	11	-.04	FC 24
		1012A											
367	2-24	1050A	Brewster	" "			1.76	51.0		.6	10	+.04	"
		1140A											
368	2-25	1152A	"	23.0	12.5	1.53	1.45	19.2		.6	7	0	"
		1005A											
369	2-28	1015A	"	12.0	6.40	0.64	1.13	4.1		.6	6	0	"
		925P	Wallace &										
370	2-28	945P	Linden	113.0	383.	6.53	5.99	2500.		.6	10	-.01	FC 23
		413A	Linden &										
371	3-1	430A	Wallace	103.0	135.	4.52	4.12	611.		.6	12	-.05	"
		310P	Brewster &										
372	3-1	331P	Smith	Two Channels			3.18	393.		.6	12	-.09	FC 24
		1235P	Linden &										
373	3-2	118P	Wallace	" "			2.54	222.		.6	11	-.05	FC 23
		235P	Brewster &										
374	3-2	255P	Smith	" "			2.26	215.		.6	12	-.01	FC 24
		325P											
375	3-3	335P	Brewster	26.0	14.6	1.93	1.18	28.1		.6	6	0	"
		152A	Wallace &										
376	3-4	211AA	Linden	110.0	295.	6.32	5.26	1860.		.6	10	-.02	FC 23
		930P	Linden &										
377	3-4	945P	Wallace	112.0	275.	5.81	5.15	1600.		.6	11	-.10	"
		455P	Brewster &										
378	3-6	505P	Smith	28.0	17.0	2.33	1.56	39.5		.6	7	0	FC 24
		255P											
379	3-12	310P	" "	Two Channels			2.66	283.		.6	10	-.12	"
		720P	Linden &									+.05	
380	3-12	736P	Wallace	108.0	237.	5.56	4.83	1320.		.6	11	-.05	FC 23
		1101P											
381	3-12	1115P	" "	110.0	247.	5.29	4.88	1310.		.6	8	-.12	"
		345P	Brewster &										
382	3-13	405P	Smith	Two Channels			2.72	170.		.6	8	-.07	FC 24
		1205P	Brewster &										
383	3-15	1220P	Smith	34.0	24.0	3.12	1.68	74.7		.6	9	-.01	FC 24
		232P											
384	3-20	245P	Brewster	30.0	10.2	1.39	1.18	14.3		.6	8	0	"
		325P											
385	3-27	335P	"	26.0	8.60	1.27	1.08	10.9		.6	6	0	"

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.
		215P	Brewster &										
386	3-29	230P	Smith	30.0	19.1	2.89	1.38	55.1		.6	8	0	FC 24
		1048P	Wallace &										
387	3-31	1102P	Linden	Two Channels			3.29	543.		.6	9	0	FC 23
		1223A	Linden &										
388	4-1	1240A	Wallace	101.0	166.	5.46	4.00	910.		.6	12	-.04	"
		115P	Brewster &										
389	4-1	135P	Smith	Two Channels			2.19	209.		.6	12	-.01	FC 24
		335P											
390	4-3	345P	Brewster	34.0	13.4	1.59	1.37	21.3		.6	5	0	"
		1205P											
391	4-7	1217P	"	30.0	10.4	1.36	1.28	14.2		.6	8	0	"
		330P											
392	4-10	345P	"	28.0	9.56	1.43	1.25	13.7		.6	8	0	"
		1225P											
393	4-11	1240P	"	32.0	19.5	2.60	1.38	50.7		.6	7	-.01	"
		1222P											
394	4-17	1230P	"	18.0	8.60	1.53	1.13	13.2		.6	5	0	"
		105P											
395	4-24	115P	"	18.0	8.90	1.49	1.10	13.3		.6	5	0	"
		315P											
396	5-1	325P	"	20.0	8.70	1.29	1.08	11.2		.6	6	0	"
		235P											
397	5-8	245P	"	18.0	7.70	1.44	1.07	11.1		.6	5	0	"
		405P											
398	5-15	415P	"	18.0	7.80	1.22	1.10	9.5		.6	5	0	"
		155P											
399	5-22	205P	"	16.0	6.70	1.23	1.06	8.2		.6	5	0	"
		225P											
400	5-27	233P	"	16.0	6.62	1.21	1.06	8.0		.6	5	0	"
		220P											
401	6-5	230P	"	13.0	6.86	1.43	1.09	9.8		.6	4	0	"
		210P											
402	6-12	220P	"	15.0	6.74	1.04	1.06	7.0		.6	4	0	"
		120P											
403	6-19	130P	"	10.0	3.88	1.21	1.05	4.7		.6	5	0	"
		200P											
404	6-26	210P	"	14.0	5.80	0.64	1.04	3.7		.6	4	0	"
		1250P											
405	7-3	100P	"	10.0	2.60	1.08	1.03	2.8		.6	5	0	"
		130 P											
406	7-10	140P	"	10.0	3.00	0.93	0.94	2.8		.6	5	0	"
		110P											
407	7-17	120P	Brewster	8.0	2.44	1.15	0.93	2.8		.6	4	0	FC 24
		110P											
408	7-24	120P	"	8.0	2.32	0.91	0.94	2.1		.6	4	0	"
		1250P											
409	7-31	100P	"	10.0	2.64	0.98	0.98	2.6		.6	5	0	"
		135P											
410	8-7	145P	"	10.0	2.96	0.98	1.00	2.9		.6	5	0	"
		1204P											
411	8-14	1213P	Lindsay	9.5	2.29	0.83	0.94	1.9		.6	9	0	FC 28
		1248P											
412	8-21	1258P	"	9.5	2.65	0.91	0.98	2.4		.6	9	0	"
		130P											
413	8-28	140P	Brewster	10.0	3.40	0.91	1.00	3.1		.6	5	0	FC 24
		120P											
414	9-4	130P	"	10.0	3.20	1.00	1.00	3.2		.6	5	0	"
		105P											
415	9-11	115P	"	9.0	2.47	0.97	1.00	2.4		.6	5	0	"
		115P											
416	9-18	125P	"	10.0	3.28	0.91	1.03	3.0		.6	5	0	"
		125P											
417	9-25	135P	"	9.0	2.80	0.96	1.02	2.7		.6	4	0	"

F.C. Dist. Form 82 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

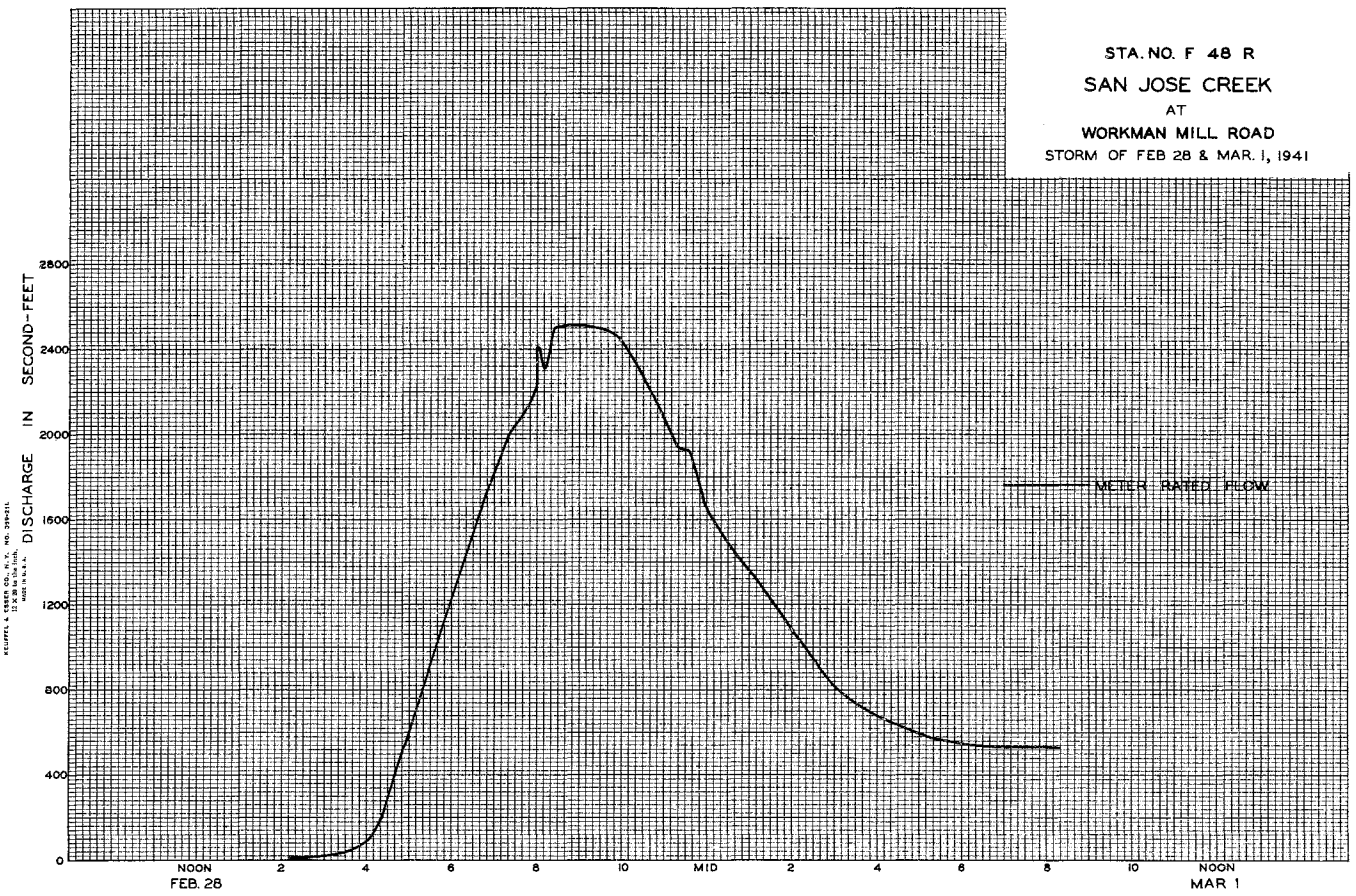
Sta. No F48R

Daily discharge, in second-feet of SAN JOSE CREEK at Workman Mill Road for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.3	0.8	1.3	1.3	1.3	585	336	14	9.5	3.5	2.2	1.6
2	1.0	0.8	1.0	1.3	1.0	313	159	12	9.5	3.2	1.6	2.9
3	1.0	0.8	0.8	1.3	0.8	89	21	12	10	2.9	2.2	3.2
4	1.0	1.0	1.3	1.3	0.7	1320	22	12	11	2.2	0.7	3.2
5	1.3	1.0	1.6	1.6	0.7	499	35	12	11	1.6	1.6	2.9
6	1.3	1.3	1.9	1.6	17	41	14	12	10	1.0	2.2	3.2
7	1.3	1.0	1.6	1.3	4.6	27	15	12	9	0.8	1.9	2.2
8	1.0	1.0	1.3	1.3	3.8	19	15	12	8	0.7	1.3	1.9
9	0.8	1.6	1.3	1.3	3.5	15	14	12	7	1.3	1.0	2.6
10	1.0	1.6	1.6	1.6	3.5	12	20	12	8	1.9	1.3	2.2
11	1.0	1.3	1.3	1.6	7.5	9	72	12	7	2.2	1.3	3.2
12	0.8	1.6	1.0	1.6	8.5	392	38	10	7.5	1.9	1.6	2.2
13	0.8	1.6	1.0	1.6	1.6	778	31	10	6	2.2	1.9	2.2
14	1.3	1.0	1.0	1.6	155	485	26	10	5.5	1.3	1.6	1.9
15	1.0	1.3	0.7	1.3	203	130	21	11	7	1.6	2.9	1.9
16	1.3	1.0	1.6	1.3	55	50	18	11	4.6	2.2	2.2	1.9
17	1.0	1.6	46	1.0	103	40	14	10	6	2.9	1.3	2.2
18	1.0	1.9	6.5	1.0	9	30	13	11	6	2.9	1.3	2.2
19	0.8	1.0	10	1.0	219	19	13	10	4.6	2.2	2.2	2.6
20	0.8	0.8	1.3	1.3	858	14	12	9	4.6	2.6	1.9	1.9
21	0.8	0.8	1.0	1.6	484	1 14	12	10	5.5	1.9	1.6	1.6
22	1.0	0.8	0.8	4.6	372	1 13	12	10	4.1	2.2	1.9	1.9
23	0.8	0.8	272	2.2	45	1 13	13	10	4.6	1.9	2.6	1.9
24	0.7	1.0	323	239	179	1 12	14	11	6	2.2	2.6	2.6
25	1.0	1.0	11	9	27	1 12	13	9	5.5	2.2	2.2	2.6
26	6	1.0	3.5	2.6	6	1 11	12	8.5	4.1	1.6	2.9	2.2
27	1.9	1.0	3.5	2.6	4.6	1 11	12	8.5	5.5	1.0	2.6	1.9
28	1.6	1.0	2.9	2.2	585	18	12	9	4.1	0.8	2.9	2.2
29	1.3	1.0	2.6	1.9		96	11	9.5	3.8	1.3	2.2	1.6
30	1.0	1.0	2.9	1.6		26	24	9	3.5	2.2	1.9	1.9
31	0.8		2.6	1.6		170		8.5		2.2	1.3	
	37.7	33.4	709.9	296.1	3359.1	5263	1044	329.0	198.5	60.6	589	68.5
MEAN	1.22	1.11	22.9	9.55	120.	170.	34.8	10.6	6.62	1.95	1.90	2.28
ACRE-FEET	74.	66.	1410.	587.	6660.	10440.	2070.	653.	394.	120.	117.	136.

Remarks: 1 = interpolated.

YEAR OR PERIOD MEAN 31.4 ACRE-FEET 22730.



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 1/4 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, 1940 to September 30, 1941.

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 Diversion 2.0 second feet.

RECORDS AVAILABLE:

April 22, 1938 to September 30, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 482 second-feet, March 4.
Minimum no flow at various times.
1936-1941 (Stations F260R and F260B-R)
Maximum not determined March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Fair.
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 WASH

AT Foothill Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 1941

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	10-9	906A / 909A	Lindsay	2.0	0.10	0.70	4.76	0.07		.6	3	0	FC 28
126	10-24	843A / 847A	"	2.0	0.12	0.56	4.74	0.07		.6	3	0	"
127	10-25	1035P / 1044P	"	13.0	2.39	1.80	5.12	4.3		.6	7	-.08	"
128	11-13	858A / 902A	"	2.0	0.12	0.75	4.76	0.09		.6	4	-.01	"
129	12-5	1033A / 1044A	"	12.4	2.29	1.62	4.99	3.7		.6	9	0	"
130	12-12	335P / 341P	"	3.5	0.32	0.81	4.73	0.26		.6	5	0	"
131	12-16	1245P / 1252P	Lindsay-Keim	8.0	0.88	0.64	4.80	0.56		.6	6	-.01	"
132	12-17	109A / 117A	" "	17.0	5.06	2.02	5.19	10.2		.6	8	-.10	"
133	12-17	747A / 751A	" "	5.0	0.48	0.71	4.73	0.34		.6	4	+.01	"
134	12-17	210P / 219P	" "	Two Channels			5.18	19.7		.6	12	-.01	"
135	12-18	1040A / 1055A	Lindsay	15.5	6.36	2.48	5.15	15.8		.6	9	0	"
136	12-19	855A / 903A	"	11.0	2.42	0.99	4.79	2.4		.6	8	0	"
137	12-23	305P / 325P	Keim-Lindsay	14.0	5.68	3.24	5.13	18.4		.6	8	0	"
138	12-23	329P / 337P	Lindsay-Keim	14.0	5.22	3.50	5.13	18.3		.6	8	0	"
139	12-26	908A / 920A	Thompson & Lindsay	14.0	6.82	2.62	5.14	1.79		.6	9	0	"
140	12-27	1128A / 1137A	Lindsay	13.0	4.38	1.62	4.94	7.1		.6	9	0	"
141	12-31	1055A / 1100A	"	3.5	0.49	0.76	4.64	0.37		.6	4	0	"
142	1-2	849A / 854A	"	2.8	0.40	0.60	4.61	0.24		.6	5	0	"
143	1-8	840A / 847A	"	3.0	0.45	0.96	4.63	0.43		.6	6	0	"
144	1-16	940A / 947A	"	6.0	1.14	1.05	4.69	1.2		.6	7	0	"
145	1-23	937A / 945A	"	5.3	1.15	0.99	4.69	1.1		.6	6	0	"
146	1-24	603A / 610A	Lindsay-Keim	15.5	4.77	1.51	4.98	7.2		.6	8	-.02	"
147	1-24	714A / 726A	Lindsay-Keim	16.5	7.29	2.19	5.12	15.9		.6	9	+.01	FC 44
148	1-24	1255P / 105P	" "	17.3	8.48	2.61	5.21	22.2		.6	9	0	FC 28
149	1-30	928A / 940A	Lindsay	12.0	2.77	0.83	4.80	2.3		.6	7	0	"
150	2-6	1102A / 1110A	"	11.3	2.53	0.51	4.72	1.3		.6	7	0	"
151	2-11	222P / 231P	Lindsay-Keim	17.5	9.23	2.56	5.26	23.6		.6	9	0	"
152	2-12	940A / 950A	Lindsay	12.5	6.60	2.42	5.14	16.0		.6	8	0	"
153	2-14	756A / 807A	"	12.9	6.52	2.04	5.09	13.3		.6	9	0	"
154	2-14	659P / 709P	Lindsay-Keim	19.0	9.40	2.55	5.29	24.0		.6	10	-.06	"
155	2-15	1002A / 1014A	Lindsay	18.5	6.85	1.93	5.12	13.2		.6	10	0	"
156	2-16	913A / 916A	Lindsay-Keim	Two Channels			5.33	29.3		.6	8	+.01	"
157	2-17	736A / 747A	" "	" "			5.41	42.3		.6	14	-.09	"
158	2-17	1124A / 1134A	" "	" "			5.54	62.1		.6	14	0	"
159	2-19	904A / 912A	Lindsay	13.3	7.78	1.98	5.06	15.4		.6	9	-.03	"
160	2-19	925P / 933P	Lindsay-Keim	27.5	24.7	5.55	5.96	137.		.6	8	-.04	"
161	2-19	1030P / 1044P	" "	41.0	41.4	5.63	6.10	233.		.6	10	-.04 +.04	"
162	2-20	420A / 430A	" "	23.0	23.3	5.23	6.01	122.		.6	8	-.20	"
163	2-20	507A / 520A	" "	Two Channels			5.80	93.5		.6	12	+.03	"
164	2-20	105P / 114P	Lindsay	" "			5.91	100.		.6	11	-.01	"
165	2-20	148P / 159P	Lindsay-Keim	40.0	43.4	5.67	6.30	246.		.6	10	+.08	"
166	2-21	945A / 957A	" "	36.0	37.9	4.09	5.62	155.		.6	12	-.01	"
167	2-21	526P / 536P	" "	27.0	29.2	5.20	5.60	152.		.6	10	+.02	"
168	2-22	100A / 115A	" "	49.0	48.3	5.30	5.83	256.		.6	11	-.02	"
169	2-22	443P / 458P	" "	Two Channels			5.54	154.		.6	15	+.01	"
170	2-22	823P / 837P	" "	" "			5.50	144.		.6	14	-.01	"
171	2-23	1003A / 1022A	Lindsay	Two Channels			5.18	83.8		.6	15	+.01	FC 28
172	2-25	842A / 853A	Haig	19.0	19.1	4.11	5.10	78.5		.6	7	0	FC 33
173	2-25	430P / 442P	"	20.0	17.6	3.66	5.02	64.3		.6	9	0	"
174	2-26	1020A / 1035A	Lindsay	Two Channels			4.95	53.2		.6	13	-.01	FC 28
175	2-28	919A / 930A	"	19.0	14.1	1.56	4.67	22.0		.6	9	0	"
176	2-28	820P / 832P	Lindsay-Keim	48.0	54.4	4.66	5.85	251.		.6	11	0	"
177	2-28	933P / 945P	" "	48.0	41.6	3.51	5.46	146.		.6	11	+.03	"
178	3-1	1208A / 1222A	" "	Two Channels			5.36	120.		.6	13	0	"
179	3-2	1125A / 1140A	Haig-Haig	" "			5.24	97.7		.6	11	0	FC 33
180	3-3	125A / 141A	Lindsay	46.0	49.2	4.90	5.79	241.		.6	10	+.05	FC 28
181	3-3	1050A / 1104A	Haig	Two Channels			5.02	52.2		.6	12	0	FC 33
182	3-5	330P / 346P	Lindsay-Keim	" "			5.94	250.		.6	16	-.06	FC 28
183	3-6	205P / 223P	Lindsay	" "			5.64	144.		.6	13	0	"
184	3-8	305P / 315P	Lindsay-Ingram	" "			5.22	82.4		.6	4	0	"
185	3-13	130A / 145A	Ingram-Keim	" "			5.45	120.		.6	13	0	"
186	3-14	525P / 538P	Lindsay	24.0	30.6	3.09	5.40	94.8		.6	9	-.01	"
187	3-16	450P / 500P	Lindsay-Ingram	20.5	21.0	1.82	5.02	38.3		.6	8	0	"
188	3-20	958A / 1009A	Haig	Two Channels			5.00	48.0		.6	13	0	FC 33
189	3-27	1130A / 1145A	"	" "			4.81	35.2		.6	13	0	"
190	3-28	950P / 1010P	Ingram-Reilly	20.0	15.6	1.35	4.76	21.1		.6	9	0	FC 18
191	3-31	116P / 130P	Lindsay-Keim	Two Channels			5.01	42.1		.6	13	-.02	FC 28
192	4-3	1132A / 1146A	Haig	" "			5.00	52.5		.6	16	-.01	FC 33
193	4-4	1044P / 1100P	Lindsay-Keim	" "			5.63	157.		.6	13	-.04	FC 28
194	4-5	1227A / 1244A	" "	" "			5.81	205.		.6	13	+.01	"
195	4-5	1122A / 1148A	Keim-Lindsay	25.5	26.6	2.01	5.03	53.3		.6	13	0	FC 28
196	4-10	158P / 222P	Haig	Two Channels			5.23	81.6		.6	18	0	FC 33
197	4-11	1215A / 102A	Ingram-Reilly	" "			5.42	94.6		.6	11	-.03	FC 18
198	4-17	357P / 412P	Haig	Two Channels			4.76	30.9		.6	17	0	FC 33
199	4-23	1022A / 1035A	Lindsay	23.0	25.0	2.12	5.01	53.2		.6	10	0	FC 28
200	4-28	940A / 955A	"	19.0	16.4	1.56	4.75	26.6		.6	9	0	"
201	5-1	1244P / 1255P	"	18.0	21.7	2.28	4.99	49.5		.6	9	0	"
202	5-5	233P / 248P	"	Two Channels			4.96	43.9		.6	11	0	"
203	5-12	1018A / 1030A	"	18.0	20.3	1.93	4.89	39.2		.6	9	0	"
204	5-15	147P / 156P	"	18.0	14.4	1.46	4.68	20.7		.6	6	-.04	"
205	5-19	201P / 213P	"	18.0	14.9	2.48	4.86	37.0		.6	8	0	"
206	5-22	207P / 218P	"	15.0	4.67	3.34	4.44	15.6		.6	7	0	"
207	5-26	1055A / 1105A	"	14.5	4.42	2.71	4.39	11.5		.6	8	-.02	"
208	6-2	1005A / 1015A	"	14.5	6.55	1.53	4.39	10.5		.6	8	0	"
209	6-9	850A / 900A	"	13.3	6.11	1.59	4.34	9.7		.6	8	0	"
210	6-16	923A / 935A	"	12.9	5.25	1.58	4.27	8.3		.6	9	0	"
211	6-25	945A / 957A	"	12.6	4.69	1.44	4.22	6.7		.6	10	0	"
212	7-2	959A / 1009A	"	13.0	4.18	1.39	4.20	5.8		.6	8	0	"
213	7-10	930A / 937A	"	3.3	0.39	0.69	3.78	0.27		.6	6	0	"
214	7-16	920A / 924A	"	3.0	0.30	0.73	3.75	0.22		.6	4	0	"
215	7-23	1155A / 1200N	Haig	4.0	0.61	0.90	3.78	0.55		.6	4	+.01	FC 33
216	7-30	1045A / 1052A	"	3.0	0.42	0.71	3.77	0.30		.6	6	0	"
217	8-6	1012A / 1014A	Lindsay	0.5	0.05	0.60	3.62	0.03		.6	1	0	FC 28
218	9-3	904A / 908A	Lindsay	2.0	0.23	0.57	3.70	0.13		.6	4	0	FC 28
219	9-11	837A / 842A	"	4.0	0.70	0.93	3.86	0.65		.6	5	0	"
220	9-18	113P / 120P	Haig	3.0	0.27	0.45	3.71	0.12		.6	4	0	"
221	9-25	1218P / 1230P	Haig-Mayer	6.3	1.01	1.32	3.92	1.3		.6	7	0	FC 33

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

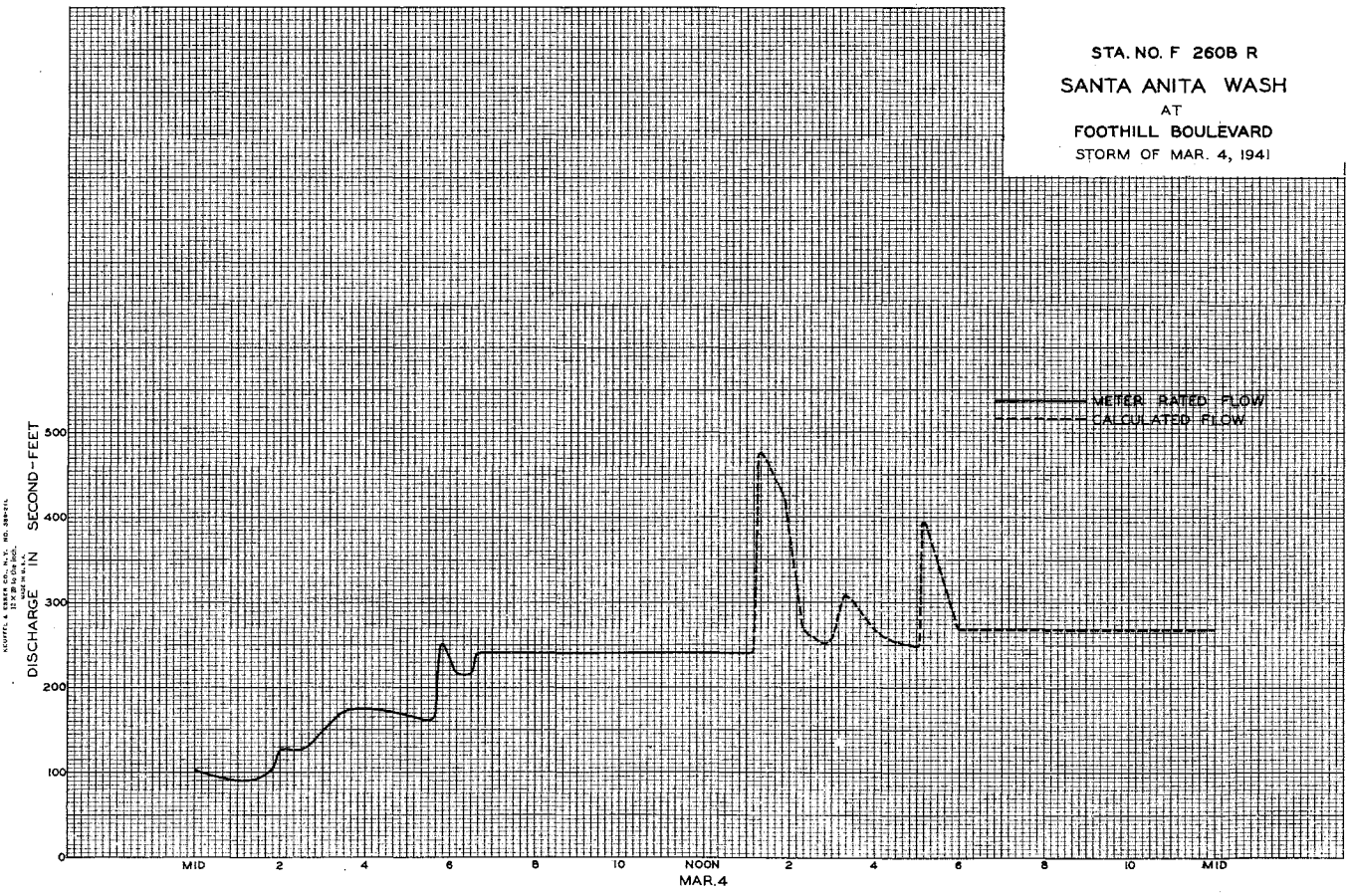
Sta. No F260B-R

Daily discharge, in second-feet of SANTA ANITA WASH at Foothill Boulevard, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	+	0.3	1.6	105	55	46	11	6	0.2	0.5
2	0.1	+	+	0.3	1.1	96	55	34	10	5.5	0.2	0.3
3	0.1	0	0.3	0.5	0.9	110	55	31	10	E 2.0	+	0.3
4	+	+	1.6	0.4	0.8	237	84	30	10	0.2	0.1	0.4
5	+	+	4.0	0.4	1.1	262	86	36	10	0.2	0.1	0.6
6	+	+	3.0	0.4	2.8	152	74	44	11	0.2	0.1	0.5
7	+	+	0.1	0.4	1.6	113	46	42	11	0.2	0.1	0.6
8	0.1	0.1	0.1	0.4	1.4	86	45	39	11	0.2	0.1	0.6
9	0.1	0.1	0.1	0.5	1.3	68	57	33	9.5	0.2	+	1.0
10	0.1	+	0.1	1.0	1.2	66	87	40	9	0.2	+	1.1
11	+	0.1	0.2	0.7	10	60	79	41	1.9	0.2	0.1	0.7
12	+	+	0.3	0.5	15	70	78	32	1.9	0.2	0.1	0.4
13	+	0.1	0.2	0.5	13	109	76	24	1.9	0.2	0.1	0.4
14	+	0.2	0.2	0.8	15	99	74	22	1.8.5	0.2	+	0.4
15	+	0.8	0.3	0.8	19	58	73	20	1.8.5	0.2	+	0.8
16	+	0.8	2.3	1.1	34	35	34	11	7.5	0.2	+	1.0
17	+	0.9	10	1.0	59	41	36	3.6	7.5	0.2	0	1.1
18	+	0.3	11	0.9	61	43	84	13	7	0.1	+	0.8
19	+	+	2.2	0.9	41	45	88	28	7	0.2	0.1	1.0
20	+	+	1.1	0.9	190	47	82	26	7	0.2	0.1	1.1
21	+	0.1	0.2	1.1	182	42	59	21	6.5	0.8	0.1	1.1
22	+	0.1	0.1	1.2	193	36	46	16	6.5	0.5	+	1.0
23	+	+	12	1.1	89	35	48	15	6	0.4	0.1	1.1
24	0.1	+	16	15	97	35	37	14	6.5	0.3	0.1	1.1
25	1.9	+	19	16	71	30	34	14	6.5	0.6	0.6	1.3
26	0.6	+	13	4.3	47	36	28	14	6.5	0.5	0.5	1.4
27	0	+	5	2.2	29	35	27	13	2.4	0.4	+	1.3
28	0	+	2.1	2.1	53	32	27	13	7.5	0.4	0.2	1.3
29	0	+	2.1	2.2		44	27	13	8.5	0.4	0.2	1.3
30	0	+	1.4	2.2		38	49	12	5	0.3	0.3	1.2
31	+		0.4	2.1		46		11		0.3	0.7	
	3.1	3.6	108.4	62.2	1231.8	2311	1730	751.6	266.0	21.7	4.2	25.7
MEAN	0.10	0.12	3.50	2.01	44.0	74.5	57.7	24.2	8.87	0.70	0.14	0.86
ACRE-FEET	6.1	7.1	215.	123.	2440.	4580.	3430.	1490.	528.	43.	8.3	51.

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

YEAR OR PERIOD — MEAN 17.9 — ACRE-FEET 12920.



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, 1940 to September 30, 1941.

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, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 5050 second-feet, March 4.
Minimum 0.3± second-foot at various times.
1930-1941 (Stations F92R and F92B-R)
Maximum 24000 second-feet, estimated March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Poor.
Flows frequently estimated or interpolated due to communication being obstructed by sand or channel shifts away from gage.

OPERATION:

Located and constructed 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. F92B-R

DISCHARGE MEASUREMENTS OF SANTA CLARA RIVER

AT Highway No. 99 DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
80	10-16	1110A / 1115A	Bollinger	5.7	1.28	0.26	4.25	0.33		.6	5	0	FC 6
81	10-31	1134A / 1140A	Luce	4.5	0.95	0.74	4.30	0.70		.6	6	0	FC 39
82	11-7	120P / 130P	"	5.5	1.61	0.72	4.28	1.2		.6	5	0	"
83	11-20	1045A / 1050A	"	5.0	1.08	0.66	4.30	0.71		.6	5	-.01	"
84	11-28	200P / 210P	"	5.0	1.12	0.65	4.30	0.73		.6	5	0	"
85	12-4	310P / 315P	"	4.5	1.34	0.63	4.33	0.85		.6	6	0	"
86	12-16	530P / 552P	Andren-Brewer	32.0	17.9	2.38	5.01	42.7		.6	7	-.02	FC 12
87	12-17	1210P / 1215P	Luce-Pardieck	11.0	3.07	1.37	4.57	4.2		.6	6	0	FC 39
88	12-17	1240P / 1245P	" "	15.5	7.44	2.69	4.87	20.1		.6	8	0	"
89	12-20	1055A / 1100A	Luce	3.8	1.53	1.15	4.62	1.8		.6	8	0	"
90	12-23	1155A / 1245P	Andren-Brewer	87.0	67.6	4.16	5.75	281.		.6	10	-.50	FC 12
91	12-23	122P / 140P	" "	52.0	30.3	2.84	5.21	86.0		.6	11	-.18	"
92	12-23	935P / 940P	Luce-Pardieck	7.8	2.33	1.66	4.92	3.9		.6	6	0	FC 39
93	12-24	1027A / 1040A	Andren-Brewer	38.0	32.6	4.64	5.62	151.		.6	8	-.04	FC 12
94	12-24	140P / 147P	Luce-Pardieck	27.5	13.0	2.46	---	32.0		.6	9	---	FC 39
95	12-24	257P / 305P	Luce-Pardieck	23.5	10.0	2.52	5.33	25.4		.6	9	-.02	FC 39
96	12-27	1235P / 1245P	Luce	5.3	1.28	1.12	4.85	1.4		.6	6	0	"
97	1-2	1230P / 1240P	"	5.0	1.34	0.90	---	1.2		.6	4	---	"
98	1-7	1110A / 1120A	"	25.5	11.6	3.28	5.10	37.6		.6	11	-.01	"
99	1-7	243P / 253P	Luce-Pardieck	25.0	10.7	2.99	5.07	32.0		.6	10	+.02	"
100	1-9	1122A / 1132A	" "	17.5	9.25	2.81	5.02	26.2		.6	10	---	"
101	1-24	103A / 116A	Luce	Two Channels			5.75	61.1		.6	16	+.02	"
102	1-24	235A / 400A	Andren-Brewer	"	"		6.07	407.		.6	15	+.04	FC 12
103	1-24	630A / 715A	" "	"	"		6.14	344.		.6	19	-.28	FC 12
104	1-24	1015A / 1030A	Andren-Brewer	43.0	23.5	3.74	5.62	87.9		.6	10	-.04	FC 12
105	1-24	215P / 225P	Luce-Pardieck	Two Channels			5.44	69.1		.6	12	0	FC 39
106	1-27	1050A / 1105A	Luce	"	"		5.26	37.3		.6	12	0	"
107	1-30	100P / 115P	"	"	"		5.42	36.9		.6	12	+.02	"
108	2-6	1043A / 1050A	Luce-Pardieck	36.5	28.2	4.01	5.90	113.		.6	10	-.02	"
109	2-6	1050A / 1100A	" "	36.5	27.5	3.82	5.88	105.		.6	10	-.01	"
110	2-6	525P / 531P	Luce	28.0	15.2	2.96	5.46	45.3		.6	9	-.01	"
111	2-7	500P / 510P	"	27.5	13.1	3.21	5.36	42.2		.6	11	+.02	"
112	2-11	130P / 200P	"	Three Channels			6.45	621.		.6	23	-.10	"
113	2-11	220P / 240P	Luce-Hedge	Two Channels			6.29	455.		.6	19	-.10	"
114	2-11	255P / 310P	" "	"	"		6.16	327.		.6	16	-.08	"
115	2-11	405P / 425P	" "	"	"		5.92	184.		.6	17	-.04	"
116	2-12	220P / 230P	Luce	31.7	16.8	3.81	5.36	63.5		.6	10	0	"
117	2-14	1215P / 1235P	"	Two Channels			5.12	9.6		.6	13	0	"
118	2-15	847A / 907A	Luce-Pardieck	"	"		5.91	210.		.6	19	+.02	"
119	2-20	437P / 454P	" "	108.0	85.9	5.38	6.81	462.		.6	16	-.02	"
120	2-22	616P / 636P	" "	Three Channels			6.69	291.		.6	21	-.02	"
121	2-25	235P / 245P	" "	Two Channels			6.11	60.7		.6	12	+.02	"
122	2-27	125P / 135P	Luce	"	"		6.14	39.6		.6	11	0	"
123	3-1	113P / 132P	Luce-Pardieck	121.0	80.0	4.25	6.76	340.		.6	14	-.06	"
124	3-4	1258P / 157P	" "	306.0	529.	8.83	9.28	4670.		.6	18	-.06 +.10	FC 41
125	3-6	448P / 500P	" "	75.5	47.1	3.89	6.92	183.		.6	14	-.01	FC 39
126	3-17	1050A / 1110A	Luce	42.5	18.3	3.72	7.05	68.3		.6	11	-.03	"
127	3-28	1000A / 1015A	"	55.5	15.6	2.24	6.83	34.9		.6	13	0	"
128	3-30	1008A / 1025A	Luce-Pardieck	Two Channels			6.67	45.4		.6	15	0	FC 39
129	3-31	518P / 542P	" "	"	"		6.94	208.		.6	22	-.07	"
130	4-1	921A / 933A	" "	74.0	45.3	4.11	6.86	186.		.6	14	-.03	"
131	4-2	350P / 402P	" "	57.0	29.4	3.33	6.98	97.7		.6	15	0	"
132	4-5	809A / 850A	" "	Two Channels			7.26	350.		.6	25	0	"
133	4-8	605P / 620P	" "	"	"		6.70	86.0		.6	16	+.05	"
134	4-11 / 4-12	1137P / 1207A	" "	Three Channels			7.07	239.		.6	26	0	"
135	5-1	1100A / 1119A	" "	Two Channels			6.38	115.		.6	20	0	"
136	5-9	645A / 705A	Luce	52.0	17.3	2.89	6.26	50.0		.6	12	0	"
137	5-22	645P / 700P	"	Two Channels			6.20	10.8		.6	7	0	FC 41
138	5-28	335P / 345P	Luce-Turner	30.0	6.68	1.27	6.16	8.5		.6	10	0	FC 39
139	6-4	500P / 515P	Turner	Three Channels			6.16	8.3		.6	8	0	FC 5
140	6-12	310P / 325P	"	28.0	4.52	1.10	6.13	5.0		.6	11	0	"
141	6-18	1235P / 1240P	"	23.0	4.40	1.36	6.14	6.0		.6	8	0	"
142	6-25	115P / 130P	"	22.0	3.25	1.42	6.11	4.6		.6	9	0	"
143	7-2	1215P / 1225P	"	Two Channels			6.14	3.6		.6	9	0	"
144	7-9	155P / 205P	"	9.0	2.38	1.39	6.02	3.3		.6	5	0	"
144A	7-16	1152A / 1204P	Luce	Three Channels			6.03	3.6		.6	11	0	FC 39
145	7-24	315P / 330P	"	Two Channels			6.01	3.3		.6	8	0	"
146	7-31	255P / 305P	"	"	"		6.00	2.5		.6	8	0	"
147	8-7	1225P / 1240P	"	"	"		6.00	3.2		.6	8	0	"
148	8-13	310P / 320P	Turner	"	"		5.96	2.1		.6	8	0	FC 5
149	8-21	1045A / 1055A	Luce	"	"		5.95	3.3		.6	14	0	FC 39
150	8-28	405P / 415P	"	"	"		5.91	3.0		.6	9	0	"
151	9-4	1150A / 1200N	Luce	Two Channels			5.85	2.6		.6	10	0	FC 39
152	9-11	1200N / 1215P	"	12.5	2.02	1.02	5.84	2.1		.6	9	0	"
153	9-26	447P / 455P	"	Two Channels			5.77	2.7		.6	11	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

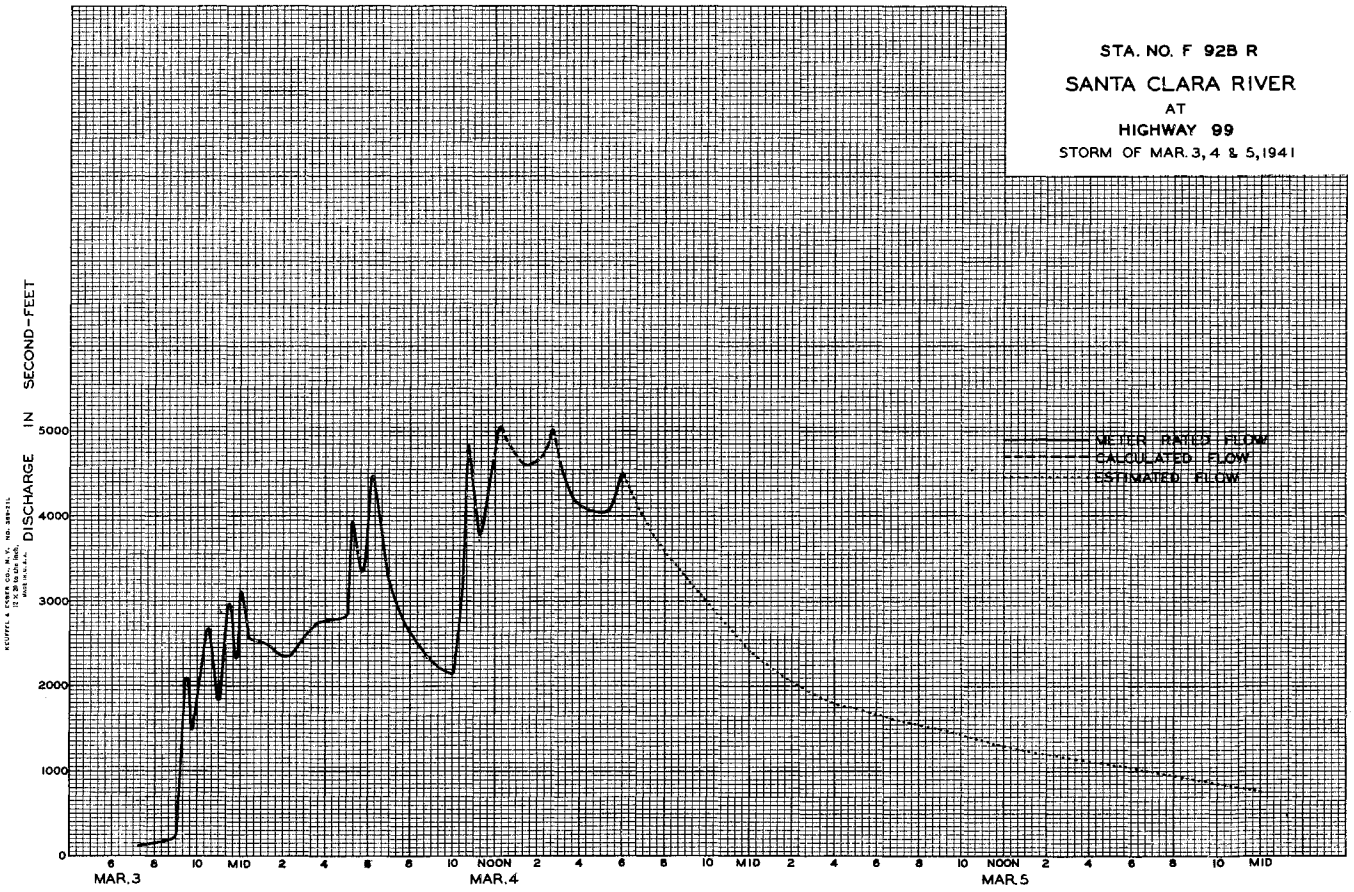
Sta. No F92B-R

Daily discharge, in second-feet of SANTA CLARA RIVER at Highway 99 for the year ending September 30, 1941

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	0.8	0.8	E 1.5	29	473	250	111	8	3.0	1.9	2.8
2	0.3	0.9	0.8	E 1.2	31	164	104	108	7.5	2.8	2.8	2.6
3	0.3	0.9	0.9	E 8.5	E 30	396	70	93	8	2.2	3.0	2.6
4	0.3	1.0	0.9	E 28	E 29	3450	156	80	7	2.2	2.6	2.6
5	0.3	1.0	0.9	E 32	E 29	1390E	318	62	7	2.8	3.0	2.6
6	0.3	1.2	0.9	43	164	383	155	48	6	3.2	3.8	2.6
7	0.3	1.2	0.9	40	176	123	44	7	3.4	3.4	1.9	
8	0.3	1.2	0.9	29	38	154	99	46	6.5	3.8	2.8	1.6
9	0.4	1.2	0.9	28	40	169	115	42	6	3.6	1.9	2.0
10	0.4	1.2	0.9	27	42	175	151	42	6	3.8	1.9	2.2
11	0.3	1.0	1.0	27	185	159	406	41	5.5	3.2	1.7	2.0
12	0.3	1.0	1.0	26	73	209	241	33	5.5	3.8	1.7	1.8
13	0.3	0.9	0.9	27	31	126	183	26	5	3.8	1.7	1.9
14	0.3	0.8	0.9	28	125	108	155	22	6.5	3.6	1.8	2.4
15	0.3	0.8	1.0	28	270	90	147	22	6	3.6	1.9	2.4
16	0.3	0.8	57	28	58	77	141	21	6	3.2	2.0	2.4
17	0.3	0.9	149	28	295	67	135	17	7	3.2	2.2	2.4
18	0.3	0.8	4.6	27	E 60	67	123	15	6	2.8	2.4	2.2
19	0.3	0.7	2.0	28	190	60	108	14	4.0	2.6	2.8	2.2
20	0.3	0.7	1.8	28	774	58	93	13	4.8	2.8	3.4	1.9
21	0.3	0.8	1.8	31	577	54	90	12	4.4	2.6	3.4	1.9
22	0.3	0.7	1.8	56	542	48	82	10	4.0	2.6	2.8	1.9
23	0.3	0.7	356	E 35	146	46	80	9.5	4.4	3.0	2.8	1.9
24	0.3	0.8	64	165	110	42	80	8	4.4	3.4	3.0	1.9
25	0.9	0.6	4.1	40	71	41	80	9.5	4.8	3.4	3.2	1.9
26	1.2	0.7	2.0	36	73	41	80	12	4.0	3.2	3.2	1.9
27	0.8	0.6	1.7	48	53	38	90	11	3.4	2.6	3.4	1.9
28	0.7	0.6	1.8	40	630	59	96	11	3.2	2.6	2.8	2.6
29	0.7	0.6	2.8	37		158	99	6.5	3.0	2.0	2.2	2.4
30	0.6	0.8	5.5	36		48	123	7	3.0	2.2	2.2	2.6
31	0.7		E 3.5	34		212		9		2.2	2.6	
	13.0	26.7	673.0	1071.2	4735	8738	4173	1005.5	163.9	93.2	80.3	66.0
Mean	0.42	0.89	21.7	34.6	169.	282.	139.	32.4	5.46	3.01	2.59	2.20
Acre-Feet	26.	53.	1330.	2120.	9390.	17330.	8280.	1990.	325.	185.	159.	131.

Remarks: E = estimated.

Year or Period — Mean 57.1 — Acre-Feet 41300.



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 northeast 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 435 feet below the station. After February 15, 1941, high flows were 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 a 20" corrugated iron pipe stilling well.
An H.C.F. recorder was in operation from October 1, 1940 to September 30, 1941.

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, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 3010 second-feet, December 23.
Minimum + flow at various times.
1932-1941
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. F185R

DISCHARGE MEASUREMENTS OF SEPULVEDA CREEK

AT Charnock Road

DURING THE YEAR ENDING SEPTEMBER 30, 19 41

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
236	10-3	1108A / 1109A	Moon	2.0	0.20	0.45	3.70	0.09		.6	2	0	FC 22
237	1-17	431P / 432P	"	2.5	0.28	0.21	3.70	0.06		.6	2	0	"
238	10-24	1116A / 1117A	"	2.5	0.25	0.28	3.70	0.07		.6	2	0	"
239	10-25	126P / 135P	"	23.0	20.7	1.35	4.89	28.0		.6	7	-.02	"
240	10-25	535P / 548P	"	24.0	16.5	1.12	4.82	18.5		.6	8	-.06	"
241	10-26	1223P / 1224P	"	1.4	0.11	0.36	4.03	0.04		.6	2	0	"
242	10-31	949A / 950A	"	1.0	0.06	0.67	4.02	0.04		.6	2	0	"
243	11-7	1111A / 1112A	"	1.0	0.06	0.67	4.01	0.04	Float	2	0	---	
244	11-14	426P / 427P	"	1.2	0.12	0.75	4.03	0.09		.6	2	0	FC 22
245	11-18	213A / 219A	Moon-Eckert	5.0	1.87	1.63	4.28	3.0		.6	4	-.01	"
246	11-20	902A / 903A	Moon	1.5	0.08	0.75	4.01	0.06		.6	2	0	"
247	11-28	848A / 849A	"	1.0	0.05	1.00	3.99	0.05	Float	--	0	---	
248	12-5	1025A / 1026A	"	1.0	0.05	0.80	3.98	0.04	Float	--	0	---	
249	12-12	1045A / 1046A	Moon	1.2	0.07	0.70	3.98	0.05		.6	2	0	FC 22
250	12-16	420A / 431A	Moon	27.0	32.0	1.84	5.61	58.9		.6	5	+.10	FC 22
251	12-16	715A / 723A	"	24.0	26.8	2.16	5.35	58.0		.6	6	+.03	"
252	12-16	933A / 944A	"	31.0	46.9	2.96	5.60	139.		.6	6	-.35	"
253	12-16	150P / 159P	"	23.0	14.5	1.41	4.81	20.4		.6	6	-.03	"
254	12-16	1128P / 1141P	"	34.0	74.8	3.94	6.64	295.		.6	5	-.43	"
255	12-17	1206P / 1212P	Moon-Mellen	12.0	3.38	1.11	4.52	3.8		.6	6	-.02	"
256	12-18	1021A / 1025A	Moon	1.2	0.08	0.50	4.13	0.04		.6	2	0	"
257	12-18	755P / 806P	Moon-Mellen	24.5	15.6	1.66	4.88	26.0		.6	8	-.05	"
258	12-19	1236P / 1237P	Moon	1.2	0.14	0.86	4.48	0.12		.6	2	0	"
259	12-23	320P / 327P	Moon-Mellen	11.5	5.68	1.76	4.19	10.0		.6	7	-.01	FC 22
260	12-24	837A / 854A	" "	37.0	93.3	5.41	7.25	504.		.6	8	+.08 -.18	"
261	12-24	305P / 315P	" "	12.0	7.75	1.08	4.33	8.4		.6	6	-.01	"
262	12-26	858A / 902A	Moon	2.0	0.38	1.08	3.93	0.41		.6	4	0	"
263	12-29	1210A / 1222A	"	23.0	21.6	1.66	4.85	35.7		.6	7	-.05	"
264	12-29	935A / 940A	Moon-Mellen	22.7	18.3	1.44	4.69	26.2		.6	7	+.03	"
265	12-30	1126A / 1127A	Moon	2.0	0.28	0.79	3.88	0.22		.6	2	0	"
266	1-2	1032A / 1033A	"	1.2	0.18	0.89	3.80	0.16		.6	2	0	"
267	1-7	1131A / 1141A	"	12.0	4.65	0.99	4.10	4.6		.6	6	+.01	"
268	1-9	1016A / 1017A	"	1.0	0.08	0.75	3.79	0.06		.6	2	0	"
269	1-10	1144A / 1155A	"	24.0	25.5	1.55	4.78	39.5		.6	8	-.10	"
270	1-10	1209P / 1217P	"	23.0	19.2	1.35	4.58	25.9		.6	7	-.08	"
271	1-11	248P / 249P	"	1.0	0.10	1.40	3.83	0.14		.6	2	0	"
272	1-14	601A / 611A	"	18.0	11.9	0.82	4.20	9.8		.6	6	-.03	"
273	1-14	930A / 936A	"	5.0	0.98	0.92	3.92	0.90		.6	5	0	"
274	1-16	1105A / 1106A	"	1.5	0.14	0.43	3.76	0.06		.6	2	0	"
275	1-21	1004P / 1014P	Moon-Mellen	31.0	58.8	3.88	6.18	228.		.6	6	-.33	"
276	1-22	834A / 837A	" "	3.5	0.80	0.59	3.83	0.47		.6	4	0	"
277	1-23	1230P / 1236P	Moon	4.5	1.22	0.73	3.86	0.89		.6	4	0	"
278	1-23	1056P / 1106P	Moon-Mellen	33.0	77.7	4.45	6.81	346.		.6	6	-.17	"
279	1-24	1027A / 1035A	Mellen-Moon	19.5	12.8	1.68	4.76	21.4		.6	6	-.03	"
280	1-25	1015A / 1019A	Moon-Eckert	3.0	0.28	1.36	4.03	0.38		.6	4	0	"
281	1-26	1038A / 1042A	Moon-Mellen	4.5	0.49	1.12	4.06	0.55		.6	4	-.01	"
282	1-30	1022A / 1023A	Moon	1.4	0.26	0.62	3.94	0.16		.6	2	0	"
283	2-6	627A / 645A	Moon	33.0	104.	4.37	7.42	455.		.6	8	-.84	FC 22
284	2-6	139P / 142P	Moon-Mellen	3.5	0.68	2.35	3.96	1.6		.6	3	-.01	"
285	2-7	1237P / 1239P	Moon	1.8	0.14	1.00	3.79	0.14		.6	2	0	"
286	2-11	954A / 1009A	Moon-Mellen	33.0	83.9	3.16	6.28	265.		.6	7	-.07	"
287	2-11	1029A / 1037A	" "	33.0	95.6	4.13	6.60	395.		.6	7	+.05	"
288	2-11	1105A / 1114A	" "	33.0	83.2	3.59	6.35	299.		.6	7	+.08	"
289	2-11	1136A / 1147A	" "	35.5	133.	5.64	7.82	752.		.6	8	-.34	"
290	2-11	417P / 422P	" "	12.0	5.68	1.57	4.13	8.9		.6	6	-.01	"
291	2-12	1039A / 1041A	Moon-Eckert	1.6	0.32	0.62	3.62	0.20		.6	2	0	"
292	2-13	1024A / 1027A	Moon	2.4	0.20	0.95	3.58	0.19		.6	3	-.01	"
293	2-14	117P / 131P	"	32.5	76.7	3.68	6.35	282.		.6	7	+.17	"
294	2-14	145P / 205P	"	34.0	107.	5.56	7.37	595.		.6	7	+.48	"
295	2-14	934P / 943P	Moon-Mellen	24.0	19.6	1.43	4.60	28.5		.6	8	-.03	"
296	2-15	1037A / 1056A	Moon-Eckert	40.5	212.	9.54	10.90	2020.		.6	8	+2.20	"
297	2-15	1249P / 100P	" "	32.0	93.2	3.11	6.47	290.		.6	7	-.35	"
298	2-16	1053A / 1059A	" "	7.0	2.23	1.30	3.58	2.9		.6	5	-.01	"
299	2-16	736P / 746P	" "	29.0	33.9	2.51	5.06	85.4		.6	8	+.05	"
300	2-17	409A / 426A	" "	38.5	161.	6.83	8.93	1100.		.6	8	+.02 -.42	"
301	2-17	1013A / 1023A	Moon-Mellen	25.0	22.0	1.76	4.60	38.6		.6	8	-.03	"
302	2-19	144P / 150P	Hall-Moon	19.0	15.6	1.41	4.33	22.0		.6	6	-.03	"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F185R

DISCHARGE MEASUREMENTS OF SEPULVEDA CREEK

AT Charnock Road DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.	S. HT. CHANGE TOTAL	METER NO.
303	2-20	254P 306P	Mellen-Eckert	18.0	16.1	1.12	4.23	17.9		.6	8	-.01	FC 42
304	2-21	920A 926A	Moon-Hall	27.0	44.0	3.23	5.60	142.		.6	7	.11	"
305	2-21	504P 512P	" "	33.0	83.2	5.58	7.01	416		.6	8	+.16	"
306	2-21	532P 541P	Moon-Hall	36.5	97.2	5.47	7.28	532.		.6	8	-.04	FC 22
307	2-22	225P 234P	Moon-Eckert	25.0	21.3	1.93	4.82	41.1		.6	6	-.01	"
308	2-24	1047A 1057A	Moon-Hall	29.0	45.3	3.49	5.66	158.		.6	8	-.12	"
309	2-25	1103A 1111A	Moon	9.0	5.80	1.41	4.18	8.2		.6	5	0	"
310	2-27	1008A 1015A	"	7.5	3.32	0.85	3.92	2.8		.6	5	0	"
311	2-28	213P 233P	Moon-Mellen	40.5	189.	8.68	10.02	1640.		.6	8	+.30 -.50	"
312	2-28	920P 932P	" "	34.5	60.2	4.08	6.33	246.		.6	7	-.28	"
313	3-1	157P 205P	" "	27.5	18.7	2.20	4.86	41.1		.6	7	-.01	"
314	3-2	1051A 1058A	" "	22.5	16.6	2.11	4.80	35.1		.6	7	-.01	"
315	3-3	340P 347P	Moon	13.0	8.30	1.69	4.39	14.3		.6	6	0	"
316	3-4	347A 400A	Moon-Mellen	33.0	82.7	3.76	6.06	311.		.6	7	+.44	"
317	3-4	412P 420P	Moon-Hall	29.0	44.1	4.06	5.68	179.		.6	7	-.16	"
318	3-5	1221P 1231P	Moon	24.0	24.3	2.13	4.54	51.8		.6	8	0	"
319	3-6	1136A 1149A	"	19.5	16.2	1.91	4.34	31.1		.6	8	0	"
320	3-10	144P 151P	"	12.0	4.35	1.38	3.74	6.0		.6	5	-.01	"
321	3-12	930A 942A	Moon-Eckert	28.0	60.3	4.13	5.92	249.		.6	7	+.73	"
322	3-12	1006A 1015A	" "	33.0	83.9	5.09	6.70	428.		.6	7	-.26	"
323	3-12	800P 813P	" "	34.0	91.8	4.23	6.84	388.		.6	7	-.19	"
324	3-13	1148A 1156A	" "	18.0	9.45	1.90	4.65	18.3		.6	7	0	"
325	3-20	936A 944A	Moon	11.5	4.68	1.18	4.24	5.5		.6	6	0	"
326	3-27	1046A 1050A	"	3.5	1.15	1.22	4.03	1.4		.6	4	0	"
327	3-28	654P 715P	Moon-Eckert	34.0	108.	6.39	7.97	691.		.6	7	+.65 -.10	"
328	3-29	1105A 1110A	" "	12.0	8.20	1.05	4.05	8.6		.6	6	+.01	"
329	3-31	455P 500P	Moon-Andren	10.0	6.40	1.44	4.31	9.2		.6	6	-.01	"
330	3-31	910P 930P	Moon-Mellen	39.0	156.	6.61	8.59	1030.		.6	9	+.07 -.25	FC 22
331	4-1	842A 852A	" "	21.0	15.1	2.98	4.89	44.8		.6	8	-.01	"
332	4-3	923A 932A	Moon	13.0	5.38	1.36	4.41	7.3		.6	7	0	"
333	4-4	1117P 1128P	Moon-Eckert	22.5	17.4	2.87	4.96	50.0		.6	8	-.05	"
334	4-5	949A 957A	" "	19.0	8.95	1.68	4.57	14.7		.6	7	0	"
335	4-10	905A 911A	Moon	9.0	4.20	1.52	4.32	6.4		.6	5	0	"
336	4-11	250A 301A	Moon-Eckert	23.0	14.2	1.83	4.69	25.8		.6	8	-.05	"
337	4-11	842A 848A	" "	23.0	12.0	2.00	4.61	23.9		.6	8	-.02	"
338	4-17	1016A 1020A	Moon	8.5	2.68	0.93	4.03	2.5		.6	4	+.01	"
339	4-21	440P 445P	"	4.5	1.85	0.34	3.90	0.63		.6	4	0	"
340	4-24	1020A 1024A	"	3.5	0.53	1.00	3.93	0.53		.6	4	0	"
341	4-30	751A 759A	"	26.0	16.1	2.36	4.72	37.8		.6	6	-.01	"
342	4-30	1009A 1022A	"	31.0	63.9	4.11	6.16	262.		.6	6	-.37	"
343	4-30	151P 158P	Moon-Mellen	11.5	5.45	1.83	4.25	10.4		.6	6	-.01	"
344	5-1	1025P 1031A	Moon	10.0	3.60	0.92	4.00	3.3		.6	5	+.02	"
345	5-8	1023A 1029A	"	10.0	3.00	1.39	4.08	4.2		.6	5	-.03	"
346	5-15	914A 919A	"	4.0	0.87	0.70	3.76	0.59		.6	5	0	"
347	5-22	957A 1002A	"	3.0	0.39	1.02	3.74	0.40		.6	4	0	"
348	5-29	956A 1002A	"	3.0	0.39	1.13	3.71	0.44		.6	5	0	"
349	6-5	944A 950A	"	3.0	0.35	1.14	3.72	0.40		.6	4	-.01	"
350	6-12	927A 932A	"	3.0	0.36	0.97	3.73	0.35		.6	4	0	"
351	6-19	1002A 1010A	"	9.5	3.96	1.77	4.14	7.0	Bur.	.6	7	0	"
352	6-26	1016A 1021A	"	4.5	0.77	1.10	3.79	0.87		.6	5	-.01	"
353	7-3	1010A 1015A	Moon	4.0	0.66	0.83	3.74	0.53		.6	4	0	FC 22
354	7-10	1017A 1021A	"	4.0	0.50	1.00	3.74	0.46		.6	4	0	"
355	7-17	1113A 1117A	"	4.0	0.74	1.08	3.80	0.80		.6	4	0	"
356	7-24	1037A 1042A	"	4.5	0.92	0.92	3.85	0.85		.6	5	0	"
357	7-31	1037A 1041A	"	3.5	0.47	0.72	3.69	0.34		.6	4	0	"
358	8-13	1111A 1117A	"	4.0	0.54	0.93	3.75	0.50		.6	6	0	"
359	9-3	1041A 1044A	Bonadiman	4.0	0.52	0.65	3.72	0.34		.6	2	0	FC 40
360	9-18	1015A 1050A	Moon	3.0	0.32	0.44	3.71	0.14		.6	4	0	FC 22

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

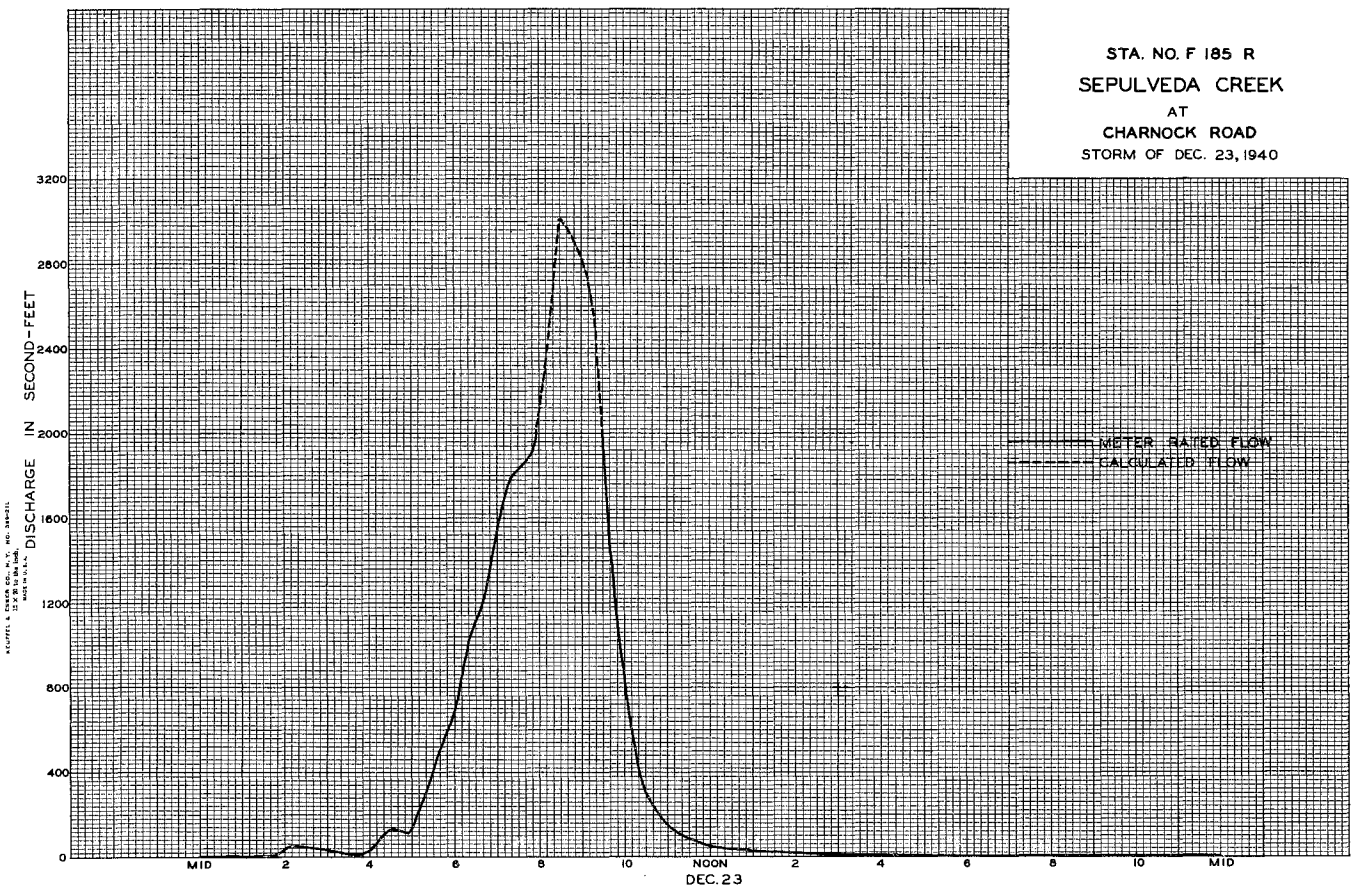
Sta. No F185R

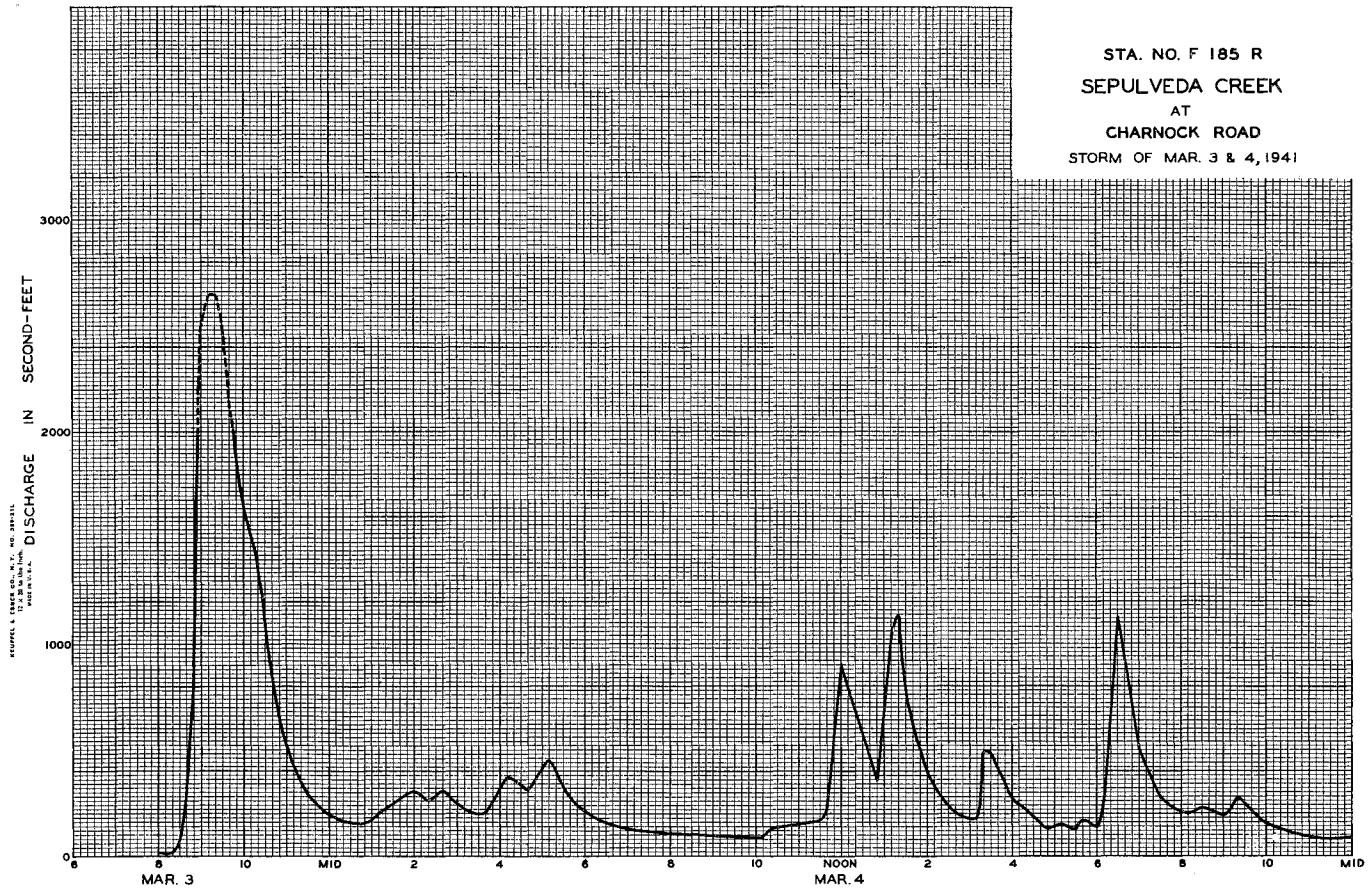
Daily discharge, in second-feet of SEPULVEDA CREEK at Charnock Road, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.2	0.1	0.2	+	90	46	3.3	0.3	0.6	0.6	0.4
2	0.1	0.1	0.1	0.3	0.1	99	23	0.8	0.4	0.7	0.5	0.3
3	0.1	0.1	0.1	0.3	0.2	186	8	1.1	0.4	0.7	0.5	0.2
4	0.1	0.1	0.1	0.3	+	271	63	E 0.9	0.4	0.6	0.5	0.3
5	0.2	0.1	0.1	0.2	0.1	E 47	7.5	E 0.9	0.5	0.7	0.6	0.3
6	0.1	0.1	0.1	0.5	199	E 34	12	E 0.8	0.4	0.6	0.6	0.2
7	0.2	0.1	0.1	19	0.1	24	11	E 0.7	0.5	0.6	0.6	0.3
8	0.2	0.2	0.1	0.1	3.8	17	10	0.9	0.4	0.6	0.6	0.2
9	0.1	0.1	0.1	0.1	0.2	11	11	0.4	0.4	0.6	0.6	0.2
10	0.1	0.1	0.1	2.8	0.3	6	32	0.5	0.5	0.6	0.6	0.5
11	0.1	0.1	0.1	+	63	4.6	37	0.3	0.4	0.5	0.5	0.1
12	0.2	0.1	0.9	0.1	0.2	175	21	0.4	0.3	0.6	0.3	0.1
13	0.1	0.1	0.1	0.2	0.2	34	4.5	0.5	0.2	0.6	0.5	0.1
14	0.1	0.1	+	10	145	14	3.6	0.5	0.1	0.6	0.4	0.2
15	0.1	0.1	+	0.3	190	10	3.0	0.5	0.2	0.6	0.3	0.2
16	0.1	0.1	88	0.2	45	7.5	2.5	0.4	2.7	0.6	0.3	0.3
17	0.1	0.7	27	0.2	160	7	2.2	0.4	0.6	0.6	0.3	0.2
18	0.2	1.0	85	0.2	6	7	1.6	0.5	4.9	0.8	0.4	0.1
19	0.2	+	0.1	0.6	14	6.5	1.3	0.5	7	0.9	0.4	0.1
20	0.2	0.1	+	0.5	124	6	0.9	0.4	3.4	0.9	0.4	0.2
21	0.2	+	+	21	221	5.5	0.7	0.3	1.6	0.8	0.4	0.3
22	0.1	+	+	15	142	4.1	0.7	0.2	1.9	0.8	0.3	0.3
23	0.1	+	369	42	12	3.4	0.7	0.3	1.8	0.9	0.3	0.2
24	0.1	+	198	207	90	3.0	0.6	0.2	1.6	0.7	0.3	0.2
25	41	+	0.5	0.4	9	2.1	0.3	0.2	1.8	1.0	0.3	0.2
26	8.5	0.1	0.4	3.0	6.5	1.6	0.4	0.4	0.9	1.8	0.3	0.2
27	0.2	+	0.4	0.3	2.9	1.4	0.4	0.4	0.6	2.1	0.2	0.2
28	0.1	+	4.2	0.4	373	49	0.4	0.4	0.5	2.3	0.2	0.2
29	0.2	0.1	9	0.2		46	0.7	0.5	0.5	0.7	0.2	0.3
30	0.3	0.1	0.2	0.2		3.6	57	0.5	0.6	0.4	0.2	0.3
31	0.1		0.3	0.1		150 E		0.5		0.4	0.3	
	53.7	3.9	784.2	325.7	1807.6	1326.3	363.0	18.6	35.8	24.9.	12.5	6.9
MEAN	1.73	0.13	25.3	10.5	64.6	42.8	12.1	0.60	1.19	0.80	0.40	0.23
ACRE-FEET	107.	7.7	1560.	646.	3590.	2630.	720.	37.	71.	49.	25.	14.

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

YEAR OR PERIOD — MEAN 13.0 — ACRE FEET 9460


STA. NO. F 185 R
SEPULVEDA CREEK
AT
CHARNOCK ROAD
STORM OF DEC. 23, 1940
DISCHARGE IN SECOND-FEET
3200
2800
2400
2000
1600
1200
800
400
0
METER RATED FLOW
CALCULATED FLOW
MID
2
4
6
8
10
NOON
2
4
6
8
10
MID
DEC. 23


STA. NO. F 185 R
SEPULVEDA CREEK
AT
CHARNOCK ROAD
STORM OF MAR. 3 & 4, 1941
DISCHARGE IN SECOND-FEET
3000
2000
1000
0
6
8
10
MID
2
4
6
8
10
NOON
2
4
6
8
10
MID
MAR. 3
MAR. 4

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 flow 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.
Rational Duplex recorder was in service from October 1, 1938 to February 21, 1939.
Stevens type L recorder was in service from October 1, 1940 to September 30, 1941

REGULATIONS:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

From January 30, 1928 to April 6, 1932 and from October 1, 1935 to September 30, 1941. 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, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum not determined February 20, (recorder house flooded)
Minimum no flow at various times.
1928-1941
Maximum not determined.
Minimum no flow at various times.

ACCURACY:

Fair. Flows frequently estimated by comparison due to sand deposits in stilling well.
Low flows interpolated between weekly measurements.

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. F43R

Daily discharge, in second-feet of SYCAMORE UPPER STORM DRAIN above Solway Street for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	+	0	+	+	15	1.6	1.5	0.4	0.2	0.2	0.1
2	0	+	0	+	+	9	1.2	1.0	0.4	0.2	0.2	0.1
3	0	0	0	+	+	12	1.0	0.5	0.3	0.2	0.2	0.1
4	+	+	0	+	+	79	3.8	0.5	0.3	0.2	0.2	0.1
5	0	+	0	+	+	34	1.8	0.4	0.3	0.2	0.2	0.1
6	0	+	+	+	1.5	14	1.4	0.3	0.3	0.2	0.2	0.1
7	0	+	+	+	+	3.7	1.4	0.3	0.3	0.2	0.2	0.1
8	+	+	0	+	+	2.6	1.4	0.3	0.3	0.2	0.2	0.1
9	0	+	0	0.1	+	2.0	2.8	0.4	0.3	0.2	0.2	0.1
10	0	+	+	+	+	1.4	3.0	0.5	0.3	0.2	0.2	0.1
11	0	+	+	+	0.3	0.8	2.6	0.5	0.3	0.2	0.2	0.1
12	0	+	+	+	+	0.6	1.0	0.6	0.3	0.2	0.1	0.1
13	0	+	+	+	+	0.6	0.8	0.6	0.3	0.2	0.1	0.1
14	0	+	0	+	4.6	0.6	0.6	0.7	0.3	0.2	0.1	0.1
15	0	+	0	+	1.6	0.6	0.6	0.7	0.3	0.2	0.1	0.1
16	0	+	0.3	+	1.0	0.6	0.5	0.8	0.3	0.2	0.1	0.1
17	0	+	0.1	+	3.6	0.6	0.5	0.5	0.3	0.2	0.1	0.1
18	0	+	0.2	+	1.6	0.6	1.4	0.5	0.3	0.2	0.1	0.1
19	0	0	+	+	1.6	0.6	1.2	0.5	0.3	0.2	0.1	0.1
20	0	+	+	+	E 4.0	0.6	1.2	0.5	0.3	0.2	0.1	0.1
21	0	+	+	+	3.0	0.6	0.8	0.5	0.3	0.2	0.1	0.1
22	0	+	+	+	2.0	0.5	1.0	0.5	0.3	0.2	0.1	+
23	0	0	2.5	+	0.5	0.5	0.8	0.5	0.3	0.2	0.1	+
24	0	0	0.4	+	0.3	0.5	0.6	0.5	0.3	0.2	0.1	+
25	0.5	0	0.1	+	0.2	0.6	0.5	0.5	0.3	0.2	0.1	+
26	0.1	0	0.1	+	0.2	0.8	0.5	0.5	0.3	0.2	0.1	+
27	+	0	0.1	+	0.2	0.6	0.5	0.5	0.3	0.2	0.1	+
28	0	0	0.1	+	E 3.0	6	1.0	0.5	0.2	0.2	0.1	+
29	0	+	0.1	+		6.5	1.5	0.5	0.2	0.2	0.1	+
30	0	+	0.1	+		1.2	4.0	0.5	0.2	0.2	0.1	+
31	+		+	+		3.6		0.4		0.2	0.0	
	0.6	+	4.1	0.1	151.6	200.3	41.0	17.0	8.9	6.2	4.2	2.1
Mean	0.02	+	0.13	+	5.41	6.46	1.37	0.55	0.30	0.20	0.14	0.07
Acre-Feet	+	+	8.1	0.2	301.	397.	81.	34.	18.	12.	8.3	4.2

Remarks: E = estimated. + = 0.05 c.f.s. or less.
All flows estimated or interpolated beginning April 26.

Year or Period: Mean 1.19; Acre-Feet 864.

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, 1927 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, 1940 to September 30, 1941.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

December 15, 1927 to September 30, 1941

EXTREMES OF DISCHARGE:

1940-1941
Maximum not determined, February 20 (recorder house flooded)
Minimum no flow at various times.
1927-1941
Maximum 2800 second-feet, estimated, March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Poor. Flows frequently estimated by comparison due to recordsr failure or sand deposit in stilling well.
Stopped clock for summer months.
Low flows estimated or interpolated between weekly measurements.

OPERATION:

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

F.C. Dist. Form 51 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F44R

Daily discharge, in second-feet of SYCAMORE LOWER STORM DRAIN at Adams Square, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	+	+	+	0.1	E 25	14	10	0.7	0.4	0.1	+
2	0	+	+	+	+	20	E 2.0	6	0.7	0.4	0.1	+
3	0	+	+	+	+	40	E 1.5	4.5	0.7	0.3	0.1	+
4	0	+	+	+	+	200	19	3.5	0.7	0.3	0.1	+
5	0	+	+	+	+	60	E 5	2.5	0.7	0.3	0.1	+
6	0	+	0	0.4	23	20	E 2.0	2.0	0.6	0.3	0.1	+
7	0	+	+	1.0	0.2	10	E 1.0	2.0	0.6	0.3	0.1	+
8	+	+	0	+	0.1	7	E 1.0	1.5	0.6	0.3	0.1	+
9	+	+	0	+	0.1	8	E 1.0	1.5	0.6	0.3	0.1	+
10	+	+	+	2.3	0.1	15	12	1.5	0.6	0.3	0.1	+
11	+	0	1.1	+	12	8	9	1.5	0.6	0.3	0.1	+
12	+	0	0.7	+	0.1	E 40	4.0	1.0	0.6	0.3	0.1	+
13	+	0	0.1	0.5	0.1	15	i 2.5	1.0	0.6	0.3	0.1	+
14	+	0	0	3.4	37	18	E 1.0	1.0	0.6	0.3	0.1	+
15	+	+	0	+	18	7.5	7	0.9	0.5	0.3	0.1	+
16	+	+	27	+	19	E 4.0	6	0.9	0.5	0.2	0.1	+
17	+	1.5	14	+	26	3.0	5	0.9	0.5	0.2	0.1	+
18	+	2.6	7.5	+	7	2.5	4.5	0.9	0.5	0.2	0.1	+
19	+	+	+	+	E100	2.5	4.0	0.8	0.5	0.2	0.1	+
20	+	+	+	+	150	2.5	3.5	0.8	0.5	0.2	0.1	+
21	+	0	+	3.4	100	2.0	3.0	0.8	0.5	0.2	0.1	+
22	0	+	+	1.7	60	2.0	2.5	0.8	0.5	0.2	0.1	+
23	0	0	40	2.3	4.5	2.0	2.5	0.8	0.5	0.2	0.1	+
24	+	0	21	16	5	1.5	2.0	0.8	0.5	0.2	0.1	+
25	2.1	+	0.3	0.3	7	1.5	2.0	0.8	0.4	0.2	0.1	+
26	3.0	+	0.2	3.7	2.0	1.0	1.5	0.8	0.4	0.1	0.1	+
27	+	0	0.2	0.2	1.0	E 1.0	1.5	0.7	0.4	0.1	0.1	+
28	0	0	1.0	0.2	E 70	28	E 1.4	0.7	0.4	0.1	0.1	+
29	0	0	1.8	0.2		23	4.3	0.7	0.4	0.1	+	+
30	0	0	1.3	0.1		E 2.0	18	0.7	0.4	0.1	+	+
31	+		+	0.1		28		0.7		0.1	+	
	24.0	4.1	116.2	35.8	642.3	600.0	143.7	53.0	16.3	7.3	2.8	+
MEAN	0.77	0.14	3.75	1.15	22.9	19.4	4.79	1.71	0.54	0.24	0.09	+
ACRE-FEET	48.	8.1	230.	71.	1270.	1190.	285.	105.	32.	14.	5.6	+

Remarks: E = estimated. i = interpolated. + = 0.05 c.f.s. or less.
All flows estimated or interpolated beginning May 1.

YEAR OR PERIOD — MEAN 4.51 — ACRE-FEET 3260.

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 January 14, 1941 to September 30, 1941.

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, 1941.

EXTREMES OF DISCHARGE:

1940-41
Maximum 18.6 second-feet April 1.
Minimum no flow most of each year.

ACCURACY:

Good.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F276R

DISCHARGE MEASUREMENTS OF THOMPSON CREEK SPREADING GROUNDS INTAKE

AT Thompson Creek Dam DURING THE YEAR ENDING SEPTEMBER 30, 1941

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	3-5	1015A / 1020A	Brewster-Smith	1.0	0.34	1.09	0.28	0.37		.6	2	0	FC 24
2	3-7	540P / 550P	Brewster	7.0	2.95	1.48	0.75	4.4		.6	4	0	"
3	3-10	1054A / 1100A	"	3.0	1.34	1.27	0.50	1.7		.6	6	0	"
4	3-12	1014A / 1020A	"	3.0	1.34	1.27	0.52	1.7		.6	5	0	"
5	3-14	1235P / 1245P	Brewster-Smith	8.0	4.80	2.93	1.21	14.0		.6	8	0	"
6	3-15	430P / 440P	" "	10.0	4.00	2.35	1.00	9.4		.6	6	0	"
7	3-17	428P / 440P	Brewster	6.0	3.30	1.82	0.76	6.0		.6	5	0	"
8	3-19	450P / 500P	"	5.0	2.24	1.65	0.63	3.7		.6	5	0	"
9	3-24	250P / 300P	"	5.0	1.30	0.73	0.39	0.95		.6	5	0	"
10	3-26	432P / 440P	"	5.0	1.26	0.71	0.33	0.90		.6	5	0	"
11	3-29	935A / 940A	Brewster-Smith	1.0	0.41	0.41	0.20	0.17		.6	2	0	"
12	4-2	315P / 322P	Brewster	7.0	3.66	2.62	1.01	9.6		.6	6	0	"
13	4-5	915A / 920A	"	2.0	0.24	0.58	0.23	0.14		.6	2	0	"
14	4-5	1020A / 1030A	"	7.0	3.50	2.00	0.89	7.0		.6	6	0	"
15	4-9	320P / 328P	"	7.0	1.97	1.22	0.66	2.4		.6	4	0	"
16	4-16	400P / 406P	"	6.0	2.44	1.31	0.58	3.2		.6	4	0	"
17	4-21	300P / 308P	"	6.0	2.04	1.08	0.49	2.2		.6	4	0	"
18	4-23	254P / 300P	"	4.0	1.14	0.83	0.37	0.95		.6	4	0	"
19	4-28	108P / 115P	"	4.0	1.02	0.54	0.29	0.55		.6	4	0	"
20	4-30	1135A / 1145A	"	6.0	2.16	1.39	0.62	3.0		.6	4	+.01	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F276R

Daily discharge, in second-feet of THOMPSON CREEK SPREADING GROUNDS INTAKE at Thompson Creek Dam, for the year ending September 30, 1941

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	6	0.7	0	0	0	0
2	0	0	0	0	0	0	11	0.6	0	0	0	0
3	0	0	0	0	0	1.6	7.5	0.6	0	0	0	0
4	0	0	0	0	0	0.4	5	0.4	0	0	0	0
5	0	0	0	0	0	0.2	4.1	0.2	0	0	0	0
6	0	0	0	0	0	3.6	5.5	0.1	0	0	0	0
7	0	0	0	0	0	4.9	4.5	+	0	0	0	0
8	0	0	0	0	0	3.3	3.6	+	0	0	0	0
9	0	0	0	0	0	2.6	2.9	0	0	0	0	0
10	0	0	0	0	0	1.8	3.3	0	0	0	0	0
11	0	0	0	0	0	1.6	1.7	0	0	0	0	0
12	0	0	0	0	0	2.5	5	0	0	0	0	0
13	0	0	0	0	0	0	4.6	0	0	0	0	0
14	0	0	0	0	0	3.6	4.1	0	0	0	0	0
15	0	0	0	0	0	6.5	3.7	0	0	0	0	0
16	0	0	0	0	0	E 7.5	3.4	0	0	0	0	0
17	0	0	0	0	0	E 6.5	3.2	0	0	0	0	0
18	0	0	0	0	0	5	3.0	0	0	0	0	0
19	0	0	0	0	0	4.1	2.8	0	0	0	0	0
20	0	0	0	0	0	3.3	2.6	0	0	0	0	0
21	0	0	0	0	0	2.8	2.4	0	0	0	0	0
22	0	0	0	0	0	2.1	2.0	0	0	0	0	0
23	0	0	0	0	0	1.8	1.3	0	0	0	0	0
24	0	0	0	0	0	1.2	1.1	0	0	0	0	0
25	0	0	0	0	0	1.1	1.0	0	0	0	0	0
26	0	0	0	0	0	1.1	1.0	0	0	0	0	0
27	0	0	0	0	0	0.8	0.9	0	0	0	0	0
28	0	0	0	0	0	0.6	0.7	0	0	0	0	0
29	0	0	0	0		0.1	0.7	0	0	0	0	0
30	0	0	0	0		0.7	0.8	0	0	0	0	0
31	0		0	0		0.7		0		0	0	
	0		0		0		99.4		0		0	
		0		0		72.0		2.6		0		0
MEAN	0	0	0	0	0	2.32	3.31	0.08	0	0	0	0
ACRE-FEET	0	0	0	0	0	143.	197.	5.2	0	0	0	0

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

YEAR OR PERIOD MEAN 0.48
ACRE-FEET 345.

STATION F54B-R

TOPANGA CREEK above Mouth of Canyon

LOCATION:

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.

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. An H.C.F. continuous recorder was in service from October 1, 1940 to February 20, 1941; and from March 1, 1941 to September 30, 1941. A horizontal Rational recorder was in service from February 24, 1941 to March 1, 1941.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

January 1, 1930 to September 30, 1941.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 8700 second-feet, estimated February 20.
Minimum + at various times.
1930-1941
Maximum 9300 second-feet, estimated March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Fair.
Records occasionally estimated or interpolated due to recorder clock stopping or extreme control shifts. Communication occasionally obstructed by sand.

OPERATION:

Located, constructed and opsrated 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

DISCHARGE MEASUREMENTS OF TOPANGA CREEK

at above Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
229	10-24	1214P 1215P	Moon	2.0	0.12	0.22	1.68	0.03		.6	2	0	FC 22
230	10-25	322P 328P	"	5.0	1.80	0.89	2.80	1.6		.6	5	0	"
231	10-25	340P 346P	"	5.0	1.76	0.89	2.80	1.6		.6	5	0	"
232	10-31	205P 206P	"	1.5	0.09	0.45	2.12	0.04	Float	2	0		"
233	11-20	255P 256P	"	2.0	0.14	0.43	1.90	0.06	Float	2	0		"
234	11-28	316P 317P	"	1.5	0.09	0.44	1.83	0.04	Float	2	0		"
235	12-5	327P 328P	"	1.6	0.10	0.40	1.80	0.04	Float	2	0		"
236	12-12	409P 410P	"	1.8	0.10	0.60	2.04	0.06	Float	2	0		"
237	12-16	1039A 1047A	"	Two Channels			2.75	0.93		.6	6	0	FC 22
238	12-17	230A 243A	Moon-Mellen	26.0	40.5	5.94	4.95	240.		.6	6	-.14	"
239	12-17	250A 300A	" "	26.0	33.1	5.24	4.79	173.		.6	6	-.10	"
240	12-17	528A 537A	" "	Two Channels			3.68	30.3		.6	9	-.03	"
241	12-17	640A 645A	" "	24.5	7.54	2.76	3.44	20.8		.6	8	-.01	"
242	12-18	300P 308P	Moon	22.0	14.3	3.58	3.78	51.3		.6	7	-.24	"
243	12-18	314P 323P	"	21.2	14.1	3.68	3.78	51.8		.6	7	+.05	"
244	12-18	447P 502P	"	27.0	53.8	5.82	5.24	313.		.6	5	-.48 +.06	"
245	12-18	520P 541P	"	34.0	113.	7.02	6.01	793.		.6	7	-.32	"
246	12-18	923P 935P	Moon-Mellen	20.0	11.6	4.44	3.84	51.4		.6	8	+.05 -.08	"
247	12-19	231P 239P	Moon	5.5	1.86	1.67	---	3.1		.6	6	---	"
248	12-20	906A 911A	"	4.0	0.74	1.06	2.77	0.79		.6	4	0	"
249	12-23	143P 158P	Moon-Mellen	Two Channels			4.07	112.		.6	14	-.10	"
250	12-23	159P 212P	" "	"	"		4.02	94.1		.6	14	-.03	"
251	12-24	1237P 1247P	" "	25.0	33.5	3.62	4.22	121.		.6	5	-.02	"
252	12-26	312P 321P	Moon	9.0	5.64	1.06	2.68	6.0		.6	7	0	FC 22
253	12-30	1245P 1255P	Moon	8.5	3.40	1.23	2.57	4.2		.6	7	0	FC 22
254	1-2	1234P 1242P	"	8.0	2.69	0.89	2.48	2.4		.6	7	0	"
255	1-9	102P 111P	"	8.5	2.95	1.04	2.56	3.1		.6	7	0	"
256	1-14	824A 832A	"	7.5	3.77	0.76	2.61	2.9		.6	6	0	"
257	1-16	140P 146P	"	5.0	1.10	1.14	2.47	1.3		.6	5	0	"
258	1-22	915A 925A	Moon-Mellen	18.5	12.9	1.71	3.10	22.8		.6	8	-.01	"
259	1-23	320P 327P	Moon	9.5	5.84	1.38	2.74	8.1		.6	5	0	"
260	1-24	1213A 1235A	Moon-Mellen	28.0	56.2	5.97	5.01	336.		.6	6	+.01	"
261	1-24	924A 935A	" "	25.0	45.5	4.92	4.70	224.		.6	5	-.02	"
262	1-25	1204P 1213P	Moon-Eckert	17.0	15.0	2.19	3.28	32.8		.6	9	0	"
263	1-30	1242P 1254P	Moon	14.2	6.43	1.04	2.75	6.7		.6	8	0	"
264	2-6	844A 854A	Moon-Mellen	24.0	23.9	2.80	3.72	67.3		.6	11	-.04	"
265	2-6	1055A 1105A	" "	23.0	16.1	2.14	3.35	34.2		.6	11	0	"
266	2-7	308P 319P	Moon	15.0	6.97	1.29	2.84	9.0		.6	9	0	"
267	2-11	206P 218P	Moon-Mellen	25.0	31.6	4.18	4.12	132.		.6	7	-.05	"
268	2-12	1142A 1152A	Moon-Eckert	16.7	13.3	1.88	3.20	25.4		.6	9	0	"
269	2-13	1252P 104P	Moon	15.7	10.3	1.55	3.00	15.9		.6	9	0	"
270	2-14	525P 545P	Moon-Mellen	35.0	81.5	7.09	5.56	576.		.6	8	+.40	"
271	2-14	600P 614P	" "	41.0	110.	7.71	5.95	848.		.6	8	-.01	"
272	2-15	237P 255P	Moon-Eckert	34.0	85.1	6.94	5.30	591.		.6	7	-.16	"
273	2-16	131P 143P	" "	20.5	29.0	2.72	3.53	79.3		.6	9	0	"
274	2-16	1055P 1104P	" "	21.0	30.9	2.78	3.58	86.4		.6	9	0	"
275	2-17	640A 651A	" "	27.0	54.0	4.93	4.42	266.		.6	6	0	"
276	2-17	121P 133P	Moon-Mellen	27.5	37.6	2.79	3.71	105.		.6	11	-.02	"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F54B-R

DISCHARGE MEASUREMENTS OF TOPANGA CREEK

above Mouth of Canyon

DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
277	2-19	228P 235P	Hall - Moon	17.9	19.0	2.42	3.19	46.1		.6	8	-.01	FC 22
278	2-19	1045P 1053P	Moon-Hall	25.5	33.6	3.89	3.80	131.		.6	6	0	FC 22
279	2-22	541P 555P	Moon-Eckert	75.0	64.6	5.73	Est. 6.85	370.		.6	11	--	"
280	2-24	216P 228P	Moon-Hall	29.5	35.2	4.26	Est. 6.18	150.		.6	9	--	"
281	2-25	325P 335P	Moon	25.5	26.4	2.69	5.70	71.3		.6	9	-.01	"
282	2-27	112P 126P	"	23.5	20.6	2.19	5.48	45.2		.6	9	0	"
283	2-28	410P 422P	Moon-Mellen	53.0	98.5	6.85	7.43	675.		.6	6	+.22	"
284	3-1	1022A 1031A	" "	52.0	57.0	4.97	6.89	283.		.6	8	+.08	"
285	3-2	823A 835A	" "	33.0	42.6	3.38	6.07	144.		.6	10	+.01	"
286	3-3	503P 518P	Moon	29.0	32.4	2.60	5.62	84.0		.6	10	0	"
287	3-4	1127A 1146A	Moon-Hall	56.0	101.	7.26	7.26	733.		.6	11	+.23	"
288	3-5	458P 518P	Moon	Two Channels			6.00	156.		.6	14	0	"
289	3-6	154P 214P	"	30.0	38.0	2.84	5.80	108.		.6	11	-.01	"
290	3-11	215P 230P	"	25.0	26.1	1.45	5.22	37.9		.6	9	0	"
291	3-12	1210P 1220P	Moon-Eckert	31.0	40.1	2.34	5.72	93.6		.6	10	-.02	"
292	3-12	422P 431P	" "	32.0	38.4	2.10	5.71	81.4		.6	10	0	"
293	3-12	935P 953P	" "	30.5	36.2	2.02	5.62	72.6		.6	10	+.02	"
294	3-13	308P 317P	" "	30.0	32.2	1.83	5.50	59.1		.6	10	-.01	"
295	3-17	1037A 1051A	Moon-Wood	24.5	23.8	1.34	5.16	31.6		.6	10	0	"
296	3-20	115P 129P	Moon	24.0	21.6	1.11	5.05	23.8		.6	10	0	"
297	3-27	1250P 100P	"	21.5	15.8	0.95	4.88	14.7		.6	9	0	"
298	3-28	1132P 1145P	Moon-Eckert	28.5	33.5	2.00	5.54	67.4		.6	11	-.01	"
299	3-29	105P 118P	" "	28.0	25.4	2.13	5.41	54.3		.6	11	-.01	"
300	3-31	120P 134P	Moon-Andren	Two Channels			6.13	183.		.6	13	-.05	"
301	4-1	1136A 1147A	Moon-Mellen	31.5	41.4	3.45	5.92	143.		.6	11	-.01	FC 22
302	4-3	132P 147P	Moon	29.0	22.8	2.32	5.38	53.2		.6	11	0	"
303	4-5	1148A 1200N	Moon-Eckert	32.5	35.8	3.19	5.81	114.		.6	11	0	FC 22
304	4-10	1045A 1100A	Moon	23.5	18.2	1.98	5.33	36.0		.6	10	0	"
305	4-11	1008A 1017A	Moon-Eckert	30.5	42.8	2.78	5.86	119.		.6	11	0	"
306	4-17	1235P 1248P	Moon	25.5	18.3	1.86	5.17	34.0		.6	10	0	"
307	4-21	254P 306P	"	24.0	15.2	1.51	4.99	22.7		.6	9	0	"
308	4-24	100P 110P	"	23.0	13.0	1.54	4.93	19.3		.6	8	0	"
309	4-30	1122A 1131A	Moon-Mellen	26.5	22.9	2.01	5.38	46.1		.6	9	+.01	"
310	5-1	1250P 100P	Moon	22.0	11.3	1.50	4.87	16.6		.6	9	0	"
311	5-8	215P 226P	"	17.0	8.47	0.98	4.66	8.3		.6	9	0	"
312	5-15	1138A 1150A	"	17.0	7.91	0.86	4.61	6.8		.6	10	0	"
313	5-22	1210P 1219P	"	14.0	6.56	0.72	4.51	4.7		.6	9	0	"
314	5-29	225P 235P	"	14.0	5.99	0.66	4.48	3.9		.6	10	0	"
315	6-5	1256P 105P	"	12.5	5.39	0.65	4.62	3.5		.6	8	0	"
316	6-12	202P 210P	"	14.0	5.61	0.46	4.70	2.6		.6	8	0	"
317	6-19	158P 205P	"	Two Channels			4.70	1.9		.6	7	0	"
318	6-26	211P 219P	"	5.5	1.88	0.74	4.68	1.4		.6	5	0	"
319	7-3	145P 152P	"	4.0	1.36	1.03	4.67	1.4		.6	7	0	"
320	7-10	106P 112P	"	2.8	0.80	1.38	4.67	1.1		.6	5	0	"
321	7-17	209P 213P	"	2.0	0.40	1.20	4.61	0.48		.6	4	0	"
322	7-24	257P 301P	"	2.0	0.34	0.94	4.54	0.32		.6	4	0	"
323	7-31	140P 146P	"	2.5	0.55	0.91	4.48	0.50		.6	5	0	"
324	8-7	258P 303P	"	2.5	0.37	0.86	4.33	0.32		.6	4	0	"
325	8-13	310P 316P	Moon	2.0	0.82	0.49	4.37	0.40		.6	4	0	FC 22
326	8-20	158P 205P	"	2.2	0.67	0.49	4.27	0.33		.6	4	0	"
327	8-27	202P 210P	Bonadiman	4.0	1.08	0.29	4.23	0.30		.6	2	0	FC 40
328	9-3	222P 228P	"	5.0	1.24	0.24	4.22	0.30		.6	2	0	"
329	9-11	305P 308P	Moon	2.3	0.86	0.35	4.32	0.30		.6	4	0	FC 22
330	9-18	228P 230P	"	1.3	0.26	1.04	4.21	0.27		.6	2	0	"
331	9-25	306P 309P	"	1.2	0.30	0.97	4.20	0.29		.6	2	0	"

F.C. Dist. Form 92 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

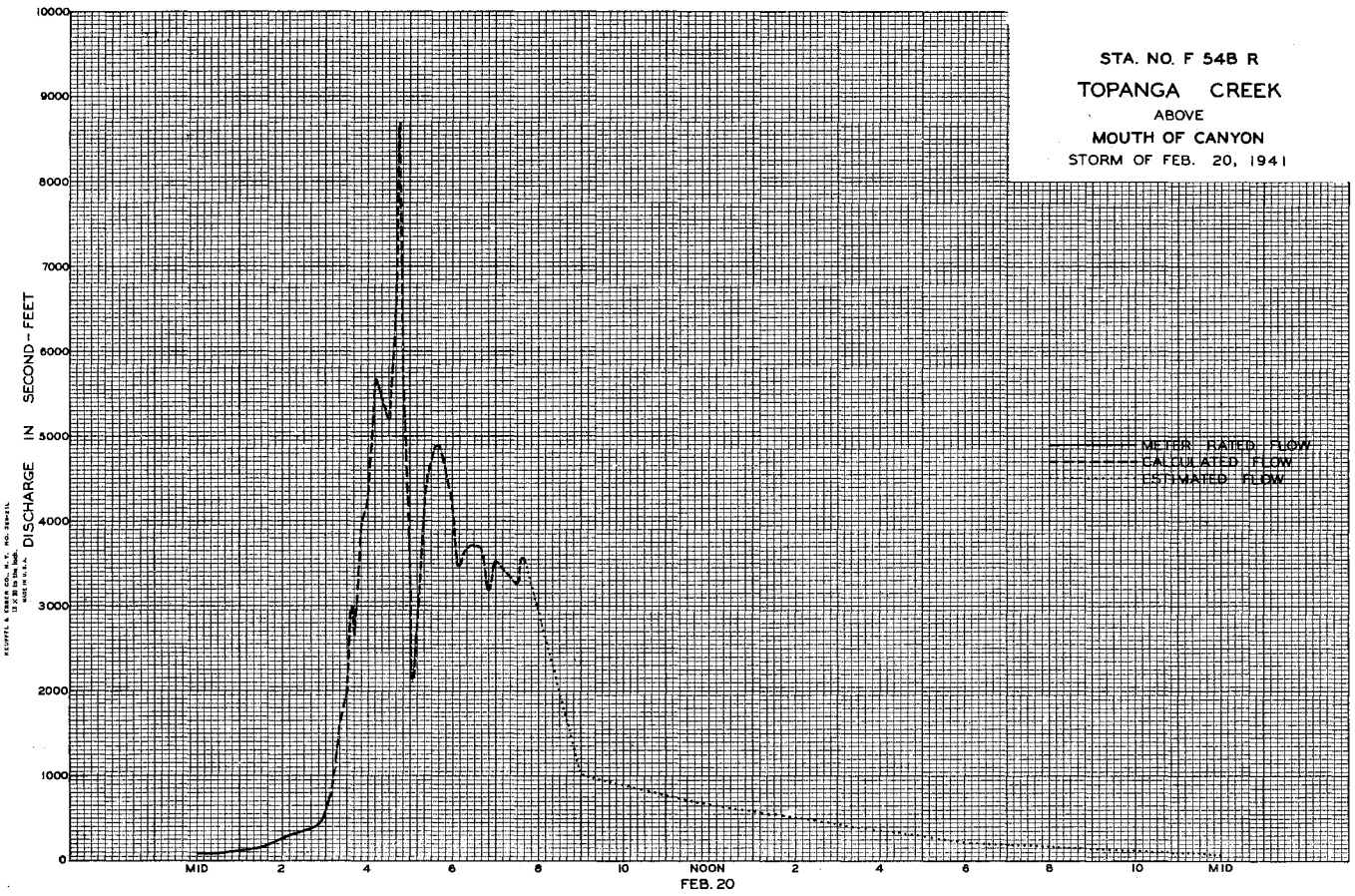
Sta. No F54B-R

Daily discharge, in second-feet of TOPANGA CREEK above Mouth of Canyon for the year ending September 30, 1941

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	0.1	+	2.7	5	206	153	17	4.0	1.4	0.5	0.3
2	+	0.1	+	2.4	4.4	136	79	15	4.0	1.4	0.4	0.3
3	+	0.1	+	2.1	4.0	203	54	14	3.6	1.4	0.4	0.3
4	+	0.1	+	2.0	3.6	490	187	13	3.4	1.3	0.4	0.3
5	+	+	+	2.0	3.2	179	125	11	3.4	1.3	0.3	0.3
6	+	+	+	1.8	47	112	74	9	3.4	1.2	0.3	0.3
7	+	+	+	16	9.5	84	56	8.5	3.4	1.2	0.3	0.3
8	+	+	+	4.4	7.5	64	45	8	3.1	1.1	0.3	0.3
9	+	+	+	3.2	6.5	52	41	8	2.9	1.1	0.3	0.3
10	+	+	+	3.8	6	43	77	7.5	2.7	1.1	0.3	0.3
11	+	0.1	+	2.1	78	38	133	7.5	2.6	1.0	0.4	0.3
12	+	0.3	0.1	1.7	26	66	76	7.5	2.4	0.9	0.4	0.3
13	+	+	+	1.5	16	72	60	7	2.4	0.8	0.4	0.3
14	+	+	+	2.0	130	50	51	7	2.4	0.7	0.4	0.3
15	+	+	+	1.6	339	42	45	6.5	2.4	0.6	0.4	0.3
16	+	0.1	1.2	1.4	99	36	40	6.5	2.4	0.5	0.4	0.3
17	+	0.1	83	1.2	130	32	36	6.5	2.2	0.5	0.3	0.3
18	+	0.3	69	1.2	52	29	31	6	1.9	0.5	0.3	0.3
19	+	+	E 7	1.2	81	27	29	5.5	1.9	0.4	0.3	0.3
20	+	+	E 0.8	1.2	1100 E	24	25	4.9	1.9	0.4	0.3	0.3
21	+	+	0.6	5	700 E	21	23	4.4	1.8	0.4	0.3	0.3
22	+	+	0.6	41	500 E	20	21	4.2	1.8	0.4	0.3	0.3
23	+	+	183	27	150 E	19	20	4.2	1.5	0.3	0.3	0.3
24	+	+	138	262	153	17	19	4.2	1.5	0.3	0.3	0.3
25	0.9	0.1	11	34	80	16	19	4.0	1.4	0.3	0.3	0.3
26	0.7	+	6.5	20	56	16	18	4.0	1.4	0.4	0.3	0.3
27	0.6	+	4.2	12	44	15	16	3.8	1.4	0.4	0.3	0.3
28	0.5	+	2.9	9	244	78	16	3.8	1.4	0.4	0.3	0.3
29	0.5	+	9	7.5		99	16	4.0	1.4	0.4	0.3	0.3
30	0.2	+	4.8	6.5		32	25	4.0	1.4	0.5	0.3	0.3
31	0.1		3.8	6		200		4.0		0.5	0.3	
	3.5	1.4	525.5	485.5	4074.7	2518	1610	220.5	71.4	23.1	10.4	9.0
MEAN	0.11	0.05	17.0	15.7	146.	81.2	53.7	7.11	2.38	0.75	0.34	0.30
ACRE-FEET	6.9	2.8	1040.	963.	8080.	4990.	3190.	437.	142.	46.	21.	18.

Remarks: E = estimated. All flows interpolated between measurements beginning 7/4.
+ = 0.05 c.f.s. or less.

YEAR OR PERIOD MEAN 26.2
ACRE-FEET 18940.



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.

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.

DRAINAGE AREA:

22.4 square miles.

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 E.C.F. continuous recorder was in service from October 1, 1940 to September 30, 1941.

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, 1941.
For earlier records see Stations F9R Verdugo at Glen Oaks Blvd., and F244R Verdugo at Don Carlos Street.

EXTREMES OF DISCHARGE:

1940-1941
Maximum 1120 second-feet, February 19.
Minimum + at various times.
1935-1941
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 cooperation with the U.S. Engineer Department.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F252R

DISCHARGE MEASUREMENTS OF VERDUGO CHANNEL

AT Estelle Avenue DURING THE YEAR ENDING SEPTEMBER 30, 19 41

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	GAUGE	METHOD	MEAS. SEC. NO.	C. FT. CHANGE TOTAL	METER NO.
25	6-12	330P / 335P	Bollinger	8.0	0.72	2.64	---	1.9	Float		3	--	-----
26	7-24	823A / 826A	"	6.0	0.52	3.63	---	1.9	Float		3	--	-----

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

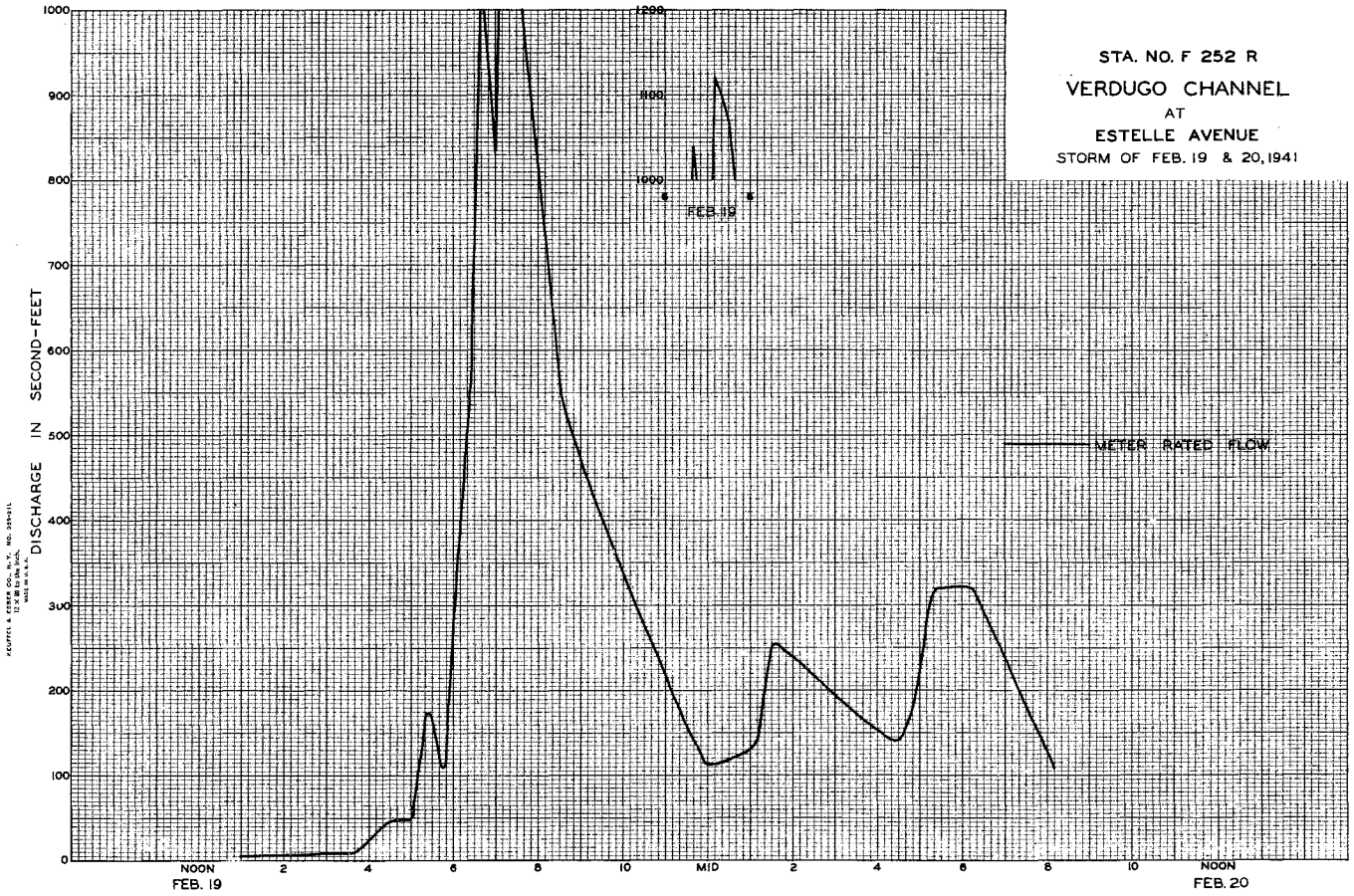
Sta. No F252R

Daily discharge, in second-feet of VERDUGO CHANNEL at Estelle Avenue, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.2	0.8	2.1	2.1	4.3	3.4	2.1	2.1	2.1	2.5	1.1
2	0.1	0.4	0.6	1.4	2.1	3.4	2.0	1.1	2.5	1.7	2.5	1.4
3	0.1	0.4	0.6	0.6	2.1	7.2	1.7	6.5	2.1	1.7	2.1	1.7
4	0.2	0.3	0.6	0.8	2.1	35.7	8.6	4.9	3.0	1.4	2.1	1.7
5	0.1	0.3	0.6	1.4	2.5	8.6	2.5	4.2	3.0	1.7	2.1	1.7
6	0.1	0.3	0.8	1.1	3.3	2.3	1.1	3.0	2.5	1.7	2.1	1.7
7	0.1	0.2	0.6	3.6	3.0	1.7	1.1	3.0	3.6	2.1	2.1	2.5
8	0.2	0.4	0.4	3.0	2.1	1.2	1.2	3.0	3.6	2.1	2.1	2.1
9	0.1	0.6	0.8	1.4	2.1	1.4	2.8	3.6	4.2	2.5	2.1	2.1
10	+	0.6	0.8	5.5	1.4	2.1	4.7	3.0	4.2	2.5	2.5	2.1
11	+	0.8	1.1	1.7	2.1	1.4	5.4	3.6	3.6	2.5	2.1	2.1
12	+	0.4	3.1	0.8	4.2	5.9	2.1	4.2	3.0	2.5	2.1	2.1
13	0.3	0.8	1.7	0.6	2.1	1.7	1.7	4.2	7	2.1	2.5	2.1
14	0.4	2.5	0.4	6	4.3	2.3	2.1	3.6	12	2.1	2.1	2.1
15	+	1.4	0.4	1.7	1.5	2.1	2.8	3.6	10	2.1	2.5	2.1
16	+	0.8	39	0.6	1.6	1.6	2.1	4.2	5.4	2.1	2.5	2.5
17	+	7	26	0.6	9.1	8.5	2.1	4.2	3.0	2.5	2.5	2.1
18	+	9	19	0.4	2.1	4.2	1.9	3.0	3.0	3.0	1.7	2.1
19	+	2.5	4.0	0.6	1.4.9	4.2	1.9	3.0	3.0	3.0	1.7	2.1
20	+	1.4	3.0	0.8	2.3.3	4.2	1.7	2.5	4.2	2.5	1.7	2.1
21	+	1.1	1.7	4.2	1.5.5	3.6	1.4	2.1	3.0	2.5	2.1	2.1
22	+	1.7	0.8	4.9	9.5	3.6	1.6	1.7	3.0	3.0	2.1	1.7
23	+	1.4	72	3.4	1.1	3.6	1.4	1.7	2.5	2.5	2.1	3.0
24	+	0.8	27	1.7	1.2	3.0	1.4	2.1	1.7	3.0	2.1	2.7
25	.37	0.8	5.5	1.7	1.6	3.6	1.1	2.5	1.7	2.5	2.1	1.7
26	6.5	0.8	2.1	3.0	5.5	4.9	1.1	1.7	2.1	2.1	2.5	2.1
27	4.2	0.6	0.8	5.5	3.0	4.2	1.2	1.4	2.5	1.7	2.5	1.7
28	3.0	0.6	1.4	2.1	1.1.5	5.4	1.4	1.7	2.5	2.1	2.1	1.7
29	1.7	0.8	3.2	1.7		8.1	1.7	1.4	3.0	2.1	1.7	1.7
30	0.3	0.8	4.5	1.7		1.0	8.7	1.1	2.5	2.1	1.4	1.4
31	0.2		2.5	1.7		6.8		2.1		2.1	1.4	
	54.7	39.7	225.8	81.6	1060.3	1089.6	739	118.8	1095	69.6	65.7	59.3
MEAN	1.76	1.32	7.28	2.63	37.9	35.1	24.6	3.83	3.65	2.25	2.12	1.98
ACRE-FEET	108.	79.	448.	162.	2100.	2160.	1470.	236.	217.	138.	130.	118.

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

YEAR OR PERIOD — MEAN 10.2 — ACRE-FEET 7370.



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, 1940 to September 30, 1941.

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, 1941.
(For records prior to December 15, 1928 see State Division of Water Rights Bulletins).

EXTREMES OF DISCHARGE:

1940-1941
Maximum 2680 second-feet, March 13.
Minimum no flow most of year.
1928-1941
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 41

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.
147	12-17	450A / 459A	Hall-Haig	55.0	43.3	2.65	2.32	115.		.6	7	-.08	FC 33
148	12-17	1240P / 1255P	Brewster-Smith	38.0	21.8	1.72	2.03	37.6		.6	8	-.02	FC 24
149	12-17	224P / 230P	" "	12.0	3.86	0.87	1.70	3.4		.6	4	-.01	"
150	12-17	315P / 318P	" "	2.0	0.22	0.55	1.56	0.12		.6	2	-.01	"
151	12-23	830A / 847A	" "	68.0	59.8	4.20	2.66	251.		.6	8	+.12	"
152	12-23	430P / 440P	" "	14.0	7.52	2.23	1.92	16.8		.6	4	-.03	"
153	12-24	1154A / 1210P	Wallace-Linden	100.0	80.3	4.61	2.85	370.		.6	13	-.37	FC 23
154	12-24	215P / 230P	Brewster & Smith	64.0	45.4	1.82	2.36	82.7		.6	7	-.02	FC 24
155	1-24	735A / 750A	" "	64.0	43.4	2.56	2.42	110.		.6	7	+.15	"
156	1-24	1230P / 1235P	Haig & Trentham	9.0	6.32	1.20	1.78	7.6		.6	5	-.01	FC 33
157	1-24	139P / 145P	Brewster & Smith	4.0	1.12	1.78	1.76	2.0		.6	4	-.01	FC 24
158	2-11	205P / 217P	" "	54.0	40.7	2.47	2.44	101.		.6	7	+.01	"
159	2-14	555P / 608P	" "	58.0	48.8	3.54	2.67	173.		.6	7	+.04	"
160	2-14	740P / 802P	" "	62.0	55.9	3.59	2.72	201.		.6	7	-.05	"
161	2-15	500P / 512P	" "	74.0	81.8	3.77	2.84	309.		.6	8	-.02	"
162	2-17	740A / 748A	" "	10.0	2.00	1.12	1.86	2.2		.6	5	+.01	"
163	2-17	915A / 930A	" "	60.0	40.9	2.43	2.45	99.5		.6	7	0	"
164	2-19	1010P / 1045P	Linden & Wallace	99.5	139.	6.38	3.56	886.		.6	11	-.39	FC 23
165	2-20	600A / 616A	Wallace & Linden	Two Channels			2.37	74.4		.6	9	-.02	"
166	2-20	128P / 142P	Linden & Wallace	107.0	182.	5.63	3.70	1020.		.6	11	-.17	"
167	2-21	855A / 903A	Wallace & Linden	78.0	61.8	4.79	2.82	179.		.6	9	+.02	"
168	2-21	1240P / 100P	Brewster & Smith	78.0	41.3	1.53	2.58	63.1		.6	9	-.04	FC 24
169	2-21	710P / 722P	Wallace & Linden	Two Channels			2.90	168.		.6	12	-.04	FC 23
170	2-22	1202P / 1215P	Brewster & Smith	40.0	13.9	1.15	2.20	15.9		.6	5	0	FC 24
171	2-24	915A / 925A	Brewster	24.0	5.92	1.15	2.16	6.8		.6	5	0	FC 24
172	2-28	900A / 906A	"	4.0	0.72	0.93	2.09	0.67		.6	4	0	"
173	2-28	800P / 821P	Linden & Wallace	108.0	151.	6.61	3.75	1000.		.6	11	0	FC 23
174	3-1	311A / 319A	Wallace & Linden	49.0	43.4	2.70	2.65	118.		.6	7	-.03	"
175	3-1	1015A / 1035A	Brewster & Smith	70.0	58.0	2.75	2.76	160.		.6	8	+.03	FC 24
176	3-2	1048A / 1056A	Wallace & Linden	44.0	20.4	1.20	2.41	24.4		.6	6	0	FC 23
177	3-2	130P / 140P	Brewster & Smith	58.0	31.8	1.55	2.60	49.2		.6	7	-.01	FC 24
178	3-4	1246A / 105A	Linden & Wallace	101.5	163.	6.10	3.82	997.		.6	10	-.05	FC 23
179	3-4	738A / 750A	Wallace & Linden	96.8	88.4	3.92	3.24	347.	Sur	.6	11	-.02	"
180	3-4	230P / 250P	Brewster & Smith	Two Channels			3.02	218.		.6	10	-.03	FC 24
181	3-4	752P / 820P	Wallace & Linden	102.5	165.	7.19	3.86	1190.		.6	13	-.03	FC 23
182	3-6	225P / 233P	Brewster & Smith	28.0	7.34	1.00	2.27	7.4		.6	5	0	FC 24
183	3-12	225P / 235P	" "	53.0	25.6	1.61	2.64	41.2		.6	6	-.01	FC 24
184	3-12	512P / 524P	Wallace & Linden	105.0	128.	5.57	3.64	711.		.6	12	+.08	FC 23
185	3-13	409A / 428A	Linden & Wallace	105.0	171.	7.76	3.93	1330.		.6	11	-.14	"
186	3-13	1202P / 1212P	Brewster & Smith	40.0	26.1	1.82	2.68	47.4		.6	5	-.01	FC 24
187	4-1	225P / 235P	" "	52.0	30.4	1.36	2.74	41.4		.6	6	-.01	"
188	4-10	840A / 850A	Brewster	15.0	5.20	1.32	2.40	6.8		.6	5	0	"
189	4-10	434P / 440P	"	4.0	0.76	1.08	2.12	0.82		.6	4	0	"
190	4-11	140P / 150P	"	16.0	5.36	1.38	2.40	7.4		.6	5	0	"
191	4-30	435P / 445P	"	21.0	7.59	1.50	2.48	11.4		.6	6	+.01	"

F.C. Dist. Form 82 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

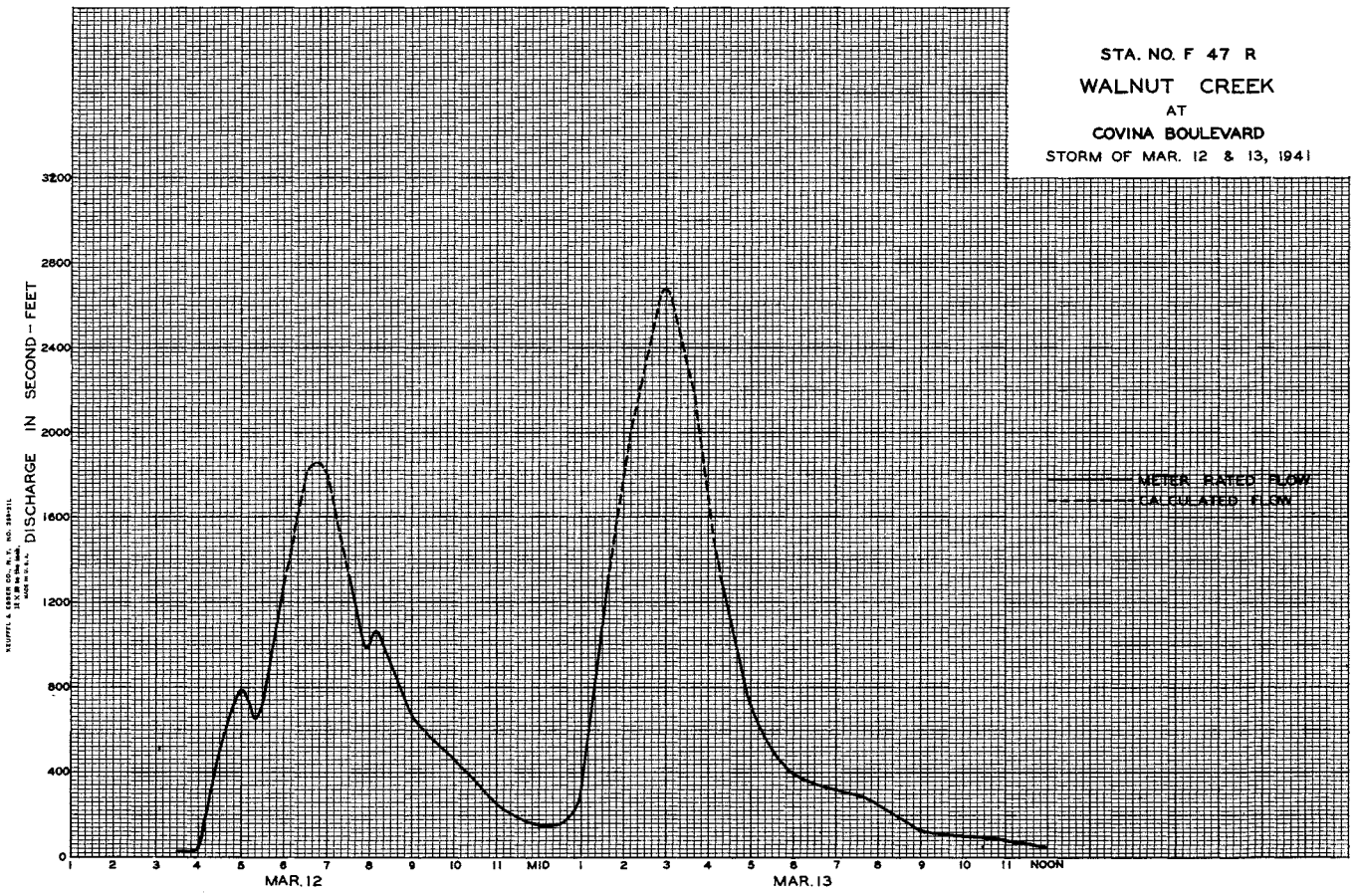
Sta. No F47R

Daily discharge, in second-feet of WALNUT CREEK at Covina Boulevard, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	96	52	0	0	0	0	0
2	0	0	0	0	0	49	39	1.9	0	0	0	0
3	0	0	0	0	0	18	0	7.5	0	0	0	0
4	0	0	0	0	0	561	2.5	3.0	0	0	0	0
5	0	0	0	0	0	130	5	0	0	0	0	0
6	0	0	0	0	+	37	0	0	0	0	0	0
7	0	0	0	0	0	40	0	0	0	0	0	0
8	0	0	0	0	0	17	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	7	0	0	0	0	0
11	0	0	0	0	13	0	34	0	0	0	0	0
12	0	0	0	0	0.7	276	8.5	0	0	0	0	0
13	0	0	0	0	0	368	1.0	0	0	0	0	0
14	0	0	0	0	45	156	0	0	0	0	0	0
15	0	0	0	0	62	1.7	0	0	0	0	0	0
16	0	0	0	0	1.5	0	0	0	0	0	0	0
17	0	0	40	0	15	0	0	+	0	0	0	0
18	0	0	7.5	0	0	0	0.9	+	0	0	0	0
19	0	0	0.1	0	208	0	1.4	+	0	0	0	0
20	0	0	0	0	438	0	1.8	+	0	0	0	0
21	0	0	0	0	148	0	1.3	+	0	0	0	0
22	0	0	0	0	59	0	0.6	0	0	0	0	0
23	0	0	158	0	0.9	0	1.2	0	0	0	0	0
24	0	0	229	17	6.5	0	0.6	0	0	0	0	0
25	0	0	0	0	0	0	1.2	0	0	0	0	0
26	0	0	0	0	0	0	2.8	0	0	0	0	0
27	0	0	0	0	0.1	0	3.2	0	0	0	0	0
28	0	0	0	0	203	0.1	0.6	0	0	0	0	0
29	0	0	0	0		36	+	0	0	0	0	0
30	0	0	0	0		0	5	0	0	0	0	0
31	0		0	0		57		0		0	0	
	0	0	4346	17	1200.7	1842.8	1696	12.4	0	0	0	0
MEAN	0	0	14.0	0.55	42.9	59.4	5.65	0.40	0	0	0	0
ACRE-FEET	0	0	862.	34.	2380.	3660.	336.	25.	0	0	0	0

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

YEAR OR PERIOD — MEAN 10.1 — ACRE-FEET 7300.



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., 1-1/2 miles upstream from Millard Canyon, and 5-1/4 miles northwest of Pasadena. Altitude, about 1,400 feet.

DRAINAGE AREA:

16.4 square miles.

RECORDS AVAILABLE:

December 1910 to September 1941.

AVERAGE DISCHARGE:

27 years (1913-1915, 1916-1941), 10.3 second-feet.

EXTREMES:

Maximum discharge during year, 1,340 second-feet, Feb. 20 (gage height, 8.57 feet); minimum daily discharge, 0.3 second-feet on several days in October.

1910-1941

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

REMARKS:

Records fair. No diversions above station.

COOPERATION:

Results of 20 discharge measurements furnished by Los Angeles County Flood Control District, through H. E. Hedger, chief engineer.

a No gage-height record; discharge computed on basis of recorded range in stage, records of release, and diversion above gage.

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 OR NEAR Pasadena DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
1192	10-2		U.S.G.S.				4.65	0.34		.6	13	0	
1193	10-10	133P / 138P	Lindsay	2.8	0.46	0.78	4.66	0.36		.6	5	0	FC28
1194	10-23		U.S.G.S.				4.65	0.31		.6	8	0	
1195	10-24	1044A / 1049A	Lindsay	2.7	0.55	0.80	4.64	0.44		.6	5	0	FC28
1196	10-31	1203P / 1210P	Lindsay	5.7	1.12	0.80	4.67	0.90		.6	6	0	FC28
1197	11-6		U.S.G.S.				4.66	0.58		.6	10	0	
1198	11-7	1120A / 1127A	Lindsay	2.8	0.65	1.01	4.67	0.66		.6	5	0	FC28
1199	11-13	104P / 110P	Lindsay	3.0	0.70	1.07	4.67	0.75		.6	6	0	FC28
1200	11-19		U.S.G.S.				4.75	1.7		.6	12	0	
1201	11-20	1047A / 1055A	Lindsay	4.0	1.18	1.16	4.73	1.4		.6	6	0	FC28
1202	11-27		U.S.G.S.				4.73	0.94		.6	11	0	
1203	12-3		U.S.G.S.				4.72	0.93		.6	8	0	
1204	12-5	1245P / 1253P	Lindsay	3.7	0.94	0.92	4.72	0.87		.6	7	0	FC28
1205	12-11		U.S.G.S.				4.75	1.0		.6	8	0	
1206	12-13	955A / 1003A	Lindsay	3.9	1.03	1.02	4.77	1.0		.6	7	0	FC28
1207	12-16		U.S.G.S.				4.95	3.0		.6	11	0	
1208	12-17		U.S.G.S.				5.92	27.3		.6	17	-.02	
1209	12-17		U.S.G.S.				5.72	19.9		.6	17	-.04	
1210	12-17		U.S.G.S.				5.45	13.2		.6	20	0	
1211	12-19	1108A / 1115A	Lindsay	7.8	1.49	2.82	5.11	4.2		.6	7	0	FC28
1212	12-20		U.S.G.S.				4.93	3.4		.6	14	0	
1213	12-23		U.S.G.S.				7.02	297.		.6	17	+.05	
1214	12-23		U.S.G.S.				6.64	135.		.6	15	-.06	
1215	12-26	1220P / 1228P	Lindsay-Thompson	13.0	2.89	3.15	5.74	9.1		.6	7	0	FC28
1216	12-27		U.S.G.S.				5.80	6.9		.6	13	0	
1217	1-2	1140A / 1147A	Lindsay	3.1	1.54	3.01	5.14	4.6		.6	6	0	FC28
1217A	1-3		U.S.G.S.				5.02	4.4		.6	13	-.02	
1218	1-7		U.S.G.S.				4.91	5.5		.6	12	0	
1219	1-8	1135A / 1143A	Lindsay	5.2	1.86	2.10	4.87	3.9		.6	7	0	FC28
1220	1-11		U.S.G.S.				4.90	4.6		.6	13	0	
1221	1-16	1110A / 1121A	Lindsay	6.2	1.88	1.76	4.83	3.3		.6	7	0	FC28
1222	1-23	1134A / 1143A	Lindsay	6.3	1.95	1.69	4.84	3.3		.6	7	0	FC28
1223	1-24		U.S.G.S.				6.18	35.8		.6	22	0	
1224	1-28		U.S.G.S.				5.06	6.9		.6	18	+.02	
1225	1-30	1143A / 1151A	Lindsay	6.0	2.59	2.13	4.99	5.5		.6	7	0	FC28
1226	2-6	130P / 140P	Lindsay	12.0	4.74	5.06	5.63	23.5		.6	8	-.05	FC28
1227	2-7		U.S.G.S.				5.13	8.4		.6	19	0	
1228	2-11		U.S.G.S.				6.00	47.4		.6	12	+.30	
1229	2-15		U.S.G.S.				6.27	65.		.6	24	0	
1230	2-17		U.S.G.S.				7.00	235.		.2	18	-.02	
1231	2-19		U.S.G.S.				6.21	51.		.6	17	0	
1232	2-20		U.S.G.S.	65.0	106.	9.03	8.20	957.		.2 & Float	13	+.03	
1233	2-20		U.S.G.S.	40.4	84.0	13.9	8.40	1167.		Float	7	+.16	
1234	2-21		U.S.G.S.	49.0	47.0	9.06	7.72	426.		.2	11	+.04	
1235	2-22		U.S.G.S.	50.0	51.0	8.02	7.87	409.		.2 .6	12	0	
1236	2-25		U.S.G.S.				7.75	145.		.6	26	0	
1237	2-28		U.S.G.S.	26.0	37.0	8.48	7.20	314.		.6	10	+.40	
1238	3-1		U.S.G.S.	27.0	29.0	6.38	6.78	185.		.6	10	+.03 -.02	
1239	3-4		U.S.G.S.	34.0	53.0	10.4	7.44	554.		.6 .2	14	+.10 -.04	
1240	3-5		U.S.G.S.	36.0	47.0	8.37	7.03	391.	.24.8	.6	14	-.03	
1241	3-10		U.S.G.S.				6.48	94.		.6	16	0	
1242	3-12		U.S.G.S.				6.52	110.		.6	16	+.01	
1243	3-13		U.S.G.S.				6.53	132.		.6	16	0	
1244	3-18		U.S.G.S.				6.37	88.		.6	14	0	
1245	3-24		U.S.G.S.				6.21	56.		.6	18	0	
1246	3-29		U.S.G.S.				6.40	87.		.6	19	-.06	
1247	3-31		U.S.G.S.				6.54	122.		.6	15	-.02	
1248	4-4		U.S.G.S.				6.41	86.		.6	14	+.02	
1249	4-7		U.S.G.S.				6.53	117.		.6	16	-.06	
1250	4-11		U.S.G.S.				6.54	135.		.6	17	+.02	
1251	4-21		U.S.G.S.				6.22	60.		.6	20	0	
1252	4-28		U.S.G.S.				5.92	44.0		.6	18	0	
1253	5-5		U.S.G.S.				5.85	40.6		.6	27	0	
1254	5-12		U.S.G.S.				5.72	31.1		.6	21	0	
1255	5-19		U.S.G.S.				5.55	25.1		.6	21	0	
1256	5-26		U.S.G.S.				5.43	21.8		.6	21	+.08	
1257	6-9		U.S.G.S.				5.25	16.8		.6	19	+.06	
1258	6-16		U.S.G.S.				5.21	16.5		.6	19	+.02	
1259	6-16	1250P / 100P	Lindsay	10.4	8.34	1.54	5.14	13.2		.6	9	0	FC28
1260	6-23		U.S.G.S.				5.17	11.8		.6	19	0	
1261	6-25	116P / 125P	Lindsay	10.3	7.46	1.40	5.20	10.4		.6	9	0	FC28
1262	7-2	1257P / 105P	Lindsay	3.3	2.36	4.02	5.33	9.5		.6	5	0	FC28
1263	7-7		U.S.G.S.				5.23	9.5		.6	17	0	
1264	7-16	1211P / 1218P	Lindsay	3.2	1.82	3.79	5.11	6.9		.6	5	-.02	FC28
1265	7-21		U.S.G.S.				5.04	6.6		.6	12	0	
1266	7-23	742A / 750A	Haig	3.0	1.41	4.50	5.03	6.4		.6	5	0	FC33
1267	7-28		U.S.G.S.				5.06	7.9		.6	16	0	
1268	7-30	745A / 752A	Haig	3.1	1.60	3.76	5.00	6.0		.6	5	0	FC33
1269	8-12	1110A / 1120A	Lindsay	12.7	7.75	0.65	4.96	5.0		.6	8	0	FC28
1270	8-21		U.S.G.S.				4.90	4.0		.6	8	0	
1270A	8-28	950A / 1003A	Lindsay	10.3	6.01	0.74	4.91	4.4		.6	11	0	FC28
1271	9-3		U.S.G.S.				4.89	4.3		.6	10	0	
1272	9-11	1004A / 1016A	Lindsay	10.2	5.37	0.63	4.84	3.4		.6	9	0	FC28
1273	9-16		U.S.G.S.				4.86	3.7		.6	11	0	

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No U1R

Daily discharge, in second-feet of ARROYO SECO near Pasadena for the year ending September 30, 1941

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	0.8	1.0	4.3	4.6	185	105	69	17	9.5	5.5	4.0
2	0.4	0.8	1.0	4.4	4.0	148	94	54	17	9	5.5	4.0
3	0.4	0.8	0.9	4.4	3.4	129	85	48	17	8.5	5.5	4.1
4	0.4	0.7	0.9	4.3	3.3	635	156	43	17	8.5	5	4.1
5	0.4	0.6	0.9	4.0	3.3	423	166	41	16	8.5	5	3.9
6	0.3	0.6	0.9	4.3	20	228	124	40	16	8.5	5	3.7
7	0.3	0.7	0.9	4.9	8.5	153	116	38	15	8.5	4.9	3.7
8	0.4	0.8	0.9	4.0	7	126	110	37	15	8.5	4.8	3.7
9	0.4	0.8	1.0	4.4	6	111	116	36	15	8	4.8	3.7
10	0.4	0.8	1.0	6	5.5	97	122	34	14	8	4.9	3.6
11	0.3	0.8	1.0	4.3	71	96	152	32	14	7.5	5	3.4
12	0.3	0.8	1.2	3.9	48	168	120	31	14	7.5	4.9	3.3
13	0.3	0.8	1.0	4.1	33	150	114	30	14	7.5	4.8	3.4
14	0.3	0.8	1.0	5.5	64	140	106	29	14	7	4.6	3.7
15	0.3	0.8	1.0	3.6	81	129	99	29	14	7	4.8	3.7
16	0.3	0.8	6.5	3.3	100	110	92	27	14	6.5	4.9	3.6
17	0.3	1.0	35	3.4	201	99	83	26	13	6.5	4.4	3.3
18	0.3	3.4	7.5	3.4	79	87	78	25	13	6.5	4.1	3.4
19	0.3	1.7	5	3.4	154	82	72	23	12	6.5	4.0	3.6
20	0.3	1.4	3.5	3.4	725	77	68	22	12	6.5	3.9	3.7
21	0.3	1.2	2.9	4.0	473	72	61	21	12	6.5	3.9	3.4
22	0.3	1.1	2.6	4.7	451	66	a 58	21	12	6.5	3.9	3.3
23	0.3	1.0	72	3.4	274	61	a 55	21	12	6.5	4.1	3.3
24	0.4	1.1	66	20	199	57	a 52	21	11	7	4.1	3.2
25	2.0	1.1	29	9.5	142	54	a 49	20	11	7.5	4.1	3.3
26	3.7	1.0	9.5	10	113	51	a 47	19	11	8	4.3	3.4
27	1.5	0.9	6.5	8	83	48	a 45	18	10	8	4.4	3.6
28	1.2	0.9	5	6.5	197	73	43	19	10	7.5	4.4	3.6
29	1.0	0.9	6	6		109	46	19	10	6.5	4.3	3.6
30	1.0	1.0	5.5	5.5		57	110	18	10	6	4.1	3.4
31	0.9		4.6	5		86		18		6	4.0	
	19.4	29.9	281.7	165.9	3553.8	4107	2744	929	402	230.5	141.9	107.7
Mean	0.63	1.0	9.09	5.35	127.	132.	91.5	30.0	13.4	7.44	4.58	3.59
Acre-Feet	38.	59.	559.	329.	7050.	8150.	5440.	1840.	797.	457.	281.	214.

Remarks:

Year or Period: Mean 34.8; Acre-Feet 25210.

STATION U9R

SAN GABRIEL RIVER BASIN Dalton Creek near Glendora

LOCATION: (revised)

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. 9W., a quarter of a mile upstream from mouth of canyon, and 2½ miles northeast of Glendora. Altitude of gage, about 1,125 feet.

DRAINAGE AREA:

7.5 square miles.

RECORDS AVAILABLE:

December 1919 to September 1941.

AVERAGE DISCHARGE:

21 years (1920-1941), 1.28 second-feet.

EXTREMES:

Maximum discharge during year, 93 second-feet March 5 (gage height, 1.70 feet); no flow for several months.

1919-1941
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 period of no gage-height record, which are fair. Glendora Irrigation Co. diverts water above gage through 10-inch pipe line. Storage at flood-control dam about 1 mile upstream.

COOPERATION:

Results of 44 discharge measurements furnished by Los Angeles County Flood Control District, through H. E. Hedger, chief engineer.

a No gage-height record; discharge computed on basis of recorded range in stage, records of release, and diversion above gage.

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 41

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.
616	12-17		U.S.G.S.				0.45	0.92		.6	13	+.04	
617	12-18	1146A / 1150A	Brewster	1.0	0.24	0.42	0.10	0.10		.6	2	0	FC24
618	12-23		U.S.G.S.				0.66	2.7		.6	9	-.01	
619	12-24		U.S.G.S.				0.68	4.7		.6	10	-.01	
620	12-25	935A / 942A	Brewster	4.0	1.50	0.79	0.49	1.2		.6	4	0	FC24
621	12-31	1052A / 1100A	Brewster	4.0	1.03	0.46	0.27	0.47		.6	4	0	FC24
622	1-2		U.S.G.S.				0.18	0.26		.6	11	0	
623	1-8	1100A / 1110A	Brewster	3.0	0.60	0.43	0.11	0.26		.6	5	0	FC24
624	1-15	930A / 937A	Brewster	3.0	0.63	0.37	0.12	0.23		.6	4	0	FC24
625	1-16		U.S.G.S.				0.11	0.08		.6	6	0	
626	1-22	1124A / 1130A	Brewster	4.0	0.98	0.35	0.15	0.34		.6	4	0	FC24
626	1-27		U.S.G.S.				0.26	0.41		.6	8	0	
628	1-29	1100A / 1107A	Brewster	4.0	1.19	0.49	0.23	0.58		.6	4	0	FC24
629	2-5	1219P / 1225P	Brewster	4.0	1.22	0.45	0.16	0.55		.6	4	0	FC24
630	2-12	957A / 1003A	Brewster	3.0	0.96	0.57	0.30	0.55		.6	4	0	FC24
631	2-12		U.S.G.S.				0.27	0.42		.6	6	0	
632	2-16		U.S.G.S.				0.54	1.1		.6	8	0	
633	2-17		U.S.G.S.				0.63	2.2		.6	8		
634	2-19	952A / 1000A	Brewster	4.0	1.49	1.27	0.56	1.9		.6	4	0	FC24
635	2-20		U.S.G.S.				0.85	12.8		.6	8	+.01	
636	2-20		U.S.G.S.				0.97	17.5		.6	10	+.03	
637	2-21		U.S.G.S.				0.82	9.3		.6	11	0	
638	2-23		U.S.G.S.				1.05	23.7		.6	11	0	
639	2-23	1202P / 1215P	Brewster-Smith	10.0	8.14	3.05	1.05	24.8		.6	7	0	FC24

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U9R

DISCHARGE MEASUREMENTS OF DALTON CREEK

AT OR NEAR Glendora DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
640	2-24		U.S.G.S.				1.05	23.6		.6	18	0	
641	2-24	300P / 312P	Brewster	10.0	8.01	2.87	1.04	22.6		.6	7	0	FC24
642	2-26	1100A / 1115A	Brewster	9.5	6.94	2.74	1.00	19.0		.6	10	0	FC24
643	2-28	228P / 235P	Brewster	4.0	2.37	1.60	0.70	3.8		.6	4	0	FC24
644	3-3		U.S.G.S.				0.83	10.6		.6	17	+.02	
645	3-3	515P / 525P	Brewster	9.0	4.80	2.25	0.84	10.8		.6	9	0	FC24
646	3-5		U.S.G.S.	15.0	13.5	5.41	1.57	75.		.6	6	-.02	
647	3-6	1040A / 1055A	Brewster-Smith	15.0	16.5	4.33	1.53	71.5		.6	8	0	FC24
648	3-6		U.S.G.S.				1.55	75.		.6	15	+.05	
649	3-10	415P / 432P	Brewster	7.4	9.35	1.99	1.21	18.6		.6	8	0	FC24
650	3-13		U.S.G.S.				1.23	23.2		.6	11	-.02	
651	3-14	1005A / 1020A	Brewster-Smith	14.0	11.9	3.34	1.43	39.7		.6	10	0	FC24
652	3-15		U.S.G.S.				1.39	37.7		.6	12	0	
653	3-15	240P / 255P	Brewster-Smith	13.0	11.4	2.89	1.37	32.9		.6	11	0	FC24
654	3-17	1220P / 1240P	Brewster	13.0	11.2	3.00	1.31	33.6		.6	11	0	FC24
655	3-19	1205P / 1220P	Brewster	13.0	11.4	2.87	1.29	32.7		.6	11	0	FC24
656	3-19		U.S.G.S.				1.29	35.7		.6	14	0	
657	3-24	445P / 500P	Brewster	8.0	7.84	1.95	1.09	15.3		.6	8	0	FC24
658	3-26	1245P / 100P	Brewster	7.5	7.51	2.04	1.10	15.3		.6	8	0	FC24
659	3-26		U.S.G.S.				1.10	15.4		.6	14	0	
660	4-1		U.S.G.S.				0.76	5.6		.6	14	0	
661	4-2	1113A / 1125A	Brewster	7.0	4.30	1.16	0.75	5.0		.6	7	0	FC24
662	4-8		U.S.G.S.				0.75	5.1		.6	16	0	
663	4-9	1140A / 1155A	Brewster	7.5	4.71	1.06	0.75	5.0		.6	8	0	FC24
664	4-16	1205P / 1217P	Brewster	7.5	7.27	1.82	1.06	13.2		.6	8	0	FC24
665	4-23	1108A / 1120A	Brewster	7.0	4.10	1.07	0.73	4.4		.6	7	0	FC24
666	4-23		U.S.G.S.				0.70	3.8		.6	13	0	
667	4-30	258P / 310P	Brewster	7.5	4.57	1.07	0.74	4.9		.6	8	0	FC24
668	5-5		U.S.G.S.				0.66	2.8		.6	14	0	
669	5-7	1115A / 1130A	Brewster	7.5	3.45	0.84	0.65	2.9		.6	8	0	FC24
670	5-13		U.S.G.S.				0.58	1.2		.6	13	0	
671	5-14	1103A / 1115A	Brewster	6.5	2.45	0.53	0.60	1.3		.6	7	0	FC24
672	5-21	1100A / 1112A	Brewster	7.0	3.26	0.67	0.66	2.2		.6	7	0	FC24
673	5-27		U.S.G.S.				0.53	0.62		.6	12	0	
674	5-28	1125A / 1135A	Brewster	6.0	2.68	0.49	0.62	1.3		.6	6	0	FC24
675	6-4	1130A / 1141A	Brewster	6.5	2.55	0.43	0.63	1.1		.6	7	0	FC24
676	6-9		U.S.G.S.				0.54	0.72		.6	11	+.02	
677	6-11	555P / 605P	Brewster	6.0	1.96	0.31	0.27	0.60		.6	6	0	FC24
678	6-16		U.S.G.S.				0.73	3.7		.6	13	0	
679	6-18	1135A / 1145A	Brewster	2.5	0.96	0.44	0.25	0.42		.6	5	0	FC24
680	6-25	1035A / 1045A	Brewster	2.5	1.00	0.55	0.32	0.55		.6	5	-.01	FC24
681	6-30		U.S.G.S.				0.21	0.21		.6	9	0	
682	7-2	1201P / 1207P	Brewster	2.5	0.82	0.38	0.21	0.31		.6	5	0	FC24
683	7-7		U.S.G.S.				0.12	0.08		.6	4	0	
684	7-9	445P / 452P	Brewster	2.0	0.50	0.30	0.12	0.15		.6	4	0	FC24
685	7-16	1135A / 1140A	Brewster	1.0	0.25	0.32	0.09	0.08		.6	2	0	FC24
686	7-21		U.S.G.S.				0.07	0.03		.6	6	0	
687	7-23	1110A / 1115A	Brewster	1.0	0.25	0.28	0.07	0.07		.6	2	0	FC24
688	7-29		U.S.G.S.				0.07	0.03		.6	6	0	
689	7-30	1111A / 1115A	Brewster	1.0	0.26	0.23	0.07	0.06		.6	2	0	FC24
690	8-6	456P / 500P	Brewster	1.0	0.24	0.17	0.06	0.04		.6	2	0	FC24
691	8-27	1232P / 1234P	Brewster	0.8	0.12	0.08	0.01	0.01		.6	1	0	FC24

F.C. Dist. Form 52 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 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0.3	0.3	8.5	6	3.4	0.9	0.4		0
2	0	0	0	0.3	0.3	8	5.5	3.4	0.9	0.3		0
3	0	0	0	0.3	0.3	10	4.9	3.2	0.9	0.3		0
4	0	0	0	0.3	0.2	37	6.5	3.0	1.0	0.2		0
5	0	0	0	0.3	0.2	57	7.5	3.0	0.9	0.2		0
6	0	0	0	0.3	0.4	30	6	3.0	1.1	0.2		0
7	0	0	0	0.3	0.3	83	5.5	2.9	1.3	0.1		0
8	0	0	0	0.3	0.2	46	5	2.7	1.0	0.1	0.03	0
9	0	0	0	0.3	0.2	22	5.5	2.6	0.9	0.2		0
10	0	0	0	0.3	0.2	19	5.5	2.0	0.8	0.2		0
11	0	0	0	0.3	1.0	19	9	1.8	1.6	0.2		0
12	0	0	0	0.3	0.5	20	15	1.4	0.9	0.2		0
13	0	0	0	0.3	0.4	27	15	1.3	a 0.9	0.1		0
14	0	0	0	0.3	0.5	41	14	1.3	a 0.9	0.1		0
15	0	0	0	0.3	0.9	32	14	1.3	a 0.9	0.1		0
16	0	0	0	0.3	1.4	23	13	1.4	a 0.8	0.1		0
17	0	0	0.7	0.3	2.0	34	13	1.3	0.7	0.1		0
18	0	0	0.2	0.2	1.8	34	13	1.0	0.5	0.1		0
19	0	0	0.1	0.2	3.9	27	13	1.3	0.6			0
20	0	0	0.1	0.2	13	17	12	1.7	1.0			0
21	0	0	0.1	0.2	10	16	13	1.4	0.7			0
22	0	0	0.1	0.3	12	16	13	1.2	0.6			0
23	0	0	0.9	0.3	23	16	7	2.2	0.6		0.01	0
24	0	0	3.4	1.7	23	15	3.4	2.9	1.2	0.04		0
25	0	0	1.1	0.5	20	15	3.2	3.2	1.4			0
26	0	0	0.5	0.5	19	15	3.2	2.2	0.4			0
27	0	0	0.3	0.4	25	15	3.4	0.9	0.3			0
28	0	0	0.2	0.4	15	10	3.2	0.9	0.3			0
29	0	0	0.3	0.4		5.5	3.2	0.9	0.2			0
30	0	0	0.3	0.4		3.6	4.2	0.9	0.2			0
31	0		0.5	0.3		4.9		0.9				
	0	0	8.8	11.1	175.0	776.7	245.7	60.6	24.4	3.72	0.63	0
MEAN	0	0	0.28	0.36	6.25	25.1	8.19	1.95	0.81	0.12	0.02	0
ACRE-FEET	0	0	17.	22.	347.	1540.	487.	120.	48.	7.4	1.2	0

Remarks:

YEAR OR PERIOD MEAN 3.58
ACRE FEET 2590.

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 SE ¼ sec. 2, T. 1 N., R. 12W., at mouth of canyon, just upstream from site of former Mount Wilson toll bridge, and 4 miles northeast of Pasadena. Altitude of gage, about 1,230 feet.

DRAINAGE AREA:

6.5 square miles.

RECORDS AVAILABLE:

March 1918 to September 1941.

AVERAGE DISCHARGE:

23 years, 2.71 second-feet. Average combined discharge of creek and diversion, 23 years, 3.80 second-feet.

EXTREMES:

Maximum discharge during year, 317 second-feet Feb. 20 (gage height, 2.80 feet), from rating curve extended above 160 second-feet by logarithmic plotting; no flow for several months.

1918-1941
Maximum discharge, 2,400 second-feet Mar. 2, 1938, from record of inflow to Eaton flood-control reservoir; no flow for some periods in each year.

REMARKS:

Records good. Records do not include water diverted above station by city of Pasadena.

Monthly diversion, in acre-feet, from Eaton Creek by City of Pasadena, Water year 1940-1941.

October	30	April	257
November	48	May	332
December	100	June	126
January	154	July	245
February	116	August	176
March	223	September	126
		The year	1930

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U2R

DISCHARGE MEASUREMENTS OF EATON CREEK

AT OR NEAR Pasadena DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
324	11-19		U.S.G.S.				0.07	0.08		.6	13	0	
325	12-17		U.S.G.S.				0.43	6.3		.6	12	-.02	
326	12-23		U.S.G.S.				1.02	25.8		.6	17	+.02	
327	12-24	928A / 936A	Lindsay-Keim	18.5	9.12	3.18	1.09	29.1		.6	9	-.01	FC28
328	1-24		U.S.G.S.				0.76	12.3		.6	17	-.005	
329	2-11		U.S.G.S.				0.59	9.0		.6	11	+.02	
330	2-11		U.S.G.S.				1.09	38.8		.6	18	-.04	
331	2-15		U.S.G.S.				0.80	14.0		.6	19	+.01	
332	2-17		U.S.G.S.				1.30	61.		.6	18	-.08	
333	2-19		U.S.G.S.				1.30	69.		.6	20	+.02	
334	2-20		U.S.G.S.				1.86	154.		.6	13	+.12	
335	2-21		U.S.G.S.				2.14	162.	.2	.6&.8	15	+.06	
336	2-22		U.S.G.S.				1.95	149.	.2	.6&.8	16	-.10	
337	2-27		U.S.G.S.				1.04	27.4		.6	23	0	
338	3-1		U.S.G.S.				1.51	74.		.6	31	-.06	
339	3-1		U.S.G.S.				1.42	60.		.6	21	0	
340	3-4		U.S.G.S.				2.11	162.	.2	.6&.8	16	-.02	
341	3-5		U.S.G.S.				1.91	121.		.6	16	0	
342	3-12		U.S.G.S.				1.55	70.		.6	22	+.02	
343	3-13		U.S.G.S.				1.45	69.		.6	19	-.02	
344	3-18		U.S.G.S.				1.12	35.4		.6	16	0	
345	3-24		U.S.G.S.				0.93	18.3		.6	23	0	
346	3-29		U.S.G.S.				1.12	26.6		.6	16	.01	
347	3-31		U.S.G.S.				1.23	37.4		.6	18	.02	
348	4-7		U.S.G.S.				1.21	41.3		.6	19	0	
349	4-14		U.S.G.S.				1.15	40.0		.6	26	0	
350	4-21		U.S.G.S.				0.97	25.5		.6	24	0	
351	4-23	220P / 230P	Lindsay	16.0	9.35	1.82	1.04	17.0		.6	9	0	FC28
352	5-5		U.S.G.S.				0.81	14.5		.6	21	0	
353	5-5	1217P / 1225P	Lindsay	10.0	7.49	1.76	0.80	13.2		.6	7		FC28
354	5-19		U.S.G.S.				0.67	10.3		.6	16	0	
355	5-26		U.S.G.S.				0.38	3.9		.6	13	0	
356	6-9		U.S.G.S.				0.53	7.0		.6	11	0	
357	6-17		U.S.G.S.				0.40	5.1		.6	10	0	
358	6-25	207P / 215P	Lindsay	9.5	3.42	0.85	0.33	2.9		.6	6	0	FC28
359	6-30		U.S.G.S.				0.40	4.5		.6	13	0	

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No U2R

Daily discharge, in second-feet of EATON CREEK near Pasadena, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	74	42	22	10	3.7	0	0
2	0	0	0	0	0	94	41	19	8.5	3.9	0	0
3	0	0	0	0	0	74	27	20	8	1.6	0	0
4	0	0	0	0	0	148	55	17	8	0.2	0	0
5	0	0	0	0	0	119	76	14	8.5	0.1	0	0
6	0	0	0	0	2.2	90	51	14	8.5	0.1	0	0
7	0	0	0	0	0	68	43	13	8.5	0.3	0	0
8	0	0	0	0	0	54	38	12	8	0.1	0	0
9	0	0	0	0	0	48	42	13	7	0	0	0
10	0	0	0	0	0	42	44	11	6.5	0	0	0
11	0	0	0	0	23	34	70	10	6.5	0	0.1	0
12	0	0	0	0	17	68	49	11	5	0	0	0
13	0	0	0	0	6	72	41	11	5.5	0	0	0
14	0	0	0	0	9.5	64	40	10	7	0	0	0
15	0	0	0	0	18	57	36	9.5	6.5	0	0	0
16	0	0	0.9	0	26	44	33	9	5.5	0	0	0
17	0	0	13	0	62	38	32	8	5	0	0	0
18	0	1.3	2.7	0	33	35	30	8	4.6	0	0	0
19	0	0.1	1.0	0	51	32	28	9	4.1	0	0	0
20	0	0	0	0	159	28	27	6	4.5	0	0	0
21	0	0	0	0	154	25	25	5.5	4.3	0	0	0
22	0	0	0	0.2	140	23	25	7	3.1	0	0	0
23	0	0	15	0	101	21	23	6.5	2.9	0	0	0
24	0	0	18	5	69	18	22	6	3.4	0	0	0
25	0	0	4.1	0.6	46	17	20	6	3.0	0.1	0	0
26	0.1	0	0.5	0	30	17	22	4.5	3.4	0.1	0	0
27	0	0	0	0	26	17	20	5.5	4.5	0.4	0	0
28	0	0	0.1	0.1	56	23	18	6	4.5	0	0	0
29	0	0	0.7	0		34	18	9	4.3	0	0	0
30	0	0	0.3	0		16	41	10	3.8	0	0	0
31	0		0.6	0		28		10			0	
	0.1	1.4	56.9	5.9	1028.7	1522	1079	322.5	172.9	10.6	0.1	0
MEAN	0.003	0.05	1.84	0.19	36.7	49.1	36.0	10.4	5.76	0.34	0.003	0
ACRE-FEET	0.2	2.8	113.	12.	2040.	3020.	2140.	640.	343.	21.	0.2	0

Remarks:

YEAR OR PERIOD MEAN 11.5 ACRE FEET 8330.

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 SW¼ SW¼ 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, about 1,000 feet.

DRAINAGE AREA:

6.5 square miles.

RECORDS AVAILABLE:

July to September 1916, July 1917 to September 1941.

AVERAGE DISCHARGE:

24 years (1917-1941), 4.35 second-feet.

EXTREMES:

Maximum discharge during year, 443 second-feet Mar. 4 (gage height, 3.38 feet), from rating curve extended above 100 second-feet by logarithmic plotting; minimum discharge, 0.1 second-foot many days in October.

1916-1941:
Maximum discharge, about 2,180 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 17 discharge measurements furnished by Los Angeles County Flood Control District, through H. E. Hedger, chief engineer.

a No gage-height record; discharge computed on basis of probable recession curve.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U7R

DISCHARGE MEASUREMENTS OF FISH CREEK

NEAR Duarte DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
1357	10-3	1012A / 1018A	Ingram	2.4	0.27	0.56	0.06	0.15		.6	4	0	FC28
1358	10-7		U.S.G.S.				0.06	0.14		.6	11	0	
1359	10-17	836A / 841A	Lindsay	2.0	0.16	0.50	0.06	0.08		.6	4	0	FC28
1360	10-25		U.S.G.S.				0.13	0.61		.6	6	0	
1361	10-31	320P / 325P	Lindsay	2.5	0.45	0.73	0.10	0.33		.6	5	0	FC28
1362	11-14	1023A / 1030A	Lindsay	2.5	0.43	0.77	0.10	0.33		.6	5	0	FC28
1363	11-15		U.S.G.S.				0.09	0.32		.6	11	0	
1364	11-28	315P / 322P	Lindsay	3.1	0.60	0.87	0.11	0.52		.6	6	0	FC28
1365	11-29		U.S.G.S.				0.11	0.47		.6	11	0	
1366	12-3		U.S.G.S.				0.12	0.59		.6	12	0	
1367	12-12		U.S.G.S.				0.15	0.81		.6	10	0	
1368	12-17		U.S.G.S.				0.62	8.4		.6	10	-.01	
1369	12-17		U.S.G.S.				0.56	7.0		.6	15	-.01	
1370	12-23		U.S.G.S.				0.97	15.8		.6	13		
1371	12-24		U.S.G.S.				1.46	41.4		.6	17	-.09	
1372	12-27	917A / 927A	Lindsay	7.5	2.51	1.24	0.39	3.1		.6	8	0	FC28
1373	1-2		U.S.G.S.				0.36	3.1		.6	12	0	
1374	1-8	200P / 208P	Lindsay	7.2	1.60	0.92	0.26	1.5		.6	8	0	FC28
1375	1-11		U.S.G.S.				0.25	1.8		.6	14	0	
1376	1-25		U.S.G.S.				0.74	8.7		.6	13	0	
1377	1-30	230P / 240P	Lindsay	7.3	1.83	1.37	0.40	2.5		.6	9	0	FC28
1378	2-4		U.S.G.S.				0.29	2.1		.6	13	0	
1379	2-12		U.S.G.S.				0.83	11.4		.6	20	0	
1380	2-17		U.S.G.S.				1.42	36.5		.6	16	-.01	
1381	2-19		U.S.G.S.				0.93	16.3		.6	13	0	
1382	2-22		U.S.G.S.				1.87	94.		.6	14	+.06	
1383	2-23		U.S.G.S.				1.44	51.		.6	22	-.02	
1384	2-27		U.S.G.S.				1.11	21.7		.6	14	0	
1385	3-1		U.S.G.S.				2.06	87.		.6	26	+.01	
1386	3-5		U.S.G.S.	27.5	25.2	6.31	2.25	159.		.6	10	0	
1387	3-6		U.S.G.S.				1.96	84.		.6	20	0	
1388	3-12	935A / 955A	Ingram	16.0	13.4	2.39	1.83	32.1		.6	7	0	FC28
1389	3-13		U.S.G.S.				1.64	70.		.6	18	0	
1390	3-19		U.S.G.S.				1.24	31.3		.6	17	0	
1391	3-25		U.S.G.S.				0.98	19.4		.6	16	0	
1392	4-2		U.S.G.S.				1.44	44.9		.6	19	0	
1393	4-8		U.S.G.S.				1.37	41.1		.6	19	0	
1394	4-23		U.S.G.S.				1.18	22.3		.6	21	0	
1395	5-3		U.S.G.S.				1.13	19.4		.6	17	0	
1396	5-13		U.S.G.S.				0.94	12.9		.6	20	0	
1397	5-19		U.S.G.S.				0.75	9.7		.6	18	0	
1398	5-26		U.S.G.S.				0.64	7.7		.6	15	-.02	
1399	6-3		U.S.G.S.				0.71	8.1		.6	16	0	
1400	6-12	1122A / 1132A	Lindsay	13.5	5.65	1.04	0.61	5.9		.6	8	0	FC28
1401	6-16		U.S.G.S.				0.60	5.7		.6	13	-.01	
1402	6-19	1105A / 1115A	Lindsay	12.5	4.78	1.15	0.64	5.5		.6	8	0	FC28
1403	6-25	318P / 328P	Lindsay	11.0	3.74	1.07	0.56	4.0		.6	8	0	FC28
1404	6-30		U.S.G.S.				0.65	5.6		.6	13	0	
1405	7-17	1055A / 1103A	Haig-Lindsay	11.0	3.01	0.86	0.48	2.6		.6	6	0	FC28
1406	7-21		U.S.G.S.				0.42	2.7		.6	10	0	
1407	7-24	1131A / 1140A	Haig	12.2	3.59	0.83	0.46	3.0		.6	7	0	FC33
1408	7-28		U.S.G.S.				0.47	2.9		.6	11	0	
1409	7-30	155P / 206P	Haig - Haig	11.5	3.35	0.71	0.41	2.4		.6	7	0	FC33
1410	8-22		U.S.G.S.				0.38	2.0		.6	10	0	
1411	8-28	250P / 300P	Lindsay	11.5	3.18	0.70	0.40	2.2		.6	8	0	FC28
1412	9-3		U.S.G.S.				0.38	2.1		.6	12	0	
1413	9-18	1115A / 1123A	Haig	7.0	3.26	0.43	0.32	1.4		.6	7	0	FC28
1414	9-19		U.S.G.S.				0.31	1.4		.6	10	0	

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No U7R

Daily discharge, in second-feet of FISH CREEK near Duarte, for the year ending September 30, 1941

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.4	0.6	3.6	2.1	72	46	21	8	4.9	2.3	1.7
2	0.1	0.4	0.6	3.0	2.1	73	45	20	7.5	4.4	2.4	1.8
3	0.1	0.4	0.6	2.6	2.1	57	35	20	7.5	4.0	2.3	1.9
4	0.1	0.4	0.6	2.3	2.0	255	69	19	7	3.9	2.2	1.7
5	0.1	0.4	0.6	2.1	1.8	170	91	18	6.5	3.6	2.4	1.6
6	0.2	0.4	0.5	2.0	6	92	54	16	6.5	3.5	2.3	1.6
7	0.2	0.4	0.5	1.9	3.3	a 72	45	16	6.5	3.3	2.2	1.7
8	0.2	0.4	0.6	1.7	3.1	a 58	41	14	6.5	3.2	2.2	1.7
9	0.2	0.4	0.6	1.6	2.8	a 48	43	14	6	3.2	2.3	1.6
10	0.2	0.4	0.6	2.2	2.6	a 40	49	13	6	3.2	2.4	1.4
11	0.2	0.4	0.6	1.8	18	a 36	79	13	6	3.2	2.4	1.2
12	0.1	0.4	0.8	1.6	14	64	50	13	6	3.1	2.1	1.1
13	0.1	0.4	0.7	1.5	8	73	43	13	6	2.8	2.0	1.3
14	0.1	0.3	0.7	2.0	12	68	38	13	6.5	2.6	1.9	1.5
15	0.1	0.4	0.6	1.6	31	57	35	12	6.5	2.4	2.1	1.5
16	0.1	0.4	5	1.5	34	48	32	12	6	2.4	2.0	1.3
17	0.1	0.6	18	1.3	35	42	31	12	5.5	2.3	1.8	1.2
18	0.1	3.7	4.3	1.2	23	35	29	12	5.5	2.3	1.8	1.3
19	0.1	1.0	3.6	1.2	44	30	27	11	5	2.4	1.7	1.3
20	0.1	0.7	2.4	1.1	172	26	27	10	5	2.4	1.6	1.4
21	0.1	0.6	2.0	1.4	124	26	26	10	4.7	2.4	1.6	1.3
22	0.1	0.6	1.7	3.3	100	26	23	10	4.7	2.4	1.8	1.1
23	0.2	0.6	18	1.8	56	22	22	9.5	4.6	2.4	1.8	1.1
24	0.2	0.6	34	21	37	20	22	9	4.6	2.6	1.9	1.1
25	1.6	0.6	11	9.5	a 30	20	21	9	4.6	3.0	2.0	1.1
26	1.8	*0.5	4.6	6.5	a 25	19	21	8	4.7	3.1	2.1	1.2
27	0.6	0.5	2.6	4.9	22	19	19	8	4.9	3.0	2.0	1.2
28	0.5	0.5	2.1	3.9	56	25	18	8	4.9	2.7	2.1	1.2
29	0.5	0.5	5	3.1		41	17	8	4.9	2.6	2.0	1.2
30	0.4	0.6	4.7	2.6		24	35	8	5	2.4	1.8	1.1
31	0.4		5	2.3		32		7.5		2.4	1.7	
	92	179	133.4	98.1	868.9	1690	1133	387.0	173.6	92.1	63.2	41.4
MEAN	0.30	0.60	4.30	3.16	31.0	54.5	37.8	12.5	5.79	2.97	2.04	1.38
ACRE-FEET	18.	36.	265.	195.	1720.	3350.	2250.	768.	344.	183.	125.	82.

Remarks:

YEAR OR PERIOD — MEAN 12.9 — ACRE-FEET 9340.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U12R

DISCHARGE MEASUREMENTS OF HAINES CREEK

AT OR NEAR Tujunga DURING THE YEAR ENDING SEPTEMBER 30, 1941

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
263	12-16		U.S.G.S.				1.12	0.11	Float				
264	12-17		U.S.G.S.				1.05	0.01	Float				
265	12-27		U.S.G.S.				1.02	+	Vol.				
266	1-7		U.S.G.S.				1.02	+	Vol.				
267	1-24		U.S.G.S.				1.06	0.01	Vol.				
268	2-15		U.S.G.S.				1.36	0.09	.6	3	0		
269	2-17		U.S.G.S.				1.69	1.9	.6	4	0		
270	2-20		U.S.G.S.				2.16	12.5	.6	10	+.07		
271	2-22		U.S.G.S.				1.92	5.9	.6	11	-.01		
272	2-25		U.S.G.S.				1.59	2.2	.6	9	0		
273	2-28		U.S.G.S.				2.06	13.1	.6	11	+.12		
274	3-1		U.S.G.S.				1.64	2.7	.6	8	-.02		
275	3-5		U.S.G.S.				2.16	8.3	.6	13	-.03		
276	3-12		U.S.G.S.				1.62	3.4	.6	10	+.02		
277	3-14		U.S.G.S.				1.55	2.9	.6	10	0		
278	3-18		U.S.G.S.				1.40	1.8	.6	10	-.01		
279	3-24		U.S.G.S.				1.32	1.2	.6	9	0		
280	3-31		U.S.G.S.				2.10	9.2	.6	12	-.30		
281	4-1		U.S.G.S.				1.49	1.7	.6	11	0		
282	4-7		U.S.G.S.				1.58	2.7	.6	9	0		
283	4-21		U.S.G.S.				1.69	1.2	.6	8	0		
284	4-28		U.S.G.S.				1.46	1.4	.6	6	0		
285	5-5		U.S.G.S.				1.42	1.4	.6	7	0		
286	5-19		U.S.G.S.				1.34	0.86	.6	7	0		
287	5-26		U.S.G.S.				1.34	0.76	.6	8	0		
288	6-9		U.S.G.S.				1.32	0.52	.6	6	0		
289	6-23		U.S. .S.				1.27	0.48	.6	7	0		
290	7-7		U.S.G.S.				1.27	0.42	.6	10	0		
291	7-28		U.S.G.S.				1.23	0.30	.6	9	0		
292	8-21		U.S.G.S.				1.14	0.22	Vol.				
293	9-16		U.S.G.S.				1.13	0.21	Vol.				

STATION U12R

LOS ANGELES RIVER BASIN Haines Creek near Tujunga

LOCATION: (revised)

Water-stage recorder and broad-crested weir control, lat. 34°15'50", long. 118°16'15", in NW¼ NW¼ sec. 17, T. 2 N., R. 13 W., half a mile upstream from mouth of canyon and 1½ miles northeast of Tujunga. Altitude of gage, about 2,430 feet.

DRAINAGE AREA:

1.2 square miles.

RECORDS AVAILABLE:

February 1917 to September 1934, October 1935 to September 1941.

AVERAGE DISCHARGE:

23 years, 0.167 second-foot.

EXTREMES:

Maximum discharge during year, 54 second-feet December 17 (gage height, 3.10 feet), from rating curve extended above 13 second-feet; practically no flow at times in October, November, and December.

1917-1934, 1935-1941:
Maximum gage height, 11.0 feet, Jan. 1, 1934 (discharge not determined); no flow for periods in most years.

REMARKS:

Records fair October to April and good May to September, except those for periods of doubtful or no gage-height record, which are poor.

d Doubtful gage-height record; discharge computed on basis of hourly rainfall records and probable recession curve.

Note. No gage-height record Oct. 12-22, Dec. 25,26, Dec. 31 to Jan. 6, Feb. 7-10, 12, 13, Mar. 5, Apr. 15-19; discharge interpolated, or computed on basis of probable recession curve.

F. C. Dist. Form 21 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 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					0.01	3.4	2.3	1.9	0.69	0.42	0.32	0.24
2					0.01	2.5	2.5	1.7	0.64	0.42	0.32	0.24
3					0.01	4.9	2.2	1.6	0.64	0.42	0.29	0.24
4					0.01	18	4.5	1.4	0.64	0.42	0.29	0.24
5					0.01	9	3.4	1.3	0.60	0.42	0.29	0.24
6					1.5	4.0	3.0	1.2	0.60	0.42	0.29	0.21
7			0.005		0.10	3.1	2.6	1.1	0.57	0.42	0.29	0.24
8					0.05	d 2.6	2.5	1.2	0.57	0.42	0.29	0.24
9					0.05	d 2.2	2.6	1.1	0.53	0.42	0.29	0.24
10					0.05	d 2.0	3.6	1.0	0.53	0.46	0.32	0.21
11					1.4	d 1.8	3.6	1.0	0.53	0.46	0.29	0.21
12					0.20	4.5	2.6	1.0	0.53	0.46	0.29	0.21
13					0.10	3.0	2.3	1.0	0.53	0.46	0.24	0.21
14					0.95	2.6	2.2	0.93	0.53	0.49	0.24	0.21
15	0.003	0.005		0.01	0.26	2.2	2.0	0.88	0.57	0.49	0.21	0.21
16			0.43		0.79	2.0	1.8	0.88	0.57	0.46	0.21	0.21
17			1.2		3.2	1.9	1.7	0.83	0.57	0.49	0.21	0.21
18			0.01		0.93	1.8	1.6	0.83	0.53	0.49	0.21	0.19
19			0.01		4.2	1.6	1.5	0.88	0.49	0.46	0.21	0.19
20			0.01		12	1.5	1.4	0.88	0.49	0.42	0.21	0.19
21			0.01		10	1.4	1.4	0.83	0.49	0.39	0.21	0.19
22			0.01		7.5	1.4	1.5	0.83	0.46	0.35	0.24	0.17
23			1.1		4.6	1.4	1.5	0.83	0.46	0.35	0.24	0.15
24			d 0.30		2.8	1.2	1.4	0.83	0.49	0.35	0.24	0.15
25			0.02		2.2	1.2	1.4	0.78	0.49	0.35	0.24	0.15
26			0.01		1.7	1.2	1.3	0.78	0.49	0.35	0.24	0.13
27			0.01		1.4	1.2	1.3	0.78	0.49	0.32	0.24	0.13
28			0.01		6	2.1	1.3	0.78	0.46	0.32	0.24	0.13
29			0.02			3.4	1.4	0.73	0.42	0.32	0.24	0.15
30			d 0.02			1.4	3.3	0.73	0.42	0.32	0.24	0.13
31			0.01			2.7		0.73		0.32	0.24	
	0.09	0.15	3.26	0.31	62.03	93.2	65.7	31.24	16.02	12.66	7.92	5.86
Mean	0.003	0.005	0.105	0.01	2.22	3.01	2.19	1.01	0.534	0.408	0.255	0.195
Acre-Feet	0.18	0.30	6.5	0.61	123.	185.	130.	62.	32.	25.	16.	12.

Remarks:

Year or Period Mean 0.818
Acre-Feet 593.

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. 11W., 2 miles northeast of Sierra Madre. Altitude of gage, about 2,200 feet.

DRAINAGE AREA:

1.9 square miles.

RECORDS AVAILABLE:

April 1916 to September 1941.

AVERAGE DISCHARGE:

24 years (1916-25, 1926-41), 1.05 second-feet.

EXTREMES:

Maximum discharge during year, 102 second-feet April 4 (gage height, 2.13 feet), from rating curve extended above 34 second-feet by logarithmic plottings minimum, less than 0.1 second-foot Oct. 1-24.
1916-1941:
Maximum discharge, 536 second-feet Mar. 2, 1938, computed on basis of inflow to Sierra Madre flood-control reservoir; no flow during periods in 1919, 1924, and 1925.

REMARKS:

Records good. No diversions above station.

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

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 41

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.
671	6-10		U.S.G.S.				0.94	3.2		.6	10	0	
672	6-23		U.S.G.S.				0.88	2.2		.6	9	0	
673	7-14		U.S.G.S.				0.81	0.93		.6	7	0	
648	10-7		U.S.G.S.				0.50	0.04		.6	6	0	
649	10-23		U.S.G.S.				0.50	0.05		.6	2	0	
650	11-6		U.S.G.S.				0.56	0.12		.6	4	0	
651	11-20		U.S.G.S.				0.59	0.18		.6	10	0	
652	11-27		U.S.G.S.				0.58	0.11		.6	9	0	
653	12-11		U.S.G.S.				0.57	0.12		.6	9	0	
654	12-18		U.S.G.S.				0.71	0.56		.6	19	0	
655	12-28		U.S.G.S.				0.71	0.62		.6	11	0	
656	1-16		U.S.G.S.				0.65	0.31		.6	10	0	
657	1-28		U.S.G.S.				0.76	0.80		.6	11	0	
658	2-12		U.S.G.S.				0.93	2.3		.6	8	0	
658A	2-15		U.S.G.S.				1.20	8.2		.6	22	-.02	
659	2-21		U.S.G.S.				1.59	32.9		.6	15	0	
660	2-22		U.S.G.S.				1.52	26.6		.6	20	-.02	
661	2-28		U.S.G.S.				1.12	6.4		.6	15	0	
662	3-1		U.S.G.S.				1.32	14.5		.6	17	0	
663	3-5		U.S.G.S.				1.62	33.6		.6	19	0	
664	3-14		U.S.G.S.				1.36	15.2		.6	21	0	
665	3-26		U.S.G.S.				1.14	7.6		.6	14	0	
666	4-2		U.S.G.S.				1.20	9.8		.6	17	0	
667	4-14		U.S.G.S.				1.33	12.3		.6	9	0	
668	4-22		U.S.G.S.				1.21	8.6		.6	19	0	
669	5-7		U.S.G.S.				1.12	6.6		.6	13	0	
670	5-27		U.S.G.S.				1.00	4.0		.6	13	0	
674	7-28		U.S.G.S.				0.82	1.4		.6	11	0	
675	8-21		U.S.G.S.				0.74	0.69		.6	11	0	
676	9-12		U.S.G.S.				0.71	0.58		.6	9	0	

F.C. Dist. Form 93 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 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0.1	0.1	0.5	0.6	16	10	8.5	3.6	1.8	1.1	0.6
2		0.1	0.1	0.5	0.6	17	10	8	3.6	1.7	1.0	0.6
3		0.1	0.1	0.4	0.5	17	9	7.5	3.4	1.6	1.0	0.6
4		0.1	0.1	0.4	0.5	39	19	7.5	3.4	1.6	1.0	0.6
5		0.2	0.1	0.4	0.5	35	19	7	3.4	1.5	1.0	0.6
6		0.1	0.1	0.4	1.1	27	16	7	3.4	1.4	1.0	0.6
7		0.1	0.1	0.4	0.7	21	15	6	3.6	1.4	0.9	0.6
8		0.1	0.1	0.3	0.6	17	13	6	3.4	1.4	0.9	0.6
9		0.1	0.1	0.3	0.6	15	13	5.5	3.2	1.3	0.9	0.6
10		0.1	0.1	0.4	0.6	12	12	5.5	3.2	1.2	1.0	0.6
11		0.1	0.1	0.4	2.4	11	15	5.5	3.0	1.2	1.0	0.6
12	0.05	0.1	0.2	0.3	2.3	19	14	5.5	3.0	1.2	0.9	0.6
13		0.1	0.1	0.3	1.7	17	13	5	3.0	1.1	0.9	0.6
14		0.1	0.1	0.4	2.4	15	12	5	3.0	1.1	0.9	0.6
15		0.1	0.1	0.3	5	14	12	5	3.0	1.0	0.9	0.6
16		0.1	0.7	0.3	6.5	13	11	5	2.9	1.1	0.8	0.6
17		0.2	2.1	0.3	9.5	12	10	4.7	2.6	1.0	0.8	0.6
18		0.5	0.7	0.3	7	12	10	4.7	2.6	1.0	0.7	0.6
19		0.2	0.6	0.3	10	11	9.5	4.5	2.5	1.1	0.7	0.6
20		0.2	0.4	0.3	26	10	9.5	4.5	2.5	1.1	0.7	0.6
21		0.2	0.4	0.3	28	9.5	9.5	4.3	2.5	1.0	0.6	0.6
22		0.2	0.3	0.4	30	9.5	8.5	4.1	2.3	1.0	0.6	0.6
23		0.2	2.7	0.4	18	9	8	4.1	2.3	1.0	0.6	0.6
24		0.2	3.0	1.7	12	8	8	3.9	2.3	1.1	0.7	0.6
25	0.2	0.1	1.7	1.1	10	7.5	7.5	3.9	2.1	1.3	0.7	0.6
26	0.5	0.1	1.1	1.3	7.5	7.5	7.5	3.9	2.1	1.4	0.7	0.6
27	0.3	0.1	0.8	1.0	7	7.5	7	3.9	2.2	1.4	0.7	0.6
28	0.1	0.1	0.6	0.8	14	9	7	3.7	2.1	1.4	0.7	0.6
29	0.1	0.1	0.8	0.8		9.5	7	3.7	2.0	1.2	0.7	0.6
30	0.1	0.1	0.6	0.7		7.5	13	3.6	2.0	1.2	0.6	0.6
31	0.1		0.6	0.6		9.5		3.7		1.1	0.6	
	2.60	4.2	18.7	16.3	205.6	444.0	335.0	160.7	84.2	38.9	25.3	18.0
Mean	0.08	0.14	0.60	0.53	7.34	14.3	11.2	5.18	2.81	1.25	0.82	0.60
Acre-Feet	5.2	8.3	37.	32.	408.	881.	664.	319.	167.	77.	50.	36.

Remarks:

Year or Period: Mean 3.71; Acre-Feet 2650.

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. 9W., 1-3/4 miles southeast of Valyermo. Altitude of gage, about 4,050 feet.

DRAINAGE AREA:

23.0 square miles.

RECORDS AVAILABLE:

January 1923 to September 1937, May 1938 to September 1941.

AVERAGE DISCHARGE:

17 years (1923-37, 1938-41), 14.8 second-feet.

EXTREMES:

Maximum discharge during year, 512 second-feet Feb. 21 (gage height, 4.10 feet), from rating curve extended above 290 second-feet by logarithmic plotting; minimum, 4.2 second-feet Oct. 23, 24.

1923-41
Maximum discharge, 8,300 second-feet Mar. 2, 1938, by slope-area method; minimum, 1.2 second-feet Aug. 22, 1925.

REMARKS:

Records good except those for days of high water Dec. 24, Feb. 20-22, which are fair. No diversions above station.

COOPERATION:

Results of 15 discharge measurements furnished by Los Angeles County Flood Control District.

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 or NEAR Valyermo DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
519	10-1		U.S.G.S.				1.91	4.7		.6	11	0	
520	10-22		U.S.G.S.				1.90	4.7		.6	9	0	
521	10-24	105P / 110P	van der Goot-Luce-	9.0	3.70	1.10	1.91	4.1		.6	8	0	FC39
522	11-5		U.S.G.S.				1.92	4.6		.6	9	0	
523	11-23	120P / 135P	Luce	9.6	4.18	1.10	1.94	4.6		.6	6	0	FC39
524	12-4		U.S.G.S.				1.95	5.0		.6	8	0	
525	12-17	515P / 525P	Luce-Pardieck	13.5	12.0	2.90	2.45	34.7		.6	11	0	FC39
526	12-18		U.S.G.S.				2.14	12.7		.6	19	0	
527	12-19		U.S.G.S.				2.06	9.2		.6	16	0	
528	12-23	609P / 618P	Luce-Pardieck	14.5	15.0	2.78	2.56	41.6		.6	11	0	FC39
529	12-27		U.S.G.S.				2.00	19.7		.6	20	0	
530	1-8		U.S.G.S.				1.90	11.9		.6	12	0	
531	1-21		U.S.G.S.				1.86	10.9		.6	11	0	
532	1-29	300P / 310P	Luce	14.5	10.2	2.21	2.00	22.6		.6	11	0	FC39
533	2-4		U.S.G.S.				1.99	14.8		.6	13	0	

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U14R

DISCHARGE MEASUREMENTS OF ROCK CREEK

NEAR Valyermo

DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
534	2-6	258P / 304P	Luce-Pardieck	15.5	10.1	2.00	2.06	20.3		.6	9	-.01	FC39
535	2-17	400P / 414P	Luce-Pardieck	23.0	25.0	4.88	2.80	122.		.6	12	+.01	FC39
536	2-21		U.S.G.S.	22.0	37.0	8.35	3.78	304.		.2	5	-.05	
537	2-22		U.S.G.S.	22.0	31.0	9.28	3.29	288.		.2	9	-.02	
538	2-24		U.S.G.S.				2.72	123.		.6	14	0	
539	3-5		U.S.G.S.				2.60	109.		.6	22	0	
540	3-11		U.S.G.S.				2.36	71.		.6	21	0	
541	3-18		U.S.G.S.				2.55	113.		.2&.8	21	0	
542	3-22		U.S.G.S.				2.44	87.		.2&.8	20	0	
543	3-29	214P / 228P	Luce-Pardieck	24.2	29.7	3.40	2.36	101.		.6	13	0	FC39
544	4-1		U.S.G.S.				2.30	79.		.6	17	0	
545	4-10		U.S.G.S.				2.46	87.		.2&.8	20	0	
546	4-17		U.S.G.S.				2.51	92.		.2&.8	20	0	
547	4-25		U.S.G.S.				2.38	77.		.6	19	0	
548	5-1		U.S.G.S.				2.54	93.		.2&.8	20	+.01	
549	5-8		U.S.G.S.				2.69	120.		.6	23	0	
550	5-9	440P / 505P	Luce	14.0	21.6	5.74	2.69	124.		.6	10	0	FC39
551	5-13		U.S.G.S.				2.70	127.		.6	23	0	
552	5-20		U.S.G.S.				2.65	110.		.6	22	0	
553	5-27		U.S.G.S.				2.66	116.		.6	22	0	
554	5-28		U.S.G.S.				2.67	115.		.6	20	0	
555	5-29	405P / 420P	Luce	22.5	22.7	9.71	2.61	107.		.6	10	-.01	FC39
556	6-3		U.S.G.S.				2.57	93.		.6	22	0	
557	6-12		U.S.G.S.				2.46	81.		.6	18	0	
558	6-13	1210P / 1230P	Turner	17.6	20.2	4.16	2.42	83.6		.6	10	0	FC5
559	6-20		U.S.G.S.				2.36	73.		.6	17	-.01	
560	6-27		U.S.G.S.				2.31	61.		.6	17	0	
561	6-27	1220P / 1235P	Turner	16.5	13.5	3.70	2.27	49.9		.6	9	0	FC5
562	7-2		U.S.G.S.				2.24	49.7		.6	19	0	
563	7-9		U.S.G.S.				2.18	44.9		.6	19	-.01	
564	7-15		U.S.G.S.				2.10	34.0		.6	16	0	
565	7-22		U.S.G.S.				2.03	27.0		.6	25	+.02	
566	7-26	1050A / 1100A	Luce	19.0	16.2	2.43	2.12	39.3		.6	11	0	FC39
567	7-29		U.S.G.S.				2.03	28.8		.6	13	0	
568	8-12		U.S.G.S.				1.96	26.2		.6	12	0	
569	8-23		U.S.G.S.				1.92	21.1		.6	24	0	
570	8-23	155P / 210P	Luce	16.0	12.2	1.27	1.89	21.3		.6	12	0	FC39
571	9-3		U.S.G.S.				1.86	16.6		.6	12	.005	
572	9-18		U.S.G.S.				1.82	16.0		.6	10	0	
573	9-26		Luce				1.77	15.9		.6	10	0	

F.C. Dist. Form 82 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 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5	4.5	5	18	19	168	82	96	104	50	28	18
2	5	4.5	5	16	17	136	78	96	104	50	28	18
3	5	4.5	5	15	16	111	74	104	100	49	28	17
4	4.8	4.5	4.8	14	15	147	90	109	96	48	27	17
5	4.8	4.5	4.8	14	15	120	159	113	107	48	27	17
6	4.8	4.5	4.8	12	21	96	124	126	104	46	27	17
7	4.8	4.5	4.8	12	17	86	115	130	100	45	27	17
8	4.8	4.5	4.8	12	16	80	102	132	96	44	27	17
9	4.8	4.5	4.8	12	16	76	100	132	92	43	26	17
10	4.8	4.8	4.8	12	16	73	97	136	90	41	27	16
11	4.8	4.8	4.8	12	34	72	109	145	87	40	27	15
12	4.8	4.8	5.5	12	33	116	102	132	90	39	26	15
13	4.8	4.8	5.5	12	29	204	90	134	87	37	26	15
14	4.8	4.5	6	12	41	171	100	134	84	37	25	15
15	4.8	4.5	6	12	76	149	102	120	83	36	26	15
16	4.8	4.5	7.5	12	78	132	102	126	83	35	25	15
17	4.8	4.8	46	12	132	122	99	128	82	34	24	15
18	4.8	4.8	16	12	63	116	92	130	82	34	24	16
19	4.8	4.8	9.5	11	50	107	86	120	80	33	24	16
20	4.8	4.8	7.5	11	299	100	82	113	76	32	24	15
21	4.8	4.8	6.5	11	410	94	76	113	73	32	23	16
22	4.8	4.8	6	11	292	87	74	119	72	30	23	16
23	4.5	4.8	37	11	185	84	74	122	70	30	23	15
24	4.5	4.8	106	21	130	82	74	128	66	31	21	15
25	5	4.8	48	23	111	74	78	122	63	31	21	15
26	5	4.8	29	24	97	72	83	122	60	33	20	15
27	4.8	4.8	21	24	86	70	87	122	56	31	20	15
28	4.8	4.8	19	23	121	76	92	113	55	30	19	14
29	4.8	4.8	22	23		101	94	104	51	29	19	14
30	4.5	5	22	22		87	107	104	51	28	18	13
31	4.5		20	21		87		104		28	18	
	148.6		499.4		2435		2824		2444		748	
		140.6		469		3296		3729		1154		471
MEAN	4.79	4.69	16.1	15.1	87.0	106.	94.1	120.	81.5	37.2	24.1	15.7
ACRE-FEET	295.	279.	991.	930.	4830.	6540.	5600.	7400.	4850.	2290.	1480.	934.

Remarks:

YEAR OR PERIOD MEAN 50.3 ACRE-FEET 36420.

STATION 06R

SAN GABRIEL RIVER BASIN Rogers Creek near Azusa

LOCATION:

Water-stage recorder, lat. 34°09'55", long. 117°54'20", in NW¼ NW¼ 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 measurements only), October 1917 to September 1941.

AVERAGE DISCHARGE:

24 years, 3.19 second-feet.

EXTREMES:

Maximum discharge during year, 408 second-feet March 4 (gage height, 6.95 feet); no flow for part of year.
1917-1941:
Maximum discharge, about 2,600 second-feet April 7, 1926; no flow for parts of each year.

REMARKS:

Records fair. Entire flow diverted above station at times.

COOPERATION:

Results of 37 discharge measurements furnished by Los Angeles County Flood Control District, through H. E. Hedger, chief engineer.

a No gage-height record; discharge interpolated, or computed on basis of one discharge measurement and probable recession curve.

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 OR NEAR Azusa DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
961	11-27		U.S.G.S.				3.92	0.11		.6	12	0	
962	12-12	743A / 748A	Lindsay	2.3	0.24	0.33	3.92	0.08		.6	4	0	FC28
963	12-12		U.S.G.S.				3.93	0.16		.6	12	0	
964	12-17		U.S.G.S.				4.43	10.4		.6	11	0	
965	12-19	338P / 347P	Lindsay	6.7	1.13	1.06	3.99	1.2		.6	7	0	FC28
966	12-23		U.S.G.S.				5.0	37.4		.6	18	+.04	
967	12-23		U.S.G.S.				4.43	11.3		.6	10	0	
968	12-24		U.S.G.S.				4.85	30.0		.6	9		
969	12-27	743A / 753A	Lindsay	8.5	1.85	1.14	3.94	2.1		.6	9	0	FC28
970	1-2		U.S.G.S.				3.90	1.6		.6	11	0	
971	1-2	329P / 336P	Lindsay	7.2	1.47	1.01	3.89	1.5		.6	7	0	FC28
972	1-8	347P / 355P	Lindsay	4.2	0.52	1.01	3.79	0.53		.6	6	0	FC28
973	1-11		U.S.G.S.				3.83	1.1		.6	9	0	
974	1-16		U.S.G.S.				3.81	0.81		.6	8	0	
975	1-23	343P / 350P	Lindsay	4.7	0.77	1.09	3.83	0.84		.6	6	0	FC28
976	1-24		U.S.G.S.				4.44	15.2		.6	9	0	
977	1-24		U.S.G.S.				4.44	14.1		.6	13	-.01	
978	1-25		U.S.G.S.				4.15	6.2		.6	9	-.02	
979	1-30	416P / 425P	Lindsay	6.8	1.80	1.11	3.97	2.0		.6	7	0	
980	2-7	853A / 900A	Lindsay	6.2	1.78	1.07	3.97	1.9		.6	6	0	
981	2-12		U.S.G.S.				4.20	8.1		.6	16	0	
982	2-13	120P / 130P	Lindsay	9.0	2.58	1.98	4.12	5.1		.6	8	0	FC28
983	2-16		U.S.G.S.				4.62	17.4		.6	12	0	
984	2-17		U.S.G.S.				4.78	25.6		.6	14	0	
985	2-19		U.S.G.S.				4.67	19.8		.6	15	0	
986	2-20		U.S.G.S.	19.0	20.8	8.70	5.75	181.		.6	8	+.06	
987	2-20		U.S.G.S.	24.0	27.6	10.0	6.00	277.		.6	9	-.11	
988	2-20		U.S.G.S.	24.0	26.9	7.51	5.56	202.		.6	10	-.16	
989	2-21		U.S.G.S.				4.96	86.		.6	9	0	
990	2-22		U.S.G.S.				4.80	68.		.6	19	0	
991	2-23		U.S.G.S.				4.67	52.		.6	20	0	
992	2-24		U.S.G.S.				4.57	37.5		.6	13	0	
993	2-27	752A / 804A	Lindsay	9.7	7.16	2.51	4.44	18.5		.6	10	-	FC28
994	2-27		U.S.G.S.				4.43	17.5		.6	14	0	
995	3-1		U.S.G.S.				4.68	58.		.6	13	0	
996	3-3		U.S.G.S.				4.62	53.		.6	18	0	
997	3-4		U.S.G.S.	22.0	23.2	4.57	4.98	95.		.6	17	-.05	
998	3-5		U.S.G.S.	28.0	27.1	7.01	5.52	190.		.6	11	-.04	
999	3-6		U.S.G.S.				5.02	126.		.6	25	-.02	
1000	3-7		U.S.G.S.				4.42	60.		.6	18	0	
1001	3-8		U.S.G.S.				4.30	50		.6	16	0	
1002	3-10		U.S.G.S.				4.16	34.2		.6	16	-.02	
1003	3-12		U.S.G.S.				4.31	60.		.6	17	0	
1004	3-13		U.S.G.S.				4.33	64.		.6	18	0	
1005	3-14		U.S.G.S.				4.34	64.		.6	17	0	
1006	3-15		U.S.G.S.				4.30	52.		.6	17	0	
1007	3-18	1145A / 1156A	Lindsay	13.7	12.8	2.81	4.20	36.4		.6	7	0	FC28
1008	3-19		U.S.G.S.				4.16	35.4		.6	16	0	
1009	3-19		U.S.G.S.				4.16	35.7		.6	16	0	
1010	3-21	1007A / 1020A	Lindsay-Ingram	13.0	10.8	2.41	4.10	26.4		.6	12	0	FC28
1011	3-24	940A / 948A	Lindsay-Ingram	12.5	9.19	2.07	4.00	18.7		.6	11	0	FC28
1012	3-25		U.S.G.S.				3.97	21.6		.6	15	0	
1013	3-26		U.S.G.S.				3.94	19.0		.6	13	0	
1014	3-28	857A / 903A	Lindsay-Ingram	12.5	8.85	1.81	3.91	16.4		.6	8	0	FC18
1015	3-29		U.S.G.S.				4.06	27.		.6	15	0	
1016	3-31		U.S.G.S.				4.05	25.9		.6	15	0	
1017	4-1	920A / 933A	Lindsay	13.5	11.4	2.54	4.10	29.0		.6	12	0	FC28
1018	4-2	926A / 933A	Lindsay-Ingram	13.0	10.9	2.57	4.11	28.1		.6	7	0	FC28
1019	4-3		U.S.G.S.				4.07	27.1		.6	15	0	
1020	4-4		U.S.G.S.				4.06	27.2		.6	15	0	
1021	4-6	1030A / 1043A	Lindsay	14.5	14.4	2.99	4.26	42.7		.6	8	0	FC28
1022	4-7		U.S.G.S.				4.21	40.7		.6	16	0	
1023	4-8		U.S.G.S.				4.18	34.7		.6	17	0	
1024	4-9	946A / 952A	Lindsay-Ingram	16.5	11.5	2.87	4.17	32.7		.6	9	0	FC28
1025	4-15	835A / 850A	Lindsay	22.5	12.9	2.48	4.15	31.6		.6	12	0	FC28

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U6R

DISCHARGE MEASUREMENTS OF ROGERS CREEK

AT OR NEAR Azusa DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
1026	4-17	856A / 910A	Lindsay-Ingram	21.0	12.3	2.60	4.12	31.8		.6	11	0	FC28
1027	4-20		U.S.G.S.				4.07	28.7		.6	15	0	
1028	4-23		U.S.G.S.				4.00	20.8		.6	17	0	
1029	4-24	850A / 900A	Lindsay-Ingram	19.5	9.51	2.21	3.98	21.2		.6	10	0	FC28
1030	5-1	818A / 825A	Lindsay-Ingram	17.0	8.80	2.16	3.95	19.0		.6	9	0	FC28
1031	5-1		U.S.G.S.				3.95	18.0		.6	14	0	
1032	5-3		U.S.G.S.				3.90	17.6		.6	14	0	
1033	5-9	900A / 906A	Lindsay-Ingram	16.8	7.32	1.64	3.81	11.7		.6	9	0	FC28
1034	5-13		U.S.G.S.				3.76	9.2		.6	14	0	
1035	5-15	855A / 903A	Lindsay-Ingram	12.0	6.32	1.33	3.76	8.4		.6	9	0	FC28
1036	5-22	917A / 925A	Lindsay	12.0	5.62	1.19	3.73	6.7		.6	7	0	FC28
1037	5-27		U.S.G.S.				3.70	6.3		.6	15	0	
1038	5-28	840A / 847A	Lindsay	10.0	5.50	0.95	3.73	5.2		.6	7	0	FC28
1039	6-3		U.S.G.S.				3.67	4.8		.6	13	0	
1040	6-5	845A / 855A	Lindsay	10.2	5.69	0.86	3.69	4.9		.6	7	0	FC28
1041	6-10		U.S.G.S.				3.63	4.1		.6	10	0	
1042	6-12	932A / 941A	Lindsay	9.5	4.55	0.81	3.61	3.7		.6	6	0	FC28
1043	6-17		U.S.G.S.				3.59	3.3		.6	10	0	
1044	6-19	912A / 921A	Lindsay	10.0	4.94	0.69	3.59	3.4		.6	8	0	FC28
1045	6-26	939A / 947A	Lindsay	10.0	4.31	0.66	3.57	2.9		.6	8	0	FC28
1046	6-30		U.S.G.S.				3.55	2.5		.6	9	0	
1047	7-3	921A / 932A	Lindsay	8.3	3.48	0.58	3.54	2.0		.6	8	0	FC28
1048	7-10	227P / 235P	Lindsay	7.8	2.92	0.48	3.49	1.4		.6	8	0	FC28
1049	7-14		U.S.G.S.				3.48	1.1		.6	10	0	
1050	7-17	913A / 922A	Haig-Lindsay	9.0	3.40	0.47	3.47	1.6		.6	7	0	FC28
1051	7-24	915A / 924A	Haig	8.0	3.28	0.36	3.47	1.2		.6	7	0	FC33
1052	7-29		U.S.G.S.				3.47	1.2		.6	10	0	
1053	7-30	240P / 252P	Haig-Haig	7.5	2.76	0.28	3.45	0.78		.6	6	0	FC33
1054	8-7	930A / 940A	Lindsay	7.7	2.51	0.32	3.44	0.78		.6	7	0	FC28
1055	8-22		U.S.G.S.				3.47	0.20		.6	6	0	
1056	8-28	135P / 140P	Lindsay	2.6	0.60	0.82	3.52	0.49		.6	5	0	FC28
1057	9-5		U.S.G.S.				3.49	0.31		.6	7	0	
1058	9-18	915A / 922A	Haig	3.5	0.94	0.08	3.48	0.07		.6	5	0	FC28
1059	9-19		U.S.G.S.				3.49	0.21		.6	7	0	

F.C. Dist. Form 51 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 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	a 0.1	2.1	1.7	61	32	19	5	2.4	0.7	0.2
2	0	0	a 0.1	1.7	1.5	64	31	17	5	2.2	0.8	0.2
3	0	0	a 0.1	1.3	1.3	58	27	17	5	1.7	0.7	0.2
4	0	0	a 0.1	1.2	1.2	188	46	17	5.5	1.7	0.6	0.2
5	0	0	a 0.1	1.0	1.1	186	57	15	5	1.5	0.6	0.3
6	0	0	a 0.1	0.8	3.2	124	43	14	5	1.5	0.6	0.2
7	0	0	a 0.1	0.7	2.0	67	41	13	5	1.5	0.8	0.2
8	0	0	a 0.1	0.6	1.7	a 50	35	12	5	1.5	1.0	0.2
9	0	0	a 0.1	0.6	1.6	a 40	35	11	4.4	1.5	0.8	0.2
10	0	0	a 0.1	1.2	1.6	34	36	10	4.4	1.2	0.9	0.2
11	0	0	a 0.1	1.2	14	31	52	10	3.7	1.2	0.9	0.2
12	0	0	0.2	1.0	9.5	56	41	9.5	3.2	1.1	0.7	0.1
13	0	0	0.1	0.9	5.5	67	36	9	3.2	1.0	0.5	0.1
14	0	0	0.1	1.0	7	67	35	8.5	3.2	1.0	0.5	0.2
15	0	0	0.1	0.8	20	52	32	8	3.4	1.1	0.6	0.2
16	0	0	3.5	0.8	22	46	32	8	3.2	1.2	0.6	0.2
17	0	0.2	14	0.7	26	42	31	7	3.2	1.4	0.4	0.2
18	0	1.6	2.4	0.6	18	37	29	6.5	3.2	1.4	0.3	0.2
19	0	0.5	1.3	0.6	36	35	28	6.5	3.4	1.4	0.2	0.2
20	0	0.3	0.8	0.6	168	30	26	6.5	3.4	1.2	0.2	0.2
21	0	0.3	0.5	0.6	103	26	25	6.5	3.4	1.2	a 0.2	0.2
22	0	0.2	0.4	1.5	72	25	23	6	3.2	1.1	0.1	0.1
23	0	0.2	11	1.0	53	24	22	5.5	3.2	1.1	0.2	0.1
24	0	0.2	25	13	40	23	21	5.5	3.2	1.1	0.2	0.1
25	0.1	0.1	6.5	6	30	21	20	5.5	3.0	1.2	0.3	0.1
26	0.2	0.1	3.0	5	23	19	19	5	3.0	1.7	0.4	0.1
27	0.2	0.1	2.0	4.0	18	17	19	5.5	3.0	1.4	0.4	0.1
28	0.1	0.1	1.6	3.3	36	19	17	5.5	3.0	1.2	0.4	0.1
29	0.1	0.1	2.5	2.7		28	17	5.5	3.0	1.0	0.4	0.1
30	0	a 0.1	2.4	2.1		19	25	5.5	2.8	0.9	0.3	0.1
31	0		3.0	2.0		24		5		0.9	0.3	
	0.7	4.1	81.5	60.6	717.9	1580	933	285.5	113.2	41.5	15.6	5.0
MEAN	0.02	0.14	2.63	1.95	25.6	51.0	31.1	9.21	3.77	1.34	0.50	0.17
ACRE-FEET	1.4	8.1	162.	120.	1420.	3130.	1850.	566.	225.	82.	31.	9.9

Remarks:

YEAR OR PERIOD MEAN 10.5 ACRE-FEET 7610.

STATION U15R

SANTA ANA RIVER BASIN San Antonio Creek near Claremont

LOCATION:

Water-stage recorder and broad-crested weir control, lat. 34°12'50", long. 117°40'00", in NW¼ SE¼ sec. 36, T. 2 N., R. 8W., at highway bridge, half a mile upstream from Southern California Edison Co.'s Sierra power plant, and 8 miles northeast of Claremont. Altitude of gage, about 3,400 feet.

DRAINAGE AREA:

16.9 square miles.

RECORDS AVAILABLE:

March 1901 to September 1941.

AVERAGE DISCHARGE:

24 years (1917-41), 11.2 second-feet. Average combined discharge of creek and conduit, 24 years (1917-41), 23.8 second-feet.

EXTREMES:

Maximum discharge during year, 205 second-feet Mar. 12 (gage height, 2.93 feet): minimum, 1.4 second-feet Oct. 19,20.

1917-1941:
Maximum discharge, 17,800 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 Co.'s conduit diverts water above station. The combined flow can be obtained by adding published records on San Antonio Creek and Southern California Edison Co.'s conduit.

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

NEAR Claremont DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
814	10-7		U.S.G.S.				0.98	1.6		.6	8	0	
815	10-22		U.S.G.S.				0.98	1.7		.6	8	0	
816	11-5		U.S.G.S.				1.00	1.7		.6	8	0	
817	11-19		U.S.G.S.				1.03	2.4		.6	7	0	
818	12-3		U.S.G.S.				0.99	2.2		.6	7	0	
819	12-17		U.S.G.S.				1.47	9.3		.6	13	-.02	
820	12-23		U.S.G.S.				1.30	5.7		.6	14	0	
821	12-24		U.S.G.S.				1.72	13.6		.6	17	+.02	
822	12-27		U.S.G.S.				1.21	4.3		.6	11	0	
823	1-6		U.S.G.S.				1.14	3.3		.6	10	0	
824	1-20		U.S.G.S.				1.10	2.9		.6	8	0	
825	1-24		U.S.G.S.				1.52	8.2		.6	21	-.03	
826	2-12		U.S.G.S.				1.38	6.2		.6	17	0	
827	2-16		U.S.G.S.				1.65	11.3		.6	22	0	
828	2-17		U.S.G.S.				1.74	18.1		.6	16	0	
829	2-20		U.S.G.S.				2.40	76.		.6	14	0	
830	2-26		U.S.G.S.				2.38	93.		.6	20	0	
831	3-3		U.S.G.S.				2.45	106.	.2	.6 .8	21	0	
832	3-7		U.S.G.S.				2.40	97.		.6	22	-.05	
833	3-13		U.S.G.S.	20.0	28.3	5.30	2.71	150.		.6	14	0	
834	3-16		U.S.G.S.				2.62	132.	.2	.6 .8	22	0	
835	3-24		U.S.G.S.				2.48	96.	.2	.6 .8	22		
836	3-29		U.S.G.S.				2.48	92.		.6	22	0	
837	4-7		U.S.G.S.				2.49	103.	.2	.6 .8	21	-.02	
838	4-12		U.S.G.S.				2.48	109.	.2	.6 .8	22	0	
839	4-19		U.S.G.S.				2.44	97.	.2	.6 .8	18	0	
840	4-30		U.S.G.S.				2.42	95.		.6	22	-.01	
841	5-8		U.S.G.S.				2.61	130.		.6	23	0	
842	5-14		U.S.G.S.				2.54	112.	.2	.6 .8	22		
843	5-20		U.S.G.S.				2.39	98.		.6	22	0	
844	5-28		U.S.G.S.				2.37	86.		.6	22	0	
845	6-4		U.S.G.S.				2.30	75.		.6	20	+.03	
846	6-16		U.S.G.S.				2.26	59.		.6	20	0	
847	6-23		U.S.G.S.				2.06	47.8		.6	19	0	
848	7-2		U.S.G.S.				1.88	33.6		.6	17	0	
849	7-8		U.S.G.S.				1.81	27.6		.6	21	0	
850	7-17		U.S.G.S.				1.78	21.9		.6	20	0	
851	7-28		U.S.G.S.				1.68	16.9		.6	21	0	
852	8-7		U.S.G.S.				1.37	10.0		.6	18	0	
853	8-19		U.S.G.S.				1.33	6.7		.6	15	0	
854	8-27		U.S.G.S.				1.26	5.0		.6	12	0	

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No U15R

Daily discharge, in second-feet of SAN ANTONIO CREEK near Claremont for the year ending September 30, 1941

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.7	1.7	2.3	3.7	4.8	98	100	89	75	35	15	3.8
2	1.7	1.7	2.2	3.6	4.7	98	95	88	75	34	14	3.7
3	1.8	1.7	2.2	3.4	4.5	103	93	86	75	33	14	3.7
4	1.8	1.7	2.3	3.4	4.4	127	98	86	80	32	13	3.4
5	1.7	1.7	2.3	3.3	4.4	121	105	91	75	31	13	3.3
6	1.7	1.7	2.3	3.3	6.6	105	102	105	74	29	12	3.3
7	1.7	1.7	2.3	3.2	5.5	102	103	121	74	28	12	3.3
8	1.8	1.7	2.3	3.1	5.5	102	107	127	72	27	11	3.2
9	1.8	1.7	2.4	3.1	5	103	112	129	68	27	9.5	3.2
10	1.8	1.7	2.4	4.1	4.6	102	107	120	68	27	10	3.2
11	1.7	1.7	2.5	3.6	9.5	96	110	127	68	26	9.5	3.2
12	1.6	1.7	2.6	3.4	6	114	105	120	64	26	9	3.1
13	1.6	1.7	2.4	3.4	6	146	100	112	64	26	8	3.2
14	1.6	1.7	2.4	3.4	8.5	144	98	108	63	24	8	3.2
15	1.7	1.7	2.4	3.3	11	140	100	110	62	23	7.5	3.2
16	1.8	1.7	4.1	3.3	12	135	102	116	58	22	7.5	3.2
17	1.8	2.2	7.5	3.3	18	131	103	120	55	22	7	3.2
18	1.7	3.1	5.5	3.2	19	120	102	114	53	22	6.5	3.1
19	1.6	2.6	4.3	3.1	29	118	96	112	49	21	7	3.1
20	1.6	2.4	3.3	2.9	75	110	86	102	49	20	6	3.1
21	1.6	2.3	2.9	3.1	91	96	88	94	49	20	6	3.1
22	1.6	2.2	2.7	3.4	100	102	84	88	48	19	5.5	3.1
23	1.6	2.2	5.5	3.2	98	102	80	93	49	19	5.5	3.1
24	1.6	2.2	11	5.5	105	96	80	88	48	18	5.5	3.1
25	2.5	2.2	8	5.5	98	95	80	88	47	18	5.5	3.1
26	2.3	2.2	5.5	6	95	88	80	82	46	18	5	3.1
27	2.1	2.2	4.1	5.5	89	84	84	84	44	17	4.8	3.1
28	1.9	2.2	3.7	5.5	89	84	84	86	41	17	4.5	3.1
29	1.8	2.2	4.0	5.5		93	86	88	39	16	4.3	3.1
30	1.8	2.3	3.8	5.5		89	96	88	37	16	12	2.9
31	1.7		3.8	5		89		80		15	4.3	
	54.7	59.7	115.0	120.8	1009.1	3333	2866	3142	1769	728	262.4	96.5
MEAN	1.76	1.99	3.71	3.90	36.0	108.	95.5	101.	59.0	23.5	8.46	3.22
ACRE-FEET	108.	118.	228.	240.	2000.	6610.	5680.	6230.	3510.	1440.	520.	191.

Remarks:

YEAR OR PERIOD MEAN 37.1 ACRE FEET 26880.

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No _____

SAN ANTONIO
Daily discharge, in second-feet of SOUTHERN CALIFORNIA EDISON CO. CANAL near Claremont for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.5	8.5	7.5	17	15	21	20	19	21	21	21	20
2	8.5	8	7.5	17	15	21	20	19	21	21	21	20
3	8.5	8	7.5	17	16	21	20	19	21	21	21	20
4	8.5	8	7.5	17	16	21	20	19	22	21	21	20
5	8.5	8	7.5	17	16	21	20	19	21	21	21	20
6	8.5	8	7.5	17	17	21	20	19	21	21	21	20
7	8.5	8	7.5	17	17	22	20	19	21	21	21	20
8	8.5	8	7.5	17	16	22	20	19	21	21	21	19
9	8.5	8	7.5	16	16	13	20	19	21	21	21	19
10	8.5	8	7	17	16	11	20	18	21	21	21	19
11	8.5	8	7	16	16	11	21	18	22	21	21	19
12	8.5	8	7	16	18	11	21	18	22	21	21	18
13	8.5	8	7	15	18	11	20	19	22	21	21	18
14	8.5	8	7	15	20	16	20	22	21	21	21	18
15	8.5	8	7	15	19	21	20	22	21	21	21	18
16	8.5	8	8.5	15	19	21	20	22	21	21	21	18
17	8.5	8.5	9	14	20	21	20	22	21	21	21	18
18	8.5	8	9	14	20	21	20	22	21	21	21	18
19	8	8	9	13	20	21	20	22	21	21	21	18
20	8	8	9	13	18	21	20	22	21	21	21	18
21	8	8	9	13	0	21	20	19	21	21	21	18
22	8	8	8.5	13	0	21	20	22	21	21	20	18
23	8	8	10	13	10	21	20	19	21	21	20	17
24	8	8	13	15	20	21	20	22	21	21	20	17
25	10	8	14	15	20	21	20	22	21	21	20	17
26	9	8	14	18	21	21	20	22	21	21	20	17
27	8.5	8	13	15	21	21	20	21	21	21	20	16
28	8.5	8	13	15	21	21	20	22	21	21	20	16
29	8.5	7.5	15	15		21	20	22	21	21	20	16
30	8.5	7.5	15	15		21	20	22	21	21	13	16
31	8.5		16	15		21		22		21	20	
	262.5	240.0	294.5	477	461	600	602	633	634	651	634	546
MEAN	8.47	8.00	9.50	15.4	16.5	19.4	20.1	20.4	21.1	21.0	20.5	18.2
ACRE-FEET	521.	476.	584.	946.	914.	1190.	1190.	1260.	1280.	1290.	1260.	1080.

Remarks:

YEAR OR PERIOD MEAN 16.5
ACRE-FEET 11970.

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 SW¼ NE¼ sec. 25, T. 1N., R. 9W., at mouth of San Dimas canyon, 0.7 mile downstream from flood-control reservoir and 3 miles northeast of San Dimas. Altitude of gage, about 1,245 feet.

DRAINAGE AREA:

18.3 square miles.

RECORDS AVAILABLE:

April to September 1916 (discharge measurements only), December 1916 to September 1941.

AVERAGE DISCHARGE:

24 years (1917-1941), 4.69 second-feet.

EXTREMES:

Maximum discharge during year, 163 second-feet March 3 (gage height, 2.18 feet); minimum daily, 0.1 second-foot Nov. 1 to Dec. 30.

1916-41:
Maximum discharge, about 4,250 second-feet Mar. 2, 1938, from records of release at flood-control reservoir; no flow for several months during most years.

REMARKS:

Records good. Flow regulated by flood-control dam above station. San Dimas Water Co. diverts water just below gage for irrigation.

COOPERATION:

Results of 70 discharge measurements furnished by Los Angeles County Flood Control District, through H.E. Hedger, chief engineer.

h Computed from staff gage reading.

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 OR NEAR San Dimas DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
1234	10-2		U.S.G.S.				0.32	1.7		.6	10	0	
1235	10-2	1108A / 1116A	Brewster	5.5	1.95	0.85	0.32	1.6		.6	6	0	FC24
1236	10-9	100P / 107P	Brewster	5.5	1.96	0.82	0.31	1.6		.6	6	0	FC24
1237	10-16	1125A / 1135A	Brewster	5.5	1.91	0.85	0.31	1.6		.6	6	0	FC24
1238	10-22		U.S.G.S.				0.21	0.65		.6	6	0	
1239	10-23	1130A / 1140A	Brewster	3.5	0.89	0.75	0.21	0.65		.6	5	0	FC24
1240	10-30	1102A / 1106A	Brewster	1.0	0.24	0.62	0.11	0.15		.6	2	0	FC24
1241	11-5		U.S.G.S.				0.10	0.12		.6	2	-.01	
1242	11-6	1120A / 1124A	Brewster	0.5	0.12	0.67	0.08	0.08		.6	1	0	FC24
1243	11-13	1130A / 1133A	Brewster	0.5	0.11	0.73	0.07	0.08		.6	1	0	FC24
1244	11-15		U.S.G.S.				0.02	0.04		.6	7	0	
1245	11-20	410P / 413P	Brewster	0.5	0.12	0.92	0.04	0.11		.6	1	0	FC24
1246	11-27		U.S.G.S.				0.05	0.08		.6	7	0	
1247	11-27	422P / 425P	Brewster	0.5	0.12	0.92	0.05	0.11		.6	1	0	FC24
1248	12-4	1100A / 1103A	Brewster	0.5	0.15	0.73	0.08	0.11		.6	1	0	FC24
1249	12-11	1035A / 1045A	Brewster	5.0	1.50	0.70	0.22	1.0		.6	5	0	FC24
1250	12-13	412P / 419P	Green	4.6	1.45	0.82	0.21	1.2		.6	5	0	FC19
1251	12-16		U.S.G.S.				0.12	0.36		.6	8	0	
1252	12-18	126P / 130P	Brewster	1.0	0.24	0.92	0.09	0.22		.6	2	0	FC24

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U10R

DISCHARGE MEASUREMENTS OF SAN DIMAS CREEK

AT OR NEAR San Dimas DURING THE YEAR ENDING SEPTEMBER 30, 19 41

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.
1253	12-23		U.S.G.S.				0.28	1.5		.6	8	0	
1254	12-26	408P / 418P	Brewster	4.0	0.98	0.44	0.12	0.43		.6	4	0	FC24
1255	12-31	1225P / 1235P	Brewster	4.5	1.24	0.53	0.17	0.65		.6	5	0	FC24
1256	1-2		U.S.G.S.				0.13	0.36		.6	10	0	
1257	1-3	140P / 150P	Green	6.2	3.37	1.02	0.51	3.4		.6	8	0	FC19
1258	1-8	1227P / 1238P	Brewster	6.0	3.18	1.03	0.49	3.3		.6	6	0	FC24
1259	1-15	1120A / 1130A	Brewster	6.0	3.28	1.04	0.51	3.4		.6	6	0	FC24
1260	1-16		U.S.G.S.				0.52	3.4		.6	11	0	
1261	1-17	135P / 143P	Green	5.6	3.09	1.00	0.53	3.1		.6	7	0	FC19
1262	1-22	118P / 127P	Brewster	6.0	3.24	1.04	0.55	3.4		.6	6	0	FC24
1263	1-24	245P / 258P	Green	7.0	5.30	1.28	0.85	6.8		.6	7	0	FC19
1264	1-24	456P / 507P	Green	6.2	5.19	1.41	0.86	7.3		.6	8	0	FC19
1265	1-26	940A / 952A	van der Goot	7.9	7.00	1.27	0.88	8.9		.6	7	0	FC13
1266	1-27		U.S.G.S.				0.83	7.5		.6	14	0	
1267	1-29	1138A / 1150A	Brewster	7.5	5.66	1.32	0.80	7.5		.6	8	0	FC24
1268	1-31	333P / 342P	Green	6.7	4.80	1.31	0.73	6.3		.6	8	0	FC19
1269	1-31	517P / 527P	Green	6.7	4.05	1.21	0.60	4.9		.6	8	-.01	FC19
1270	2-5	111P / 119P	Brewster	4.0	1.02	0.41	0.15	0.42		.6	4	0	FC24
1271	2-12	1145A / 1153A	Brewster	4.5	1.29	0.58	0.22	0.75		.6	5	0	FC24
1272	2-12		U.S.G.S.				0.22	0.56		.6	8	0	
1273	2-14	530P / 543P	van der Goot --Oliver	10.0	10.4	1.60	1.06	16.7		.6	6	+.01	FC13
1274	2-15	210P / 220P	van der Goot	9.7	9.95	1.92	1.10	19.2		.6	10	+.01	FC13
1275	2-16		U.S.G.S.				1.05	14.9		.7	9	0	
1276	2-18	305P / 322P	Brewster	10.0	15.3	2.19	1.30	33.5		.6	10	0	FC24
1277	2-19	1125A / 1140A	Brewster	10.0	16.0	2.03	1.30	32.7		.6	10	0	FC24
1278	2-20		U.S.G.S.				1.79	73.		.6	12	+.02	
1279	2-21		U.S.G.S.				2.19	139.		.6	23	0	
1280	2-22	1235P / 1250P	van der Goot	17.0	17.9	2.37	1.44	42.6		.6	9	0	FC13
1281	2-23		U.S.G.S.				1.41	36.1		.6	18	0	
1282	2-24		U.S.G.S.				1.41	39.5		.6	21	0	
1283	2-26	230P / 250P	Brewster	23.0	17.6	1.96	1.37	34.6		.6	12	0	FC24
1284	2-26	252P / 308P	Brewster	10.0	12.5	2.78	1.37	34.8		.6	10	0	FC24
1285	3-3		U.S.G.S.	57.0	59.8	2.81	2.15	168.		.2 .6	2 22	-.03 +.02	
1286	3-3	1145A / 1210P	Brewster	54.0	55.9	2.77	2.14	155.		.6	14	+.01	FC24
1287	3-4	755A / 815A	Brewster-Smith	28.0	27.0	3.39	1.86	91.7		.6	14	0	FC24
1288	3-5		U.S.G.S.	56.5	57.0	2.95	2.15	167.		.6	23	0	
1289	3-5	215P / 245P	Brewster-Smith	34.0	36.6	4.16	2.15	152.		.6	18	0	FC24
1290	3-6		U.S.G.S.				2.15	143.		.6	20	0	
1291	3-13		U.S.G.S.				1.98	105.		.6	18	-.01	
1292	3-14	1125A / 1145A	Brewster-Smith	26.0	26.1	3.19	1.82	83.3		.6	13	0	FC24
1293	3-15		U.S.G.S.				1.47	44.4		.6	19	0	
1294	3-19		U.S.G.S.				1.57	63.	.2 .6	.8 20	0		
1295	3-19	220P / 240P	Brewster	21.0	21.6	2.63	1.58	57.		.6	11	0	FC24
1296	3-22	745A / 800A	Green	16.0	18.6	1.62	1.33	30.1		.6	9	0	FC19
1297	3-26		U.S.G.S.				1.29	31.9		.6	17	0	
1298	3-26	315P / 330P	Brewster	16.0	19.3	1.57	1.28	30.2		.6	9	0	
1299	3-28	1125A / 1137A	Green	14.0	18.1	1.59	1.27	28.7		.6	9	0	FC19
1300	4-1		U.S.G.S.				1.47	48.6		.6	19	0	
1301	4-2	130P / 150P	Brewster	17.0	21.6	2.05	1.47	44.3		.6	15	0	FC24
1302	4-9	125P / 145P	Brewster	15.0	18.6	1.47	1.24	27.3		.6	14	0	FC24
1303	4-11		U.S.G.S.				1.44	44.8		.6	18	0	
1304	4-16	240P / 310P	Brewster	15.0	22.1	2.26	1.48	50.0		.6	15	0	FC24
1305	4-23		U.S.G.S.				1.19	24.6		.6	15	0	
1306	4-23	135P / 200P	Brewster	15.0	16.9	1.43	1.19	24.0		.6	15	0	FC24
1307	4-30	105P / 120P	Brewster	10.0	4.40	0.80	0.45	3.5		.6	10	0	FC24
1308	5-5		U.S.G.S.				0.67	5.5		.6	12	-.10	
1309	5-7	450P / 505P	Brewster	6.0	2.08	0.72	0.28	1.5		.6	6	0	FC24
1310	5-13		U.S.G.S.				0.27	1.2		.6	11	0	
1311	5-14	1210P / 1222P	Brewster	6.0	1.96	0.67	0.28	1.3		.6	6	0	FC24
1312	5-21	1240P / 100P	Brewster	13.0	13.6	1.18	1.08	15.8		.6	13	0	FC24
1313	5-23	625P / 537P	Green	11.0	7.74	1.78	0.96	13.7		.6	12	0	FC19
1314	5-27		U.S.G.S.				1.02	12.1		.6	16	0	
1315	5-28	105P / 125P	Brewster	13.0	12.4	0.97	1.04	12.2		.6	13	0	FC24
1316	6-4	1245P / 107P	Brewster	12.0	7.08	1.34	0.91	9.5		.6	12	0	FC24
1317	6-10		U.S.G.S.				0.90	9.1		.6	11	0	
1318	6-11	110P / 130P	Brewster	11.0	7.10	1.20	0.90	8.5		.6	11	0	FC24
1319	6-17		U.S.G.S.				0.83	8.5		.6	12	0	
1320	6-18	1220P / 1240P	Brewster	11.0	7.10	1.25	0.89	8.9		.6	11	0	FC24
1321	6-25	1120A / 1135A	Brewster	11.0	7.13	1.09	0.81	7.8		.6	8	0	FC24
1322	6-30		U.S.G.S.				0.78	7.8		.6	11	0	
1323	7-2	1145P / 200P	Brewster	11.0	6.54	1.12	0.77	7.3		.6	11	0	FC24
1324	7-9	230P / 246P	Brewster	11.0	6.80	1.15	0.73	7.8		.6	11	0	FC24
1325	7-14		U.S.G.S.				0.75	7.3		.6	11	0	
1326	7-16	1215P / 1235P	Brewster	11.0	7.02	1.07	0.74	7.5		.6	11	0	FC24
1327	7-23	1220P / 1240P	Brewster	11.0	6.74	1.05	0.73	7.1		.6	11	0	FC24
1328	7-29		U.S.G.S.				0.72	7.2		.6	11	0	
1329	7-30	1135A / 1155A	Brewster	11.0	6.88	1.05	0.71	7.2		.6	11	0	FC24
1330	8-6	330P / 346P	Brewster	11.0	7.10	1.18	0.74	8.4		.6	8	0	FC24
1331	8-13	227P / 237P	Lindsay	10.5	5.58	1.15	0.74	6.4		.6	8	0	FC28
1332	8-15	415P / 423P	Green	10.8	5.65	1.02	0.61	5.7		.6	11	0	FC19
1333	8-20	936A / 947A	Lindsay	10.6	6.19	0.97	0.68	6.0		.6	8	0	FC28
1334	8-22		U.S.G.S.				0.68	6.5		.6	11	0	
1335	8-27	115P / 135P	Brewster	11.0	6.34	0.95	0.67	6.0		.6	11	0	FC24
1336	9-3	1156A / 1215P	Brewster	11.0	6.54	0.98	0.65	6.4		.6	11	0	FC24
1337	9-5		U.S.G.S.				0.68	6.8		.6	11	0	
1338	9-10	300P / 320P	Brewster	11.0	6.66	0.98	0.65	6.5		.6	11	0	FC24
1339	9-17	1205P / 1225P	Brewster	11.0	6.50	0.95	0.65	6.2		.6	11	0	FC24
1340	9-19		U.S.G.S.				0.68	7.1		.6	12	0	
1341	9-24	1020A / 1040A	Brewster	11.0	6.72	1.03	0.66	6.9		.6	11	0	FC24

P.C. Dist. Form H 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 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.7	0.1	0.1	0.4	4.8	80	47	2.4	13	8	12	6.5
2	1.7	0.1	0.1	1.4	4.6	49	46	20	11	7.5	8.5	6.5
3	1.7	0.1	0.1	3.4	4.5	113	45	40	9	7.5	8.5	6.5
4	1.7	0.1	0.2	3.3	2.1	118	44	40	9.5	7.5	8.5	6.5
5	1.7	0.1	0.2	3.3	0.5	137	29	21	9.5	7.5	8.5	6.5
6	1.7	0.1	0.2	3.3	0.7	133	27	2.0	9	7.5	8.5	6.5
7	1.7	0.1	0.2	3.3	0.5	72	27	1.7	9	7.5	8.5	6.5
8	1.7	0.1	0.2	3.3	0.5	34	27	1.5	9	8	8.5	6.5
9	1.7	0.1	0.4	3.3	0.5	32	28	1.3	10	8	8.5	6.5
10	1.6	0.1	1.0	3.4	0.5	31	37	1.3	10	8	8.5	6.5
11	1.6	0.1	h 1.0	3.3	1.5	31	46	1.3	9	8	8.5	6.5
12	1.6	0.1	h 1.0	3.3	0.7	44	45	1.2	9	7.5	8.5	6.5
13	1.6	0.1	1.2	3.3	0.5	123	46	1.2	9	7.5	8.5	6.5
14	1.6	0.1	1.1	3.3	5	92	46	1.3	9.5	7.5	6.5	6.5
15	1.6	0.1	1.1	3.4	17	45	50	8.5	9	7.5	6	6.5
16	1.6	0.1	0.8	3.3	16	47	50	16	8.5	7.5	6	6.5
17	1.6	0.1	0.8	3.1	17	50	50	16	8.5	7.5	6	6.5
18	1.1	0.1	0.4	3.3	25	54	50	16	8.5	7.5	6	6.5
19	0.9	0.1	0.2	3.3	35	59	50	16	8.5	7.5	6.5	7
20	0.7	0.1	0.2	3.3	88	58	49	16	8	7.5	6.5	7
21	0.6	0.1	0.2	3.3	142	44	49	17	8	7.5	6.5	7
22	0.6	0.1	0.2	3.4	70	31	34	15	8	7.5	6.5	7
23	0.6	0.1	1.2	3.3	38	31	24	14	8	7.5	6.5	7
24	0.9	0.1	4.1	6	39	31	24	14	8	7.5	6.5	7
25	1.3	0.1	1.0	8	38	31	25	13	8	7.5	6.5	7
26	1.2	0.1	0.5	8.5	37	31	25	13	8	7.5	6.5	7
27	0.9	0.1	0.4	7.5	35	31	25	12	8	7.5	6.5	7
28	0.8	0.1	0.4	7.5	31	31	11	13	8	7.5	6.5	8
29	0.4	0.1	0.5	7.5		43	2.3	13	8	7.5	6.5	7
30	0.2	0.1	7.5	7.5		46	2.9	13	8	7.5	6.5	7
31	0.2		0.8	6.5		46		13		12	6.5	
	38.5	3.0	27.3	130.3	654.9	1798	1061.2	374.7	266.5	239.5	229.0	202.0
MEAN	1.24	0.10	0.88	4.20	23.4	58.0	35.4	12.1	8.88	7.73	7.39	6.73
ACRE-FEET	76.	6.0	54.	258.	1300.	3570.	2100.	743.	529.	475.	454.	401.

Remarks:

YEAR OR PERIOD MEAN 13.8
ACRE-FEET 9970.

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 below Morris Dam and 3 miles northeast of Azusa. Altitude of gage, about 870 feet.

DRAINAGE AREA:

211 square miles.

RECORDS AVAILABLE:

1894 to September 1941.

AVERAGE DISCHARGE:

45 years (1896-1941), 116 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, 46 years (1895-1941), 164 second-feet.

EXTREMES:

Maximum discharge during year, 4,460 second-feet Mar. 4 (gage height, 7.27 feet); no flow Oct. 1 to Jan. 26.
1894-1941:
Maximum discharge, 65,700 second-feet Mar. 2, 1938, by computation of flow over spillway at Morris Dam; no flow for several months in each year 1894-1936, 1940, and 1941.

REMARKS:

Records good. Flow regulated by San Gabriel flood-control reservoirs 1 and 2 and by Morris Reservoir of Pasadena Water Department. Azusa Canal (formerly the power canal of Southern California Edison Co.) diverts above high-water line of Morris Reservoir at point about 3 miles above station.

COOPERATION:

Results of 44 discharge measurements furnished by Los Angeles County Flood Control District, through H. E. Hedger, chief engineer.

Combined run-off 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 city of Pasadena and Corps of Engineers, U.S. Army. These figures of run-off are equivalent to combined records of San Gabriel River and Southern California Edison Co.'s canal as published from 1894 to 1933.

Month	Acre-feet
October	1600
November	1880
December	9040
January	7840
February	54050
March	97060
April	66380
May	38310
June	17610
July	10700
August	11120
September	9800
Water year 1940-1941	325,390

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.

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, 19 41

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.
1417	1-30	342P / 355P	Lindsay	18.5	17.4	2.49	3.82	43.4		.6	9	0	FC28
1418	2-7	818A / 832A	Lindsay	18.5	17.6	2.44	3.82	43.2		.6	9	0	FC28
1419	2-13	1237P / 1250P / 505P	Lindsay	19.5	18.8	2.27	3.82	42.9		.6	10	0	FC28
1420	2-19		Lindsay	38.0	61.2	3.19	4.51	195.		.6	10		FC28
1421	2-20		U.S.G.S.				4.57	244.	.2	.6 .8	26	0	
1422	2-24		U.S.G.S.				3.41	15.5		.6	22	0	
1423	2-25		U.S.G.S.	139.0	207.	2.71	5.05	562.		.2 .8	24	+.01	
1424	3-4		U.S.G.S.	163.0	711.	5.51	7.08	3920.		.6	18	+.03	
1425	3-4		U.S.G.S.	258.0	613.	6.85	7.12	4190.	.2	.6 .8	27	-	
1426	3-6		U.S.G.S.	164.0	554.	5.37	6.96	2980.	.2	.6 .8	19	0	
1427	3-7	415P / 520P	Lindsay	162.0	557.	5.57	6.97	3100.		.6	18		FC28
1428	3-10		U.S.G.S.	154.0	317.	3.14	5.58	996.	.2	.6 .8	18	0	
1429	3-13		U.S.G.S.	165.0	566.	6.25	6.88	3540.	.2	.6 .8	18	0	
1430	3-15		U.S.G.S.	164.0	550.	5.14	6.85	2830.	.2	.6 .8	19	0	
1431	3-19	750A / 820A	Lindsay-Ingram	55.0	206.	3.93	5.44	809.		.6	12		FC28
1432	3-19		U.S.G.S.	154.0	303.	3.01	5.44	912.	.2	.6 .8	20	0	
1433	3-21	905A / 950A	Lindsay-Ingram	55.0	213.	3.51	5.44	747.		.6	13		FC28
1434	3-24	840A / 930A	Lindsay-Ingram	54.0	199.	3.17	5.32	630.	.2	.6	13		FC18
1435	3-24	1018A / 1047A	Lindsay-Ingram	54.0	203.	3.30	5.32	669.		.6	13		FC28
1436	3-25		U.S.G.S.	152.0	252.	2.90	5.32	734.		.6	30	0	
1437	3-28	822A / 850A	Lindsay-Ingram	Two channels			5.21	581.	& EST	.6	12		FC28
1438	3-31	510P / 531P	Lindsay--Keim	52.0	182.	2.70	5.06	492.		.6	12		FC28
1439	4-1		U.S.G.S.	145.0	227.	2.56	5.06	580.	.2	.6 .8	29	0	
1440	4-2	850A / 915A	Lindsay-Ingram	53.0	183.	2.69	5.06	491.		.6	12		FC28
1441	4-6	918A / 932A	Lindsay-Ingram	47.0	118.	1.22	4.33	144.		.6	10		FC28
1442	4-8		U.S.G.S.				5.05	513.	.2	.6 .8	28	0	
1443	4-9	915A / 940A	Lindsay-Ingram	53.0	181.	2.57	5.05	465.		.6	12		FC28
1444	4-17	830A / 850A	Lindsay-Ingram	Two channels			5.19	508.	& Est	.6	13		FC28
1445	4-19	810A / 830A	Lindsay-Ingram	Two channels			5.33	690.	& Est	.6	13		FC28
1446	4-23		U.S.G.S.				5.34	709.	.2	.6 .8	24	0	
1447	4-24	820A / 842A	Lindsay-Ingram	Two channels			5.35	708.		.6	12		FC18
1448	5-1	746A / 812A	Lindsay-Ingram	Two channels			5.44	809.	& Est	.6	13		FC28
1449	5-7		U.S.G.S.				5.28	663.	.2	.6 .8	25	0	
1450	5-9	830A / 853A	Lindsay-Ingram	54.0	196.	2.89	5.28	637.		.6	12		FC28
1451	5-14		U.S.G.S.				5.28	664.	.2	.6 .8	24	0	
1452	5-15	830A / 850A	Lindsay-Ingram	54.0	193.	2.96	5.28	643.		.6	12		FC28
1453	5-15	415P / 434P	Lindsay-Ingram	55.0	204.	3.18	5.28	721.		.6	12		FC28
1454	5-16	835A / 853A	Lindsay-Ingram	55.0	206.	3.30	5.42	753.		.6	12		FC28
1455	5-19		U.S.G.S.				4.30	151.		.6	20	-.02	
1456	5-19	425P / 440P	Lindsay	60.0	78.4	1.72	4.28	135.		.6	12		FC28
1457	5-22	822A / 837A	Lindsay	49.0	69.0	0.91	3.94	63.0		.6	12		FC28
1458	5-22	900A / 912A	Lindsay	19.0	10.1	1.36	3.94	65.7		.6	8		FC28
1459	5-26	820A / 840A	Lindsay	82.0	128.	2.00	4.61	256.		.6	14		FC28
1460	5-26	900A / 915A	Lindsay	48.0	126.	1.37	4.61	242.		.6	10		FC28
1461	5-28	700A / 810A	Lindsay	118.0	178.	2.09	4.85	372.		.6	15		FC28
1462	6-3		U.S.G.S.				4.86	396.	.2	.6 .8	25	0	
1463	6-5	735A / 810A	Lindsay	122.0	175.	2.19	4.86	384.		.6	17		FC28
1464	6-12	830A / 900A	Lindsay	124.0	177.	2.11	4.86	374.		.6	17		FC28
1465	5-17		U.S.G.S.				4.86	405.	.2	.6 .8	24	0	
1466	6-19	755A / 830A	Lindsay	123.0	180.	2.19	4.90	394.		.6	16		FC28
1467	6-26	835A / 905A	Lindsay	123.0	183.	2.14	4.88	390.		.6	16		FC28
1468	6-30		U.S.G.S.				4.87	380.	.2	.6 .8	24	0	
1469	7-3	825A / 900A	Lindsay	122.0	174.	2.31	4.88	402.		.6	14		FC28
1470	7-7	725A / 755A	Lindsay	120.0	158.	2.09	4.80	331.		.6	14		FC28
1471	7-14		U.S.G.S.				4.81	353.	.2	.6 .8	24	0	
1472	7-17	825A / 845A	Haig-Lindsay	120.0	168.	2.05	4.80	344.		.6	14		FC28
1473	7-24	945A / 1020A	Haig	118.0	172.	1.98	4.81	342.		.6	15		FC33
1474	7-29		U.S.G.S.				4.81	354.	.2	.6 .8	24	0	
1475	7-31	830A / 915A	Haig	122.0	171.	2.01	4.81	343.		.6	21		FC33
1476	8-7	825A / 855A	Lindsay	121.0	157.	2.01	4.76	316.		.6	15		FC28
1477	8-13	815A / 835A	Lindsay	42.0	43.7	0.92	3.83	40.4		.6	14		FC28
1478	8-18	800A / 830A	Lindsay	119.0	140.	1.80	4.62	251.		.6	14		FC28
1479	8-22		U.S.G.S.				4.76	308.	.2	.6 .8	25	0	
1480	8-24	810A / 835A	Lindsay	123.0	157.	1.90	4.76	297.		.6	15		FC28
1481	9-4	825A / 850A	Lindsay	123.0	147.	1.86	4.67	273.		.6	14		FC28
1482	9-5		U.S.G.S.				4.44	198.	.2	.6 .8	23	-.46	
1483	9-5		U.S.G.S.				3.97	73.		.6	21	0	
1484	9-18	838A / 850A	Haig	14.5	11.6	1.11	3.44	12.8		.6	9		FC28
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		FC33

P.C. Dist. Form 52 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 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	43	291	578	970	380	386	333	281
2	0	0	0	0	43	336	578	1260	386	386	333	274
3	0	0	0	0	43	364	578	1390	386	386	333	274
4	0	0	0	0	43	3490	387	1250	386	386	328	274
5	0	0	0	0	43	3870	39	666	386	386	328	140
6	0	0	0	0	43	3040	165	666	386	370	323	69
7	0	0	0	0	43	3060	410	666	386	344	318	97
8	0	0	0	0	43	2320	478	666	386	344	318	80
9	0	0	0	0	43	1720	512	666	386	344	318	118
10	0	0	0	0	43	1120	817	666	386	344	318	118
11	0	0	0	0	46	910	1060	658	386	349	215	67
12	0	0	0	0	44	920	1250	658	386	349	41	9.5
13	0	0	0	0	43	2140	1310	658	386	349	40	10
14	0	0	0	0	44	3090	1360	607	386	349	41	10
15	0	0	0	0	46	2500	1090	706	386	349	114	11
16	0	0	0	0	46	1930	42	790	380	344	252	11
17	0	0	0	0	46	1260	594	790	404	344	252	11
18	0	0	0	0	46	910	694	748	398	344	252	11
19	0	0	0	0	128	621	698	182	398	344	256	10
20	0	0	0	0	174	162	698	100	398	344	256	8.5
21	0	0	0	0	219	850	706	66	392	344	264	8.5
22	0	0	0	0	773	795	706	78	392	344	308	8
23	0	0	0	0	489	731	706	82	392	344	308	8
24	0	0	0	0	21	731	706	73	392	349	308	8
25	0	0	0	0	503	731	594	71	392	349	303	8
26	0	0	0	0	562	731	594	241	392	344	303	8
27	0	0	0	0.2	562	682	594	256	392	344	303	8
28	0	0	0	18	418	452	594	375	386	349	298	8
29	0	0	0	42		369	594	375	380	349	294	8.5
30	0	0	0	43		578	498	375	380	349	281	8
31	0		0	43		578		380		344	281	
	0	0	0	1462	4640	41282	19630	17135	11652	10950	8220	1965.0
MEAN	0	0	0	4.72	166.	1332.	654.	553.	388.	353.	265.	65.5
ACRE-FEET	0	0	0	290.	9200.	81880.	38940.	33990.	23110.	21720.	16300.	3900.

Remarks:

YEAR OR PERIOD MEAN 317.
ACRE-FEET 229300.

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 SW¼ NE¼ sec. 10, T. 1 N., R. 11W., at head of Hermits Falls, 4 miles northeast of Sierra Madre, Altitude of gage, about 1,400 feet.

DRAINAGE AREA:

10.5 square miles.

RECORDS AVAILABLE:

July 1916 to September 1941.

AVERAGE DISCHARGE:

25 years, 6.00 second-feet.

EXTREMES:

Maximum discharge during year, 465 second-feet Apr. 4 (gage height, 4.45 feet); minimum daily, 0.4 second-foot Oct. 1-7, 11-21.

1916-1941:
Maximum discharge, about 5,200 second-feet Mar. 2, 1938, based on inflow to flood-control reservoir; minimum, practically no flow Aug. 18 to Sept. 14, 1929.

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. U4R

DISCHARGE MEASUREMENTS OF SANTA ANITA CREEK

NEAR Sierra Madre DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
795	10-7		U.S.G.S.				0.37	0.50		.8	10	0	
796	10-25		U.S.G.S.				0.50	1.7		.6	7	0	
797	11-6		U.S.G.S.				0.39	0.74		.6	8	0	
798	11-19		U.S.G.S.				0.49	1.5		.6	9		
799	11-29		U.S.G.S.				0.43	1.2		.6	13	0	
800	12-12		U.S.G.S.				0.48	1.7		.6	11	0	
801	12-18		U.S.G.S.				0.67	4.4		.6	11	0	
802	12-27		U.S.G.S.				0.70	4.7		.6	13	0	
803	1-14		U.S.G.S.				0.60	2.9		.6	16	0	
804	1-28		U.S.G.S.				0.77	6.0		.6	16	0	
805	2-11		U.S.G.S.				1.73	38.2		.6	15	-.08	
806	2-15		U.S.G.S.				1.72	39.7		.6	22	+.05	
807	2-20		U.S.G.S.	28.5	37.5	5.68	3.37	213.	&	.2 .8	11	.10	
808	2-21		U.S.G.S.				3.20	235.	Float			-.02	
809	2-22		U.S.G.S.				2.81	154.	.2&	.6 .8	14	.04	
810	2-27		U.S.G.S.				1.63	40.0		.6	17	0	
811	3-1		U.S.G.S.				2.26	85.		.6	13	0	
812	3-5		U.S.G.S.		39.0		3.21	200.		.6	11	-.07	
813	3-14		U.S.G.S.				2.12	80.	.2&	.6 .8	23	0	
814	3-24		U.S.G.S.				1.60	33.8		.6	18	0	
815	4-2		U.S.G.S.				1.96	62.		.6	19	0	
816	4-14		U.S.G.S.				2.00	64.	.2&	.6 .8	20	0	
817	4-22		U.S.G.S.				1.68	43.		.6	20	0	
818	5-12		U.S.G.S.				1.32	25.0		.6	20	0	
819	5-27		U.S.G.S.				1.11	16.8		.6	21	0	
820	6-9		U.S.G.S.				1.01	13.3		.6	15	0	
821	6-23		U.S.G.S.				0.87	9.1		.6	14	0	
822	7-7		U.S.G.S.				0.80	7.2		.6	15	-.01	
823	7-28		U.S.G.S.				0.81	6.2		.6	17	0	
824	8-21		U.S.G.S.				0.68	4.1		.6	13	0	
825	9-3		U.S.G.S.				0.66	3.6		.6	15	0	
826	9-23		U.S.G.S.				0.59	2.6		.6	14	0	

F.C. Dist. Form 52 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, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	0.8	1.2	3.8	3.9	8.8	65	42	16	9	4.8	3.2
2	0.4	0.8	1.2	3.5	3.6	9.8	63	36	16	8.5	4.8	3.2
3	0.4	0.8	1.1	3.2	3.4	8.8	56	34	15	8	4.6	3.2
4	0.4	0.8	1.1	3.1	3.2	235	112	32	15	8	4.6	3.2
5	0.4	0.8	1.1	3.0	3.0	204	107	30	15	7.5	4.8	3.1
6	0.4	0.8	1.1	2.9	5	131	81	28	15	7.5	4.6	3.0
7	0.4	0.8	1.1	2.9	3.4	98	72	27	15	7.5	4.6	3.1
8	0.5	0.8	1.1	2.7	3.2	79	66	27	14	7.5	4.4	3.1
9	0.5	0.9	1.1	2.6	3.1	70	68	26	14	7	4.4	3.0
10	0.5	0.8	1.1	3.1	2.9	63	68	25	13	7	4.8	2.9
11	0.4	0.8	1.2	2.7	21	58	88	25	13	7	4.8	2.7
12	0.4	0.8	1.7	2.5	14	95	73	25	12	6.5	4.4	2.7
13	0.4	0.8	1.5	2.4	9	92	68	25	12	6.5	4.2	2.9
14	0.4	0.8	1.5	2.9	14	85	64	25	12	6.5	4.1	3.1
15	0.4	0.8	1.5	2.5	32	74	60	24	12	6	4.4	3.1
16	0.4	0.8	4.8	2.5	39	69	58	23	12	6	4.2	2.9
17	0.4	0.9	20	2.5	62	61	55	23	11	5.5	4.1	2.7
18	0.4	4.0	5.5	2.2	36	55	53	22	11	5.5	3.9	2.7
19	0.4	1.6	4.1	2.2	62	51	50	21	11	5.5	3.9	2.7
20	0.4	1.2	3.2	2.2	177	46	48	20	11	5.5	3.8	2.7
21	0.4	1.1	2.7	2.4	194	42	46	19	10	4.9	3.8	2.6
22	0.5	1.2	2.5	3.8	152	38	43	19	10	4.9	3.6	2.5
23	0.5	1.2	24	3.0	92	36	41	19	10	4.9	3.9	2.5
24	0.6	1.1	30	2.2	73	34	38	18	10	5	3.9	2.5
25	1.5	1.2	11	9.5	58	32	36	18	10	6	3.9	2.5
26	2.1	1.2	6.5	8.5	47	30	36	17	10	6	3.9	2.5
27	1.5	1.1	4.9	6.5	41	29	34	17	10	6	3.9	2.5
28	1.1	1.2	4.1	6	75	42	32	17	9.5	6	3.8	2.5
29	0.9	1.2	6	5.5		60	31	17	9.5	5	3.6	2.5
30	0.9	1.2	4.6	4.6		37	64	17	9	4.9	3.5	2.4
31	0.8		4.2	4.4		49		16		4.9	3.4	
	191	32.3	156.7	131.6	1232.7	2269	1776	734	363.0	196.5	129.6	84.2
MEAN	0.62	1.08	5.05	4.25	44.0	73.2	59.2	23.7	12.1	6.34	4.18	2.81
ACRE-FEET	38.	64.	311.	261.	2440.	4500.	3520.	1460.	720.	390.	257.	167.

Remarks:

YEAR OR PERIOD — MEAN 19.5 — ACRE FEET 14130.

STATION U5R

SAN GABRIEL RIVER BASIN Sawpit Creek near Monrovia

LOCATION: (revised)

Water-stage recorder and broad-crested weir control, lat. 34°10'25", long. 117°59'20", in NE¼ SW¼ 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 1,100 ft.

DRAINAGE AREA:

5.3 square miles, including that of Monrovia Creek.

RECORDS AVAILABLE:

November 1916 to September 1941.

AVERAGE DISCHARGE:

24 years (1917-1941), 1.32 second-feet; including diversion by Monrovia pipe line, 24 year, 2.66 second-feet.

EXTREMES:

Maximum daily discharge during year 63 second-feet; no flow during several periods.
1916-1941:
Maximum discharge, about 2,000 second-feet Apr. 7, 1926, estimated from flow of Rogers Creek; minimum, no flow during parts of most years.

REMARKS:

Records fair. Figures given herin 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 27 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 35 discharge measurements of Sawpit Creek furnished by Los Angeles County Flood Control District, through H. E. Hedger, chief engineer.

On form 9-220e:
Diversion to Monrovia pipe line. Records furnished by city of Monrovia.
No gage-height record; discharge computed on basis of one discharge measurement, interpolation and upper limits of stage.

Monthly diversion, in acre-feet, from Sawpit reek by city of Monrovia:

Month	Acre-feet
October	59
November	58
December	61
January	85
February	56
March	84
April	114
May	207
June	227
July	228
August	197
September	181
Water Year 1940-1941	1,560

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U5R

DISCHARGE MEASUREMENTS OF SAWPIT CREEK

NEAR Monrovia DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
547	11-6		U.S.G.S.				0.81	1.43		.6	17	0	
548	11-6		U.S.G.S.				0.75	1.31	.28	.6 .8	8		
549	11-6		U.S.G.S.				0.75	1.04		.6	10	0	
550	11-7	834A / 843A	Lindsay	7.6	4.61	2.23	0.73	1.03		.6	7	0	FC28
551	11-15		U.S.G.S.				0.05	0.04		.6	7	0	
552	11-30		U.S.G.S.				0.03	0.05		.6	7	0	
553	12-12		U.S.G.S.				0.00	0.03		.6	4	0	
554	12-16		U.S.G.S.				0.02	0.07		.6	10	0	
555	12-18		U.S.G.S.				0.01	0.04		.6	5	0	
556	1-25		U.S.G.S.				0.00	0.02		.6	6		
557	2-11		U.S.G.S.				0.03	0.12		.6	9	0	
558	2-15	1047A /	U.S.G.S.				0.05	0.06		.6	12	0	
559	2-16	1051A	Lindsay-Keim	4.9	1.17	2.82	0.52	3.3		.6	5	-.01	FC28
560	2-17	150A / 154A	Lindsay-Keim	6.2	2.07	2.71	0.62	5.6		.6	6	0	FC28
561	2-18	925A / 933A	Lindsay	6.4	2.34	1.75	0.57	4.1		.6	7	0	FC28
562	2-19		U.S.G.S.				0.50	3.2		.6	11	0	
563	2-20	1227A / 1236A	Lindsay-Keim	7.7	3.97	4.94	0.97	19.6		.6	7	0	FC28
564	2-20	501P / 507P	Lindsay-Keim	12.0	8.28	3.39	1.14	28.1		.6	9	-.01	FC28
565	2-21		U.S.G.S.				0.98	23.3		.6	22	0	
566	2-21	454P / 501P	Lindsay-Keim	8.1	8.35	3.22	1.08	26.9		.6	9	0	FC28
567	2-22		U.S.G.S.				1.03	27.2		.6	17	+.02	
568	2-23	228P / 241P	Lindsay	7.9	8.28	2.95	1.09	24.4		.6	9	0	FC28
569	2-26	938A / 947A	Lindsay	5.8	2.66	1.14	0.63	6.6		.6	7	0	FC28
570	2-28		U.S.G.S.				0.18	0.35		Float			
571	3-1	444P / 451P	Lindsay-Keim	12.0	6.35	3.73	0.99	23.7		.6	11	0	FC28
572	3-3		U.S.G.S.				0.78	14.2		.6	11	0	
573	3-4	630P / 639P	Lindsay-Keim	16.0	13.8	4.06	1.59	56.0		.6	8	-.04	FC28
574	3-5		U.S.G.S.				1.52	58.		.6	17	0	
575	3-5	540P / 546P	Lindsay-Keim	16.0	15.3	3.13	1.51	47.9		.6	8	0	FC28
576	3-6	327P / 340P	Lindsay	11.1	12.3	3.22	1.38	39.6		.6	10	0	FC28
577	3-12		U.S.G.S.				0.54	5.7		.6	5	+.04	
578	3-13		U.S.G.S.				0.87	14.6		.6	9	+.02	
579	3-14	445P / 458P	Ingram	14.0	8.10	3.51	1.06	28.4		.6	7	0	FC18
580	3-18		U.S.G.S.				0.80	16.5		.6	9	0	
581	3-20	1029A / 1036A	Haig	7.5	2.68	2.69	0.75	7.2		.6	6	0	FC33
582	3-24	210P / 220P	Haig	11.5	7.60	3.59	1.10	27.0		.6	7	0	FC33
583	3-25		U.S.G.S.				1.00	21.6		.6	13	+.08	
584	3-27	1208P / 1215P	Haig	5.5	1.63	3.31	0.58	5.4		.6	7	0	FC33
585	3-29		U.S.G.S.				0.14	0.66		.6	8	0	
586	3-30	248P / 300P	Haig	7.5	1.93	5.18	0.68	10.0		.6	6	0	FC33
587	3-31		U.S.G.S.				0.29	0.04		Est.			
588	4-2	544P / 550P	Haig	8.0	2.28	5.79	0.75	13.2		.6	7	0	FC33
589	4-2	552P / 600P	Haig	10.0	2.24	5.89	0.75	13.2		.6	5	0	FC33
590	4-4		U.S.G.S.				0.74	14.4		.2	14	0	
591	4-4	320P / 331P	Haig	10.8	2.79	6.45	0.77	18.1		.6	8	0	FC33
592	4-7	950A / 1002A	Haig	9.3	7.65	3.54	1.06	27.1		.6	10	0	FC33
593	4-7		U.S.G.S.				1.02	23.6		.6	15	0	
594	4-9	1205P / 1215P	Haig	8.2	7.29	2.63	0.95	19.2		.6	9	0	FC33
595	4-11	843A / 850A	Haig-Trentham	9.5	1.79	6.82	0.72	12.2		.6	8	+.01	FC33
596	4-11		U.S.G.S.				1.13	32.5		.6	13	0	
597	4-12	1200N / 1215P	Haig	9.5	2.80	7.04	0.82	19.7		Surf	9	0	FC33
598	4-16	400P / 410P	Lindsay	10.0	3.42	2.22	0.67	7.6		.6	10	0	FC28
599	4-22		U.S.G.S.				0.01	0.02		.6	7	0	
600	4-23	940A / 947A	Lindsay	5.3	1.98	2.68	0.59	5.3		.6	5	0	FC28
601	4-28	915A / 920A	Lindsay	5.2	1.89	2.22	0.58	4.2		.6	5	0	FC28
602	4-30	417P / 427P	Lindsay	9.8	3.56	4.44	0.87	15.8		.6	7	0	FC28
603	5-2	254P / 302P	Haig	8.5	3.26	2.33	0.67	7.6		.6	8	0	FC33
604	5-3		U.S.G.S.				0.82	13.8		.6	14	0	
605	5-3	1201P / 1210P	Lindsay	9.5	4.34	3.92	0.86	17.0		.6	6	0	FC28
606	5-5	420P / 430P	Lindsay	5.7	1.88	2.18	0.59	4.1		.6	7	0	FC28
607	5-12	915A / 923A	Lindsay	5.5	1.64	1.58	0.53	2.6		.6	8	0	FC28
608	5-13		U.S.G.S.				0.53	3.6		.6	9	0	
609	5-19		U.S.G.S.				0.09	0.40		.6	12	0	
610	5-26		U.S.G.S.				0.01	0.01		.6	6	0	
611	6-3		U.S.G.S.				0.02	0.06		.6	8	0	
612	6-16		U.S.G.S.				0.14	0.48		.6	6	0	
613	6-30		U.S.G.S.				0.09	0.20		.6	6	0	
614	7-21		U.S.G.S.				0.05	0.03		Surf			
615	7-28		U.S.G.S.				0.20	0.35		.6	6	0	
616	8-6	938A / 945A	Lindsay	3.6	0.96	0.94	0.31	0.90		.6	5	0	FC28
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	FC28

F.C. Dist. Form 32 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No 05R

Daily discharge, in second-feet of SAWPIT CREEK near Monrovia, for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0.1	0	0.1	23	19	11	0.4	0.2	0.8	0
2	0	0	0.1	0	0.1	27	25	11	0.5	0.2	0.9	0
3	0	0	0.1	0	0.1	19	19	17	0.6	0.2	0.9	0
4	0	0	0.1	0	0.1	51	23	17	0.7	0.2	0.9	0
5	0	0	0.1	0	0.1	53	8	7.5	0.9	0.2	0.9	0
6	0	3.2	0.1	0	0.3	47	14	4.6	1.3	0.1	0.9	0
7	0	3.1	0.1	0.1	0.1	38	29	3.7	1.6	0.1	0.8	0
8	0	0	0.1	0	0.1	25	25	3.6	1.7	0.2	0.8	0
9	0	0	0.1	0.1	0.1	a19	21	4.2	1.4	0.3	0.8	0
10	0	0	0.1	0.2	0.1	a14	22	4.2	1.1	0.2	0.8	0
11	0	0	0.1	0.3	0.9	a10	23	4.2	1.3	0.1	0.8	0
12	0	0	0.1	0.2	0.3	a14	23	4.6	0.9	0.1	0.8	0
13	0	0.6	0	0.1	0.1	22	22	4.4	1.0	0.1	0.8	0
14	0	0.1	0	0.1	0.4	34	19	4.2	0.8	0.1	0.9	0
15	0	0.1	0	0	1.7	23	14	3.9	0.8	0.1	0.9	0.1
16	0	0	0.5	0	5	a21	10	3.0	0.8	0.1	0.9	1.3
17	0	0	1.0	0	8	a18	4.0	2.7	0.7	0.1	0.9	1.3
18	0	0.4	0.4	0	5.5	16	a 2.6	2.9	0.7	0.1	0.6	1.3
19	0	a 0.1	0.3	0	12	13	a 2.6	1.9	0.6	0.1	0.1	1.3
20	0	a 0.1	0.1	0	31	8	a 2.5	0.7	0.7	0.1	0	1.3
21	0	a 0.1	0.1	0.1	31	3.0	a 1.7	0.6	0.8	0.1	0	1.2
22	0	a 0.1	0.1	0.1	33	2.8	2.7	0.6	0.4	0.1	0	1.1
23	0	a 0.1	1.8	0	29	10	7	0.6	0.4	0.1	0	1.0
24	0	a 0.1	2.5	0.6	23	18	7	0.6	0.3	0.2	0	0.9
25	0	0.1	0.5	0.3	12	11	6.5	0.5	0.4	0.1	0	0.8
26	0	a 0.1	0.4	0.6	9.5	8	6.5	0.5	0.4	0.1	0	0.7
27	0	a 0.1	0.2	0.2	8	6.5	6.5	0.4	0.4	0.1	0	1.4
28	0	a 0.1	0.3	0.1	5	6	6	0.5	0.3	0.3	0	0.6
29	0	a 0.1	0.6	0.1		18	5	0.4	0.2	0.4	0	0.2
30	0	0.1	0.4	0.1		21	15	0.4	0.2	0.4	0	0.2
31	0		0.2	0.1		13		0.5		0.6	0	
	0	8.7	10.6	3.4	216.6	622.3	392.6	121.9	22.3	5.4	15.2	14.7
MEAN	0	0.29	0.34	0.11	7.74	20.1	13.1	3.93	0.74	0.17	0.49	0.49
ACRE-FEET	0	17.	21.	6.7	430.	1230.	779.	242.	44.	11.	30.	29.

Remarks:

YEAR OR PERIOD — MEAN 3.93 — ACRE-FEET 2840.

STAFF GAGE STATIONS

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F116-S

DISCHARGE MEASUREMENTS OF ARROYO DITCH

below headgate

DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
223	10/3	930A / 936A	Brewster	7.5	11.0	1.34	1.50	14.9		.6	4	0	FC 24
224	10/10	930A / 940A	"	7.5	9.54	1.75	1.26	16.7		.6	4	0	"
225	10/17	100P / 110P	"	7.5	7.70	1.61	1.02	12.4		.6	4	0	"
226	10/24	1230P / 1240P	"	7.5	8.35	1.99	1.10	16.6		.6	4	0	"
227	10/31	140P	"					NO flow					
228	11/7	110P	"					No flow					
229	11/14	1235P / 1245P	"	7.5	7.10	1.52	0.98	10.8		.6	4	0	FC 24
230	11/20	1210P / 1220P	"	7.0	8.36	1.27	1.21	10.6		.6	4	0	"
231	11/28	1220P / 1230P	"	7.0	6.64	1.30	0.98	8.6		.6	4	0	"
232	12/5	1230P / 1240P	"	7.0	9.54	1.96	1.40	18.7		.6	4	0	"
233	12/12	120P / 130P	"	7.0	6.55	1.30	0.92	8.5		.6	4	0	"
234	12/19	100P	"					No flow					
253	5/15	100P	"					No flow					
254	5/22	1250P / 100P	"	7.5	6.79	1.46		9.9		.6	4		FC 24
255	5/27	150P / 200P	"	7.5	6.94	2.07		14.4		.6	4		"
256	6/5	130P / 140P	"	7.5	10.2	2.26		23.1		.6	4		"
257	6/12	140P / 150P	"	7.5	11.0	2.28		25.1		.6	4		"
258	6/19	1240P / 1250P	"	7.5	12.0	1.94		23.3		.6	4		"
259	6/26	125P / 135P	"	7.5	11.3	2.21		25.0		.6	4		"
260	7/3	1225P / 1235P	"	7.5	11.0	2.22		24.4		.6	4		"
261	7/10	100P / 110P	"	7.5	10.5	2.25		23.7		.6	4		"
262	7/17	1250P / 100P	"	7.5	10.6	1.99		21.2		.6	4		"
263	7/24	1220P / 1230P	Brewster	7.5	9.07	2.19		19.8		.6	4		FC 24
264	7/31	1148A / 1157A	"	7.5	11.9	1.98		23.6		.6	4		"
265	8/7	1220P / 1230P	"	7.5	11.2	2.11		23.7		.6	4		"
266	8/14	1100A / 1110A	Lindsay	6.9	12.3	1.85		22.7		.6	8		FC 28
267	8/21	1036A / 1045A	"	7.0	14.7	1.63		24.0		.6	7		"
268	8/28	1210P / 1220P	Brewster	7.5	14.1	1.75		24.7		.6	4		FC 24
269	9/4	1210P / 1220P	"	7.5	13.7	1.78		24.4		.6	4		"
270	9/11	1205P / 1215P	"	7.5	13.6	1.76		23.9		.6	4		"
271	9/18	1205P / 1212P	"	7.5	8.97	2.33		20.9		.6	4		"
272	9/25	1212P / 1221P	"	7.5	9.00	2.41		21.7		.6	4		FC 12

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F58-S

DISCHARGE MEASUREMENTS OF ARROYO SECO

AT Avenue 26

DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
5	6/19	935A / 958A	Bollinger	8.0	1.96	1.94		3.8		.6	4		FC 6
6	6/25	822A / 827A	"	6.7	2.39	1.76		4.2		.6	5		"
7	7/10	907A / 914A	"	9.0	1.71	2.24		3.8		.6	6		"
8	7/24	1013A / 1022A	"	9.7	2.17	1.84		4.0		.6	6		"
9	8/7	845A / 853A	"	9.5	1.44	2.71		3.9		.6	6		"
10	8/14	810A / 820A	Moon	8.0	1.99	1.61		3.2		.6	8		FC 22
11	8/21	750A / 758A	"	7.5	1.71	1.46		2.5		.6	7		"
12	8/28	935A / 942A	Bollinger	10.0	2.15	2.51		5.4		.6	5		FC 6
13	9/4	927A / 936A	"	7.5	1.62	2.28		3.7		.6	5		"
14	9/11	933A / 941A	"	8.2	1.40	2.21		3.1		.6	5		"
15	9/18	1045A / 1053A	"	6.8	1.32	1.82		2.4		.6	5		"
16	9/25	1000A / 1007A	"	7.5	1.47	1.63		2.4		.6	5		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F157-S

DISCHARGE MEASUREMENTS OF ARROYO SEQUIT

AT Roosevelt Highway

DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
12	1/30	258P / 307P	Moon	16.0	6.88	1.60	2.23	11.0		.6	8	0	FC 22
13	2/12	200P / 210P	Moon-Eckert	16.0	8.30	1.92	2.37	15.9		.6	8	0	"
14	2/16	322P / 332P	" "	39.0	17.8	3.15	2.85	55.4		.6	9	0	"
15	2/21	137P / 146P	Moon-Hall	42.0	26.8	3.06	3.23	82.0		.6	9	0	"
16	2/27	330P / 343P	Moon	26.5	14.5	2.33	2.30	33.7		.6	9	0	"
17	3/6	351P / 400P	"	18.0	22.0	3.46	2.00	76.1		.6	7	0	"
18	3/12	226P / 236P	Moon-Eckert	29.0	33.7	3.51	2.35	119.		.6	7	0	"
19	3/20	344P / 354P	Moon	21.0	9.90	1.95		19.3		.6	7		"
20	3/27	300P / 307P	"	15.0	6.85	1.42		9.8		.6	6		"
21	3/29	249P / 258P	Moon-Eckert	19.0	11.8	2.35	1.90	27.7		.6	7	0	"
22	3/31	310P / 317P	Moon-Andren	20.0	19.1	3.57	2.25	68.2		.6	8	0	"
23	4/3	436P / 445P	Moon	20.0	14.9	2.86	2.07	42.3		.6	9	0	"
24	4/5	218P / 230P	Moon-Eckert	21.0	23.1	3.53	1.98	81.3		.6	10	0	"
25	4/10	147P / 156P	Moon	17.5	13.6	2.00	1.53	27.1		.6	7	0	"
26	4/11	1215P / 1220P	Moon-Eckert	12.0	13.0	2.64	1.60	34.3		.6	7	0	"
27	4/17	324P / 331P	Moon	15.0	10.8	1.53	1.00	16.5		.6	6	0	"
28	5/22	220P / 226P	"	5.5	1.35	0.82	1.00	1.1		.6	6	0	"
29	6/26	358P / 404P	"	4.5	0.57	0.77		0.44		.6	5		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F87-S

DISCHARGE MEASUREMENTS OF BANTA DITCH

NEAR head of pipe line

DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
200	10/3	1230P / 1240P	Brewster	10.0	9.48	1.08	0.84	10.2		.6	5	0	FC 24
201	10/10	1205P / 1215P	"	9.0	9.59	1.25	0.86	12.0		.6	5	0	"
202	10/17	1230P / 1240P	"	10.0	9.32	1.18	0.82	11.0		.6	5	0	"
203	10/24	1207P / 1215P	"	12.0	10.3	1.12	0.89	11.5		.6	6	0	"
204	10/31	115P	"					No flow					
208	11/28	1205P	"					No flow					
209	12/5	1205P / 1215P	"	10.0	10.7	1.20	0.92	12.9		.6	5	0	FC 24
210	12/12	1250P / 100P	"	10.0	11.5	1.10	0.96	12.7		.6	5	0	"
211	12/19	1245P	"					No flow					
228	5/15	1250P	"					No flow					
229	5/22	1230P / 1240P	"	10.0	12.2	1.16		14.2		.6	5		FC 24
230	5/27	130P / 140P	"	4.5	8.79	2.56		22.5		.6	4		"
231	6/5	100P / 110P	"	8.0	19.4	1.32		25.5		.6	5		"
232	6/12	1250P / 100P	"	12.0	23.4	0.93		21.8		.6	5		"
233	6/19	1215P / 1223P	"	4.5	9.60	2.08		20.0		.6	4		"
234	6/26	100P / 110P	"	10.0	14.2	1.30		18.5		.6	6		"
235	7/3	1205P / 1215P	"	11.0	13.8	1.30		18.0		.6	5		"
236	7/10	1240P / 1246P	"	3.0	0.46	0.83		0.38		.6	3		"
237	7/17	1210P / 1222P	"	12.0	25.4	1.44		36.6		.6	6		"
238	7/24	1145A / 1155A	"	10.0	21.0	1.28		26.9		.6	5		"
239	7/31	1110A / 1120A	"	11.0	21.8	1.26		27.4		.6	5		"
240	8/7	1140A / 1150A	"	11.0	22.4	1.11		24.9		.6	5		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F87S

DISCHARGE MEASUREMENTS OF BANTA DITCH

NEAR head of pipe line DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
241	8/14	1126A / 1135A	Lindsay	12.0	20.9	1.46		30.6		.6	7		FC 28
242	8/21	1209P / 1215P	"	4.2	14.2	2.35		33.4		.6	6		"
243	8/28	1145A / 1157A	Brewster	12.0	18.6	1.62		30.2		.6	6		FC 24
244	9/4	1135A / 1145A	"	11.0	17.4	1.34		23.3		.6	6		"
245	9/11	1135A / 1145A	"	11.0	17.0	1.64		27.9		.6	6		"
246	9/18	1140A / 1150A	"	11.0	23.5	1.23		28.9		.6	6		"
247	9/25	1140A / 1150A	"	11.0	18.2	1.24		22.6		.6	6		FC 12

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F202-S

DISCHARGE MEASUREMENTS OF BIG DALTON CREEK

at above Sierra Madre Avenue DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
7	12/23	1030A / 1035A	Brewster-Smith	6.0	1.32	0.57	1.03	0.75		.6	3	0	FC 24
8	12/24	950A / 956A	" "	9.0	3.57	1.39	1.32	5.0		.6	4	0	"
9	12/25	1017A / 1022A	Brewster	4.0	0.90	0.46	0.94	0.41		.6	4	0	"
10	1/24	1105A / 1109A	Brewster-Smith	2.0	0.22	0.09	0.72	0.02		.6	2	0	"
11	2/15	250P / 255P	" "	4.0	0.92	0.77	0.98	0.70		.6	4	0	"
12	2/16	210P / 215P	Brewster	4.0	0.76	0.32	0.88	0.24		.6	4	0	"
13	2/17	125P / 130P	Brewster-Smith	4.0	1.12	0.80	1.06	0.90		.6	4	0	"
14	2/19	1050A / 1055A	Brewster	4.0	0.78	0.77	0.96	0.59		.6	4	0	"
15	2/23	1230P / 1238P	Brewster-Smith	8.0	3.32	1.44	1.24	4.8		.6	4	0	"
16	2/24	325P / 335P	Brewster	10.0	3.64	1.10	1.22	4.0		.6	5	0	"
17	2/26	1130A / 1136A	"	8.0	3.28	1.72	1.22	5.6		.6	4	0	"
18	2/28	300P / 306P	"	5.0	1.45	0.97	1.20	1.4		.6	4	0	"
19	3/5	110P / 120P	Brewster-Smith	26.0	16.4	4.01		65.7		.6	7		"
20	3/6	1205P / 1215P	" "	22.0	12.3	3.54	1.76	43.6		.6	6	0	"
21	3/7	1005A / 1020A	Brewster & Gleason	18.0	14.4	3.52	1.77	50.6		.6	9	0	"
22	3/8	1202P / 1212P	Brewster	6.0	3.40	1.37	1.40	4.7		.6	4	0	"
23	3/10	445P / 455P	"	8.0	3.44	1.81	1.34	6.2		.6	4	0	"
24	3/14	1025A / 1035A	Brewster-Smith	12.0	7.20	2.25	1.50	16.2		.6	6	0	"
25	3/15	305P / 315P	" "	12.0	7.40	2.00	1.52	14.8		.6	6	0	"
26	3/17	110P / 120P	" "	13.0	6.50	2.09	1.48	13.6		.6	6	0	"
27	3/19	1230P / 1240P	Brewster	12.0	6.60	1.79	1.42	11.8		.6	6	0	"
28	3/24	515P / 522P	"	8.0	3.00	1.38	1.32	4.1		.6	4	0	"
29	3/26	155P / 201P	Brewster	8.0	3.08	1.26	1.34	3.9		.6	4	0	FC 24
30	3/28	1020A / 1026A	"	8.0	2.88	1.21	1.30	3.5		.6	4	0	"
31	4/7	250P	"					No flow					
32	4/9	1220P	"					No flow					
33	4/16	1235P / 1245P	"	6.0	2.27	1.32	1.28	3.0		.6	4	0	FC 24
34	4/23	1140P / 1145P	"	3.0	0.50	0.58	1.02	0.29		.6	3	0	"
35	4/28	1145A	"					No flow					
49	7/16	1150A	"					No flow					

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F143-S

DISCHARGE MEASUREMENTS OF BIG ROCK CREEK

at above Pallette Creek DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
44	10/24	134P / 140P	Luce & Van der Goot	Two Channels				3.5		.6	11		FC 39
45	11/22	330P / 345P	Luce	"	"			7.5		.6	10		"
46	1/29	505P / 520P	"	"	"			19.8		.6	12		"
47	3/29	356P / 405P	Luce-Pardieck	"	"			120.		.6	14		"
48	5/29	330P / 345P	Luce	26.5	22.8	4.88		111.		.6	10		"
49	6/13	100P / 120P	Turner	19.5	17.6	3.94		69.3		.6	12		FC 5
50	6/27	215P / 230P	"	16.0	16.0	2.94		47.2		.6	10		"
51	7/25	1150A / 1200N	Luce	15.5	9.52	3.05		29.0		.6	9		FC39
52	8/23	235P / 250P	"	13.5	9.12	2.16		19.7		.6	9		"
53	9/26	217P / 222P	Luce & Van der Goot	11.5	6.90	1.90		13.1		.6	8		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F183-S

DISCHARGE MEASUREMENTS OF BIG ROCK CREEK

at Palmdale-Victorville Road DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
15	6/13	305P / 320P	Turner	19.0	13.2	3.17		41.8		.6	10		FC 5
16	6/27	320P / 335P	"	17.0	10.4	2.67		27.8		.6	10		"
17	7/25	140P / 150P	Luce	10.5	5.84	1.44		8.4		.6	6		FC 39
18	8/23	315P / 320P	"	6.2	2.45	0.88		2.1		.6	6		"
19	9/26	230P	Luce & Van der Goot					No flow					

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F140-S

DISCHARGE MEASUREMENTS OF CASTAIC CREEK

at Elizabeth Lake Canyon Highway DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
6	3/28	1020A / 1030A	Luce	17.5	12.5	3.85		48.2		.6	8		FC 39
7	4/1	1131A / 1140A	Luce-Pardieck	43.5	36.0	4.78		172.		.6	11		"
8	6/12	435P / 445P	Turner	13.0	4.08	1.18		4.8		.6	7		FC 5

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F108-S

DISCHARGE MEASUREMENTS OF CASTAIC CREEK

at Santa Paula Highway DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
2	1/7	145P / 148P	Luce	16.3	3.23	1.30	2.41	4.2		.6	6	0	FC 39
3	3/28	1135A / 1145A	"	Two Channels				42.5		.6	12		"
4	6/18	100P / 110P	Turner	4.0	1.14	0.87		0.89		.6	4		FC 5

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F256-S

DISCHARGE MEASUREMENTS OF CORRAL CREEK

at at Roosevelt Highway DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
1	4/1	228P / 235P	Moon-Mellen	14.0	7.53	2.54	12.50	19.1		.6	6	0	FC 22
2	6/5	255P	Moon					0.35	Est.				

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F178-S

DISCHARGE MEASUREMENTS OF DEVIL'S PUNCH BOWL CREEK

at above Big Rock Creek DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
6	2/6	311P / 315P	Luce-Pardieck	7.5	3.16	1.20		3.8		.6	6		FC 39
7	2/17	421P / 427P	" "	12.0	9.97	3.29		32.8		.6	8		"
8	3/29	243P / 248P	" "	9.0	6.63	1.25		8.3		.6	7		"
9	5/9	420P / 430P	Luce	10.0	7.78	1.41		10.9		.6	6		"
10	5/29	435P / 445P	"	8.5	4.41	0.84		3.7		.6	6		"
11	6/13	1200N	Turner					1.5	Est.				
12	7/26	1130A	Luce					0.25	Est.				

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F141-S

DISCHARGE MEASUREMENTS OF ELIZABETH LAKE CREEK

at above Dry Gulch DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
24	11/20	210P 215P	Luce	1.0	0.08	0.25		0.02		.6	2		FC 39
25	11/28	1255P 1240P	"	1.0	0.11	0.27		0.03		.6	2		"
26	12/14	1035A 1045A	"	13.5	6.25	3.06		19.1		.6	8		"
27	12/20	1000A	"					0.10		Est.			
28	1/7	110P 115P	Luce-Pardieck	9.0	2.25	1.56		3.5		.6	7		FC 39
29	1/30	945A 1000A	Luce	11.8	4.20	2.34	2.82	9.8		.6	9	0	"
30	3/28	1100A 1110A	"	21.8	10.9	3.53	2.65	38.5		.6	10	0	"
31	4/1	1101A 1109A	Luce-Pardieck	23.0	20.9	4.93	3.02	103.		.6	9	0	"
32	5/22	720P 730P	Luce	18.5	10.1	2.37		25.6		.6	10		"
33	5/28	410P 420P	Luce-Turner	18.0	8.89	2.41	2.59	21.4		.6	9	0	"
34	6/12	405P 415P	Turner	8.0	4.11	1.90	2.40	7.8		.6	8	0	FC 5
35	6/25	355P 405P	"	14.0	4.98	1.32	2.38	6.6		.6	9	0	"
36	7/9	335P 345P	"	11.0	2.72	1.10	2.30	3.0		.6	6	0	"
37	7/24	230P 238P	Luce	6.0	2.14	1.54	2.23	3.3		.6	6	0	FC 39
38	8/28	440P 500P	"	8.0	2.44	0.94		2.3		.6	6		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F275-S

DISCHARGE MEASUREMENTS OF LAS FLORES CREEK

at Roosevelt Highway DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
1	2/21	225P 235P	Moon-Hall	Two Channels			15.60	56.9		.6	9	0	FC 22
2	4/1	256P 303P	Moon-Wellen	"	"		15.00	19.9		.6	7	0	"
3	5/15	217P 222P	Moon	5.0	2.00	0.50	13.60	1.0		.6	4	0	"
4	6/19	351P 355P	"	3.0	0.38	0.66	13.6	0.25		.6	4	0	"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F30-S

DISCHARGE MEASUREMENTS OF LITTLE DALTON CREEK

at Lorraine Avenue DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
1	12/17	730A 736A	Brewster-Smith	8.0	1.76	1.79	0.76	3.2		.6	4	0	FC 24
2	12/17	1025A 1032A	" "	4.0	1.16	0.74	0.46	0.86		.6	4	0	"
3	12/23	215P 221P	" "	4.0	0.66	2.58	0.64	1.7		.6	4	0	"
4	12/24	1002A 1008A	" "	8.0	2.16	5.68	1.00	12.3		.6	4	0	"
5	1/24	1117A 1125A	" "	5.0	0.90	3.84	0.64	3.5		.6	5	0	"
6	2/6	145P 148P	Brewster	2.0	0.24	0.58	0.44	0.14		.6	2	0	"
7	2/23	1250P 1256P	Brewster-Smith	2.5	0.86	1.28	0.28	1.1		.6	3	0	"
8	2/24	410P 415P	Brewster	3.0	0.50	0.82	0.24	0.49		.6	3	0	"
9	2/26	115P	"					No flow					
10	3/5	720P 735P	Brewster-Smith	10.0	6.60	4.41	0.82	29.1		.6	5	0	FC 24
11	3/6	1230P 1236P	" "	9.0	3.85	2.43	0.64	9.4		.6	5	0	"
12	3/7	1149A 1155A	Brewster & Gleason	8.0	2.08	1.50	0.45	3.1		.6	4	0	"
13	3/8	1055A 1101A	Brewster	6.0	2.14	1.59	0.46	3.4		.6	4	0	"
14	3/10	550P 555P	"	3.0	0.50	0.78	0.27	0.39		.6	3	0	"
15	3/14	1040A 1050A	Brewster-Smith	9.0	3.25	1.91	0.44	6.2		.6	5	0	"
16	3/15	330P 336P	" "	8.0	2.48	1.53	0.42	3.8		.6	4	0	"
17	3/17	140P 148P	Brewster	8.0	2.20	1.00	0.34	2.2		.6	4	0	"
18	3/19	130P 135P	"	3.0	0.72	0.83	0.26	0.59		.6	3	0	"
19	3/24	540P	"					No flow					
20	3/26	1005A 1008A	Brewster	1.0	0.12	0.33	0.24	0.04		.6	2	0	FC 24
21	4/2	1140A 1143A	"	1.0	0.12	0.17	0.24	0.02		.6	2	0	"
22	4/7	305P 313P	"	8.0	2.08	1.06	0.40	2.2		.6	4	0	"
23	4/9	1240P 1246P	Brewster	8.0	1.56	0.83	0.30	1.3		.6	4	0	FC 24
24	4/14	140P 150P	"	8.0	2.28	0.88	0.39	2.0		.6	4	0	"
25	4/16	115P 125P	"	4.0	1.46	1.58	0.39	2.3		.6	4	0	"
26	4/21	1105A 1111A	"	4.0	1.08	0.81	0.32	0.88		.6	4	0	"
27	4/23	1205P 1211P	"	4.0	0.78	0.42	0.26	0.33		.6	4	0	"
28	4/28	1202P 1205P	"	0.5	0.11	0.55	0.24	0.06		.6	1	0	"
29	5/5	1210P 1214P	"	2.0	0.22	0.27	0.22	0.06		.6	2	0	"
30	5/7	1152A 1155A	"	0.5	0.11	0.55	0.22	0.06		.6	1	0	"
31	5/12	440P	"					No flow					
37	6/18	1205P	"					No flow					

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F100-S

DISCHARGE MEASUREMENTS OF MAIN SPREADING CANAL

at mouth of San Gabriel Canyon DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
61	10/31	420P	Lindsay				1.39	15.		Curve			
62	11/7	415P	"				1.33	12.5		"			
63	11/14	110P 125P	"	11.6	9.52	1.21	1.35	11.5		.6	10	0	FC 28
64	11/20	350P	"				1.55	21.		Curve			
65	11/28	155P	"				1.25	10.0		"			
66	12/19	355P	"				2.22	57.		"			
67	12/27	800A	"				2.19	55.		"			
68	1/2	315P	"				2.22	57.		"			
69	1/7	256P 310P	"	13.6	20.3	2.63	2.18	53.4		.6	9	0	FC 28
70	1/16	400P	"				2.19	55.		Curve			
71	1/23	330P	"				2.20	55.		"			
72	1/30	430P	"				2.59	85.		"			
73	2/7	920A 937A	"	14.0	24.1	2.81	2.50	67.9		.6	9	0	FC 28
74	2/13	140P	"				2.50	72.		Curve			
75	2/27	815A	"				1.96	40.		"			
76	3/28	925A	"				2.00	42.		"			
78	4/18	730A	"				2.45	70.		"			
79	4/24	925A	"				2.68	94.		"			
80	5/1	900A	"				2.57	78.		"			
81	5/9	810A	"				2.85	96.		"			
82	5/15	930A	"				2.82	93.		"			
83	5/22	745A	"				2.59	79.		"			
84	5/28	850A	Lindsay				2.72	95.		Curve			
85	6/5	925A	"				2.45	72.		"			
86	6/12	955A	"				2.18	49.		"			
87	6/19	927A	"				2.25	56.		"			
88	6/26	1000A	"				2.28	59.		"			
89	7/3	945A	"				2.35	64.		"			
90	7/10	250P	"				2.33	62.		"			
91	7/17	945A	"				2.30	62.		"			
92	7/30	310P 325P	Haig	13.6	27.9	2.07	2.36	57.9		.6	11	-0.01	FC 33
93	8/7	955A	Lindsay				2.35	65.		Curve			
94	8/13	915A	"				1.62	22.		"			
95	8/20	400P	"				2.26	58.		"			
96	8/28	115P	"				2.36	64.		"			
97	9/4	920A	"				2.38	65.		"			
98	9/11	1245P	"				2.40	67.		"			

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

NEAR Arleta St., above Spreading Grounds DURING THE YEAR ENDING SEPTEMBER 30, 1941

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
27	2/23	352P / 401P	Luce-Pardieck	34.2	27.6	4.85		134.		.6	11		FC 39
28	5/21	1250P / 110P	Luce	19.5	19.3	2.91		56.2		.6	10		"
29	5/28	127P / 137P	Luce-Turner	19.4	18.8	2.18		41.0		.6	10		FC 41
30	6/4	250P / 305P	Turner	21.0	18.9	2.28		43.1		.6	11		FC 5
31	6/12	1135A / 1150A	"	18.5	17.4	2.19		38.1		.6	11		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F121-S

DISCHARGE MEASUREMENTS OF PALLETTE CREEK

above Big Rock Creek DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
36	10/24	458P	Luce & Van der Goot	3.5	0.79	1.26		1.0		.6	6		FC 39
37	11/22	415P / 420P	Luce	3.7	0.92	1.07		0.98		.6	5		"
38	1/29	420P / 425P	"	3.2	0.54	1.26		0.68		.6	4		"
39	5/29	230P / 240P	"	6.5	3.43	3.13		10.7		.6	6		"
40	6/13	225P / 235P	Turner	7.0	3.04	1.71		5.2		.6	7		FC 5
41	7/25	1235P / 1245P	Luce	6.2	2.65	2.38		6.3		.6	7		FC 39
42	8/23	340P / 350P	"	6.5	2.42	1.74		4.2		.6	6		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F122-S

DISCHARGE MEASUREMENTS OF PALLETTE CREEK

AT Junction with Big Rock Creek DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
40	10/24	121P / 126P	Luce & Van der Goot	3.5	0.50	0.76		0.38		.6	5		FC 39
41	11/22	255P / 300P	Luce	2.5	0.41	1.02		0.42		.6	4		"
42	1/29	435P / 440P	"	3.0	0.46	1.04		0.48		.6	6		"
43	3/29	510P / 515P	Luce-Pardieck	13.7	4.86	3.38		16.4		.6	8		"
44	5/9	530P / 535P	Luce	16.0	6.78	3.37		22.9		.6	8		"
45	5/29	300P / 310P	"	7.6	4.10	3.40		13.9		.6	8		"
46	6/13	125P / 135P	Turner	9.0	4.46	1.03		4.6		.6	9		FC 5
47	6/27	235P / 245P	"	9.0	4.57	0.94		4.3		.6	9		"
48	7/25	1130A / 1140A	Luce	8.0	2.33	1.35		3.2		.6	6		FC 39
49	8/25	225P / 230P	"	6.5	1.60	1.12		1.8		.6	4		"
50	9/26	207P / 212P	Luce & Van der Goot	6.0	1.74	1.20		2.1		.6	6		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F238-S

DISCHARGE MEASUREMENTS OF RUSTIC CANYON STORM DRAIN

above Channel Road DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
61	4/1	329P / 335P	Moon-Mellen	17.0	7.73	4.85		37.5		.6	7		FC 22
62	6/5	405P	Moon	6.0	1.45	1.52		2.2		.6	5		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F273-S

DISCHARGE MEASUREMENTS OF SAN PASQUAL WASH

below Huntington Drive DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
1	12/24	712A / 724A	Baustian & Fricker	15.8	5.41	8.78	0.40	47.5		.6	11	0	Pitot
2	2/11	1109A / 1117A	" "	15.9	5.57	11.5	0.50	64.3		.6	10	0	"
3	2/15	1142A / 1154A	" "	16.2	8.58	14.6	0.82	125.		.6	11	-0.15	"
4	2/15	1155A / 1201P	" "	16.2	9.38	13.6	0.75	128.		.6	11	0	"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F93-S

DISCHARGE MEASUREMENTS OF SANTA CLARA RIVER

above Lang Railroad Station DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
5	10/31	330P / 335P	Luce	1.7	0.19	0.21		0.04		.6	3		FC 39
6	11/20	325P / 330P	"	1.5	0.16	0.25		0.04		.6	2		"
7	11/28	1015A / 1020A	"	1.5	0.18	0.28		0.05		.6	2		"
8	1/30	845A / 850A	"	3.5	0.69	1.51		1.0		.6	5		"
9	2/14	910A / 915A	"	3.5	1.49	2.82		4.2		.6	6		"
10	3/28	115P / 130P	"	17.5	10.8	4.56		49.3		.6	9		"
11	6/18	215P / 230P	Turner	10.5	4.34	2.95		12.8		.6	10		FC 5
12	7/2	1055A / 1050A	"	10.5	4.85	2.33		11.3		.6	10		"
13	7/16	1035A / 1045A	Luce	6.5	3.77	1.78		6.7		.6	7		FC 39
14	9/11	1250P / 100P	"	9.0	2.92	1.47		4.3		.6	6		"

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

8 miles west of Castaic Junction DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
15	10/31	320P / 340P	Luce	12.5	6.56	1.86		12.2		.6	8		FC 39
16	11/20	145P / 200P	"	12.5	6.87	1.83		12.5		.6	8		"
17	11/28	1145A / 1200N	"	14.5	7.66	1.79		13.7		.6	9		"
18	6/25	215P / 225P	Turner	18.0	7.12	1.97		14.1		.6	9		FC 5
19	7/9	245P / 300P	"	18.0	6.56	2.51		16.4		.6	9		"
20	8/28	530P / 540P	Luce	16.0	6.64	2.42		16.1		.6	9		FC 39

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F272-S

DISCHARGE MEASUREMENTS OF SANTA MONICA CREEK

above Rustic Canyon DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
3	10/24	125P	Moon					No flow					
4	10/25	425P / 431P	"	8.0	0.92	7.04		6.5		.6	4		FC 22
5	10/31	140P	"					No flow					
6	11/20	220P	"					0.02		Est.			
7	11/28	245P	"					+		Est.			

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F272-S

DISCHARGE MEASUREMENTS OF SANTA MONICA CREEK

above Rustic Canyon DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
8	12/5	210P	Moon					No flow					
9	12/12	335P	"					+		Est.			
10	12/16	1226P / 1228P	"	6.0	0.52	5.36		2.8		.6	3		FC 22
11	12/24	147P / 150P	Moon-Mellen	5.0	0.33	3.70		1.2		.6	3		"
12	1/2	1143A / 1144A	Moon	2.0	0.04	0.75		0.03		Floats			
13	1/9	301P / 302P	"	2.0	0.06	1.17		0.07		Floats			
14	1/16	250P	"					0.02		Est.			
15	1/23	243P	"					0.02		Est.			
16	1/30	1125A / 1126A	"	2.0	0.06	0.83		0.05		.6	2		FC 22
17	2/7	359P / 400P	"	2.0	0.10	1.60		0.16		.6	2		"
18	2/13	1144A / 1145A	"	3.0	0.16	1.88		0.30		.6	2		"
19	2/19	445P / 452P	Hall-Moon	10.0	3.05	5.00	1.20	15.3		.6	3	+0.08	"
20	2/27	1100A / 1105A	Moon	8.5	2.60	3.66	3.32	9.5		.6	5	0	"
21	3/4	240P / 249P	Moon-Hall	30.0	14.7	8.33	4.42	122.		.6	6	-0.05	"
22	3/6	525P / 533P	Moon	30.0	9.75	4.60	3.90	44.9		.6	8	0	"
23	3/13	407P / 411P	Moon-Eckert	9.0	3.56	5.04	5.10	17.9		.6	6	0	"
24	3/20	507P / 511P	Moon	Two Channels			4.95	4.9		.6	6	0	"
25	3/27	432P	Moon	4.5	0.75	2.12		1.6		.6	4		FC 22
26	4/1	337P / 342P	Moon-Mellen	12.5	4.65	5.70	3.85	26.5		.6	5	0	"
27	4/3	453P / 500P	Moon	7.0	3.45	5.50	3.90	18.9		.6	5	0	"
28	4/10	338P / 345P	Moon-Irwin	11.0	3.86	3.99	3.50	15.4		.6	6	0	"
29	4/17	449P / 455P	Moon	6.0	3.00	4.52	3.25	13.6		.6	5	0	"
30	4/24	328P / 332P	"	6.5	2.43	3.44	1.50	8.4		.6	4	0	"
31	5/1	319P / 324P	"	6.5	2.20	3.46	1.55	7.6		.6	3	0	"
32	5/8	428P / 433P	"	6.5	2.42	2.90	0.85	7.0		.6	4	0	"
33	5/15	305P	"	6.5	2.48	3.17	0.86	7.9		.6	4	0	"
34	5/22	346P / 351P	"	5.0	2.28	2.68	1.34	6.1		.6	5	0	"
35	5/29	330P / 337P	"	5.5	2.25	2.80	1.35	6.3		.6	5	0	"
36	6/5	343P / 350P	"	5.0	2.24	2.86	1.30	6.4		.6	5	0	"
37	6/12	411P / 417P	"	5.0	1.99	2.74	1.32	5.5		.6	5	0	"
38	6/19	433P / 438P	"	5.0	1.96	2.76	1.32	5.4		.6	5	0	"
39	6/26	501P / 507P	"	5.0	1.86	2.20	1.30	4.1		.6	5	0	"
40	7/3	403P / 408P	"	5.0	1.85	2.38	1.26	4.4		.6	5	0	"
41	7/10	416P / 420P	"	4.5	1.59	2.04	1.28	3.2		.6	4	0	"
42	7/17	420P / 426P	"	5.0	1.81	2.21	1.28	4.0		.6	5	0	"
43	7/24	509P / 515P	"	5.0	1.61	2.11	1.30	3.4		.6	5	0	"
44	7/31	437P / 442P	"	6.0	1.72	1.98	1.26	3.4		.6	6	0	"
45	8/7	403P	"	6.0	1.76	1.70	1.26	3.0		.6	6	0	"
46	8/13	414P / 420P	"	5.0	1.53	1.77	1.26	2.7		.6	5	0	"
47	8/20	328P / 334P	Moon	5.5	1.41	1.91	1.26	2.7		.6	5	0	FC 22
48	8/27	100P / 110P	Bonadiman	8.0	1.28	2.04	1.18	2.6		.6	4	0	FC 40
49	9/3	110P / 116P	"	8.0	1.58	1.45	1.18	2.3		.6	4	0	"
50	9/11	404P / 410P	Moon	5.3	1.16	1.64		1.9		.6	5		FC 22
51	9/18	319P / 324P	"	5.0	1.05	1.62		1.7		.6	4		"
52	9/25	349P / 355P	"	5.0	1.13	1.59		1.8		.6	4		FC 42

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F55-S

DISCHARGE MEASUREMENTS OF SANTA MONICA CREEK

below Rustic Canyon DURING THE YEAR ENDING SEPTEMBER 30, 1941

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	10/24	113P / 114P	Moon	2.2	0.11	1.18	1.22	0.13		Floats		0	
66	10/25	415P / 420P	"	8.0	1.92	2.93	1.27	5.6		.6	4	0	FC 22
67	10/31	145P / 146P	"	2.0	0.20	0.85		0.17		Floats			
68	11/20	215P	"	2.0	0.09	1.67		0.15		"			
69	11/28	248P / 249P	"	1.8	0.07	1.43		0.10		"			
70	12/5	209P / 210P	"	2.0	0.08	1.12		0.09		"			
71	12/12	330P	"	2.5	0.08	1.25		0.10		"			
72	12/16	1220P / 1223P	"	7.0	0.63	5.93		3.7		.6	3		FC 22
73	12/24	140P / 145P	Moon-Mellen	12.0	3.15	6.89		21.7		.6	5		"
74	1/2	1134A / 1140A	Moon	3.6	0.20	3.50		0.70		.6	4		"
75	1/9	254P / 258P	"	5.0	0.30	3.40		1.0		.6	4		"
76	1/16	243P / 248P	"	5.0	0.30	2.50		0.75		.6	3		"
77	1/23	235P / 240P	"	6.0	0.37	4.43		1.6		.6	4		"
78	1/30	1146A	"	6.0	0.89	3.30		2.9		.6	5		"
79	2/7	350P / 358P	"	9.0	1.14	3.22		3.7		.6	5		"
80	2/13	1135A / 1142A	"	9.0	1.97	2.85		5.6		.6	6		"
81	2/19	435P / 440P	Hall-Moon	22.0	11.0	3.92	2.65	43.1		.6	5	0	"
82	2/21	315P / 328P	Moon-Hall	Two Channels			3.00	96.6		.6	7	0	"
83	2/27	1047A / 1057A	Moon	40.0	12.1	3.02	4.36	36.7		.6	7	0	"
84	3/4	207P / 219P	Moon-Hall	40.0	27.0	7.67	5.05	207.		.6	7	-0.10	"
85	3/6	507P / 521P	Moon	37.0	16.6	5.27	5.06	89.5		.6	8	0	"
86	3/12	511P / 522P	Moon-Eckert	40.0	26.6	6.28	5.48	167.		.6	5	0	"
87	3/13	350P / 403P	Moon-Eckert	Three Channels			5.45	32.5		.6	15	0	FC 22
88	3/20	452P / 501P	Moon	14.0	5.24	3.50	5.06	18.3		.6	8	0	"
89	3/27	418P / 425P	"	8.0	3.31	2.63		8.7		.6	5		"
90	3/29	226A / 238A	Moon-Eckert	40.0	31.5	8.54	5.59	269.		.6	5	-0.02	"
91	4/3	443P / 450P	Moon	11.0	6.40	5.55	4.85	35.5		.6	6	0	"
92	4/10	323P / 336P	Moon-Irwin	Two Channels			4.50	36.1		.6	13	0	"
93	4/17	435P / 445P	Moon	18.0	7.30	3.86	3.90	28.2		.6	7	0	"
94	4/24	320P / 325P	"	8.0	4.45	3.93	3.85	17.5		.6	4	0	"
95	5/1	310P / 316P	"	10.0	4.55	3.54		16.1		.6	5		"
96	5/8	419P / 425P	"	7.5	4.07	2.99		12.2		.6	4		"
97	5/15	250P / 255P	"	7.5	3.82	3.38		12.9		.6	5		"
98	5/22	335P / 344P	"	6.0	3.33	3.24		10.8		.6	6		"
99	5/29	315P / 320P	"	6.5	3.35	2.98		10.0		.6	5		"
100	6/5	335P / 342P	"	6.5	3.04	2.76		8.4		.6	6		"
101	6/12	409P	"	6.0	2.84	3.03		8.6		.6	6		"
102	6/19	423P / 430P	"	6.0	2.70	2.89		7.8		.6	6		"
103	6/26	452P / 458P	"	6.0	2.62	2.52		6.6		.6	6		"
104	7/3	350P / 359P	"	6.0	2.48	2.66		6.6		.6	6		"
105	7/10	413P	"	6.0	2.49	2.37		5.9		.6	6		"
106	7/17	413P / 418P	"	6.5	2.14	2.01		4.3		.6	6		"
107	7/24	502P / 507P	"	7.5	2.16	2.22		4.8		.6	7		"
108	7/31	427P / 433P	"	6.5	2.19	2.24		4.9		.6	5		"
109	8/7	347P / 354P	Moon	6.0	2.04	2.30		4.7		.6	6		FC 22
110	8/13	400P / 407P	"	6.0	2.08	2.02		4.2		.6	6		"
111	8/20	315P / 322P	"	6.0	2.00	2.10		4.2		.6	6		"
112	8/27	120P / 130P	Bonadiman	8.0	1.92	2.08		4.0		.6	4		FC 40
113	9/3	125P / 132P	"	7.0	1.82	1.81		3.3		.6	4		"
114	9/11	355P / 400P	Moon	6.0	1.70	1.82		3.1		.6	5		FC 22
115	9/18	310P / 316P	"	7.0	1.71	1.52		2.6		.6	5		"
116	9/25	340P / 347P	"	7.0	1.73	1.56		2.7		.6	5		FC 42

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F125-S

DISCHARGE MEASUREMENTS OF SANTIAGO CREEK

at above Little Rock Creek

DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
11	12/16	150P / 200P	Luce	6.5	2.30	3.41		7.8		.6	7		FC 39
12	12/23	443P / 446P	Luce-Pardieck	3.5	0.46	1.11		0.51		.6	5		"
13	1/29	140P / 145P	Luce	2.5	0.41	1.05		0.43		.6	3		"
14	2/6	141P / 145P	Luce-Pardieck	4.0	1.12	2.32		2.6		.6	4		"
15	2/17	220P / 226P	" "	15.0	7.15	4.73		33.8		.6	8		"
16	2/25	552P / 555P	" "	9.0	4.61	2.36		10.9		.6	6		"
17	3/6	1243P / 1252P	Luce	Two Channels				34.3		.6	11		"
18	3/29	1134A / 1145A	Luce-Pardieck	"	"			12.7		.6	12		"
19	4/8	910A / 920A	Luce-Luce	"	"			14.3		.6	9		"
20	4/30	748P / 758P	Luce-Pardieck	"	"			11.7		.6	11		"
21	5/9	245P / 250P	Luce	8.0	2.56	2.11		5.4		.6	4		"
22	5/29	100P / 105P	"	4.5	1.54	1.94		3.0		.6	5		"
23	6/13	1030A / 1040A	Turner	5.0	1.96	1.17		2.3		.6	5		FC 5
24	6/27	930A / 940A	"	5.0	1.61	0.87		1.4		.6	5		"
25	7/25	330P / 333P	Luce	3.0	0.71	0.49		0.35		.6	4		FC 39

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F257-S

DISCHARGE MEASUREMENTS OF SOLSTICE CREEK

at Roosevelt Highway

DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
1	4/1	212P / 217P	Moon-Mellen	17.0	12.9	2.15	11.30	27.8		.6	6	0	FC 22
2	4/24	235P / 240P	Moon	6.0	2.02	1.65	10.75	3.3		.6	4	0	"
3	6/5	242P / 246P	"	3.5	1.99	0.71	10.7	1.4		.6	4	0	"
4	6/19	330P / 333P	"	5.0	0.48	1.06	10.7	0.51		.6	4	0	"
5	7/3	316P / 320P	"	4.0	0.80	0.86		0.69		.6	4		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F258-S

DISCHARGE MEASUREMENTS OF TRANCAS CREEK

at Roosevelt Highway

DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
1	2/13	204P / 211P	Moon	12.5	5.51	1.45	7.50	8.0		.6	6	0	FC 22
2	4/10	220P / 228P	"	17.0	9.90	1.70	8.30	16.8		.6	7	0	"

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 ft. above Mission Bridge.

B = the measured discharge at Station F83R, Rio Hondo Slough at San Gabriel Blvd.

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.)

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

FACTOR "D"

DISCHARGE MEASUREMENTS OF RIO HONDO

NEAR Garvey Avenue, above Rising Water DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
121	2/6	210P / 218P	Brewster-Smith	18.0	8.88	1.61		14.3		.6	5		FC 24
122	3/27	900A / 920A	Brewster	75.0	49.2	3.76		185.		.6	8		"
123	4/3	915A / 940A	"	Two Channels				246.		.6	12		"
124	4/10	905A / 925A	"	115.0	118.	4.08		481.		.6	13		"
125	4/17	950A / 1000A	"	16.0	4.16	1.03		4.3		.6	5		"
126	4/24	810A / 835A	"	Two Channels				202.		.6	14		"
127	5/1	805A / 830A	"	122.0	104.	2.51		261.		.6	13		"
128	5/8	800A / 820A	"	Two Channels				118.		.6	14		"
129	5/15	900A / 930A	"	"	"			166.		.6	12		"
130	5/22	740A / 750A	"	18.0	5.06	0.82		4.2		.6	5		"
131	5/27	745A / 755A	"	12.0	2.78	0.84		2.3		.6	4		"
132	6/5	730A / 750A	"	Two Channels				49.2		.6	13		"
133	6/12	710A / 730A	"	"	"			49.1		.6	14		"
134	6/19	726A / 748A	"	"	"			77.9		.6	14		"
135	6/26	717A / 738A	"	"	"			72.2		.6	12		"
136	7/3	712A / 740A	"	"	"			71.7		.6	11		"
137	7/10	721A / 742A	"	"	"			81.4		.6	11		"
138	7/17	722A / 744A	"	"	"			83.5		.6	13		"
139	7/24	730A / 750A	"	"	"			79.0		.6	13		"
140	7/31	737A / 753A	"	38.0	29.3	2.06		60.4		.6	9		"
141	8/7	738A / 752A	"	26.0	27.5	1.79		49.3		.6	7		"
142	8/21	650A / 710A	Lindsay	Two Channels				50.0		.6	14		FC 28
143	8/28	726A / 748A	Brewster	Two Channels				89.7		.6	13		FC 24
144	9/4	730A / 745A	"	30.0	34.3	2.27		77.7		.6	8		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

FACTOR "E"

DISCHARGE MEASUREMENTS OF TRI-CITY OUTFALL SEWER

above Rio Hondo DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
114	10/3	803A / 808A	Brewster	8.0	6.12	1.06		6.5		.6	4		FC 24
115	10/10	816A / 824A	"	9.0	6.53	1.11		7.3		.6	5		"
116	10/17	808A / 815A	"	9.0	6.75	1.02		6.9		.6	4		"
117	10/24	802A / 810A	"	9.0	6.37	0.96		6.1		.6	4		"
118	10/31	806A / 814A	"	9.0	6.64	1.00		6.6		.6	4		"
119	11/7	822A / 830A	"	8.0	6.12	1.17		7.1		.6	4		"
120	11/14	825A / 835A	"	7.0	6.04	1.35		8.2		.6	4		"
121	11/20	810A / 820A	"	7.0	6.08	1.18		7.2		.6	4		"
122	11/28	810A / 820A	"	9.0	7.09	1.00		7.1		.6	5		"
123	12/5	811A / 818A	"	11.0	8.12	0.90		7.3		.6	5		"
124	12/12	802A / 812A	"	10.0	8.00	0.97		7.8		.6	5		"
125	12/19	805A / 815A	"	10.0	8.28	1.32		10.9		.6	5		"
126	12/26	820A / 830A	"	11.0	8.57	1.30		11.1		.6	5		"
127	1/2	820A / 830A	"	9.0	8.35	1.23		10.3		.6	5		"
128	1/9	825A / 835A	"	12.0	9.16	1.17		10.7		.6	6		"
129	1/16	830A / 840A	"	11.0	9.12	1.26		11.5		.6	6		"
130	1/23	820A / 830A	"	12.0	8.60	1.26		10.8		.6	6		"
131	1/30	818A / 828A	"	11.0	9.68	1.20		11.6		.6	6		"
132	2/6	240P / 250P	Brewster-Smith	12.0	16.9	1.45		24.4		.6	6		"
133	2/13	836A / 845A	Brewster	10.0	11.2	1.09		12.2		.6	5		"
134	2/25	140P / 152P	Haig	12.5	20.4	1.12		22.8		.6	5		FC 33
135	2/27	1140A / 1148A	"	12.5	18.8	1.26		23.7		.6	6		"
136	3/20	525P / 535P	Brewster	13.0	16.2	1.13		18.4		.6	6		FC 24
137	3/21	150P / 202P	Ingram	12.5	16.9	1.16		19.5		.6	8		FC 18
138	3/24	230P / 240P	"	13.0	18.2	1.28		23.4		.6	8		"
139	3/27	815A / 825A	Brewster	12.0	14.2	1.18		16.7		.6	6		FC 24
140	3/28	1235P / 1250P	Ingram	12.5	18.3	1.23		22.6		.6	8		FC 18
141	4/2	1240P / 1250P	"	13.5	19.9	1.34		26.7		.6	7		"
142	4/3	815A / 827A	Brewster	12.0	16.4	1.13		18.5		.6	6		FC 24
143	4/6	143P / 158P	Ingram	13.0	7.03	2.96		20.8		.6	7		FC 18
144	4/9	114P / 124P	"	13.0	18.4	1.22		22.5		.6	7		"
145	4/10	945A / 955A	Brewster	11.0	11.9	1.59		18.9		.6	6		FC 24
146	4/17	900A / 910A	"	10.0	6.88	1.24		8.6		.6	5		"
147	4/24	730A / 740A	"	11.0	8.40	0.61		5.1		.6	6		"
148	5/1	835A / 845A	"	12.0	12.0	1.21		14.5		.6	6		"
149	5/8	720A / 730A	"	8.0	5.60	0.93		5.2		.6	4		"
150	5/15	820A / 830A	"	9.0	8.50	1.33		11.3		.6	5		"
151	5/22	810A / 820A	"	10.0	9.60	0.62		5.9		.6	5		"
152	5/27	810A / 820A	"	11.0	10.4	0.74		7.7		.6	5		"
153	6/5	805A / 815A	"	9.0	7.50	0.79		5.9		.6	5		"
154	6/12	740A / 750A	"	11.0	8.05	1.14		9.2		.6	6		"
155	6/19	800A / 810A	"	9.0	6.80	0.93		6.3		.6	5		"
156	6/26	750A / 800A	"	9.0	6.89	0.87		6.0		.6	5		"
157	7/3	602A / 811A	"	9.0	8.10	0.79		6.4		.6	5		"
158	7/10	755A / 805A	Brewster	9.0	8.00	0.70		5.6		.6	5		FC 24
159	7/17	805A / 811A	"	9.0	7.90	0.77		6.1		.6	5		"
160	7/24	804A / 816A	"	10.0	8.40	0.74		6.2		.6	5		"
161	7/31	802A / 811A	"	10.0	7.88	0.91		7.2		.6	5		"
162	8/7	802A / 813A	"	9.0	7.60	0.87		6.6		.6	5		"
163	8/14	755A / 805A	Lindsay	10.5	8.32	1.10		9.1		.6	6		FC 28
164	8/21	756A / 805A	"	10.0	8.39	1.04		8.7		.6	6		"
165	8/28	806A / 814A	Brewster	10.0	8.54	1.04		8.9		.6	6		FC 24
166	9/4	818A / 827A	"	11.0	9.08	0.89		8.1		.6	5		"
167	9/11	821A / 830A	"	11.0	9.75	0.91		8.9		.6	5		"
168	9/18	822A / 831A	"	9.0	9.05	1.04		9.4		.6	5		"
169	9/25	828A / 837A	"	9.0	9.60	0.96		9.2		.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, 1941

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.
83	10/3	822A / 826A	Brewster	3.0	0.62	0.77		0.48		.6	3		FC 24
84	10/10	838A / 842A	"	3.0	0.58	0.76		0.44		.6	3		"
85	10/17	825A / 829A	"	3.0	0.52	1.06		0.55		.6	3		"
86	10/24	825A / 829A	"	1.0	0.59	0.76		0.45		.6	2		"
87	10/31	826A / 831A	"	3.0	0.60	0.83		0.50		.6	3		"
88	11/7	840A / 844A	"	3.0	0.64	0.77		0.49		.6	3		"
89	11/14	850A / 855A	"	1.5	0.32	1.12		0.36		.6	3		"
90	11/20	840A / 845A	"	1.5	0.84	1.17		1.0		.6	3		"
91	11/28	835A / 841A	"	3.0	0.52	0.94		0.49		.6	3		"
92	12/5	832A / 838A	"	1.0	0.50	1.00		0.50		.6	2		"
93	12/12	820A / 825A	"	1.5	0.57	1.04		0.59		.6	3		"
94	12/19	825A / 830A	"	3.0	0.46	1.22		0.55		.6	3		"
95	12/26	840A / 845A	"	3.0	0.70	0.81		0.55		.6	3		"
96	1/2	845A / 850A	"	1.5	0.61	0.97		0.60		.6	3		"
97	1/9	850A / 855A	"	1.5	0.42	1.36		0.55		.6	3		"
98	1/16	900A / 906A	"	3.0	0.56	0.91		0.50		.6	3		"
99	1/23	840A / 845A	"	1.5	0.49	1.37		0.65		.6	3		"

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, 1941

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.
100	1/30	840A / 845A	Brewster	1.5	0.79	0.78		0.60		.6	3		FC 24
101	2/6	255P / 300P	"	3.0	0.86	1.23		1.1		.6	3		"
102	2/13	900A / 905A	"	3.0	0.80	0.61		0.49		.6	3		"
103	3/20	545P / 550P	"	3.0	0.64	0.95		0.60		.6	3		"
104	3/27	840A / 845A	"	3.0	0.72	0.92		0.65		.6	3		"
105	4/3	840A / 846A	Brewster	3.0	0.80	0.60		0.49		.6	3		FC 24
106	4/10	930A / 935A	"	1.5	0.54	0.98		0.53		.6	3		"
107	4/17	925A / 930A	"	3.0	0.60	1.22		0.75		.6	3		"
108	4/24	750A / 756A	"	4.0	0.70	0.89		0.60		.6	4		"
109	5/1	750A / 755A	"	1.5	0.74	0.99		0.75		.6	3		"
110	5/8	740A / 745A	"	3.0	0.78	0.95		0.75		.6	3		"
111	5/15	840A / 845A	"	3.0	0.76	0.84		0.65		.6	3		"
112	5/22	835A / 841A	"	4.0	0.74	0.81		0.60		.6	4		"
113	5/27	830A / 835A	"	4.0	0.78	0.86		0.67		.6	4		"
114	6/5	830A / 835A	"	4.0	0.90	0.78		0.70		.6	4		"
115	6/12	800A / 806A	"	3.0	0.76	0.66		0.50		.6	3		"
116	6/19	820A / 826A	"	4.0	0.72	0.67		0.48		.6	4		"
117	6/26	815A / 820A	"	4.0	0.76	0.79		0.60		.6	4		"
118	7/3	821A / 827A	"	3.0	0.92	0.65		0.60		.6	3		"
119	7/10	820A / 826A	"	3.0	0.62	0.81		0.50		.6	3		"
120	7/17	826A / 832A	"	4.0	0.70	0.69		0.48		.6	4		"
121	7/24	828A / 834A	"	3.0	0.52	1.25		0.65		.6	3		"
122	7/31	822A / 828A	"	3.0	0.82	0.61		0.50		.6	3		"
123	8/7	822A / 828A	"	4.0	0.98	0.71		0.70		.6	4		"
124	8/14	735A / 740A	Lindsay	2.5	0.54	0.85		0.46		.6	5		FC 28
125	8/21	808A / 812A	"	2.0	0.48	1.02		0.49		.6	4		"
126	8/28	830A / 836A	Brewster	4.0	0.80	0.62		0.50		.6	4		FC 24
127	9/4	842A / 848A	Brewster	3.0	0.66	0.77		0.51		.6	3		FC 24
128	9/11	842A / 848A	"	4.0	0.68	0.69		0.47		.6	4		"
129	9/18	845A / 850A	"	3.0	0.72	0.79		0.57		.6	3		"
130	9/25	846A / 852A	"	3.0	0.84	0.60		0.50		.6	3		FC 12

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

above head of pipeline DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
81	10/3	210P / 215P	Brewster	3.0	0.88	0.64		0.55		.6	3		FC 24
82	10/10	115P / 120P	"	3.0	1.30	0.57		0.75		.6	3		"
83	10/17	252P / 258P	"	3.0	1.26	0.60		0.75		.6	3		"
84	10/24	210P / 216P	"	4.0	0.74	0.54		0.40		.6	4		"
85	10/31	320P / 325P	"	3.0	0.98	0.72		0.70		.6	3		"
86	11/7	240P / 246P	"	3.0	0.82	0.80		0.65		.6	3		"
87	11/14	255P / 302P	"	2.0	0.75	1.00		0.75		.6	4		"
88	11/20	130P / 136P	"	4.0	1.30	0.77		1.0		.6	4		"
89	11/28	210P / 216P	"	3.0	1.04	0.73		0.75		.6	3		"
90	12/5	210P / 216P	"	4.0	1.24	0.73		0.91		.6	4		"
91	12/12	245P / 250P	"	3.0	0.90	1.02		0.90		.6	3		"
92	12/19	250P / 256P	"	4.0	1.34	0.70		0.95		.6	4		"
93	12/26	150P	Brewster					0					
108	5/8	1230P	"					0					
109	5/15	240P / 250P	"	6.0	3.91	1.67		6.5		.6	4		FC 24
110	5/22	400P / 410P	"	6.0	6.80	1.16		7.9		.6	4		"
111	5/27	310P / 320P	Brewster	4.0	1.40	1.00		1.4		.6	4		FC 24
112	6/5	510P	"					0					
113	6/12	400P / 410P	"	5.0	4.95	1.41		7.0		.6	5		FC 24
114	6/19	320P / 330P	"	6.0	5.70	1.40		8.0		.6	4		"
115	6/26	415P / 423P	"	5.0	4.70	1.36		6.4		.6	5		"
116	7/3	210P / 220P	"	8.0	5.09	1.39		7.1		.6	5		"
117	7/10	315P / 325P	Brewster	6.0	9.40	0.99		9.3		.6	4		FC 24
118	7/17	320P / 330P	"	5.5	6.68	1.41		9.4		.6	4		"
119	7/24	245P / 255P	"	6.0	6.30	1.46		9.2		.6	4		"
120	7/31	230P / 240P	"	6.0	6.20	1.47		9.1		.6	4		"
121	8/7	310P / 320P	"	7.0	8.04	0.93		7.5		.6	4		"
122	8/14	217P / 225P	Lindsay	7.5	8.66	1.08		9.3		.6	7		FC 28
123	8/21	225P / 235P	"	9.5	11.2	0.88		9.9		.6	9		"
124	8/28	300P / 310P	Brewster	6.0	4.88	1.37		6.7		.6	4		FC 24
125	9/4	240P / 252P	"	7.0	6.67	1.35		9.0		.6	4		"
126	9/11	210P / 250P	"	5.0	3.14	1.08		3.4		.6	4		"
127	9/18	210P / 220P	"	7.0	6.95	1.55		10.8		.6	4		"
128	9/25	230P / 240P	"	8.0	6.15	1.61		9.9		.6	4		FC 12

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

above head of pipeline DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
82	10/3	135P / 141P	Brewster	6.0	1.41	0.58		0.80		.6	4		FC 24
83	10/10	1235P / 1240P	"	4.0	0.88	0.81		0.70		.6	4		"
84	10/17	210P / 216P	"	4.0	0.92	0.75		0.70		.6	4		"
85	10/24	130P / 136P	"	4.0	0.86	0.66		0.55		.6	4		"
86	10/31	250P	"					0					
109	5/8	1250P	"					0					
110	5/15	300P / 310P	"	6.0	1.61	0.98		1.6		.6	4		FC 24
111	5/22	230P / 240P	"	8.0	10.5	0.51		5.4		.6	4		"
112	5/27	245P / 252P	"	9.0	13.4	0.57		7.7		.6	5		"
113	6/5	230P / 240P	"	8.0	20.0	0.37		7.4		.6	5		"
114	6/12	230P / 240P	"	8.0	19.8	0.34		6.8		.6	5		"
115	6/19	140P / 150P	"	10.0	19.8	0.31		6.1		.6	5		"
116	6/26	225P / 235P	"	9.0	18.1	0.35		6.4		.6	5		"
117	7/3	106P / 113P	"	10.0	18.8	0.29		5.5		.6	5		"
118	7/10	155P / 205P	"	8.0	16.6	0.45		7.5		.6	5		"
119	7/17	140P / 150P	"	8.0	16.0	0.47		7.5		.6	5		"
120	7/24	135P / 145P	"	8.0	14.8	0.39		5.8		.6	4		"
121	7/31	110P / 120P	"	8.0	14.4	0.42		6.1		.6	4		"
122	8/7	155P / 205P	"	6.0	12.4	0.47		5.8		.6	4		"
123	8/14	210P / 223P	Lindsay	10.5	8.96	0.64		5.7		.6	7		FC 28
124	8/21	107P / 115P	"	8.4	12.4	0.48		6.0		.6	6		"
125	8/28	230P / 240P	Brewster	9.0	16.2	0.30		4.8		.6	5		FC 24
126	9/4	145P / 155P	Brewster	8.0	14.8	0.34		5.0		.6	4		FC 24
127	9/11	140P / 150P	"	8.0	14.9	0.42		6.3		.6	4		"
128	9/18	130P / 140P	"	8.0	15.2	0.40		6.1		.6	4		"
129	9/25	145P / 152P	"	8.0	15.6	0.30		4.7		.6	4		FC 12

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

FACTOR "L"

DISCHARGE MEASUREMENTS OF CATE DITCH

below Sluice Gate DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
200	10/3	1051A / 1105A	Brewster	10.0	5.52	1.11		6.1		.6	5		FC 24
201	10/10	1040A / 1050A	"	11.0	6.44	1.00		6.4		.6	6		"
202	10/17	1030A / 1038A	"	11.0	5.45	1.11		6.0		.6	6		"
203	10/24	1045A / 1055A	"	8.0	5.68	1.05		6.0		.6	5		"
204	10/31	1030A / 1038A	"	6.0	2.29	0.86		2.0		.6	4		"
205	11/7	1100A / 1110A	"	6.0	9.39	1.04		9.7		.6	4		"
206	11/14	1055A / 1105A	"	6.0	8.97	0.98		8.8		.6	4		"
207	11/20	1030A / 1040A	"	6.0	5.32	0.80		4.2		.6	4		"
208	11/28	1002A / 1010A	"	6.0	7.92	1.02		8.1		.6	3		"
209	12/5	1020A / 1030A	"	6.0	6.80	0.86		5.9		.6	4		"
210	12/12	1050A / 1100A	"	6.0	6.47	1.04		6.7		.6	4		"
211	12/19	1035A / 1041A	"	6.0	1.29	0.71		0.90		.6	4		"
212	12/26	1030A / 1033A	"	2.0	0.24	0.67		0.16		.6	2		"
213	1/2	1040A / 1045A	"	3.0	0.46	0.39		0.18		.6	3		"
214	1/9	1045A	"					0					
228	5/15	1110A	"					0					
229	5/22	1005A / 1015A	"	8.0	8.60	0.86		7.4		.6	5		FC 24
230	5/27	1125A / 1131A	"	8.0	1.88	0.36		0.68		.6	4		"
231	6/5	950A / 1000A	"	10.5	13.1	0.97		12.7		.6	6		"
232	6/12	1000A / 1010A	"	11.0	17.4	0.97		16.8		.6	6		"
233	6/19	1015A / 1025A	"	10.0	19.4	0.86		16.7		.6	6		"
234	6/26	1015A / 1025A	"	10.0	17.8	0.94		16.7		.6	6		"
235	7/3	1010A / 1020A	"	10.0	10.6	1.17		12.4		.6	6		"
236	7/10	1050A / 1040A	Brewster	10.0	14.7	0.78		11.5		.6	6		FC 24
237	7/17	1000A / 1012A	"	10.0	10.6	1.19		12.6		.6	6		"
238	7/24	1020A / 1030A	"	10.0	13.8	1.00		13.8		.6	6		"
239	7/31	1010A / 1020A	"	10.0	15.2	0.96		14.5		.6	6		"
240	8/7	1015A / 1025A	"	10.0	14.5	0.97		14.1		.6	6		"
241	8/14	1000A / 1010A	Lindsay	11.0	13.6	0.82		11.2		.6	6		FC 28
242	8/21	930A / 957A	"	9.0	3.75	1.17		4.4		.6	5		"
243	8/28	1040A / 1050A	Brewster	11.0	16.7	0.78		13.0		.6	6		FC 24
244	9/4	1025A / 1035A	"	10.0	9.90	1.25		12.4		.6	6		"
245	9/11	1020A / 1030A	"	10.0	10.6	1.26		13.3		.6	6		"
246	9/18	1020A / 1030A	"	10.0	6.37	1.19		7.6		.6	6		"
247	9/25	1030A / 1040A	"	10.0	8.96	1.29		11.6		.6	6		FC 12

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

FACTOR "O"

DISCHARGE MEASUREMENTS OF STANDIFER DITCH

below Headgate DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
200	10/3	1130A / 1136A	Brewster	6.5	11.4	1.28		14.6		.6	3		FC 24
201	10/10	1110A / 1120A	"	6.5	12.2	1.25		15.3		.6	3		"
202	10/17	1050A / 1100A	"	6.5	12.3	1.28		15.7		.6	3		"
203	10/24	1110A / 1116A	"	6.5	12.3	1.25		15.4		.6	3		"
204	10/31	1050A / 1055A	"	3.0	0.46	0.39		0.18		.6	3		"
205	11/7	1130A / 1138A	"	4.0	1.78	0.77		1.4		.6	4		"
206	11/14	1130A / 1140A	"	6.0	4.06	1.62		6.6		.6	5		"
207	11/20	1100A / 1108A	"	6.0	3.92	1.40		5.5		.6	4		"
208	11/28	1020A / 1030A	Brewster	6.0	5.33	1.32		7.0		.6	4		FC 24
209	12/5	1050A / 1100A	"	8.0	9.52	1.51		14.4		.6	4		"
210	12/12	1120A / 1130A	"	8.0	10.3	1.53		15.8		.6	4		"
211	12/19	1100A / 1105A	"	3.0	0.50	0.62		0.31		.6	3		"
212	12/26	1045A	"					0					
227	5/8	945A	"					0					
228	5/15	1145A / 1155A	"	6.0	4.05	1.49		6.0		.6	4		FC 24
229	5/22	1040A / 1050A	"	6.0	2.86	1.51		4.3		.6	3		"
230	5/27	1155A / 1202P	"	7.0	9.06	1.50		13.6		.6	4		"
231	6/5	1050A / 1040A	"	7.0	13.7	1.39		19.1		.6	4		"
232	6/12	1050A / 1040A	"	7.0	14.4	1.42		20.4		.6	4		"
233	6/19	1040A / 1050A	"	7.0	14.2	1.53		21.7		.6	4		"
234	6/26	1100A / 1110A	"	7.0	13.7	1.33		18.2		.6	4		"
235	7/3	1030A / 1040A	"	7.0	13.8	1.37		18.9		.6	4		"
236	7/10	1110A / 1120A	"	7.0	14.4	1.29		18.6		.6	4		"
237	7/17	1040A / 1050A	Brewster	7.0	13.7	1.28		17.5		.6	4		FC 24
238	7/24	1050A / 1100A	"	7.0	14.2	1.41		20.0		.6	4		"
239	7/31	1030A / 1036A	"	7.0	14.7	1.35		19.9		.6	4		"
240	8/7	1042A / 1050A	"	7.0	14.4	1.39		20.0		.6	4		"
241	8/14	1020A / 1030A	Lindsay	9.0	15.1	1.35		20.3		.6	7		FC 28
242	8/21	953A / 1000A	"	8.6	16.1	1.48		23.8		.6	6		"
243	8/28	1100A / 1110A	Brewster	7.0	14.8	1.44		21.3		.6	4		FC 24
244	9/4	1050A / 1100A	"	7.0	14.3	1.32		18.8		.6	4		"
245	9/11	1045A / 1055A	"	7.0	14.4	1.54		22.2		.6	4		"
246	9/18	1040A / 1050A	"	7.0	12.8	1.14		14.6		.6	4		"
247	9/25	1050A / 1100A	"	7.0	14.9	1.50		22.3		.6	4		FC 12

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

FACTOR "P"

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

below Standifer Ditch DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
199	10/3	1145A / 1155A	Brewster	19.0	10.1	1.23		12.4		.6	6		FC 24
200	10/10	1130A / 1142A	"	15.0	10.1	1.36		13.7		.6	5		"
201	10/17	1115A / 1130A	"	18.0	10.2	1.33		13.6		.6	6		"
202	10/24	1122A / 1130A	"	20.0	11.3	1.27		14.4		.6	6		"
203	10/31	1115A / 1130A	"	20.0	19.1	2.01		38.4		.6	7		"
204	11/7	1150A / 1202P	"	20.0	16.5	1.78		29.3		.6	6		"
205	11/14	1150A / 1205P	"	20.0	15.4	1.61		24.8		.6	8		"
206	11/20	1115A / 1125A	"	19.0	18.3	1.73		31.6		.6	6		"
207	11/28	1050A / 1105A	"	15.0	13.0	2.05		26.6		.6	6		"
208	12/5	1110A / 1122A	"	17.0	15.6	1.27		19.8		.6	7		"
209	12/12	1140A / 1155A	"	16.0	11.5	1.54		17.7		.6	5		"
210	12/19	1115A / 1135A	"	36.0	27.3	1.65		45.0		.6	6		"
211	12/26	1050A / 1105A	"	50.0	29.4	2.00		58.9		.6	6		"
212	1/2	1110A / 1130A	"	56.0	33.8	1.73		58.6		.6	7		"
213	1/9	1110A / 1130A	"	67.0	37.3	1.49		55.4		.6	8		"
214	1/16	1135A / 1147A	"	53.0	30.8	1.74		53.5		.6	7		"
215	1/23	1050A / 1105A	"	61.0	30.5	1.65		50.3		.6	8		"
216	1/30	1110A / 1130A	"	69.0	32.3	1.62		52.3		.6	9		"
217	2/6	410P / 425P	Brewster-Smith	59.0	33.8	1.67		56.4		.6	8		"
218	2/13	1140A / 1155A	Brewster	26.0	27.5	2.24		61.7		.6	8		"
219	3/20	350P / 405P	"	82.0	45.9	1.91		87.5		.6	9		"
220	3/27	1145A / 1205P	"	80.0	68.8	2.80		193.		.6	10		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

FACTOR "P"

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

at below Standifer Ditch DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
221	4/3	1125A 1145A	Brewster	87.0	81.4	2.81		229.		.6	10		FC 24
222	4/10	1215P 1223P	"	88.0	83.4	3.84		320.		.6	9		"
223	4/17	230P 250P	"	96.0	124.	2.65		329.		.6	11		"
224	4/24	1048A 1110A	"	Two Channels				411.		.6	13		"
225	5/1	1030A 1100A	"	104.0	115.	4.02		462.		.6	12		"
226	5/8	955A 1010A	"	114.0	106.	3.17		335.		.6	13		"
227	5/15	1120A 1140A	"	106.0	131.	2.40		315.		.6	12		"
228	5/22	1055A 1115A	"	69.0	35.3	1.68		59.4		.6	9		"
229	5/27	1210P 1230P	"	63.0	50.5	1.78		90.5		.6	9		"
230	6/5	1050A 1115A	"	91.0	67.8	2.09		142.		.6	10		"
231	6/12	1102A 1124A	"	Two Channels				130.		.6	12		"
232	6/19	1100A 1120A	"	"	"			93.8		.6	12		"
233	6/26	1120A 1140A	"	"	"			81.6		.6	12		"
234	7/3	1050A 1114A	"	"	"			75.9		.6	14		"
235	7/10	1130A 1150A	"	"	"			40.3		.6	12		"
236	7/17	1115A 1130A	"	36.0	34.4	1.10		37.6		.6	7		"
237	7/24	1105A 1120A	"	34.0	33.9	1.04		35.4		.6	7		"
238	7/31	1040A 1055A	"	38.0	35.1	0.93		32.6		.6	7		"
239	8/7	1100A 1115A	"	40.0	37.8	0.93		35.0		.6	7		"
240	8/14	1035A 1049A	Lindsay	45.0	34.6	0.94		32.6		.6	12		FC 28
241	8/21	1005A 1017A	"	47.0	43.5	0.87		38.0		.6	12		"
242	8/28	1115A 1130A	Brewster	35.0	38.1	1.06		40.4		.6	8		FC 24
243	9/4	1110A 1125A	Brewster	36.0	26.1	1.54		40.3		.6	9		FC 24
244	9/11	1100A 1115A	"	41.0	34.1	1.26		42.8		.6	8		"
245	9/18	1105A 1120A	"	44.0	35.7	1.38		49.1		.6	9		"
246	9/25	1110A 1125A	"	38.0	28.4	1.40		39.7		.6	8		FC 12

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

FACTOR "R"

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

at Elliot Avenue, above Rising Water DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
36	2/13	1028A 1036A	Brewster	11.0	2.94	1.00		2.9		.6	5		FC 24
37	5/27	1040A 1055A	"	30.0	21.3	1.35		28.7		.6	6		"
38	7/8	245P 255P	"	10.0	2.88	0.62		1.8		.6	5		FC 43
39	7/10	1005A 1011A	"	6.0	1.44	0.59		0.85		.6	4		FC 24
40	8/7	325P 331P	"	5.0	1.18	0.85		1.0		.6	4		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

FACTOR "X"

DISCHARGE MEASUREMENTS OF ADDITIONAL FLOW

at miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
			RIO HONDO below Alhambra Wash										
1	12/19	845A 851A	Brewster	9.0	4.59	1.22		5.6		.6	4		FC 24
2	12/26	905A 912A	"	7.0	3.08	1.21		3.7		.6	4		"
			RUBIO WASH above Rio Hondo										
1	12/19	855A	Brewster					1.5		Est.			
2	2/6	220P	"					5.0		Est.			
3	4/17	930A	"					1.0		Est.			

F.C. Dist. Form 32 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

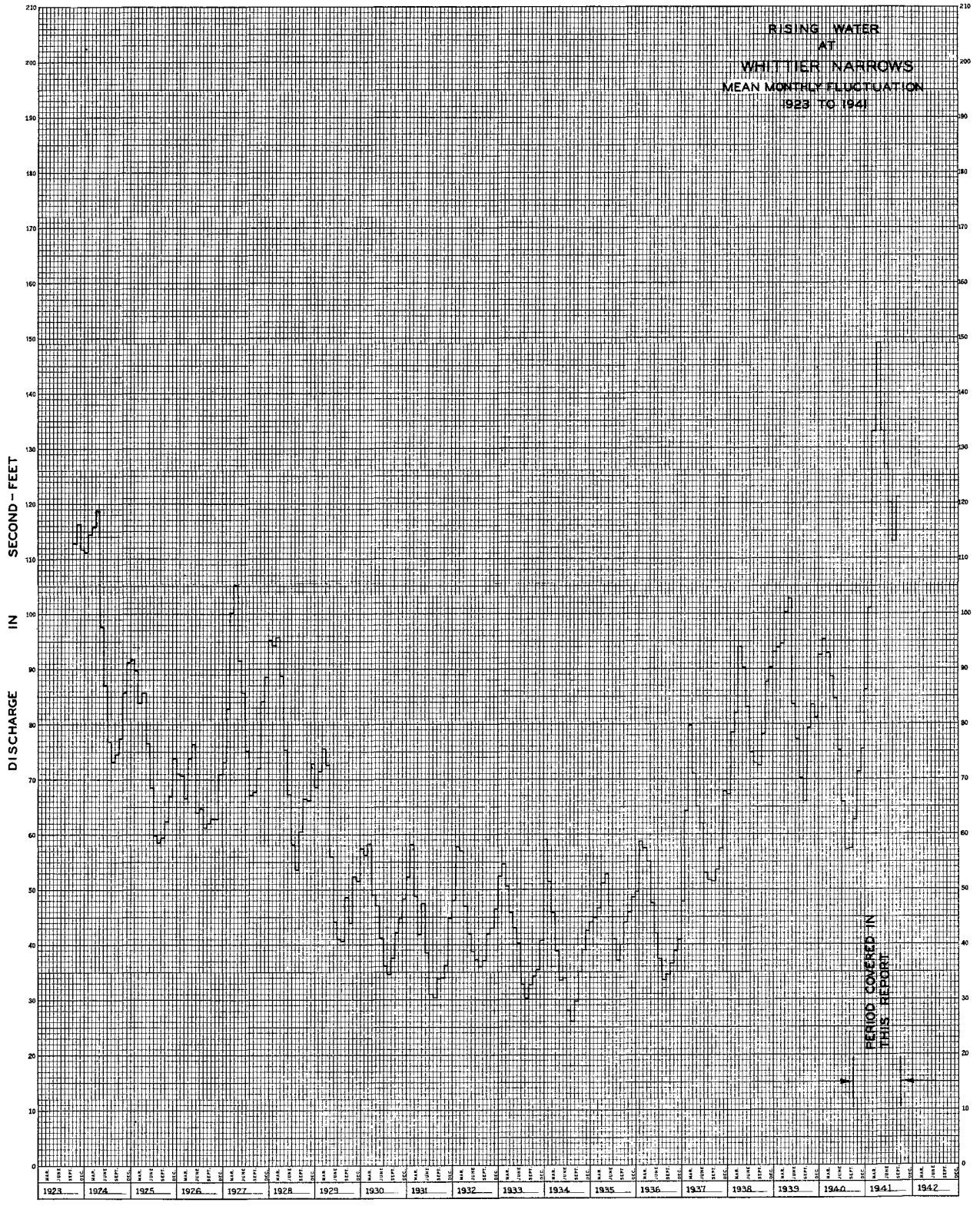
Sta. No.

Daily discharge, in second-feet of RISING WATER at Whittier Narrows for the year ending September 30, 19 41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	59	73	68	89	89	117	144	145	125	124	115	117
2	59	73	67	90	90	118	145	144	125	124	114	117
3	59	73	67	90	91	119	145	144	125	124	114	118
4	59	72	67	89	92	120	146	143	125	124	113	118
5	60	72	67	89	93	122	146	142	125	123	113	118
6	60	72	67	88	94	123	147	141	126	123	112	119
7	60	72	68	88	94	124	147	141	126	123	112	119
8	61	72	68	87	95	125	148	140	127	122	112	120
9	61	72	68	87	95	126	148	139	127	122	112	120
10	61	72	69	87	96	128	149	138	128	122	111	121
11	61	71	69	87	96	129	149	137	128	122	111	121
12	61	71	69	86	97	130	150	137	129	121	111	121
13	62	71	70	86	97	131	150	136	129	121	110	121
14	62	71	72	86	98	132	151	135	129	120	110	121
15	62	71	73	85	99	134	151	134	128	120	110	122
16	62	71	74	85	101	135	152	133	128	119	111	122
17	62	72	75	85	102	136	152	132	127	119	111	122
18	62	72	77	85	103	137	152	131	127	119	112	122
19	62	73	78	84	104	139	152	130	127	119	112	122
20	62	73	79	84	106	140	151	129	127	119	113	122
21	62	73	80	84	107	140	151	128	127	118	113	122
22	62	72	81	83	108	140	151	127	127	118	113	123
23	62	72	81	83	109	141	150	126	127	118	114	123
24	62	71	82	83	111	141	150	126	127	118	114	123
25	64	70	83	84	112	141	149	125	127	118	115	123
26	65	70	84	85	113	142	149	125	127	117	115	123
27	67	69	85	85	114	142	148	124	126	117	116	123
28	68	68	86	86	116	142	147	124	126	116	116	123
29	70	68	87	86		143	146	124	125	116	116	123
30	71	68	87	87		143	146	124	125	115	116	123
31	73		88	88		144		124		115	117	
	1943	2140	2336	2671	2822	4124	4462	4128	3802	3716	3504	3632
Mean	62.7	71.3	75.4	86.2	101.	133.	149.	133.	127.	120.	113.	121.
Acre-Feet	3850.	4240.	4630.	5300.	5600.	8180.	8850.	8190.	7540.	7370.	6950.	7200.

Remarks:

Year or Period: Mean 108.
Acre Feet 77900.


RISING WATER
AT
WHITTIER NARROWS
MEAN MONTHLY FLUCTUATION
1923 TO 1941
DISCHARGE IN SECOND-FEET
PERIOD COVERED IN THIS REPORT
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MISCELLANEOUS STATIONS

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

DISCHARGE MEASUREMENTS OF SANTA CLARA RIVER DRAINAGE AREA

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
			TOWSLEY CREEK above Wiley Canyon										
1	12/16	100P / 105P	Andren-Brewer	9.0	2.90	2.79		8.1		.6	4		FC 12
2	12/16	255P / 300P	" "	12.0	5.02	4.53		22.8		.6	7		"
3	12/16	440P / 445P	" "	9.0	2.22	3.34		7.4		.6	6		"
4	12/23	1030A / 1038A	" "	16.0	12.0	6.36		76.3		.6	9		"
5	12/24	925A / 930A	" "	16.5	9.92	4.90		48.6		.6	8		"
6	1/24	914A / 930A	" "	18.5	7.99	5.24		41.8		.6	9		"

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

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, 1941

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, near Jackson Avenue										
21	10/3	854A / 902A	Moon	10.2	7.13	0.74		5.3		.6	6		FC 22
22	10/10	942A / 1005A	"	10.0	6.30	0.67		4.2		.6	6		"
23	10/17	906A / 915A	"	12.3	9.60	1.01		9.7		S	7		"
24	10/24	833A / 841A	"	11.1	8.14	0.92		7.4		.6	6		"
25	10/31	832A / 840A	"	18.0	16.39	0.38		6.2		.6	7		"
26	11/7	856A / 904A	"	18.0	15.38	0.34		5.2		.6	6		"
27	11/14	850A / 858A	"	17.0	11.65	0.40		4.6		.6	7		"
28	11/20	1044A / 1051A	"	7.0	6.05	0.96		5.8		.6	5		"
29	11/28	1028A / 1035A	"	9.0	7.25	1.01		7.3		.6	5		"
30	12/5	930A / 939A	"	9.0	7.30	0.88		6.5		.6	5		"
31	12/12	917A	"	14.0	13.56	0.90		12.2		.6	7		"
32	7/31	842A / 850A	"	11.0	10.02	0.96		9.6		S	6		"
33	8/7	815A / 824A	"	13.0	11.85	1.10		13.3		S	7		"
34	8/13	843A / 852A	"	10.0	8.89	0.92		8.2		.6	8		"
35	8/20	847A / 857A	"	11.5	9.10	0.90		8.2		.6	7		"
36	8/27	1017A / 1027A	Bonadiman	15.0	9.96	0.89		8.8		.6	4		FC 40
37	9/3	9184 / 927A	"	14.0	9.66	1.15		11.1		.6	4		"
38	9/11	815A / 822A	Moon	10.0	8.90	0.84		7.5		.6	6		FC 22
39	9/18	820A / 826A	"	10.0	8.82	0.86		7.5		.6	5		"
40	9/25	830A / 837A	"	10.0	9.60	1.01		9.7		.6	5		FC 42

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER DRAINAGE AREA

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
			PACOIMA WASH MAIN CHANNEL below Headworks										
5	12/13	1250P / 1255P	Luce	6.1	1.35	1.41		1.9		.6	6		FC 39
6	2/24	405P / 412P	Luce-Pardieck	31.0	16.5	4.06		66.6		.6	10		"
7	7/5	413P / 420P	" "	19.0	15.4	2.44		37.6		.6	9		"
			PACOIMA WASH SPREADING GROUNDS OUTLET										
4	3/8	456P / 504P	Luce-Pardieck	Two Channels				26.4		.6	8		FC 39
			PACOIMA WASH near Woodman Avenue										
3	2/26	1250P / 100P	Luce-Miller	49.0	33.26	2.63		87.5		.6	12		FC 39
4	3/1	355P / 410P	Luce	27.5	21.53	3.70		79.4		.6	9		"
5	3/7	838A / 852A	Luce-Pardieck	63.0	68.33	4.80		328.		.6	14		"
6	3/8	202P / 212P	" "	Two Channels				134.		.6	13		"
7	3/13	200P / 230P	Luce	47.5	38.69	3.83		148.		.6	13		"
			PARTHENIA STREET RUNOFF at Pacoima Wash										
6	2/22	801A / 808A	Luce-Pardieck	5.0	5.98	3.25		19.4		.6	5		FC 39
7	2/24	425P / 427P	" "	6.0	1.55	1.10		1.7		.6	4		"
8	3/5	1100A / 1105A	" "	4.5	1.91	2.45		4.7		.6	6		"
			PACOIMA WASH near Van Owen Blvd.										
2	3/7	951A / 1014A	Luce-Pardieck	Two Channels				269.		.6	21		FC 39
3	3/8	400P / 410P	" "	44.0	31.9	3.64		116.		.6	13		"
4	3/8	432P / 442P	" "	45.0	39.8	4.73		188.		.6	13		"
5	3/13	345P / 400P	Luce	29.0	19.5	4.19		81.6		.6	11		"
			BIG TUJUNGA CREEK, Inflow to Dam No. 1 Reservoir										
111	10/3	130P / 135P	Turner	4.0	0.60	1.10		0.65		.6	5		FC 5
112	10/10	1125A / 1130A	"	5.5	1.00	0.74		0.74		.6	6		"
113	11/7	230P / 235P	"	3.2	0.79	1.43		1.1		.6	6		"
114	12/5	225P / 231P	"	5.5	1.09	1.18		1.3		.6	6		"
115	1/9	1030A / 1040A	"	9.0	2.45	3.36		8.2		.6	5		"
116	1/23	123OP / 124OP	"	9.0	4.03	2.08		8.4		.6	5		"
117	2/5	250P / 300P	"	13.0	4.66	1.88		8.8		.6	7		"
118	7/3	425P / 440P	"	20.5	13.4	1.79		23.8		.6	11		"
119	7/10	2 50P / 305P	Turner & Robertson	13.5	9.84	2.26		22.3		.6	8		"
120	7/17	225P / 240P	Turner	15.5	10.8	1.52		16.4		.6	9		"
121	7/24	1225P / 124OP	"	15.5	12.5	1.23		15.4		.6	9		"
122	7/31	245P / 300P	"	16.0	13.1	1.02		13.4		.6	9		"
123	8/7	255P / 310P	"	15.2	12.7	0.89		11.3		.6	11		"
124	8/14	1100A / 1115A	"	16.0	12.4	0.92		11.4		.6	10		"
125	8/20	1215P / 123OP	Luce	12.0	4.37	2.40		10.5		.6	7		FC 39
126	9/4	240P / 255P	Turner	8.5	4.91	1.96		9.6		.6	9		FC 5
127	9/11	220P / 230P	Turner & Robertson	14.5	7.83	1.17		9.2		.6	8		"
128	9/18	200P / 210P	" "	14.5	8.29	1.04		8.6		.6	8		"
129	9/25	1050A / 1105A	Turner	12.0	7.10	1.22		8.7		.6	9		"
			BIG TUJUNGA CREEK below Wildwood										
1	4/8	200P / 215P	Turner	36.0	50.8	2.55		129.		.6	9		FC 5
2	4/20	900A / 910A	"	7.0	35.1	6.26		220.		.6	3		"

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER DRAINAGE AREA

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1941

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 above Hansen Dam (Inflow)										
10	5/13	213P 235P	Haig	Three Channels				155.		.6	20		FC 44
11	5/14	715A 738A	"	"				145.		.6	15		"
12	5/14	1027A 1045A	Haig & Brown	36.0	55.5	2.77		153		.6	15		"
13	5/14	405P 425P	" "	Three Channels				141.		.6	20		"
14	5/20	950A 1016A	" "	40.0	45.3	2.63		119.		.6	20		FC 33
15	5/20	105P 135P	Haig	40.0	43.9	2.76		121.		.6	20		"
16	5/20	418P 445P	"	40.0	48.2	2.39		115.		.6	20		"
17	5/20	618P 645P	"	40.0	50.7	2.22		114.		.6	20		"
18	5/21	1005A 1030A	"	40.0	44.6	2.74		122.		.6	20		"
19	5/21	1035A 1110A	"	40.0	50.8	2.52		128.		.6	20		35549
20	5/21	115P 145P	"	40.0	49.1	2.57		126.		.6	22		FC 33
21	5/21	318P 348P	"	40.0	47.9	2.44		117.		.6	20		"
22	5/21	458P 528P	"	40.0	49.6	2.28		113.		.6	20		"
23	8/13	835A 855A	Turner	21.5	9.93	1.44		14.3		.6	13		FC 5
			LOS ANGELES RIVER, LAWD Main Spreading Canal										
78	10/10	1132A 1150A	Bollinger	Three Channels				25.8		.6	18		FC 6
79	10/17	1255P 115P	"	"				25.4		.6	18		"
80	10/24	1133A 1150A	"	"				27.3		.6	18		"
81	10/31	1120A 1140A	"	"				27.1		.6	18		"
82	11/7	1232P 1250P	"	"				25.2		.6	18		"
83	11/14	410P 425P	"	"				25.0		.6	18		"
84	11/20	132P 150P	"	"				28.2		.6	18		"
85	11/28	1233P 1253P	"	"				26.7		.6	18		"
86	12/5	1230P 1250P	"	"				26.0		.6	18		"
87	12/12	100P 120P	"	"				26.5		.6	18		"
88	6/26	430P 445P	"	"				41.8		.6	12		"
89	7/3	100P	"					0					
90	7/10	105P 125P	"	"				40.5		.6	12		FC 6
91	7/17	137P 153P	"	"				37.8		.6	12		"
92	7/24	140P 155P	"	"				40.3		.6	12		"
93	7/31	130P 145P	"	"				37.8		.6	12		"
94	8/7	145P 200P	"	"				38.0		.6	12		"
95	8/14	1101A 1107A	Moon	5.0	7.00	0.47		3.3		.6	4		FC 22
96	8/21	228P 237P	"	5.0	12.0	2.80		33.5		.6	2		"
97	8/28	107P 115P	Bollinger	5.0	12.6	2.91		36.7		.6	6		FC 6
98	9/4	155P 205P	"	5.0	13.5	2.79		37.7		.6	6		"
99	9/11	127P 136P	Bollinger	5.0	13.2	2.76		36.5		.6	6		FC 6
100	9/18	235P 245P	"	5.0	12.8	2.78		35.6		.6	6		"
101	9/25	230P 245P	"	Two Channels				36.2		.6	12		"
			ARROYO SECO above Millard Creek										
60	4/23	310P 320P	Lindsay	22.3	19.1	2.93		55.7		.6	9		FC 28
61	5/5	1110A	Doane-Lindsay					33.3					FWD
62	5/8	1230P 1248P	Lindsay	9.5	8.05	2.54		20.4		.6	9		FC 28

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										
7	12/24	1008A 1015A	Lindsay-Keim	Two Channels				93.3		.6	7		FC 28
8	3/27	808A 822A	Haig	20.5	15.6	2.72		42.5		.6	8		FC 33
9	5/8	130P 140P	Lindsay	6.8	5.84	1.68		9.8		.6	7		FC 28
10	5/12	120P 130P	"	13.0	5.00	1.28		6.4		.6	7		"
11	5/19	1117A 1125A	"	10.0	3.44	1.34		4.6		.6	5		"
12	5/26	245P 255P	"	8.0	2.48	1.49		3.7		.6	7		"
13	6/2	115P 130P	"	Two Channels				13.0		.6	14		"
14	6/9	1115A 1120A	"	1.5	0.20	0.85		0.17		.6	3		"
15	6/16	125P	"					0.1		Est			
			ARROYO SECO below Devil's Gate Dam										
51	2/17	912A 922A	Lindsay-Keim	50.0	24.2	10.4		251.		.6	6		FC 28
52	2/17	932A 945A	" "	50.0	25.5	10.0		256.		.6	6		"
53	2/18	1155A 1210P	Lindsay	50.0	22.8	9.74		222.		.6	6		"
54	2/19	1150A 1157A	"	27.5	8.03	8.91		71.5		.6	8		"
55	2/19	210P 220P	"	11.0	7.85	2.36		18.5		.6	7		"
56	2/19	315P 333P	"	27.0	17.3	2.25		39.0		.6	13		"
57	2/20	315A 320A	Lindsay-Keim	50.0	40.0	14.0		558.		Floats			
58	2/20	300P	" "	50.0	70.0	18.7		1310.			"		
59	2/20	735P	" "	50.0	95.0	24.2		2300.			"		
60	2/20	825P 826P	" "	50.0	125.	26.1		3260.			"		
61	2/21	1149A 1155A	" "	50.0	42.5	14.1		600.			"		
62	2/22	1210A 1212A	" "	50.0	60.0	16.0		960.			"		
63	2/22	550P	" "	50.0	35.0	12.7		444.			"		
64	2/23	1220P 1225P	Lindsay	50.0	22.2	11.3		250.		.6	6		FC 28
65	2/25	750A 802A	Haig	50.5	18.1	9.17		166.		.6	8		FC 33
66	2/26	752A 808A	"	50.3	14.7	8.31		122.		.6	10		"
67	2/26	355P 406P	Lindsay	50.0	11.0	8.05		88.5		.6	10		FC 28
68	2/28	1218P 1223P	"	20.0	4.38	8.72		38.2		.6	9		"
69	2/28	1240P 1254P	"	Two Channels				22.2		.6	10		"
70	3/1	935A 940A	Lindsay-Keim	50.0	38.5	13.0		501.		Floats			
72	3/3	340P 345P	Lindsay	50.0	42.5	12.0		511.		Floats			
73	3/4	1125P	Lindsay-Keim	50.0	55.0	15.0		827.			"		
74	3/7	710A 752A	Haig	50.0	25.8	11.6		299.		.6	6		FC 33
75	3/8	515P 525P	Lindsay-Ingram	25.5	8.60	8.49		73.0		.6	11		FC 28
76	3/11	823A 833A	Haig	50.0	15.0	8.52		128.		.6	7		FC 33
77	3/11	847A 857A	"	27.0	10.8	8.86		96.0		.6	9		"
78	3/11	400P 413P	"	37.0	29.3	14.5		425.		Floats			
79	3/12	925P 945P	Ingram-Keim	25.0	9.76	9.41		91.8		.6	8		FC 28
80	3/12	1000	" "	50.0	12.0	6.00		72.0		Floats			
81	3/16	327P 343P	Lindsay-Ingram	30.0	11.9	10.1		120.		.6	10		FC 28
82	3/18	815A 827A	Lindsay	50.0	13.0	7.85		102.		.6	10		"
83	3/19	941A 955A	"	50.0	11.4	8.18		93.2		.6	10		"
84	3/20	720A 732A	Haig	24.5	8.79	9.31		81.8		.6	8		FC 33
85	3/21	111P 128P	Moon	26.3	8.46	9.93		84.0		.6	13		FC 22
86	3/24	1258P 108P	Haig	21.0	6.50	9.77		63.5		.6	9		FC 33
87	3/27	740A 746A	"	6.5	0.68	5.02		3.4		S	5		"
88	3/29	108P 118P	"	28.0	11.8	8.48		100.		.6	9		"
89	3/30	1240P 1256P	"	23.0	7.42	8.66		64.3		.6	11		"
90	3/31	235P 250P	Lindsay-Keim	50.0	17.6	10.1		178.		.6	10		FC 28
91	4/1	308P 325P	Lindsay	51.0	33.7	3.50		118.		.6	14		"
92	4/2	750P 804P	Haig	26.5	10.4	12.4		129.		.6	9		FC 33

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 41

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			ARROYO SECO below Devil's Gate Dam										
93	4/4	416P / 430P	Haig	50.5	15.2	8.83		134.		.6	10		FC 33
94	4/5		Lindsay-Keim	50.0	35.0	13.2		463.		Floats			
95	4/5	310P / 315P	Haig	50.0	35.0	12.9		450.		"			
96	4/7	840A / 852A	"	50.5	16.7	9.28		154.		.6	10		FC 33
97	4/9	128P / 142P	"	26.0	11.6	10.1		117.		.6	11		"
98	4/12	1110A / 1122A	"	50.5	16.2	9.20		149.		.6	8		"
99	4/15	230P / 242P	"	50.3	13.6	8.82		120.		.6	8		"
100	4/17	840A / 852A	"	27.0	10.9	10.6		116.		.6	9		"
101	4/21	848A / 858A	"	22.0	7.3	9.55		69.7		.6	10		"

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 41

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.
			SAWPIT CREEK, Inflow to F.C. Dam										
1	3/21	314P / 324P	Moon	8.5	3.75	1.65		6.2		.6	7		FC 22
2	3/25	1105A / 1112A	Green	6.0	3.82	1.26		4.8		.6	7		FC 19
3	3/25	1135A / 1140A	"	7.0	4.33	1.15		5.0		.6	8		"
4	4/8	110P / 120P	"	7.7	4.60	2.09		9.6		.6	8		"
5	4/8	230P / 240P	"	7.7	4.28	2.34		10.0		.6	8		"
6	4/17	112P / 120P	Haig	6.5	3.41	1.88		6.4		.6	8		FC 33
7	4/17	206P / 212P	"	6.3	3.16	2.22		7.0		.6	8		"
8	4/21	1130A / 1138A	"	5.5	2.95	2.03		6.0		.6	8		"
9	4/21	1145A / 1153A	"	7.5	3.46	1.62		5.6		.6	6		"
10	4/22	140P / 200P	Green	7.3	3.12	1.57		4.9		.6	9		FC 19
11	5/6	1105A / 1115A	"	7.0	2.78	1.37		3.8		.6	8		"
12	5/6	1130A / 1145A	"	7.5	2.87	1.18		3.4		.6	9		"
13	5/20	225P / 235P	"	7.1	2.21	0.95		2.1		.6	7		"
14	6/17	235P / 240P	"	3.6	0.81	0.41		0.33		.6	7		"
			SAWPIT CREEK, Outflow from F.C. Dam										
1	5/6	240P / 250P	Green	5.0	2.67	1.87		5.0		.6	7		FC 19
2	6/25	919A / 926A	Lindsay	2.3	0.46	0.52		0.24		.6	5		FC 28
3	7/1	228P / 235P	Green	3.5	0.99	0.25		0.25		.6	7		FC 19
5	7/10	851A / 855A	Lindsay	1.5	0.10	0.60		0.06		.6	3		FC 28
6	7/16	220P / 224P	Lindsay	2.0	0.40	0.50		0.21		.6	4		FC 28
7	7/23	1220P / 1226P	Haig	2.0	0.33	0.57		0.21		.6	4		FC33
8	7/29	1010A / 1020A	Waddicor	2.0	0.44	1.14		0.50		.6	4		FC 19
9	7/30	1112A / 1127A	Haig	2.3	0.67	0.98		0.66		.6	7		FC 33
10	8/6	920A / 927A	Lindsay	3.2	0.86	1.04		0.90		.6	6		FC 28
11	8/12	140P / 150P	Green	4.0	1.47	0.82		1.2		.6	8		FC 19
12	8/12	200P / 205P	"	4.0	1.47	0.82		1.2		.6	5		"
13	8/12	305P / 312P	Lindsay	3.2	0.92	1.04		0.96		.6	6		FC 28

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.
			SANTA ANITA CREEK, Inflow to F.C. Dam										
9	3/19	325P / 340P	Green	19.0	22.5	1.92		43.2		.6	10		FC 19
10	4/17	315P / 335P	"	25.0	27.7	2.29		63.4		.6	16		"
11	5/14	1150A / 1205P	"	14.0	14.7	1.71		25.2		.6	14		"
			SANTA ANITA CREEK below F.C. Dam (Outflow)										
71	11/27	155P / 200P	Green	3.5	2.40	0.95		2.3		.6	7		FC 19
72	12/5	920A / 930A	Lindsay	8.3	4.41	2.20		9.7		.6	8		FC 28
73	12/19	940A / 949A	"	7.7	2.81	1.74		4.9		.6	7		"
74	12/23	225P / 250P	Green	12.3	12.6	1.99		25.1		.6	12		FC 19
75	1/2	930A / 940A	Lindsay	6.4	1.50	1.11		1.7		.6	7		FC 28
76	1/8	915A / 923A	"	6.5	2.75	1.02		2.8		.6	6		"
77	1/30	1018A / 1027A	"	6.5	2.36	1.97		4.7		.6	7		"
78	2/19	950A / 1000A	Green	6.8	5.52	1.72		9.5		.6	7		FC 19
79	2/26	1135A / 1150A	Lindsay	21.7	23.8	2.43		57.8		.6	11		FC 28
80	2/28	1020A / 1030A	"	16.5	14.0	2.21		30.9		.6	9		"
81	3/15	1125A / 1135A	Lindsay-Ingram	18.9	19.9	2.02		40.2		.6	10		"
82	3/17	830A / 845A	Lindsay	21.0	25.6	2.14		54.8		.6	12		"
83	3/24	336P / 347P	Haig	17.2	17.6	2.63		46.3		.6	11		FC 33
84	3/29	557A / 615A	Haig-Trentham	22.3	26.6	1.90		50.5		.6	14		"
85	3/31	245P / 300P	" "	20.5	23.4	2.16		50.6		.6	12		"
86	4/3	1048A / 1100A	Haig	21.0	23.1	2.35		54.2		.6	13		"
87	4/4	210P / 224P	"	21.4	27.2	2.34		63.8		.6	11		"
88	4/5	212P / 225P	"	17.3	16.7	2.72		45.3		.6	11		"
89	4/7	950A / 1003A	Lindsay	21.0	23.8	2.22		52.9		.6	11		FC 28
90	4/9	1111A / 1130A	Haig	21.0	27.1	2.08		56.4		.6	13		FC 33
91	4/9	225P / 237P	"	21.0	28.2	2.21		62.4		.6	12		"
92	4/11	955A / 1006A	Haig-Trentham	21.5	35.2	2.68		94.6		.6	10		"
93	4/15	400P / 412P	Haig	21.5	36.4	2.55		92.9		.6	10		"
94	4/17	1140A / 1153A	"	21.7	20.5	1.77		36.3		.6	11		"
95	4/21	1015A / 1028A	"	21.0	26.8	2.12		56.8		.6	13		"
96	4/23	1130A / 1144A	Lindsay	20.3	23.5	2.22		52.1		.6	11		FC 28
97	4/28	1040A / 1055A	"	20.5	19.0	1.84		34.9		.6	11		"
98	5/1	1030A / 1040A	"	20.3	24.4	2.16		52.7		.6	11		"
99	5/2	350P / 403P	Haig	21.3	21.3	1.76		37.5		.6	13		FC 33
100	5/5	310P / 320P	Lindsay	20.0	23.6	2.23		52.6		.6	10		FC 28
101	5/8	432P / 445P	"	21.0	22.6	2.08		46.9		.6	9		"
102	5/9	633P / 647P	Haig	21.3	26.1	2.18		56.8		.6	13		FC 33
103	7/10	1020A / 1030A	Lindsay	6.1	1.79	1.45		2.6		.6	7		FC 28
104	7/16	955A / 1003A	"	6.6	2.02	1.39		2.8		.6	7		"
105	7/23	1047A / 1100A	Haig	9.5	2.74	1.28		3.5		.6	8		FC 33
106	7/30	938A / 947A	"	9.0	2.65	1.32		3.5		.6	9		"
107	8/6	1130A / 1140A	Lindsay	5.8	1.67	1.38		2.3		.6	6		FC 28
108	8/12	140P / 150P	"	6.1	1.68	1.50		2.4		.6	6		"
109	8/20	255P / 305P	"	6.4	1.57	1.21		1.9		.6	6		"
110	8/28	846A / 855A	"	7.1	1.77	1.43		2.5		.6	6		"
111	9/3	953A / 1000A	"	7.2	2.19	1.51		3.3		.6	6		"
112	9/11	908A / 916A	"	6.5	2.35	1.79		4.2		.6	6		"
113	9/18	145P / 152P	Haig	7.0	1.95	1.27		2.5		.6	7		"
114	9/25	145P / 156P	Mayer-Haig	11.8	3.70	1.45		5.4		.6	8		FC 33

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

DISCHARGE MEASUREMENTS OF RIO HONDO DRAINAGE AREA

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1941

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 above Clamshell Canyon										
48	12/17	1140A / 1150A	Lindsay-Keim	11.5	12.2	2.39		29.2		.6	9		FC 28
49	12/18	930A / 943A	Lindsay	13.5	8.98	2.55		22.9		.6	9		"
50	12/23	210P / 222P	Lindsay-Keim	13.5	8.25	3.04		25.1		.6	9		"
51	12/24	133P / 145P	" "	14.0	10.4	2.58		26.8		.6	8		"
52	12/27	1100A / 1110A	Lindsay	9.5	6.22	1.63		10.2		.6	8		"
53	1/24	1215P / 1225P	Lindsay-Keim	18.0	13.5	2.29		31.0		.6	9		"
54	2/11	137P / 150P	" "	18.0	12.6	2.52		31.8		.6	9		"
55	2/11	450P / 500P	" "	20.0	11.1	2.40		26.6		.6	10		"
56	2/12	842A / 855A	Lindsay	19.5	9.11	2.26		20.6		.6	10		"
57	2/14	845A / 855A	"	17.5	8.02	2.13		17.1		.6	10		"
58	2/15	1038A / 1050A	"	18.0	7.96	2.09		16.6		.6	9		"
59	2/16	835A / 845A	Lindsay-Keim	22.0	13.4	2.62		35.1		.6	11		"
60	2/17	1045A / 1056A	" "	21.0	24.4	3.16		77.2		.6	9		"
61	2/18	1025A / 1038A	Lindsay	24.0	21.6	3.25		72.3		.6	9		"
62	2/18	700P / 715P	"	16.0	12.0	3.17		38.0		.6	8		"
63	2/19	927A / 936A	"	14.0	6.04	1.75		10.6		.6	8		"
64	3/11	950A / 1005A	Haig	28.0	28.0	2.84		79.7		.6	11		FC 33
65	3/12	840A / 852A	"	23.5	19.2	2.66		51.3		.6	11		"
66	3/13	700P / 720P	Haig-Trentham	26.0	31.6	3.00		94.7		.6	12		"
67	3/21	225P / 237P	Moon	26.0	28.0	1.45		40.7		.6	10		FC 22
68	4/6	500P / 515P	Lindsay	23.0	30.4	3.04		92.5		.6	9		FC 28
69	5/9	1220P / 1232P	"	11.5	10.3	1.51		15.6		.6	9		"
70	5/12	1043A / 1053A	Lindsay	13.0	16.4	2.77		45.4		.6	7		FC 28
71	5/13	245P / 255P	"	11.5	12.5	2.13		26.6		.6	7		"
72	5/15	240P / 250P	"	13.0	4.46	6.15		27.4		.6	6		"
73	5/19	127P / 137P	"	14.5	9.57	4.12		39.4		.6	7		"
74	5/22	140P / 150P	"	11.0	7.67	2.29		17.6		.6	9		"
75	5/26	1125A / 1135A	"	11.0	7.31	2.02		14.8		.6	9		"
76	5/29	220P / 230P	"	11.5	7.36	2.09		15.4		.6	8		"
77	6/2	1045A / 1055A	"	11.3	7.29	2.06		15.0		.6	8		"
78	6/5	330P / 340P	"	11.5	6.59	2.06		13.6		.6	8		"
79	6/9	828A / 838A	"	11.3	6.49	1.94		12.6		.6	9	*	"
80	6/12	218P / 230P	"	11.0	5.90	1.83		10.8		.6	10		"
81	6/16	1015A / 1025A	"	11.3	6.53	1.68		11.1		.6	8		"
82	6/25	1020A / 1032A	"	10.5	6.07	1.51		9.1		.6	8		"
83	7/2	1034A / 1043A	"	11.5	3.49	2.06		7.2		.6	7		"
			LITTLE SANTA ANITA CREEK, Inflow to F.C. Dam										
1	3/27	900A / 907A	Green	7.4	3.90	1.01		3.94		.6	8		FC 19
2	3/31	1200M / 1210P	"	7.0	4.03	2.61		10.5		.6	7		"
3	4/3	825A / 835A	"	7.0	4.00	1.78		7.1		.6	7		"
			SANTA ANITA CREEK near Arrow Highway										
3	2/18	630P / 640P	Lindsay	20.0	5.72	3.39		19.4		.6	7		FC 28
4	2/26	1256P / 105P	"	8.5	2.87	3.87		11.1		.6	8		"
5	2/27	800A	Haig					No Flow					
6	3/17	230P / 235P	"	1.7	0.78	4.74		3.7		.6	4		FC 33
7	3/18	142P / 146P	"	2.6	1.22	3.93		4.8		.6	4		"
8	3/21	1125A / 1137A	Ingram	9.0	2.92	3.12		9.1		.6	9		FC 18
9	3/24	1217P / 1232P	"	12.0	2.37	2.07		4.9		.6	11		"
10	3/28	1034A / 1047A	"	8.0	2.10	3.05		6.4		.6	8		"
11	4/2	1017A / 1029A	"	18.5	4.75	2.99		14.2		.6	9		"
12	4/6	1115A / 1130A	"	25.5	10.6	3.55		37.6		.6	10		"
13	4/7	1052A / 1100A	Lindsay	11.0	1.88	2.82		5.3		.6	6		FC 28
14	4/9	1048A / 1057A	Ingram	14.0	3.50	3.37		11.8		.6	8		FC 18
15	4/10	1055A	Lindsay					20.±		Est.			
16	4/15	912A / 922A	Ingram	19.0	9.85	5.12		50.4		.6	9		FC 18
17	4/18	1135A / 1150A	Lindsay	39.0	12.9	3.62		46.7		.6	11		FC 28
18	5/1	242P / 250P	"	17.0	5.18	3.49		18.1		.6	6		"
19	5/8	350P / 400P	"	16.0	4.08	3.04		12.4		.6	6		"
20	5/28	1250P	"					3.0		Est.			
21	6/5	305P	"					0.5		Est.			
			EATON CREEK above Eaton Dam (Inflow)										
6	2/26	300P / 316P	Lindsay & Waddicor	11.5	8.20	2.40		19.7		.6	11		FC 28
7	3/24	130P / 138P	Haig	14.5	9.46	1.98		18.7		.6	7		FC 33
8	3/27	846A / 854A	"	13.5	8.41	2.04		17.2		.6	7		"
9	3/27	200P / 215P	Green	14.0	8.72	1.62		14.1		.6	9		FC 19
10	3/27	310P / 318P	"	7.4	6.91	2.21		15.3		.6	8		"
11	4/3	826A / 838A	Haig	16.5	13.2	2.06		27.2		.6	9		FC 33
12	4/11	1127A / 1135A	Haig-Trentham	19.0	14.6	4.05		59.1		.6	9		"
13	5/1	1003A / 1018A	Green & Waddicor	20.7	9.90	1.76		17.4		.6	12		FC 19
14	5/8	1105A / 1116A	" "	10.0	5.93	1.42		8.4		.6	9		"
15	5/15	945A / 957A	Green	8.0	5.08	1.24		6.3		.6	10		"
16	5/19	1205P / 1216P	Lindsay	7.5	3.53	1.70		6.0		.6	7		FC 28
17	5/22	1020A / 1029A	Green	8.0	2.88	0.66		1.9		.6	8		FC 19
18	5/26	122P / 130P	Lindsay	Two Channels				0.33		.6	8		FC 28
19	6/2	1225P / 1233P	"	6.2	2.64	1.44		3.8		.6	7		"
20	6/5	1028A / 1035A	Green	8.0	4.16	1.14		4.7		.6	9		FC 19
21	6/9	1020A / 1027A	Lindsay	6.7	2.88	0.90		2.6		.6	6		FC 28
22	6/12	1020A / 1025A	Green	6.0	1.90	0.37		0.71		.6	6		FC 19
23	6/16	1120A / 1128A	Lindsay	4.8	1.15	0.70		0.80		.6	6		FC 28

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO._____

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER DRAINAGE AREA

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1941

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 - WEST FORK above Bear Creek										
5	7/31	302P / 320P	Brown	20.0	21.6	1.32		28.5		.6	10		FC 11
6	8/25	530P / 546P	Cooper	31.2	19.5	1.19		23.2		.6	11		"
			BEAR CREEK above Junction with San Gabriel River										
10	8/25	505P / 521P	Cooper	21.0	19.6	0.46		9.0		.6	9		FC 11
			SAN GABRIEL RIVER - WEST FORK between Bear Cr. & North Fork										
2	7/31	215P / 230P	Brown	20.0	20.1	2.21		44.4		.6	11		FC 11
3	8/25	605P / 623P	Cooper	41.0	28.6	1.08		30.7		.6	10		"
			SAN GABRIEL RIVER - NORTH FORK above Junction with West Fork										
10	7/31	145P / 158P	Brown	17.4	10.9	1.61		17.6		.6	9		FC 11
11	8/25	400P / 414P	Cooper	17.0	9.71	1.38		13.4		.6	9		"
			SAN GABRIEL RIVER below F.C. Dam No. 1 (Outflow)										
122	1/18	945A / 1005A	Cooper	23.8	21.3	0.86		18.3		.6	12		FC 11
123	1/31	240P / 300P	"	44.5	30.8	1.59		49.1		.6	10		"
124	2/3	1120A / 1138A	"	44.5	30.3	1.61		48.8		.6	10		"
125	2/5	1100A / 1118A	"	44.8	30.0	1.59		47.8		.6	10		"
126	2/6	930A / 948A	"	44.5	29.6	1.61		47.7		.6	10		FC 18
			FISH CREEK above Junction with San Gabriel River										
15	2/27	850A / 902A	Lindsay	12.0	7.75	2.21		17.1		.6	10		FC 28
16	3/7	905A / 920A	Lindsay	Two channels				60.1		.6	15		FC 28
17	3/11	1058A / 1108A	Haig	12.5	10.3	2.59		26.7		.6	8		FC 33
18	3/19	1003A / 1016A	Ingram	17.0	12.5	2.22		27.7		.6	8		FC 18
19	3/21	1140A / 1150A	Lindsay	15.5	10.4	2.08		21.6		.6	8		FC 28
20	3/24	1230P / 1240P	Lindsay	15.5	8.91	1.77		15.8		.6	8		FC 28
21	3/28	1010A / 1020A	Lindsay	15.0	6.71	1.94		13.0		.6	7		FC 28
22	4/1	1100A / 1112A	Lindsay	16.3	13.0	2.66		34.6		.6	8		FC 28
23	4/2	1005A / 1015A	Lindsay	16.0	13.3	2.83		37.6		.6	8		FC 28
24	4/3	1210P / 1222P	Haig	17.0	13.7	2.70		37.1		.6	9		FC 33
25	4/6	1125A / 1132A	Lindsay	16.5	13.9	3.13		43.5		.6	8		FC 28
26	4/9	1050A / 1100A	Lindsay	16.5	11.4	2.76		31.5		.6	8		FC 28
27	4/15	950A / 1000A	Lindsay	16.0	12.4	2.72		33.7		.6	8		FC 28
28	4/17	1040A / 1050A	Lindsay	15.5	12.1	2.45		29.6		.6	8		FC 28
29	4/24	950A / 1000A	Lindsay	15.5	9.79	1.87		18.3		.6	8		FC 28
30	5/1	325P / 335P	Lindsay	14.5	8.30	1.96		16.3		.6	7		FC 28
31	5/8	856A / 900A	Lindsay	11.5	6.23	1.53		9.5		.6	7		FC 28
32	5/15	1103A / 1113A	Lindsay	11.0	4.38	1.12		4.9		.6	8		FC 28
33	5/22	1136A / 1145A	Lindsay	8.0	3.20	1.12		3.6		.6	6		FC 28
34	5/28	925A / 931A	Lindsay	4.2	1.97	1.47		2.9		.6	4		FC 28
35	6/5	1003A / 1010A	Lindsay	4.5	1.92	1.36		2.6		.6	4		FC 28
			BIG DALTON CREEK, Inflow to F.C. Dam										
1	1/4	115P / 120P	Green	2.0	0.30	1.00		0.30		.6	4		FC 19
2	5/10	950A / 1045A	"	Two Channels				3.8		.6	11		"

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 DALTON CREEK, Inflow to Spreading Area										
2	3/8	1115A / 1130A	Brewster	9.0	6.62	3.44		22.8		.6	6		FC 24
3	3/28	910A / 925A	"	Two Channels				13.1		.6	9		"
4	4/7	230P / 240P	"	9.0	3.79	1.56		5.9		.6	5		"
5	4/14	110P / 120P	"	8.0	3.60	3.39		12.2		.6	4		"
6	4/21	1040A / 1050A	"	8.0	3.74	3.69		13.8		.6	5		"
7	4/28	1120A / 1128A	"	5.0	3.36	0.96		3.2		.6	5		"
8	5/5	1115A / 1125A	"	6.0	3.20	0.90		2.9		.6	6		"
9	5/12	400P / 408P	"	4.0	1.30	0.75		1.0		.6	4		"
			SAN DIMAS CREEK above San Dimas Dam (Inflow)										
2	11/22	325P / 330P	Green	3.2	1.02	0.58		0.59		.6	7		FC 19
3	12/6	233P / 245P	"	3.0	0.99	0.55		0.54		.6	6		"
4	12/13	333P / 340P	"	3.0	1.08	0.67		0.72		.6	6		"
5	12/20	415P / 425P	"	2.5	0.94	1.49		1.4		.6	5		"
6	12/20	430P / 438P	"	2.5	1.04	1.54		1.6		.6	5		"
7	12/27	350P / 400P	"	5.9	2.18	1.13		2.5		.6	8		"
8	1/3	306P / 315P	"	5.0	1.79	1.51		2.7		.6	6		"
9	1/17	226P / 237P	"	3.6	2.02	0.89		1.8		.6	5		"
10	5/9	340P / 350P	"	13.0	9.52	1.52		15.1		.6	9		"
11	5/23	413P / 425P	"	13.0	9.05	1.13		10.2		.6	13		"
			SAN DIMAS CREEK below San Dimas Dam (Outflow)										
26	1/24	1105A / 1115A	Van der Goot	6.0	3.96	0.90		3.6		.6	6		FC 13
27	3/2	1000A / 1020A	"	16.0	24.4	1.92		46.8		.6	8		"
28	3/17	230P / 245P	Brewster	18.0	25.4	1.77		44.9		.6	9		FC 24
29	3/29	515P / 540P	Brewster-Smith	17.0	21.1	2.05		43.3		.6	16		"
30	4/11	320P / 345P	Brewster	17.0	24.4	1.64		40.0		.6	16		"
31	4/16	200P / 220P	"	16.0	25.4	1.85		46.9		.6	16		"
32	4/23	100P / 130P	"	15.0	18.1	1.33		24.0		.6	15		"
33	5/2	505P / 535P	Brewster-Green	18.0	24.6	1.72		42.4		.6	18		"
34	5/15	540P / 600P	Brewster	15.0	17.2	1.04		17.9		.6	13		"
35	5/21	130P / 150P	"	15.0	16.6	0.95		15.7		.6	14		"
36	5/22	545P / 605P	"	14.0	15.3	0.86		13.2		.6	13		"
37	6/4	115P / 135P	"	14.0	13.6	0.69		9.4		.6	13		"
38	8/1	335P / 345P	Waddicor	2.8	3.39	1.95		6.6		.6	5		FC 19
			SAN DIMAS WASH above Puddingstone Diversion Dam										
1	1/10	440P / 447P	Green	5.3	2.32	1.12		2.6		.6	7		FC 19
2	1/17	435P / 444P	"	5.0	2.20	1.05		2.3		.6	6		"
3	1/31	143P / 150P	"	5.0	2.90	1.72		5.0		.6	5		"
4	3/21	600P / 612P	"	13.0	17.1	1.56		26.7		.6	9		"
5	3/28	1005A / 1025A	"	12.0	16.2	1.57		25.4		.6	12		"
6	4/4	1010A / 1030A	"	18.0	21.8	1.61		35.0		.6	10		"
7	4/25	300P / 315P	Green	12.0	15.9	1.21		19.2		.6	10		FC 19
			PUDDINGSTONE DIVERSION CHANNEL (in or below outlet)										
4	3/22	1055P / 1110P	Green	8.5	9.70	2.31		22.4		.6	11		FC 19
5	5/3	345P / 400P	"	14.0	4.84	5.93		28.7		.6	14		"
6	5/17	1110A / 1125A	"	7.6	5.84	1.56		9.1		.6	9		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER DRAINAGE AREA

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
			LIVE OAK CREEK below Live Oak Dam										
27	2/22	540P / 550P	Van der Goot	6.5	5.06	1.89		9.6	.6	6			FC 13
28	2/23	725A / 735A	"	3.2	3.15	1.43		4.5	.6	5			"
29	2/23	1045A / 1055A	"	3.1	2.55	0.75		1.9	.6	6			"
30	2/23	245P / 257P	Green	3.4	2.59	1.31		3.4	.6	7			FC 19
31	3/1	1030A / 1040A	Van der Goot	5.4	2.58	1.84		4.8	.6	10			FC 13
32	3/7	400P / 405P	Green & Butterfield	8.6	5.23	1.87		9.8	.6	6			FC 19
33	3/10	920A / 928A	Brewster	6.0	2.64	0.95		2.5	.6	6			FC24
34	3/17	410P / 420P	Brewster	7.0	4.50	2.20		9.9	.6	7			FC 24
35	3/21	200P / 210P	Green	3.8	1.56	1.03		1.6	.6	8			FC 19
36	4/4	1220P / 1230P	Green-Del Bose	6.5	2.61	1.30		3.4	.6	7			"
37	4/5	1100A / 1110A	Brewster	10.0	3.05	1.64		5.0	.6	6			FC 24
38	4/7	400P / 410P	"	8.0	2.56	1.21		3.1	.6	5			"
39	4/12	500P / 515P	Green	9.0	3.00	1.50		4.5	.6	10			FC 19
40	4/14	240P / 250P	Brewster	10.5	3.67	1.50		5.5	.6	7			FC 24
41	4/16	820A / 825A	Van der Goot & Van der Goot	3.6	1.06	1.60		1.7	.6	7			FC 13
42	4/16	900A / 905A	" "	3.6	1.23	0.98		1.2	.6	7			"
43	4/25	900A / 910A	Green	2.5	0.97	1.24		1.2	.6	5			FC 19
44	4/30	920P / 925P	Van der Goot	1.9	0.99	1.52		1.5	.6	4			FC 13
45	5/16	1005A / 1015A	Green	1.5	0.88	1.59		1.4	.6	6			FC 19
46	5/23	115P / 120P	"	1.5	0.87	1.61		1.4	.6	4			"
47	6/2	525P / 530P	"	1.5	1.06	1.89		2.0	.6	5			"
48	6/2	545P / 600P	"	1.5	0.97	1.75		1.7	.6	5			"
49	6/6	925A / 930A	"	1.5	0.93	1.62		1.5	.6	5			"
50	6/9	550P / 555P	"	1.5	1.04	2.02		2.1	.6	5			"
51	6/11	920A / 930A	Brewster	6.0	2.00	0.75		1.5	.6	6			FC 24
52	6/13	125P / 130P	Green	3.9	1.26	1.43		1.8	.6	4			FC 19
53	6/13	140P / 145P	"	1.9	1.21	1.57		1.9	.6	5			"
54	6/13	145P / 150P	"	1.8	1.31	1.22		1.6	.6	5			"
55	6/20	925A / 930A	Green	2.5	1.31	1.14		1.5	.6	6			FC 19
56	6/20	1230P / 1235P	"	3.0	1.74	1.32		2.3	.6	6			"
			PADUA CREEK above Diversion to Thompson Creek Dam										
1	3/24	315P / 321P	Brewster	4.0	1.30	1.62		2.1	.6	4			FC 24
2	3/29	958A / 1005A	Brewster & Van der Goot	6.0	3.00	1.50		4.5	.6	6			"
3	3/31	1155P / 1202P	Brewster	8.0	3.08	2.12		6.5	.6	4			"
4	4/5	940A / 950A	"	8.0	3.72	1.61		6.0	.6	4			"
5	4/7	500P / 510P	"	8.0	2.48	1.46		3.6	.6	4			"
6	4/9	300P / 310P	"	8.0	2.68	1.26		3.4	.6	4			"
7	4/14	420P / 430P	"	6.0	1.97	1.12		2.2	.6	4			"
8	4/16	430P / 438P	"	6.0	1.53	1.18		1.8	.6	4			"
9	4/21	330P / 336P	"	4.0	0.98	1.12		1.1	.6	4			"
10	4/23	310P / 316P	"	5.0	1.14	0.88		1.0	.6	4			"
11	4/28	130P / 136P	"	4.0	0.80	0.75		0.60	.6	4			"
12	5/5	400P / 403P	"	2.0	0.24	0.25		0.06	.6	2			"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

DISCHARGE MEASUREMENTS OF SAN ANTONIO CANYON DRAINAGE AREA

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1941

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 ANTONIO CREEK, 600 ft. below Station No. F151-R										
12	2/16	915A / 920A	Brewster-Smith	7.0	2.15	1.49		3.2		.6	4		FC 24
13	2/17	215P / 220P	" "	4.0	1.48	2.03		3.0		.6	4		"
14	2/19	300P / 308P	Brewster	5.0	1.66	2.23		3.7		.6	5		"
15	2/25	230P / 236P	"	5.0	2.32	2.28		5.3		.6	5		"
16	2/26	530P / 540P	"	5.0	2.26	2.43		5.5		.6	5		"
17	3/2	925A / 931A	Brewster-Smith	5.0	1.90	2.74		5.2		.6	5		"
18	3/3	935A / 941A	Brewster	5.0	2.26	3.10		7.0		.6	5		"
19	3/5	1124A / 1130A	Brewster-Smith	6.0	2.85	2.70		7.7		.6	4		"
20	3/7	400P / 406P	Brewster	6.0	2.32	2.46		5.7		.6	6		"
21	3/10	1115A / 1123A	"	6.0	3.02	2.82		8.6		.6	4		"
22	3/12	1030A / 1040A	"	7.0	3.30	2.85		9.4		.6	7		"
23	3/14	330P / 340P	Brewster-Smith	5.0	2.21	2.44		5.4		.6	5		"
24	3/17	540P / 550P	Brewster	8.0	3.40	3.15		10.7		.6	4		"
25	3/19	545P / 552P	"	8.0	2.28	2.24		5.1		.6	4		"
26	3/24	100P / 108P	"	8.0	3.28	2.83		9.3		.6	4		"
27	3/26	550P / 600P	"	8.0	2.84	2.43		6.9		.6	4		"
28	3/29	1045A / 1051A	Brewster-Smith	8.0	3.20	2.22		7.1		.6	4		"
29	3/31	1220P / 1226P	" "	8.0	3.56	3.29		11.7		.6	4		"
30	4/2	540P / 546P	Brewster	8.0	3.20	2.50		8.0		.6	4		"
31	4/5	840A / 850A	"	8.0	3.60	3.67		13.2		.6	4		"
32	4/9	500P / 510P	Brewster	8.0	3.08	2.99		9.2		.6	4		FC 24
33	4/11	800A / 810A	"	8.0	2.96	2.84		8.4		.6	4		"
34	4/16	600P / 610P	"	8.0	2.48	2.20		5.5		.6	4		"
35	4/21	220P / 230P	"	8.0	2.28	2.46		5.6		.6	4		"
36	4/23	410P / 420P	"	8.0	2.32	1.81		4.2		.6	4		"
37	4/28	150P / 200P	"	8.0	2.12	1.84		3.9		.6	4		"
38	4/30	930A / 940A	"	8.0	2.32	1.98		4.6		.6	4		"
39	5/7	210P / 220P	"	8.0	2.12	2.07		4.4		.6	4		"
40	5/14	210P / 220P	"	8.0	2.92	2.74		8.0		.6	4		"
41	5/21	445P / 455P	"	8.0	3.80	2.53		9.6		.6	4		"
42	5/28	410P / 418P	"	8.0	3.60	2.69		9.7		.6	4		"
43	6/4	415P / 422P	"	8.0	3.08	2.11		6.5		.6	4		"
44	6/11	1100A / 1106A	"	8.0	2.80	2.32		6.5		.6	4		"
45	6/18	340P / 350P	"	8.0	2.72	1.88		5.1		.6	4		"
46	6/25	210P / 220P	"	8.0	2.40	2.12		5.1		.6	4		"
47	7/2	330P / 340P	"	8.0	2.32	1.51		3.5		.6	4		"
48	7/9	1205P / 1213P	"	6.0	2.26	1.59		3.6		.6	4		"
49	7/16	200P / 210P	"	6.0	1.59	1.70		2.7		.6	4		"
50	7/23	200P / 206P	"	6.0	2.06	0.92		1.9		.6	4		"
51	7/30	310P / 316P	"	6.0	1.44	0.63		0.91		.6	4		"

PERCOLATION MEASUREMENTS

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

Percolation MEASUREMENTS OF PACOIMA WASH

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1941

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 McClay Avenue										
1	2/23	143P / 156P	Luce-Pardieck	51.0	50.7	3.12		158.3		.6	14		FC 39
			500 ft. below Laurel Canyon Blvd.										
2	2/23	227P / 237P	Luce-Pardieck	35.5	30.4	4.14		126.2		.6	11		FC 39
			600 ft. above Spreading Grounds Headworks										
3	2/23	352P / 401P	Luce-Pardieck	34.2	27.6	4.85		134.1		.6	11		FC 39
			250 ft. below Spreading Grounds Headworks										
4	2/23	412P / 418P	Luce-Pardieck	28.5	14.4	4.24		60.5		.6	9		FC 39

PERCOLATION MEASUREMENTS

SET NO. 1

PACOIMA WASH — February 23 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
150P	At McClay Avenue				158.3						
										32.1	
232P	500 ft. below Laurel Canyon Blvd.				126.2						
											7.9 cfs. gain
356P	600 ft. above Sprdg. Grds. Hdwks.				134.1						
										73.6	Diverted to Sprdg. Grounds
415P	250 ft. below Sprdg. Grds. Hdwks.				60.5						

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

Percolation MEASUREMENTS OF BIG TUJUNGA WASH

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1941

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 Glen Oaks Boulevard										
1	12/26	150P / 205P	Bollinger	25.5	15.3	2.99		45.8		.6	10		FC 6
			At San Fernando Road										
2	12/26	225P / 240P	Bollinger	19.5	13.0	2.95		38.4		.6	9		FC 6
			200' above Laurel Canyon Boulevard										
3	12/26	300P / 315P	Bollinger	14.5	9.72	3.97		38.6		.6	8		FC 6
			100' above Sherman Way										
4	12/26	340P / 348P	Bollinger	8.5	1.96	1.99		3.9		.6	6		FC 6

PERCOLATION MEASUREMENTS

SET NO. 1

BIG TUJUNGA WASH — December 26 1940

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
158P	At Glen Oaks Blvd.		F20B-R		45.8						
									7.4		
232P	At San Fernando Rd.				38.4						
											+0.2 c.f.s. gain
308P	200' above Laurel Canyon Blvd.				38.6						
									34.7		
344P	100' above Sherman Way				3.9						

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION
STATION NO.

Percolation MEASUREMENTS OF BIG TUJUNGA WASH

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1941

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 Glen Oaks Boulevard										
1	12/27	855A 905A	Luce	13.5	11.7	3.50		40.9		.6	8		FC 39
			At Laurel Canyon Boulevard										
2	12/27	920A 930A	Luce	19.5	12.0	3.28		39.4		.6	11		FC 39
			At Sherman Way										
3	12/27	945A 955A	Luce	11.4	2.63	1.75		4.6		.6	10		FC 39

PERCOLATION MEASUREMENTS SET NO. 2

BIG TUJUNGA WASH December 27 1940

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
900A	At Glen Oaks Blvd.		F20B-R		40.9						
									1.5		
925A	At Laurel Canyon Blvd.				39.4						
									34.8		
950A	At Sherman Way				4.6						

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION
STATION NO.

Percolation MEASUREMENTS OF BIG TUJUNGA WASH

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1941

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 Glen Oaks Boulevard										
1	12/31	1145A 1155A	Luce	16.8	13.9	3.37		46.8		.6	9		FC 39
			At San Fernando Road										
2	12/31	1210P 1220P	Luce	16.0	13.2	3.12		41.2		.6	9		FC 39
			At Laurel Canyon Boulevard										
3	12/31	1240P 1250P	Luce	20.5	11.7	3.33		39.0		.6	11		FC 39
			At Sherman Way										
4	12/31	100P 120P	Luce	17.0	2.49	1.32		3.3		.6	10		FC 39
			At Victory Boulevard										
5	12/31	140P	Luce					0.10		Est.			
			700 ft. below Victory Boulevard										
6	12/31	150P	Luce					No flow		Est.			

PERCOLATION MEASUREMENTS SET NO. 3

BIG TUJUNGA WASH December 31 1940

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
1150A	At Glen Oaks Blvd.		F20B-R		46.8						
									5.6		
1215P	At San Fernando Rd.				41.2						
									2.2		
1245P	At Laurel Canyon Blvd.				39.0						
									35.7		
110P	At Sherman Way				3.3						
									3.2	Est.	
140P	At Victory Blvd.				0.10	Est.					
									0.10	Est.	
150P	700 ft. below Victory Blvd.				No flow						

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO._____

Percolation MEASUREMENTS OF BIG TUJUNGA WASH

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1941

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 Glen Oaks Boulevard										
1	2/16	127P / 137P	Bollinger & Rickart	38.5	34.4	4.53		155.8		.6	14		FC 6
			At Laurel Canyon Boulevard										
2	2/16	204P / 228P	Bollinger & Rickart	Two Channels				153.3		.6	20		FC 6
			At Sherman Way										
3	2/16	300P / 318P	Bollinger & Rickart	Three Channels				49.9		.6	18		FC 6
			At Chandler Boulevard										
4	2/16	348P / 355P	Bollinger	24.8	8.11	3.09		25.1		.6	9		FC 6

PERCOLATION MEASUREMENTS

SET NO. 4

BIG TUJUNGA WASH — February 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
132P	At Glen Oaks Blvd.		F20B-R		155.8						Light rain
									2.5		
216P	At Laurel Canyon Blvd.				153.3						Raining
									103.4		
309P	At Sherman Way				49.9						Raining
									24.8		
352P	At Chandler Blvd.		F106B-R		25.1						Raining

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO._____

Percolation MEASUREMENTS OF RIO HONDO

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1941

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 Arrow Highway										
1	8/7	230P / 240P	Lindsay	34.0	23.2	2.85		66.2		.6	10		FC 28
			Above Consolidated Rock Pits										
2	8/7	300P / 310P	Lindsay	35.0	48.8	1.00		48.6		.6	9		FC 28
			Above Peck Road, below Consolidated Rock Pits										
3	8/7	322P / 335P	Lindsay	29.0	21.8	1.83		39.9		.6	10		FC 28

PERCOLATION MEASUREMENTS

SET NO. 1

RIO HONDO — August 7 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
235P	At Arrow Highway				66.2						
									17.6		
305P	Above Consolidated Rock Pits				48.6						
									8.7		
328P	Above Peck Road, below Consolidated Rock Pits				39.9						

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

Percolation
MEASUREMENTS OF RIO HONDO

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1941

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 Arrow Highway										
1	8/18	1025A / 1040A	Lindsay	36.0	27.0	3.14		84.9		.6	10		FC 28
			Above Consolidated Rock Pit and below Graham Bros. and Pacific Rock Pits										
2	8/18	1050A / 1100A	Lindsay	20.0	31.6	2.23		70.4		.6	10		FC 28
			Above Peck Road, below Consolidated Rock Pit										
3	8/18	1114A / 1125A	Lindsay	34.0	38.5	1.28		49.3		.6	9		FC 28

PERCOLATION MEASUREMENTS

SET NO. 2

RIO HONDO — August 18 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
1032A	At Arrow Highway				84.9						
									14.5		
1055A	Between Pits				70.4						
									21.1		
1120A	Above Peck Road, below Consolidated Rock Fit				49.3						

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

Percolation
MEASUREMENTS OF RIO HONDO

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
			Below Arrow Highway										
1	8/21	540A / 555A	Lindsay	36.0	29.3	3.35		87.5		.6	10		FC 28
			Above Consolidated Rock Pit; below Graham Bros. and Pacific Rock Fits										
2	8/21	603A / 612A	Lindsay	20.5	34.1	2.30		78.3		.6	8		FC 28
			Above Peck Road, below Consolidated Rock Pit										
3	8/21	625A / 635A	Lindsay	32.0	27.8	2.08		57.9		.6	8		FC 28

PERCOLATION MEASUREMENTS

SET NO. 3

RIO HONDO — August 21 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
548A	Below Arrow Highway				87.5						
									9.2		
608A	Between Pits				78.3						
									20.4		
630A	Above Peck Road, below Consolidated Rock Fit				57.9						

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT STATION NO.
HYDRAULIC DIVISION

Percolation MEASUREMENTS OF RIO HONDO

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
			Below Arrow Highway										
1	8/25	1020A / 1035A	Lindsay	37.0	36.6	3.46		126.5		.6	10		FC 28
			Above Consolidated Rock Pit; below Graham Bros. and Pacific Rock Pits										
2	8/25	1045A / 1058A	Lindsay	21.5	39.2	3.09		121.2		.6	10		FC 28
			Above Peck Road, below Consolidated Rock Pit										
3	8/25	1122A / 1135A	Lindsay	39.0	39.2	2.48		97.1		.6	10		FC 28
			2000 ft. above Tyler Avenue										
4	8/25	1155A / 1210P	Lindsay	43.0	49.5	1.79		88.7		.6	11		FC 28

PERCOLATION MEASUREMENTS SET NO. 4

RIO HONDO August 25 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
1028A	Below Arrow Highway				126.5						
									5.3		
1052A	Between Pits				121.2						
									24.1		
1128A	Above Peck Road, below Consolidated Rock Pit				97.1						
									8.4		
1202A	2000 ft. above Tyler Avenue				88.7						

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT STATION NO.
HYDRAULIC DIVISION

Percolation MEASUREMENTS OF RIO HONDO

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
			Below Arrow Highway										
1	9/4	1120A / 1132A	Lindsay	36.0	32.2	3.42		110.1		.6	11		FC28
			Above Consolidated Rock Pit; below Graham Bros. and Pacific Rock Pits										
2	9/4	1148A / 1159A	Lindsay	21.0	36.5	2.76		100.8		.6	8		FC 28
			Above Peck Road, below Consolidated Rock Pit										
3	9/4	1232P / 1245P	Lindsay	33.0	33.3	2.49		82.8		.6	8		FC 28
			1500 ft. above Tyler Avenue										
4	9/4	100P / 115P	Lindsay	42.0	45.3	1.52		69.0		.6	10		FC 28

PERCOLATION MEASUREMENTS SET NO. 5

RIO HONDO September 4 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
1126A	Below Arrow Highway				110.1						
									9.3		
1154A	Between Pits				100.8						
									18.0		
1238P	Above Peck Road, below Consolidated Rock Pit				82.8						
									13.8		
108P	1500 ft. above Tyler Avenue				69.0						

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. _____

Percolation MEASUREMENTS OF DALTON WASH

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1941

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			BIG DALTON CREEK at Ben Lomond Avenue										
1	1/21	820A / 830A	Brewster-Smith	10.0	2.44	1.23		2.99		.6	5		FC 24
			BIG DALTON CREEK at Citrus Avenue										
2	1/21	905A / 912A	Brewster-Smith	6.0	1.60	1.09		1.75		.6	6		FC 24
			BIG DALTON CREEK at Cerritos Avenue										
3	1/21	925A / 930A	Brewster-Smith	2.0	0.52	0.79		0.41		.6	4		FC 24
			BIG DALTON CREEK 1600 ft. below Cerritos Avenue										
4	1/21	945A	Brewster-Smith					No flow		Est.			
			LITTLE DALTON CREEK at Azusa Avenue										
5	1/21	1035A / 1040A	Brewster-Smith	10.0	2.40	1.15		2.76		.6	5		FC 24
			LITTLE DALTON CREEK at Bonita Avenue										
6	1/21	1130A / 1140A	Brewster-Smith	8.0	1.95	0.86		1.68		.6	5		FC 24
			LITTLE DALTON CREEK at Junction with Big Dalton Creek										
7	1/21	1230P / 1240P	Brewster-Smith	5.0	1.44	0.74		1.06		.6	5		FC 24
			DALTON WASH at Irwindale Avenue										
8	1/21	110P / 116P	Brewster-Smith	4.0	0.84	0.43		0.36		.6	4		FC 24
			DALTON WASH at Los Angeles Street										
9	1/21	140P	Brewster-Smith					No flow		Est.			

PERCOLATION MEASUREMENTS

SET NO. 1

DALTON WASH — January 21 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
	BIG DALTON CREEK										
825A	Ben Lomond Avenue				2.99						
						3300	10.3	0.78	1.24	1.59	
908A	Citrus Avenue				1.75						
						2900	11.7	0.78	1.34	1.72	
928A	Cerritos Avenue				0.41						
						1600	8.2	0.30	0.41	1.37	
945A	1600 ft. below Cerritos Avenue				No flow						
	LITTLE DALTON CREEK										
1035A	Azusa Avenue				2.76						
						5700	10.2	1.33	1.08	0.81	
1135A	Bonita Avenue				1.68						
						3500	9.1	0.73	0.62	0.85	
1235P	Junction Big Dalton				1.06						
	DALTON WASH					3000	13.1	0.90	0.70	0.78	
113P	Irwindale Avenue				0.36						
						3900	5.8	0.52	0.36	0.69	
140P	Los Angeles Street				No flow						

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

Percolation
~~DISCHARGE~~ MEASUREMENTS OF SAN DIMAS WASH

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1941

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.
			½ mile above Grand Avenue										
1	1/21	200P / 210P	Brewster-Smith	5.0	1.06	0.96		1.02		.6	5		FC 24
			At Ben Lomond Avenue										
2	1/21	235P / 241P	Brewster-Smith	4.0	0.80	0.80		0.65		.6	4		FC 24
			At Citrus Avenue										
3	1/21	310P / 315P	Brewster-Smith	1.5	0.24	1.12		0.27		.6	3		FC 24
			⅛ mile below Citrus Avenue										
4	1/21	345P	Brewster-Smith					No flow		Est.			

PERCOLATION MEASUREMENTS

SET NO. 1

SAN DIMAS WASH — January 21 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
205P	Above Grand Avenue				1.02						
						4200	4.3	0.41	0.38	0.93	
238P	At Ben Lomond Ave.				0.65						
						3000	5.2	0.36	0.37	1.03	
312P	At Citrus Avenue				0.27						
						2600	4.4	0.26	0.27	1.04	
345P	Below Citrus Avenue				No flow						

PERCOLATION LOSSES ON THE SAN GABRIEL RIVER AND RIO HONDO
BASED ON METER MEASUREMENTS AND RECORDER STATION RATINGS

Date 1940-41	Total Flow* Below Mouth of Canyon	Flow at Foothill Boulevard	Loss C.F.S.	Flow at Split** San Gab. Side	Rio Hondo Side**	Flow at Arrow Hwy.	Loss C.F.S.	Flow at Arrow + Tributaries	Flow at Elliot Ave. Lr. Azusa Rd.	Loss C.F.S.
2-25				S.G.						
				R.H. 439.		377.	62.	392.	250.	142.
2-27	550.	553.		S.G.						
				R.H. 454.		378.	76.	*** 352.	256.	96.
3-5				S.G. 1000.		930.	70.			
				R.H.						
3-10				S.G. 136.		118.	18.			
				R.H.						
3-17				S.G. 331.		291.	40.	291.	127.	164.
3-21				S.G. 261.		217.	44.	217.	134.	83.
				R.H. 480.		396.	84.	405.	300.	105.
3-24				S.G. 237.		190.	47.	190.	100.	90.
				R.H. 410.		322.	88.	327.	230.	97.
3-28	609.	650.		S.G. 206.		166.	40.	166.	98.	68.
				R.H. 361.		246.	115.	252.	135.	117.
4-2	557.	590.		S.G. 188.		171.	17.	171.	128.	43.
				R.H. 358.		294.	64.	310.	229.	81.
4-6	231	234.		S.G. 76.		70.	6.	70.	44.	26.
				R.H. 150.		132.	18.	170.	102.	68.
4-7				S.G. 153.		Not measured			97.	** 56.
4-9	530.	531.		S.G. 180.		Not measured			128.	** 52.
4-24	687.	687.	0	S.G.						
				R.H.						
5-28	307.	295.	12.	S.G. 163.		124.	39.	124.	84.	40.
				R.H. 132.		85.	47.	88.	41.	47.
6-5	310.	290.	20.	S.G.						
				R.H. 136.		82.	54.	82.	45.	37.
6-12	300.	287.	13.							
6-13				S.G. 100.		82.	18.	82.	67.	15.
				R.H. 171.		107.	64.	107.	67.	40.
6-19	320.	308.	12.	S.G. 94.		78.	16.	78.	58.	20.
				R.H. 205.		117.	88.	117.	75.	42.
6-26	316.	294.	22.							
7-3	328.	283.	45.							
7-7	259.	233.	26.	S.G.						
				R.H. 153.		96.	57.	96.	55.	41.

* Flow below Canyon Mouth plus Fish and Rogers Creeks less diversions
** Flow at Split corrected for diversions
*** 26. C.F.S. diverted to San Gabriel at Arrow Highway
** Total loss from split.

YEARLY DISCHARGE SUMMARY

YEARLY-DISCHARGE SUMMARY

ALHAMBRA EAST WASH at S.P.R.R. Main Line (Drainage Area 6.85 square miles) F102R

Year	Page No.	Water year ending Sept. 30: Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Peak Flows: Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1930-31	7	134	0	1.20	871	4	26	930			
1931-32	17	101	0	1.39	1010	11	27	625			

ALHAMBRA WEST WASH at S.P.R.R. Main Line (Drainage Area 3.5 square miles) F103R

1930-31	12	89	0	0.93	675	4	26	648			
1931-32	19	80	0	1.04	756	11	27	455			

ALHAMBRA WASH near Short Street (Drainage Area 14.5 square miles) F81D-R

1929-30	1		0		*635	3	14	1870			
1930-31	1	226	0	2.08	1480	2	3	1530			
1931-32	15	220	0	2.78	1940	1	31	1120			
1932-33	41	417	0	2.32	1680	1	19	1850			
1933-34	41	1770	0	8.04	5820	1	1	4890			
1934-35	52	219	0	3.29	2380	1	5	2280			
1935-36	52	144	0	1.96	*1420	2	12	1700			
1936-37	82	309	0	5.36	3880	3	15	2470			
1937-38	82	997	0	7.62	5520	3	2	3670	2	28	3090
1938-39	62	288	0	4.14	2990	1	5	1760	9	25	750
1939-40	58	130	0	2.39	1730	2	1	912			
1940-41		219	0	7.81	5650	3	3	1470			

Note: Station at various locations - see station description.

ALISO WASH at Nordhoff Street (Drainage Area 7.15 square miles) F152R

1939-40	59	21	0	0.23	167	1	8	285			
1940-41		290	0	5.74	4150	2	20	N.D.			

BALLONA CREEK at Sawtelle Boulevard (Drainage Area 111 square miles.) F38B-R

1927-28	60		0		*3930	5	8	*1100			
1928-29	204	1150	0	20.6	14900	3	10	4990			
1929-30	7	1130	0	18.6	13480	1	11	4460			
1930-31	17	1500	0	25.6	18520	4	26	6280			
1931-32	21	1540	0	30.0	21790	12	28	6130			
1932-33	44	1660	0	21.8	15810	1	19	7000			
1933-34	44	4310	0	28.5	20630	1	1	11300			
1934-35	57	2190	0	34.4	24870	4	8	11200			
1935-36	57	929	0	18.6	13460	2	12	8070			
1936-37	84	2160	0	56.2	40680	12	30	8940			
1937-38	84	7330	3.6	72.5	52500	3	2	19000	2	28	15280
1938-39	64	3080	1.8	39.4	28490	12	17	9900	9	25	9200
1939-40	61	1270	1.3	29.1	21110	2	3	9730			
1940-41		2680	3.1	93.0	67360	12	23	17310			

Note: Station at various locations - see station description.

BIG DALTON CREEK below Big Dalton Dam (Drainage Area 4.8 square miles) F120R

1940-41		66	0	3.99	2890	3	5	67			

DALTON WASH at Merced Avenue (Drainage Area 28. square miles) F274R

1940-41		206	0	5.30	3840	3	13	674			

BIG TUJUNGA CREEK above Edison Road (Drainage Area 67. square miles) F111B-R

1930-31	39	65	0	1.99	1440	2	5	216			
1931-32	31	964	0	14.1	10250	2	8	3910			
1932-33	55	108	0	3.59	2600	1	19	324			
1933-34	55	707	0	4.26	3090	1	1	1520			
1934-35	69	296	0	13.3	9600	4	8	640			
1935-36	69	60	0	3.20	2330	2	12	159			
1936-37	88	707	+	26.9	19440	2	6	1030			
1937-38	88	E 8200	0.8	63.0	45600	3	2	N.D.	3	1	2480
1938-39	66	345	0.9	10.9	7920	12	19	543	9	25	400
1939-40	64	276	0.2	7.62	5530	1	8	N.D.			
1940-41		1120	0.8	67.2	48630	2	20	1380			

Note: Station at various locations - see station description.

BIG TUJUNGA - MILL CREEK above mouth (Drainage Area 21.1 square miles) F112R

1930-31	145	1.3	0	0.19	139	4	26	1.7			
1931-32	70	291	0	3.02	2190	2	9	512			
1932-33	126	7	0	0.40	294	1	19	20			
1933-34	126	58	0	0.43	308	1	1	179			

BIG TUJUNGA - FOX CREEK above mouth (Drainage Area 9.4 square miles) F110R

1930-31	75	3.9	0.04	0.32	235	2	4	7			
1931-32	43	285	0.02	3.46	2510	2	8	400			
1932-33	88	21	0.01	0.78	565	1	19	115			
1933-34	88	89	0.01	0.98	710	1	1	215			
1934-35	80	29	+	1.63	1180	10	18	314			
1935-36	80	32	+	1.06	775	2	2	410			
1936-37	92	117	+	5.27	3810	12	27	270			

Station abandoned 1938

YEARLY-DISCHARGE SUMMARY

BIG TUJUNGA CREEK below Big Tujunga Dam No. 1 (Drainage Area 81.7 square miles) F168R

Year	Page No.	Water year ending Sept. 30: Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Peak Flows: Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1932-33	59	38	0.5	6.19	4480	1	19	58			
1933-34	59	15	0.2	5.93	4290	1	1	44			
1934-35	66	339	1.0	14.9	10760	4	8	547			
1935-36	66	30	0.2	7.53	5470	11	18	101			
1936-37	94	385	0.1	35.7	25860	2	16	385			
1937-38	94			*		3	2	E33000			N.D.
1938-39	68	E 263	0.7	12.6	9110	12	23	424	9	25	2.6
1939-40	66	285	0.2	9.92	7200	1	8	747			
1940-41		1080	0.2	81.6	59100	2	21	1590			

BIG TUJUNGA CREEK above Gold Canyon (Drainage Area 106. square miles) F213R

1932-33	62	488	1.1	10.5	7590	1	19	1390			
1933-34	62	634	0.9	10.6	7700	1	1	1450			
1934-35	72	354	2.6	20.5	14840	4	8	671			
1935-36	72	150	2.4	10.5	7640	2	2	494			
1936-37	98	423	1.0	50.1	36260	12	27	495			
1937-38	98	13000	2.7	116.	83960	3	2	E50000	3	1	1180
1938-39	70	316	3.5	18.8	13640	12	20	380	9	25	117
1939-40	67	E 350	1.6	15.1	10990			N.D.			
1940-41		1260	1.2	109.	78840	2	21	1650			

TUJUNGA WASH at Glen Oaks Boulevard (Drainage Area 148. square miles) F20B-R

1931-32	26				* 741			N.D.			
1932-33	66	561	0	6.22	4500	1	19	2260			
1933-34	66	909	0	5.20	3760	1	1	3750			
1934-35	83	328	0	14.0	10110	4	8	615			
1935-36	83	213	0	5.83	4220	2	12	628			
1936-37	101	496	0	49.8	35580			N.D.			
1937-38	101				*	3	2	E 54000			N.D.
1938-39					No record						
1939-40	69	*	0	*	*			*			
1940-41		1050	0	115.	83220	3	6	1200			

Note: Station at various locations - see station description.

TUJUNGA WASH at Magnolia Boulevard (Drainage Area, split) F105R

1930-31					Negligible			Negligible			
1931-32	28	12	0	0.11	78	12	28	46			
1932-33	70	0	0	0	0			0			
1933-34	70	12	0	0.34	25	1	1	145			
1934-35	86	0	0	0	0			0			
1935-36	86	3.3	0	0.01	8.9	2	12	19			
1936-37	104	14	0	0.07	51	2	6	53			
1937-38	104				*			N.D.			N.D.
1938-39	72	0.1	0	+	0.4	1	21	1.1	9	25	0.5
1939-40	71			E 0.12	E 96						
1940-41		37	0	0.52	373	2	28	125			

TUJUNGA WASH-CENTRAL BRANCH at Chandler Boulevard (Drainage Area, split) F106B-R

1930-31	34	24	0	0.13	91	2	3	56			
1931-32	29	591	0	5.75	4170	2	2	1380			
1932-33	71	127	0	0.57	413	1	19	429			
1933-34	71	641	0	1.99	1440	1	1	3110			
1934-35	76	81	0	0.73	528	1	5	352			
1935-36	76	86	0	1.19	497	2	12	400			
1936-37	106	190	0	3.75	2720	2	6	681			
1937-38	106		0	*		3	2	N.D.	3	1	1880
1938-39	73			*				N.D.			N.D.
1939-40	70			E 2.14	E 1560						
1940-41		550	0	31.2	E 22570			N.D.			

Note: Station at various locations - see station description.

BROWNS CANYON CREEK at Devonshire Street, Chatsworth (Drainage Area 14.3 square miles) F2R

1928-29	259	0	0	0	* 0			0			
1929-30	23	0	0	0	0			0			
1930-31	46	5	0	0.77	554	4	26	8			
1931-32	33	80	0	0.96	693	2	9	152			
1932-33					No record						
1933-34					No record						
1934-35					No record						
1935-36					**			N.D.			
1936-37	109	85	0	0.61	439	2	14	140			
1937-38	109	595	0	2.92	2120	3	2	E 1100	3	1	94
1938-39	74	8.5	0	0.10	75	12	18	E 63	9	25	0
1939-40					**						

CALABASAS CREEK at Ventura Boulevard (Drainage Area 2.4 square miles) F270R

1939-40	72				*0.3						
1940-41		65.0	0	1.49	1080	2	20	551			

CENTINELA CREEK at Centinela Boulevard (Drainage Area 5.17 square miles) F186R

1932-33	74	70	0	0.74	534	1	19	297			
1933-34	74	212	0	1.24	895	1	1	570			
1934-35	88	259	0	2.23	1620	3	2	1590			
1935-36	88	91	0	0.70	509	2	14	1170			

YEARLY-DISCHARGE SUMMARY

Year	Page No.	Water year ending Sept. 30: Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Peak Flows: Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
COMPTON CREEK near Greenleaf Drive (Drainage Area 30.3 square miles) F37B-R											
1927-28	80				*1230	3	5	* 240			
1928-29	188	197	0	3.13	2270	3	10	924			
1929-30	29	144	0	3.48	2520	3	14	580			
1930-31	50	137	0.04	3.31	2400	4	26	678			
1931-32	35	226	0	4.45	3220	1	31	757			
1932-33	77	166	0	2.45	1780	1	19	740			
1933-34	77	372	0	3.53	2560	1	1	960			
1934-35	90	301	0	5.73	4170	4	8	850			
1935-36	90	143	0	4.02	2920	2	12	824			
1936-37	112				*	2	6	1220			
1937-38	112	E 986	0	*	*6850	3	2	N.D.	3	1	1540
1938-39	75	837	0	7.12	5150	9	25	2150			
1939-40	73	256	0.1	7.35	5340	2	3	1650			
1940-41		544	1.0	22.7	16400	12	23	2660			
Note: Station at various locations - see station description.											
COYOTE CREEK at Del Amo Street (Drainage Area 110 square miles) F41C-R											
1929-30	24	69	0	0.96	699	1	15	91			
1930-31	58	132	0	0.78	568	2	5	218			
1931-32	37	496	0	3.70	2690	2	9	799			
1932-33	80	130	0	0.63	457	1	30	283			
1933-34	80	1350	0	5.38	3890	1	1	2020			
1934-35	96	569	0	5.33	3850	12	13	3190			
1935-36	96	172	0	1.60	1150	2	12	486			
1936-37	115	2760	0	18.9	13680	2	6	4190			
1937-38	115	2770	0	20.8	15070	3	2	3610	3	1	1940
1938-39	77	E 582	0	5.86	4250	9	25	E 1660			
1939-40	75	276	0	4.40	3190	2	3	827			
1940-41		1440	0	40.7	29500	2	28	2750			
Note: Station at various locations - see station description.											
DOMINGUEZ CHANNEL at Carson Boulevard (Drainage Area 56. square miles) F265R											
1940-41		250**	0.3	44.6	32260			°			
° Flooded from March 1 to March 16.											
DUME CREEK at Roosevelt Highway (Drainage Area 8.8 square miles) F53R											
1929-30	40	100	0	0.30	218	1	15	426			
1930-31	64	40	0	0.18	127	2	4	205			
1931-32	39	94	0	1.00	726	12	28	425			
1932-33	83	15	0	0.11	81	1	19	110			
1933-34	83	839	0	3.13	2270	12	31	2730			
1934-35	99	47	0	0.24	176	1	5	409			
1935-36	99	26	0	0.28	202	2	14	206			
1936-37	117	230	0	2.62	1900	2	6	624			
1937-38	117				**	3	2	N.D.			
1938-39	79	13	0	0.04	31	9	25	115			
1939-40	77	39	0	0.32	229	2	2	183			
1940-41		228	0	9.39	6800	1	24	876			
EATON WASH below Eaton Wash Debris Dam (Drainage Area 9.5 square miles) F271R											
1940-41		211	0	8.40	6090	2	20	256			
EATON WASH at Ellis Lane (Drainage Area 18.4 square miles) F104R											
1930-31	69	58	0	0.43	314	4	26	359			
1931-32	41	129	0	1.30	946	2	8	184			
1932-33	85	187	0	0.78	564	1	19	399			
1933-34	85	583	0	2.75	1990	1	1	2180			
1934-35	101	72	0	0.75	543	1	5	609			
1935-36	101	63	0	1.19	866	2	12	414			
1936-37	119	101	0	1.79	1300	12	27	400			
1937-38	119	724	0	5.76	4170	3	2	E 1900	2	28	670
1938-39	80	77	0	0.99	718	1	5	738	9	25	240
1939-40	78	45	0	0.55	402	2	2	341			
1940-41		268	0	7.58	5480	3	3	990			
Note: Station at various locations - see station description.											
LIMEKILN WASH at Devonshire Avenue (Drainage Area 3.8 square miles) F149R											
1939-40	80	1.9	0	0.02	13	1	8	12			
1940-41		41	0	1.50	1080	2	17	318			
LITTLE DALTON CREEK above mouth of canyon (Drainage Area 2.7 square miles) F65B-R											
1928-29	44		0		* 58	3	10	* 5.8			
1929-30	52	4.5	0	0.12	85	5	3	28			
1930-31	80	1.8	0	0.04	30	4	26	6			
1931-32	46	25	0	0.62	449	1	31	72			
1932-33	91	7.5	0	0.10	75	1	19	25			
1933-34	91	97	0	0.67	482	1	1	201			
1934-35	104	26	0	0.68	495	4	8	69			
1935-36	104	19	0	0.64	465	2	11	118			
1936-37	121	41	0	1.97	1430	12	31	140			
1937-38	121	381	0	3.68	2660	3	2	E 960	3	1	391
1938-39	82	7	0	0.28	207	1	5	36	9	25	3
1939-40	81	13	0	0.32	231	1	7	63			
1940-41		41	0	2.70	1950	3	4	73			
Note: Station at various locations - see station description.											

YEARLY-DISCHARGE SUMMARY

Year	Page No.	Water year ending Sept. 30: Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Peak Flows: Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
LITTLE ROCK CREEK above Little Rock Dam (Drainage Area 49. square miles) L1R											
1930-31	94	195	0	4.99	3610	4	26	430			
1931-32	51	830	0		*16730	2	8	2200			
1932-33	99	56	0	5.77	4180	3	9	66			
1933-34	99	455	0	5.20	3770			N.D.			
1934-35	107	716	0	24.4	17640	2	5	925			
1935-36	107	127	0	4.57	3320	2	23	261			
1936-37	124	679	0	30.3	21950	2	6	1550			
1937-38	124		0	*		3	2	E17000			
1938-39	84			*				N.D.	9	25	1100
1939-40	83	183	0	9.64	7000	1	8	555			
1940-41		1730	0	71.3	51600	2	20	2240			
LITTLE SANTA ANITA CREEK below Sierra Madre Dam (Drainage Area 2.4 square miles) F67B-R											
1928-29	121		0	* 40		4	5	* 6			
1929-30	45	1.7	0	0.01	8.5	3	15	2.4			
1930-31	85	2.1	0	0.01	7.8	4	26	9			
1931-32	48	21	0	0.29	211	2	9	38			
1932-33	94	32	0	0.13	93	1	19	90			
1933-34	94	8	0	0.11	83	12	31	39			
1934-35	110	12	0	0.38	276	4	8	32			
1935-36	110	6.5	0	0.20	141	2	11	16			
1936-37	126	26	0	1.16	835	12	27	109			
1937-38	126	192	0	3.24	2350	3	2	E 620	3	1	135
1938-39	85	8	0	0.09	65	12	18	132			
1939-40	84	10	0	0.26	190	1	8	84			
1940-41		42	0	2.77	2000	4	4	75			
Note: Station at various locations - see station description.											
LITTLE TUJUNGA CREEK at Foothill Boulevard (Drainage Area 21.0 square miles) F19R											
1928-29	255				Negligible			N.D.			
1929-30	51				Negligible			N.D.			
1930-31	90	23	0	0.08	57	2	4	30			
1931-32	50	274	0	2.56	1870	2	9	660			
1932-33	96	118	0	0.71	514	1	19	450			
1933-34	96	258	0	1.12	819	1	1	1360			
1934-35	113	63	0	0.63	455	12	13	89			
1935-36	113	83	0	1.28	929	2	2	663			
1936-37	129	175	0	6.58	4760	2	14	964			
1937-38	129	1300	0	12.4	8960	3	2	E 8500	3	1	1140
1938-39	87	40	0	0.70	504	3	9	175	9	25	8
1939-40	86	118	0	1.24	899	1	8	2090			
1940-41		534	0	14.6	10600	3	4	1310			
LIVE OAK CREEK above mouth of canyon (Drainage Area 2.6 square miles) F31R											
1927-28	50		0	* 0.2		2	4	0.1			
1928-29	60	0	0	0				0			
1929-30	59	0	0	0				0			
1930-31	98	0	0	0				0			
1931-32	53	7	0	0.28	207	2	8	22			
1932-33	101	0.06	0	+	0.16	1	20	0.2			
1933-34	101	19	0	0.32	228	12	29	35			
1934-35	116	0	0	0				0			
1935-36	116	0.1	0	+	0.20	2	12	0.6			
1936-37	132	22	0	0.59	429	2	14	29			
1937-38	132	96	0	1.10	794	3	2	257	3	1	37
1938-39	88	0.1	0	+	0.60	9	16	0.9	9	25	0.6
1939-40	88	0.7	0	0.01	9.5	1	7	3.8			
1940-41		27	0	1.05	763	3	5	27.7			
LOS ANGELES RIVER below Sepulveda Boulevard (Drainage Area 157 square miles) F5B-R											
1928-29	216				* 720	4	4	* 127			
1929-30	80	143	0	1.72	1230	3	15	389			
1930-31	99	651	0.06	5.09	3680	2	4	1300			
1931-32	55	825	0.08	8.70	6330	2	8	2000			
1932-33	103	1010	0.05	6.14	4440	1	19	1720			
1933-34	103	1910	0.03	7.65	5540	1	1	7380			
1934-35	131	203	+	4.35	3150	1	5	886			
1935-36	131	79	0.2	2.17	1570	2	12	286			
1936-37	134	1200	0.2	15.1	10920	2	14	2630			
1937-38	134	5870	0.8	*		3	2	E12000	3	1	3220
1938-39	89	1180	1.8	17.9	12970	12	15	2980	9	25	1330
1939-40	89	637	1.8	10.2	7430	1	8	2690			
1940-41		3540	2.9	76.1	55120	2	20	6610			
Note: Station at various locations - see station description.											
LOS ANGELES RIVER at Vineland Avenue (Drainage Area 400 square miles) F124R											
1928-29	224	127	4.1	18.0	13040	11	14	427			
1929-30	60	158	3.9	23.0	16660	3	15	231			
1930-31	130				*8370	2	4	1240			
1931-32	58	998	0.6	17.6	12830	2	8	1630			
1932-33	107	1230	1.7	11.6	8370	1	19	2080			
1933-34	107	2450	1.3	16.0	11560	1	1	9140			
1934-35	134	288	2.2	8.65	6260	1	5	1020			
1935-36	134	91	2.1	5.59	4060	2	12	261			
1936-37	137				**	2	14	2770			
1937-38	137	Station abandoned.			**	3	2	E37700			
Note: Station at various locations - see station description.											

YEARLY-DISCHARGE SUMMARY

YEARLY-DISCHARGE SUMMARY

LOS ANGELES RIVER at Mariposa Street (Drainage Area 430 square miles) F266R

Year	Page No.	Water year ending Sept. 30: Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Peak Flows: Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1938-39	91				*20390			N.D.	9	25	620
1939-40	92	986	8	38.7	28050	1	8	3950			
1940-41		5500	8.5	160	116000	3	4	8450			

LOS ANGELES RIVER above Arroyo Seco (near Dayton Avenue) (Drainage Area 510 square miles) F57C-R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1929-30	67	312	0	2.29	1660	3	15	500			
1930-31	123	927	0	5.46	3950	2	4	4540			
1931-32	60	2620	0	21.0	15240	2	8	3020			
1932-33	111	2330	0	14.7	10640	1	19	5780			
1933-34	111	5990	0	41.2	29810	1	1	22000			
1934-35	117	668	0.1	17.3	12550	4	8	E 2400			
1935-36	117	322	0.5	7.94	5770	3	30	2540			
1936-37	139	1670	0.4	33.8	24470	2	6	2410	2	14	2410
1937-38	139	27900	0.6	183	132600	3	2	E68000	3	1	9920
1938-39	93	1950	3.8	58.5	42360	1	5	3710	9	25	620
1939-40	94	2070	6	54.5	39590	1	8	8900			
1940-41		6700	4.2	228	165000	2	20	11870			

Note: Station at various locations - see station description.

LOS ANGELES RIVER at Firestone Boulevard (Drainage Area 614 square miles) F34B-R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1927-28	67				* 6690	2	4	* 1120			
1928-29	161	775	0	13.6	9830	11	14	2010			
1929-30	72	813	0	13.4	9730	3	15	2210			
1930-31	106	1560	1.4	18.6	13450	2	4	4360			
1931-32	62	2650	0.4	35.4	25620	2	8	4780			
1932-33	115	2900	0	23.5	17020	1	19	7070			
1933-34	115	8550	0	52.9	38330	1	1	29400			
1934-35	126	1430	0	40.3	29170	1	5	10400			
1935-36	126	1040	0	20.5	14920	2	12	5730			
1936-37	144	3460	0	67.2	48630	12	30	E10000			
1937-38	144	40000	0	278	201300	3	2	E79000	3	1	18500
1938-39	96	5090	0	108	78440	9	25	10800			
1939-40	97	2300	14	80.5	58420	1	8	7610			
1940-41		7580	10	345	249500	2	20	14760			

Note: Station at various locations - see station description.

LOS ANGELES RIVER at State Street, Long Beach (Drainage Area, split) F180R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1928-29	171				* 9340	3	10	*2870			
1929-30	87	1270	0.9	17.0	12310	3	15	1670			
1930-31	114	1390	0	19.9	14310	2	3	3790			
1931-32	65	7130	0.8	70.2	50960	2	9	8380			
1932-33	119	3310	0.3	31.6	22890	1	19	8710			
1933-34	119	19900	0	93.7	67860	1	1	37500			
1934-35	121	2930	2.0	55.9	40470	4	8	11000			
1935-36	121	1630	2.5	28.3	20470	2	12	10400			
1936-37	149	6800	3.5	126	91110	2	14	20500			
1937-38	149	50000	4.2	564	408000	3	2	E 99000	3	1	23300
1938-39	98	6220	3.5	114	82750	9	25	17300			
1939-40	100	2830	15	90.8	65950	2	2	8440			
1940-41		11120	18	510	369500	3	4	18170			

Note: Station at various locations - see station description.

MALIBU CREEK at Crater Camp (Drainage Area 103 square miles) F130R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1930-31	139				* 1920	2	4	743			
1931-32	68	1769	0.01	20.2	14670	2	9	3100			
1932-33	123	1100	0.1	12.7	9190	1	19	4460			
1933-34	123	3160	0.05	17.1	12370	1	1	9650			
1934-35	139	511	+	8.59	6220			N.D.			
1935-36	139	92	0	3.19	2310	2	23	147			
1936-37	154	1680	0	33.1	23940	2	14	2760			
1937-38	154	E 5090	0.2	47.1	34100	3	2	E10000	3	1	5960
1938-39	101	139	0	6.40	4630	12	20	331	9	25	330
1939-40	103	335	+	8.40	6100	2	2	690			
1940-41		2200	0.1	101	73220	2	20	3620			

MONROVIA CREEK above Sawpit Creek (Drainage Area 1.9 square miles) F22R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1927-28	44	0.8	0.05	0.11	* 70	2	4	N.D.			
1928-29	105	2.8	0.02	0.08	57	3	10	7			
1929-30	94	2.6	0	0.08	55	1	15	6			
1930-31	149	3.0	0	0.06	43	4	26	13			
1931-32	73	14.5	0.01	0.25	184	2	9	24			
1932-33	129	17	0	0.12	86	1	19	58			
1933-34	129	40	0	0.26	187	1	1	108			
1934-35	142	18	+	0.24	173	4	8	109			
1935-36	142	11	+	0.29	208	2	2	78			
1936-37	157	18	0	0.63	456	12	27	81			
1937-38	157	E 150	+	1.98	1430	3	2	N.D.	3	1	97
1938-39	103	8.5	+	0.21	155	9	25	23			
1939-40	105	8.5	+	0.19	138	1	8	68			
1940-41		21	+	0.94	680	3	4	68			

MONROVIA STORM DRAIN near Peck Road (Drainage Area 4.5 square miles) F195R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1932-33	132				**			N.D.			
1933-34	132	108	0	0.60	433	1	1	554			
1934-35	145	56	0	0.54	392	1	5	429			
1935-36	145	48	0	0.42	307	2	2	369			
1936-37	161	44	0	0.75	539	10	18	383			
1937-38	161	306	0	1.56	1130	3	2	E 1200	3	1	436
1938-39	105	55	0	0.80	579	1	5	667	9	25	200
1939-40	107	52	0	0.68	494	1	7	422			
1940-41		128	0	2.21	1600	3	4	770			

MONTEBELLO STORM DRAIN at outlet into Rio Rondo (Drainage Area 9.6 square miles) F181R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1931-32	75		0		*1120	1	31	531			
1932-33	133	125	0	0.82	592	1	19	713			
1933-34	133	391	0	2.64	1910	1	1	1360			
1934-35	148	114	0	2.28	1650	1	5	1140			
1935-36	148	55	0	1.22	889	2	14	374			
1936-37	163				**			N.D.			
1937-38	163				*	3	2	E 1400			
1938-39	107	147	0	1.35	981	9	25	690			
1939-40	109	77	0.1	1.22	885	2	1	729			
1940-41		204	0.1	5.64	4090	3	3	936			

PACOIMA CREEK Flume below Pacoima Dam (Drainage Area 28.2 square miles) F118B-R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1928-29					* 876			N.D.			
1929-30					865	9	29	9.6			
1930-31					886	2	14-18	4.0			
1931-32	81	75	0	10.6	8400	2	16-27	75			
1932-33	139	10	0	2.47	1790	4	13	81			
1933-34	139	40	0	3.50	2540	1	26	54			
1934-35	151	97	0	7.10	5140	8	21	174			
1935-36	151	57	0	4.17	3030	5	13	153			
1936-37	164	216	0	20.1	14540	2	18	233			
1937-38	164	339	0	31.4	22740	3	2	685	3	1	166
1938-39	109	49	+	4.25	3080	1	20	51	9	25	1.7
1939-40	110	136	+	4.38	3180	2	4	169			
1940-41		431	0	36.5	26430	3	5	460			

Note: Station at various locations - see station description.

PACOIMA WASH at Parthenia Street (Drainage Area 50.6 square miles) F16R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1928-29	257		0	Negligible				N.D.			
1929-30	107	11	0	0.08	57	1	11	70			
1930-31	159	24	0	0.15	105	2	4	270			
1931-32	78	51	0	0.67	485	2	8	477			
1932-33	141	10	0	0.04	28	1	16	60			
1933-34	141	48	0	0.22	157	1	1	305			
1934-35	154	10	0	0.14	106	1	5	70			
1935-36	154	26	0	0.37	271	2	23	98			
1936-37	166	23	0	0.49	356	2	6	159			
1937-38	166		0		*	3	3	E2400	3	1	319
1938-39	110	53	0	0.52	377	12	15	258	9	25	34
1939-40	111	50	0	0.33	250	1	8	584			
1940-41		309	0	10.6	7640	3	3	843			

PUDDINGSTONE CREEK below Puddingstone Dam (Drainage Area 32.3 square miles) F40R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1927-28	55		0		* 32	2	4	* 0.6			
1928-29	55	0.4	0	0.04	30	12	13	2			
1929-30	112	0.6	0	0.04	30	5	3	1.4			
1930-31	165	0.3	0.01	0.03	23	4	26	0.9			
1931-32	82	3.0	0.01	0.11	81	2	9	15			
1932-33	144	1.3	0	0.05	38	1	29	5			
1933-34	144				*			N.D.			
1934-35	156	1.2	0.01	0.06	44	10	17	4.3			
1935-36	156	2.0	0.01	0.05	36	2	12	13			
1936-37	168	6.1	+	0.27	198	2	6	18			
1937-38	168	99	0.1	6.66	4810	3	7	104			
1938-39	112	23	0.1	1.85	1330	10	30	25	9	25	3.0
1939-40	113	1.0	+	0.20	145	1	7	7			
1940-41		15.7	+	2.47	1790	2	19	25			

RIO HONDO at Lower Azusa Road (Drainage Area, split) F192R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1931-32	84		0		*12710			N.D.			
1932-33	147	937	0	5.25	3800	1	20	5160			
1933-34	147	2700	0	11.2	8110	1	1	5860			
1934-35	158	161	0	11.3	8160	4	8	604			
1935-36	158	114	0	4.68	3400	2	11	391			
1936-37	170	904	0	38.6	27960	2	20	E 1030			
1937-38	170	10500	0	241	174300	3	2	E31000	3	1	4000
1938-39	113	191	0	2.17	1570	1	5	680	9	25	130
1939-40	114	224	0	5.01	3640	1	7	288			
1940-41		2220	0	113	81450	3	4	4000			

YEARLY-DISCHARGE SUMMARY

Year	Water year ending Sept. 30 Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Run-off A.F.	Peak Flows Mo	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
RIO HONDO above Mission Bridge (Drainage Area, split) F64R											
1928-29	83	586	6.5	22.0	15980	11	14	2400			
1929-30	123	252	8.5	18.6	13430	3	15	1260			
1930-31	176	662	4.8	22.7	16410	2	3	4040			
1931-32	85	5092	3.3	65.6	47560	2	9	6320			
1932-33	150	1670	7.5	26.1	18850	1	19	4410			
1933-34	150	4690	3.3	40.0	28970	1	1	E11800			
1934-35	182	885	8.5	40.4	29230	4	8	3560			
1935-36	162	446	10	28.6	20700	2	12	2890			
1936-37	174	989	9.5	70.3	50900	3	15	4800			
1937-38	174	E 12600	13	289	209300	3	2	E28000	3	1	5670
1938-39	115	1280	14	42.4	30650	12	18	5220	9	25	2550
1939-40	116	505	13	38.1	27660	1	7	2380			
1940-41		3490	16	180	130600	3	4	6570			

Note: Station at various locations - see station description.

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Run-off A.F.	Mo	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
RIO HONDO at Stewart and Gray Road (Drainage Area, split) F45R											
1927-28	74		0		* 269	3	6	* 4.0			
1928-29	179	248	0	3.41	2460	4	4	912			
1929-30	132	285	0	2.76	2000	3	15	743			
1930-31	170	335	0	2.64	1900	2	4	841			
1931-32	88	3440	0	27.4	19920	2	9	4610			
1932-33	154	971	0	6.15	4450	1	19	2730			
1933-34	154	5810	0	23.5	17050	1	1	E16000			
1934-35	167	667	0	8.28	6000	4	8	3450			
1935-36	167	472	0	5.82	4220	2	12	3160			
1936-37	179	1460	0	37.1	26870	2	14	4800			
1937-38	179	12700	0	238	172100	3	3	E2400	3	1	7600
1938-39	118	910	0	13.2	9540	12	18	5260	9	25	3230
1939-40	119	442	0	6.67	4850	1	8	1930			
1940-41		3690	0	129	93260	3	4	6420			
RIO HONDO SLOUGH at San Gabriel Boulevard F83R											
1929-30	117	20	14	17.0	12290	2	3	20			
1930-31	187	37	12	16.4	11820	2	4	49			
1931-32	90	37	13	16.7	12120	2	8	44			
1932-33	158	32	11	16.2	11720	1	29	51			
1933-34	158	84	7.5	12.5	9030	1	1	166			
1934-35	171	17	9.5	12.6	9140	4	8	22			
1935-36	171	26	9.5	13.5	9810	2	12	38			
1936-37	182	51	10	15.0	10840	2	14	84			
1937-38	182		15		*11220			N.D.	3	1	91
1938-39	120	77	19	22.5	16320	9	25	118			
1939-40	121	52	15	22.3	16210	1	8	74			
1940-41		86	17	25.1	18120	3	4	104			
RUBIO WASH at Glendon Way (Drainage Area, 13.4 square miles F82C-R											
1929-30	143	81	0	1.46	1060	3	14	661			
1930-31	194	107	0	1.54	1110	2	3	1690			
1931-32	92	124	0	2.05	1490	11	27	798			
1932-33	161	234	0	1.53	1110	1	16	1510			
1933-34	161	684	0	3.57	2580	12	31	2070			
1934-35	173	134	0	2.44	1770	10	17	1680			
1935-36	173	81	0	1.75	1280	2	22	1370			
1936-37	185	186	0		2800	12	27	1180			
1937-38	185	802	0	5.77	4180	3	2	E 2400	2	28	1480
1938-39	122	250	0	3.29	2370	1	5	1720	9	25	580
1939-40	123	122	0	2.37	1720	1	7	1000			
1940-41		200	0	8.14	5890	3	3	1940			

Note: Station at various locations - see station description.

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Run-off A.F.	Mo	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
SAN ANTONIO CREEK at Mouth of canyon (Drainage Area, 28.0 square miles) F151R											
1930-31	199		0		* 201	4	26	98			
1931-32	94	263	0	10.7	7800	2	8-9	495			
1932-33	164	33	0	0.15	111	1	19	167			
1933-34	164	123	0	0.87	630	1	1	200			
1934-35	175	87	0	9.43	6840	1	8	202			
1935-36	175	50	0	9.27	1640	2	11	208			
1936-37	187	211	0	31.2	22550	2	14	238			
1937-38	187	6620	0	58.4	42300	3	2	E23400	3	1	1220
1938-39	124	148	0	1.98	1430	9	25	280			
1939-40	124	78	0	3.89	2820	1	8	286			
1940-41		250	0	39.5	28570	3	12	368			
SAN GABRIEL RIVER-WEST FORK above S.G. Dam No. 2 (Drainage Area, 14.4 square miles) F228R											
1933-34	174		0		*	1	1	1850			
1934-35	237	403	0	15.1	10900	4	8	755			
1935-36	237	121	0	2.78	1200	2	12	570			
1936-37	191	470	+	26.3	19050	12	27	1220			
1937-38	191			Station abandoned				N.D.			
SAN GABRIEL-DEVIL'S CANYON CREEK above S.G. Dam No. 2 (Drainage Area, 15.4 square miles) F227R											
1933-34	176		0		*	1	1	1560			
1934-35	188	177	0	8.18	5930	4	8	288			
1935-36	188	75	0	2.49	1810	2	12	204			
1936-37	194	232	0	12.4	8980	2	6	367			
1937-38	194			Station abandoned				N.D.			

YEARLY-DISCHARGE SUMMARY

Year	Water year ending Sept. 30 Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Peak Flows Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
SAN GABRIEL RIVER - WEST FORK below S.G. Dam No.2 (Drainage Area, 41.0 square miles) F209R											
1933-34	178				*	1	1	4400			
1934-35	240	594	+	27.2	19700	12	13	1260			
1935-36	240	43	0.2	9.76	7090	2	17	45			
1936-37	196	577	+	46.4	33580	2	14	752			
1937-38	196	6620	0.7	81.4	58920	3	2	E25000			
1938-39	126	683	0.4	15.7	11360	9	25	1190			
1939-40	126	141	0.6	12.9	9370	1	15	1240			
1940-41		1130	0.5	82.6	59810	2	22	1160			
SAN GABRIEL RIVER - WEST FORK above North Fork (Drainage Area, 49 square miles) F97R											
1929-30	197	129	0.2	10.8	7790	3	14	206			
1930-31	231	366	0.05	9.31	6740	4	26	751			
1931-32	100	2090	0.1	36.4	26420	2	8	2700			
1932-33	182	996	0.1	14.1	10190	1	19	2890			
1933-34	182	1600	0.1	16.6	12050	1	1	4840	Station abandoned		
SAN GABRIEL-BEAR CREEK above West Fork (Drainage Area, 27.9 square miles) F99B-R											
1929-30	166	76	0.1	10.6	7660	5	3	108			
1930-31	245	279	0.1	6.22	4500	4	26	527			
1931-32	102	1090	0.8	22.8	16620	2	9	1510			
1932-33	186	182	0.02	9.12	6600	1	19	566			
1933-34	186	732	0	9.24	5470	1	1	1600			
1934-35	185				*			N.D.			
1935-36	185	156	0.2	8.89	6400	2	12	410			
1936-37	202	614	0.2	37.9	27440	2	14	736			
1937-38	202			Station abandoned		3	2	E12500			

Note: Station at various locations - see station description.

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
SAN GABRIEL RIVER-NORTH FORK above Narrows (Drainage Area, 18.8 square miles) F98R											
1929-30	178	16	1.5	4.10	2970	5	3	18			
1930-31	239	11	1.8	3.45	2500	4	26	16			
1931-32	105	186	1.8	11.9	8600	2	8	223			
1932-33	190	49	1.4	4.97	3600	1	19	126			
1933-34	190	186	0.8	4.50	3260	1	1	276			
1934-35	209	76	1.0	11.2	8140	4	8	111			
1935-36	209	36	1.6	5.94	4310	2	2	85			
1936-37	205	140	1.7	23.1	16750	3	13	198			
1937-38	205			Station abandoned				N.D.	3	1	1020
SAN GABRIEL RIVER-WEST FORK above Forks (Drainage Area, 102 square miles) P3R											
1927-28	18	704	1.6	17.9	15180	2	4	1620			
1928-29	15	422	0	20.7	14960	4	4	775			
1929-30	192	225	1.9	25.5	18470	3	15	301			
1930-31	264	676	1.2	20.2	14630	4	26	1530			
1931-32	107	598	1.4	76.1	55360	2	9	3790			
1932-33	193	1360	2.5	33.1	23990	1	19	3460			
1933-34	193	3340	1.5	34.5	24990	1	1	5320			
1934-35	225	1180	1.9	77.5	56110	4	8	1840			
1935-36	225	312	2.5	31.8	23070	2	12	752			
1936-37	208	1640	2.7	133	96590	2	14	2000			
1937-38	208		13	237	171900	3	2	E 34000	3	1	3460
1938-39	128	1140	7.5	46.5	33660	9	25	2530			
1939-40	129	369	6.5	38.2	27720	1	8	1220			
1940-41		2870	7	237	171400	2	20	E 3000			

Note: Station at various locations - see station description.

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
SAN GABRIEL RIVER-EAST FORK above Cattle Canyon (Drainage Area, 58.2 square miles) P2R											
1927-28	27	168	5.5	18.5	15680	2	4	267			
1928-29	22	242	4.7	24.4	17670	3	10	448			
1929-30	186	101	7	29.8	21540	5	3	122			
1930-31	255	168	8.5	21.0	15200	4	26	267			
1931-32	96	2520	8.5	73.5	53410	2	8	3340	Station abandoned		
SAN GABRIEL RIVER-EAST FORK below Cattle Canyon (Drainage Area, 78.4 square miles) F96R											
1929-30	72	114	6	34.3	24850	5	16	108			
1930-31	222	422	6	26.3	19020	4	26	777			
1931-32	97	3650	10	93.5	67910	2	8	4700			
1932-33	166	148	6	29.4	21260	1	19	310			
1933-34	166	2640	4.2	32.4	23480	1	1	4200	Station abandoned		
SAN GABRIEL RIVER-EAST FORK above forks (Drainage Area, 88.2 square miles) P4B-R											
1932-33	170	163			*18990	1	19	335			
1933-34	170	6210	4.5	47.3	34230	1	1	8500			
1934-35	198	638	4.5	85.4	61840	4	8	1080			
1935-36	198	428	8	40.7	29590	2	11	1290			
1936-37	214	1440	9	148	107400	2	14	2180			
1937-38	214	10000	20	208	150800	3	2	E 46000	3	1	4660
1938-39	133	303	14	43.6	31590	12	18	716			
1939-40	132	430	14	42.0	30500	1	8	1360			
1940-41		1110	12	183	132400	2	20	1870			

Note: Station at various locations - see station description.

YEARLY-DISCHARGE SUMMARY

YEARLY-DISCHARGE SUMMARY

SAN GABRIEL RIVER near Roberts Relay Station (Drainage Area, 201 square miles) F233R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Peak Flows Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1934-35	212	2580	7.5	176	127100	4	8	4850			
1935-36	212	706	12	73.6	53410	2	12	1530			
1936-37	222	Station abandoned			*26550			N.D.			

SAN GABRIEL RIVER at Edison Intake (Drainage Area, 202 square miles) F28R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Peak Flows Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1927-28	4	916	5.	47.6	34430	2	4	1830			
1928-29	1	600	3.5	49.9	36160	3	10	990			
1929-30	204	455	10	64.8	46830	5	3	799			
1930-31	204	1250	11	49.3	35690	4	26	2900			
1931-32	110	7530	11	182	132600	2	9	9110			
1932-33	199	2420	7.5	67.3	48710	1	19	7550			
1933-34	199	10700	5.5	86.9	62910	1	1	18000			
1934-35	192	2580	7.5	176	127400	4	8	4770			
1935-36	192	663	12	73.2	53180	2	12	E 1330			
1936-37	224	Station abandoned			*182600	2	14	4240			

SAN GABRIEL -AZUSA CONDUIT at Weir below San Gabriel Dam No. 1 (Regulated flow) F250R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Peak Flows Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1934-35	183				* 36610						
1935-36	183	109	0	42.1	30540						
1936-37	227	94	0	27.3	19740						
1937-38	227	104	0	15.4	11160						
1938-39	138	103	0	5.91	4280						
1939-40	135	94	0	47.4	34440						
1940-41		110	0	23.8	17220						

SAN GABRIEL-AZUSA CONDUIT at Garcia Canyon (Regulated flow) F220R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Peak Flows Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1932-33	208				*						
1933-34	208	86	0	27.3	19770						
1934-35	178	94	6	64.3	46570						
1935-36	178	86	9	40.7	29500						
1936-37	228	94	+	29.0	21030						
1937-38	228	94	+	16.4	11910						
1938-39	138	0	0	0	0						
1939-40	136	90	+	32.7	23760						
1940-41		89	+	23.2	16820						

SAN GABRIEL-AZUSA-DUARTE TUNNEL DIVERSION near Mouth of San Gabriel Canyon (Regulated Flow) S100A-R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Peak Flows Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1918-19		31.1	0	1.2	866						
1919-20		38.2	0	4.7	3420						
1920-21		43.8	0	3.8	2750						
1921-22		34.5	0	6.5	4710						
1922-23		38.1	0	2.7	1960						
1923-24		13.8	0	1.0	718						
1924-25		9.9	0	0.1	40						
1925-26		51.5	0	4.8	3480						
1926-27		56.4	0	6.6	4760						
1927-28		0	0	0	0						
1928-29		19.6	0	0.4	267						
1929-30		54.4	0	5.0	3640						
1930-31		11.6	0	1.5	1120						
1931-32		85.7	0	19.1	13840						
1932-33		68.9	0	8.7	6330						
1933-34		80.8	0	9.0	6540						
1934-35		81.6	0	24.2	17520						
1935-36		84.9	0	17.7	12830						
1936-37		88.1	0	42.3	30640						
1937-38		86.5	0	38.4	27780						
1938-39		80.5	0	33.4	24150						
1939-40		76.0	0	35.0	25380						
1940-41		76.8	0	31.5	22810						

SAN GABRIEL RIVER at Foothill Boulevard (Drainage Area, 230 square miles) F190R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Peak Flows Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1931-32	114		0		*76220			N.D.			
1932-33	215	2530	0	15.7	11400	1	19	10000			
1933-34	215	3150	0	20.3	14690	1	1	5550			
1934-35	204	400	0	81.7	59220	4	8	1080			
1935-36	204	169	0	21.1	15300	2	2	572			
1936-37	231	1610	0	162.	117400	2	19	2050			
1937-38	231		0		*	3	2	E62000	3	1	2530
1938-39	139	220	0	15.0	10850	1	5	267	9	25	82
1939-40	137	388	0	13.7	9980	6	25	400			
1940-41		4090	0	304	220100	3	4	5280			

SAN GABRIEL RIVER near Elliot Avenue (Drainage Area, split) F261R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Peak Flows Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1936-37					*						
1937-38					**						
1938-39	141	125	0.4	8.00	5790			N.D.	*		
1939-40	138	E 125	0.2	1.82	1320	1	8	N.D.			
1940-41		1300	0.2	73.9	53500			N.D.			

SAN GABRIEL RIVER at Beverly Boulevard (Drainage Area, split) F263R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Peak Flows Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1928-29	71	93	0	3.94	2850	3	10	397			
1929-30	161	152	0	4.83	3490	1	11	726			
1930-31	217	106	0	3.44	2490	2	4	404			
1931-32	116	1620	0	18.0	13060	2	9	3830			
1932-33	221	286	0	4.20	3040	1	29	1450			
1933-34	221	5580	0	23.4	16950	1	1	22000			
1934-35	246	746	0	16.8	12190	10	17	5400			
1935-36	246	355	0	6.32	4590	2	12	3400			
1936-37	236	2440	0		*34240	2	14	6970			
1937-38	236	11400	0	131	94810	3	2	E22700	3	1	7920
1938-39	142	672	0	34.1	24620	9	25	2100			
1939-40	139	544	0	27.8	20180	2	1	2110			
1940-41		2700	0	139	100900	3	4	5830			

Note: Station at various locations - see station description.

SAN GABRIEL RIVER at Florence Avenue (Drainage Area, split) F262R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Peak Flows Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1933-34	225		0		*			N.D.			
1934-35	222	718	0	6.50	4700	10	17	5850			
1935-36	222	414	0	2.42	1750	2	12	3400			
1936-37	240				*			N.D.			
1937-38	240				**			N.D.			
1938-39	144	325	0		* 2540	9	25	1380			
1939-40	141	271	0	2.61	1900	1	8	1150			
1940-41		2390	0	105	75780	3	4	5630			

Note: Station at various locations - see station description.

SAN GABRIEL RIVER at Spring Street, Long Beach (Drainage Area, split) F42R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Peak Flows Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1927-28	86	0	0	0	0			0			
1928-29	198	0	0	0	0			0			
1929-30	160	0	0	0	0			0			
1930-31	216	0	0	0	0			0			
1931-32	118	1270	0	9.04	6560	2	9	4490			
1932-33	225	170	0	1.12	809	1	20	2250			
1933-34	225	4860	0	17.1	12370	1	1	15000			
1934-35	220	463	0	3.29	2380	10	17	3390			
1935-36	220	222	0	1.64	1190	2	12	1910			
1936-37	241	1850	0	18.7	13510	2	14	4560			
1937-38	241	14500	0	122	88020	3	2	E 27000	3	1	7370
1938-39	146	265	0	1.50	1080	12	19	956	9	25	620
1939-40	143	E 192	0	2.02	1460	2	3	1400			
1940-41		1710	0	91	65890	3	13	4830			

SAN JOSE CREEK at Workman Mill Road (Drainage Area, 85.0 square miles) F48R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Peak Flows Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1928-29	77	* 35	0		* 310	3	10	* 77			
1929-30	212	100	0	1.13	821	1	15	264			
1930-31	282	92	0.08	0.73	531	2	4	323			
1931-32	120	547	0.06	5.55	4030	2	9	1540			
1932-33	228	192	0.01	1.47	1070	1	29	825			
1933-34	228	2950	0	10.5	7610	1	1	13100			
1934-35	249	441	+	5.33	3860	10	17	2450			
1935-36	249	225	0	1.92	1390	2	12	1010			
1936-37	244	1470	+	13.3	9600	2	14	4070			
1937-38	244	4380	0.4	21.3	15450	3	2	9350	3	1	2900
1938-39	148	499	0.3	4.76	3440	9	25	1950			
1939-40	145	246	0.2	4.15	3020	2	1	1570			
1940-41		1320	0.7	31.4	22750	2	28	2500			

SANTA ANITA CREEK below Big Santa Anita Dam (Drainage Area, 10.8 square miles) F119R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Peak Flows Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1927-28	34	9.5	0.02	1.61	1160	2	5	16			
1928-29	111	9	0.2	1.73	1260	9	11	10			
1929-30	17	3.6	0.2	1.33	964	4	12	3.6			
1930-31	28	8.5	0.2	1.60	1160	2	20	9			
1931-32	24	94	0.3	5.34	3880	12	28	112			
1932-33	52				92020			N.D.			
1933-34	52	373	0.1	3.87	2800	1	1	431			
1934-35	253	90	0.1	5.51	3990	2	16	53	2	20	53
1935-36	253	52	+	3.48	2530			N.D.			
1936-37	247	140	0.1	10.9	7920	2	15	141			
1937-38	247	Station abandoned						N.D.			

Note: Station at various locations - see station description.
o Indicates runoff from Santa Anita Dam outflow records.

SANTA ANITA CREEK above Little Santa Anita Creek (Drainage Area, 12.9 square miles) F260R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Peak Flows Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1936-37	249	140	0	8.91	6450	2	15	174			
1937-38	249	Station abandoned						N.D.	3	1	800

SANTA ANITA WASH at Foothill Boulevard (Drainage Area, 17.2 square miles) F260B-R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Peak Flows Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1938-39	150	46	0	2.32	1680	1	5	128	9	25	47
1939-40	147	58	0	1.46	10620	1	8	248			
1940-41		262	0	17.9	12920	3	4	482			

SANTA ANITA WASH below Arrow Highway (Drainage Area, 18.3 square miles) F193R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Peak Flows Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1932-33	232		0		*			N.D.			
1933-34	232	232	0	1.20	870	1	1	399			
1934-35	256	70	0	0.27	193	4	8	197			
1935-36	256	18	0	0.22	156	2	16	31			
1936-37	252	98	0	2.90	2090	12	27	117			
1937-38	252	Station abandoned						N.D.			

YEARLY-DISCHARGE SUMMARY

SAWPIT WASH above Arrow Highway
(Drainage Area, 6.7+ square miles) F194R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Peak Flows Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1932-33	237	7.5	0	0.04	26	1	19	22			
1933-34	237				**			N.D.			
1934-35	261	11	0	0.07	51	4	8	45	Station abandoned		

SANTA CLARA RIVER at Highway 99
(Drainage Area, 355 square miles) F92B-R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Peak Flows Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1929-30	219	83	0.2	1.10	793	3	15	193			
1930-31	290	291	0.1	2.61	1890	2	7	2310			
1931-32	122	739	0.1	5.89	4280	2	9	2090			
1932-33	233	90	0	0.67	488	1	19	618			
1933-34	233	448	0.01	2.21	1600	1	1	3870			
1934-35	259	82	+	1.51	1090	1	5	608			
1935-36	259	113	0	2.19	1590	2	23	833			
1936-37	254	471	0	6.69	4850	12	27	3410			
1937-38	254	6370	+	37.2	26900	3	2	E 24000	3	1	1570
1938-39	151	E 435	+	14.4	10410	12	15	4620	9	25	550
1939-40	140	79	0.3	2.16	1570	2	1	676			
1940-41		3450	0.3	57.1	41320	3	4	5050			

Note: Station at various locations - see station description.

SEPULVEDA CREEK at Charnock Road
(Drainage Area, 25.7 square miles) F185R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Peak Flows Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1932-33	238	255	0	3.01	2180	1	29	834			
1933-34	238	426	0	3.51	2540	12	31	1150			
1934-35	262	226	0.1	4.08	2950	4	8	1560			
1935-36	262	202	0	4.03	2920	2	12	1810			
1936-37	257		0		*	2	14	1980			
1937-38	257		0		*	3	2	E 3100			
1938-39	153	256	0	2.99	2170	9	25	1080			
1939-40	150	291	0	3.83	2780	2	2	1890			
1940-41		373	+	13.0	9460	12	23	3010			

SYCAMORE UPPER STORM DRAIN above Solway Street
(Drainage Area, 2.7 square miles) F43R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Peak Flows Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1927-28	88		0		* 63	2	3	* 25	5	8	* 25
1928-29	238	13	0	1.07	77	3	10	62			
1929-30	226	24	0	0.22	160	3	14	24			
1930-31	299	6.5	0	0.06	40	2	4	20			
1931-32	125	12	0	0.57	415	2	9	58			
1932-33								N.D.			
1933-34								N.D.			
1934-35	268							N.D.			
1935-36	268		0		*	3	30	252			
1936-37					**			N.D.			
1937-38					**			N.D.			
1938-39	155	5.5	0	0.19	139	1	5	74	9	25	6.3
1939-40	154	3.3	0	0.14	100	2	1	55			
1940-41		79.0	0	1.19	864			N.D.			

SYCAMORE LOWER STORM DRAIN at Adams Square
(Drainage Area, 6.2 square miles) F44R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Peak Flows Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1927-28	34		0		* 103	2	3	* 34			
1928-29	244	* 73	0		* 253	11	14	904			
1929-30	231	51	0	0.49	353	5	3	51			
1930-31	304	14	0	0.26	190	2	3	212			
1931-32	127	35	0	0.84	611	11	27	191			
1932-33	242	46	0	0.39	283	1	19	401			
1933-34	242	366	0	2.46	1780	1	1	1150			
1934-35	266	65	0	1.53	1110	1	5	591			
1935-36	266	31	0		*	3	30	607			
1936-37	259	56	0		*1760	12	27	365			
1937-38	259				**	3	2	E 2800	2	28	547
1938-39	156	68	0	1.37	992	1	5	314	9	25	314
1939-40	152	33	0	0.81	585	1	7	492			
1940-41		200	0	4.51	3260			N.D.			

THOMPSON CREEK SPREADING GROUNDS INTAKE
at Thompson Creek Dam
(Drainage Area 3.7 square miles) F276R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Peak Flows Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1940-41		11	0	0.48	345	4	1	19			

TOPANGA CREEK above Mouth of Canyon
(Drainage Area, 18.0 square miles) F54B-R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Peak Flows Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1929-30	237				* 647	3	14	340			
1930-31	310	186	0.01	0.97	705	2	4	386			
1931-32	129	127	0.02	4.94	3590	2	8	1250			
1932-33	245	542	0.01	3.09	2240	1	19	1430			
1933-34	245	1590	0	8.87	6420	12	31	4510			
1934-35	270	130	+	1.88	1360	1	5	1200			
1935-36	270	77	+	2.05	1490	2	22	528			
1936-37	261	413	+	9.13	6620	3	15	1130			
1937-38	261	3270	+	21.2	15310	3	2	E 9300	2	28	6630
1938-39	158				**			N.D.			
1939-40	155	183	+	2.86	2080	2	1	1280			
1940-41		1100	+	26.2	18940	2	20	E 8700			

YEARLY-DISCHARGE SUMMARY

VERDUGO CHANNEL at Estelle Avenue
(Drainage Area, 22.4 square miles) F252R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Peak Flows Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1928-29	232	* 15	0		* 140	4	4	* 56			
1929-30	242	14	0	0.04	274	5	3	80			
1930-31	317	8.5	0.01	0.20	145	2	26	46			
1931-32	131	39	0.1	0.98	713	2	9	115			
1932-33	249	42	0.1	0.41	295	1	19	391			
1933-34	249				**			N.D.			
1934-35	273	85	0		* 620	1	5	*1020			
1935-36	273	33	0	0.64	463	3	30	*1100			
1936-37	264		0		*1560	12	27	768			
1937-38	264	1500	0	7.52	5450	3	2	E 4400	2	28	1390
1938-39	159	78	0	1.96	1420	1	5	520	9	25	320
1939-40	157	60	+	1.97	1430	1	8	533			
1940-41		357	+	10.2	7370	2	19	1120			

Note: Station at various locations - see station description.

WALNUT CREEK at Covina Boulevard
(Drainage Area, 99.0 square miles) F47R

Year	Page No.	Max. Day-CFS	Min. Day-CFS	Mean C.F.S.	Runoff A.F.	Peak Flows Mo.	Day	Flow C.F.S.	Mo.	Day	Flow C.F.S.
1928-29	38	* 55	0		* 112	3	10	* 302			
1929-30	247	87	0	0.72	526	1	11	900			
1930-31	322	25	0	0.29	210	2	4	123			
1931-32	133	365	0	3.88	2820	2	9	1780			
1932-33	252	129	0	0.73	530	1	19	748			
1933-34	252	1770	0	8.71	6310	1	1	8060			
1934-35	277	321	0	2.66	1920	10	17	2340			
1935-36	277	291	0	2.29	1670	2	12	2450			
1936-37	266	611	0	5.94	4300	2	6	1980			
1937-38	266	2580	0	17.4	12610	3	2	4290	3	1	3450
1938-39	161	146	0	1.40	1010	12	18	751	9	25	284
1939-40	158	173	0	1.27	923	1	7	1870			
1940-41		561	0	10.1	7300	3	13	2680			

* indicates record incomplete.
** indicates record not computed.
E indicates estimated.
N.D. indicates not determined, due to insufficient data.

DAM OPERATION RECORDS

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Hydraulic Division

DAM OPERATION

Season 1940-41

Foreword:

The Los Angeles County Flood Control District operated sixteen dams and sixteen debris basins during this season. In addition the United States Engineer Department operated Hansen Dam on Tujunga Wash while Sepulveda Dam on the Los Angeles River was under construction. Pertinent data relative to the Flood Control District's dams and debris basins are presented in the two following tables.

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
1	Pacoima	Feb. 1929	27.8	6060.	5004.
*2	Sunset Canyon	Nov. 1929	0.4	9.	5.
3	Big Tujunga No. 1	July 1931	81.4	6240.	4425.
4	Devil's Gate	June 1920	31.9	4554.	2967.
5	Eaton Wash	Feb. 1937	9.5	956.3	711.
*6	Sierra Madre	Feb. 1928	2.4	55.	34.
7	Big Santa Anita	Mar. 1927	10.8	1376.	710.
8	Sawpit	June 1927	3.3	476.	342.
9	San Gabriel No. 2	Apr. 1934	40.4	12298.	11102.
10	San Gabriel No. 1	July 1939	o161.6	53334.	46335.
11	Big Dalton	Aug. 1929	4.5	1290.	969.
12	San Dimas	Sept.1922	16.2	1496.	1189.
**13	Puddingstone Div.	July 1928	2.6	147.5	76.
14	Puddingstone	Jan. 1928	oo11.0	17398.	17190.
15	Live Oak	Nov. 1922	2.3	250.	227.
16	Thompson Creek	Mar. 1928	3.7	812.	812.

Total drainage area 409.8 square miles controlled by 92098 acre feet of storage capacity.

* Debris Dams.

** For diversion of flow only.

o Exclusive of San Gabriel Dam No. 2.

oo Exclusive of Live Oak, San Dimas and Puddingstone Diversion Dams.

NOTE: Storage capacities are corrected for debris encroachment or sluicing whenever surveys or other information is made available. Drainage areas are corrected whenever the United States Geological Survey makes new topography available.

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

Debris Basin	Date of Completion	Drainage Area Sq.Mi.	Initial Design Capacity Cubic Yards	Approximate Debris Inflow for Season Cubic Yards
1 Dunsmuir	10-20-36	0.84	128200	6750
2 Shields	1-26-37	0.27	42800	2200
3 Eagle-Goss	10-20-36	0.61	71900	9000
4 Hall-Beckley	2-21-35	0.84	89300	12200
5 Pickens	2-19-35	1.84	109800	13500
6 Snover	3- 9-37	0.23	31000	1000
7 Hay	10-20-36	0.20	37800	1100
8 Verdugo	3- 9-35	15.24	105700	70000
9 Brand	11-12-35	1.03	69500	1050
10 Nichols	11-23-37	0.94	32200	4200
11 Lincoln	1-17-36	0.50	34700	13600
12 Fern	12- 5-35	0.50	16600	4100
13 West Ravine	12-10-35	0.25	31500	4100
14 Fair Oaks	12-29-35	0.21	14500	2600
15 Los Flores	4-15-36	0.42	33900	3900
16 Stough	1-23-41	1.65	108900	21300
17 Aliso Creek-Wilbur Ave	under construction	8.63	52600	

Purpose:

Dams in the Los Angeles County Flood Control District serve two opposed 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, conservation benefits may be realized from regulated flood releases. Such regulated releases, being of longer duration than the flash flood peak, in general, permit greater total channel percolation.

Operation:

Due to certain inadequate and unimproved channels in the valley reaches below the dams, proper flood regulation is necessary for moderate as well as important storms in order to avoid damage below the mountain drainage areas. Sufficient 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 as can be released immediately after cessation of a storm in such quantities as will percolate in the existing channels and spreading grounds downstream. The storage of all excessive runoff is usually commenced when the threat of the winter flood season is passed. Water stored in this manner is conserved for use as a surface supply or allowed to percolate in the natural stream channels and spreading grounds.

Sluicing operations at several reservoirs were continued during this season. As an indication of the volume and cost of this work, data from a portion of the reservoirs sluiced are summarized in the following table. Volume of debris removed was determined on the basis of the flow used in sluicing, transporting 7% silt by volume. This was considered a conservative estimate as frequent samples indicated percentages of silt of more than twice this amount.

Sluicing at Los Angeles County

Flood Control District's Dams during Season

Dam	Yardage Sluiced	Total Cost	Cost per Cubic Yard
Big Tujunga #1	1,239,000 c.y.	$4034.	$0.003
Devil's Gate	735,000 c.y.	$2797.	$0.004
Santa Anita	36,100 c.y.	$2678.	$0.074
Sawpit	82,950 c.y.	$3857.	$0.046

The District is continuing the establishment of a comprehensive communication system with the dams. This season witnessed the installation of several additional radio transmitters at the District's dams. Seven dams are now included in a system of sixteen strategically located stations. These stations together with a comprehensive telephone system and modern weather forecasting provide the means of correlating reservoir operation with weather conditions.

Records:

The daily storage and flow records at each dam are summarized 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 are based on actual topographic surveys. Topography is redetermined and the storages are corrected as frequently as is practical.

(3) Inflows in cubic feet per second show the average daily flow into the reservoir. These are usually determined from storage change and known outflow. When outflow records are unreliable, 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 Devil's Gate, Eaton, Puddingstone, Puddingstone Diversion, Thompson Creek and Live Oak Dams 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:

The highest annual rainfall since the inception of Flood Control work in Los Angeles County was experienced during this season. The rainfall index stood at over 200% at the end of the season but no serious floods had occurred. Runoff was characterized, in general, by extended periods of high flow without any major flood peaks. In volume, the season's total runoff was of nearly the same magnitude as that which occurred during the 1938 flood year. Reservoir and channel capacities were repeatedly taxed throughout the season although nearly all districts of the county escaped with little or no damage.

The following table shows the magnitude of the season's total inflow with respect to the available storage capacity.

Dam	Annual Inflow A.F.	Storage Capacity Spillway Lip-A.F.	Annual Inflow ÷ Storage Capacity
Pacoima	25789.	5004.	5.2
Big Tujunga #1	59402.	4425.	13.4
Devil's Gate	27013.	2967.	9.1
Eaton Wash	7323.	711.	10.3
Santa Anita	15224.	710.	21.4
Sawpit	2180.	342.	6.4
San Gabriel #2	61270.	11102.	5.5
San Gabriel #1	306801.	46335.	6.6
Big Dalton	2767.	969.	2.9
San Dimas	9645.	1189.	8.1
Puddingstone	12030.	17190.	0.7
Live Oak	719.	227.	3.2
Thompson Creek	640.	812.	0.8
	530803.	91983.	5.8

Apparent indications are that debris encroachment was moderate during this season. Actual determinations based on surveys will be available later and summarized in subsequent reports.

An annual summary of available Dam operation records for each year of record begins on page 250.

Responsibility:

Preparation of the operation records was under the direction of H. A. van der Goot and the supervision of W. J. Wood.

Reservoir operation was under the direct supervision of Finley B. Laverty, Chief--Hydraulic Division. Dam and debris basin maintenance was under the supervision of R. D. Reeve, Engineer of Maintenance and Operation.

DAM OPERATION RECORDS

PACOIMA

F. C. Dist. Form 68 Revised 600 5/39

Storages based on Debris Determinations 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 PACOIMA Dam

In Pacoima Canyon for the Year Ending September 30, 1941

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				NOVEMBER				DECEMBER				JANUARY				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	1818.5	516.4	0	E 2.3	1797.4	237.6	(0.2	0	1798.4	248.9	(0.1	0	1814.2	452.4	2.9	0	1
2	1818.2	511.8	0	2.3	1797.5	238.7	0.2	0	1798.4	248.9	0.1	0	1814.5	456.8	2.2	0	2
3	1817.9	507.2	0	2.4	1797.6	239.8	0.2	0	1798.4	248.9	0.1	0	1814.8	461.2	2.2	0	3
4	1817.1	495.2	0	6.0	1797.7	240.9	0.2	0	1798.4	248.9	0.1	0	1815.0	464.1	1.5	0	4
5	1815.1	465.6	0	14.9	1797.7	240.9	0.2	0	1798.4	248.9	0.1	0	1815.2	467.0	1.4	0	5
6	1813.0	435.3	0	15.3	1797.7	240.9	0.2	0	1798.4	248.9	0.1	0	1815.5	471.4	2.3	0	6
7	1811.7	417.0	0	9.2	1797.8	242.1	0.2	0	1798.4	248.9	0.1	0	1815.9	477.2	2.9	0	7
8	1810.8	404.5	0	6.3	1797.8	242.1	0.2	0	1798.5	250.1	0.1	0	1816.1	480.2	(1.9	0	8
9	1809.9	392.2	0	6.2	1797.8	242.1	0.2	0	1798.5	250.1	0.05	0	1816.4	484.7	1.9	0	9
10	1809.2	382.8	0	4.8	1797.9	243.2	0.2	0	1798.5	250.1	0.05	0	1816.7	489.2	2.2	0	10
11	1808.4	372.1	0	5.4	1797.9	243.2	0.2	0	1798.5	250.1	0.05	0	1817.1	495.2	3.1	0	11
12	1807.7	362.8	0	4.7	1797.9	243.2	0.2	0	1798.5	250.1	0.05	0	1817.4	499.7	2.2	0	12
13	1806.9	352.4	0	5.2	1797.9	243.2	0.2	0	1798.5	250.1	0.05	0	1817.7	504.2	2.3	0	13
14	1806.1	342.0	0	5.2	1798.0	244.3	0.2	0	1798.5	250.1	0.05	0	1818.2	511.8	3.8	0	14
15	1805.3	331.9	0	5.1	1798.0	244.3	0.2	0	1798.6	251.2	0.1	0	1818.6	517.9	3.1	0	15
16	1804.5	321.8	0	5.1	1798.0	244.3	0.2	0	1799.1	257.0	2.9	0	1819.0	524.1	3.1	0	16
17	1803.7	311.8	0	5.1	1798.0	244.3	0.2	0	1802.2	293.5	18.4	0	1819.3	528.7	2.3	0	17
18	1802.8	300.9	0	5.5	1798.1	245.5	0.6	0	1802.2	293.5	0.3	0	1819.6	533.3	2.4	0	18
19	1802.0	291.1	0	4.9	1798.2	246.6	(0.2	0	1802.3	294.8	0.3	0	1819.8	536.4	(2.0	0	19
20	1801.1	280.4	0	5.4	1798.2	246.6	0.2	0	1802.3	294.8	0.2	0	1820.1	541.1	1.9	0	20
21	1800.2	269.8	0	5.3	1798.2	246.6	0.2	0	1802.4	296.0	0.2	0	1820.5	547.4	3.2	0	21
22	1799.2	258.2	0	5.9	1798.3	247.8	0.2	0	1802.4	296.0	0.2	0	1821.0	555.3	4.0	0	22
23	1798.2	246.6	0	5.8	1798.3	247.8	0.2	0	1805.8	338.2	21.3	0	1821.5	563.2	3.9	0	23
24	1797.3	236.5	0	5.1	1798.3	247.8	0.1	0	1809.4	385.5	23.9	0	1824.9	618.4	27.9	0	24
25	1796.9	232.0	0.5	E 2.8	1798.4	248.9	0.1	0	1811.0	407.3	11.0	0	1826.7	648.6	15.2	0	25
26	1797.1	234.2	1.1	0	1798.4	248.9	0.1	0	1811.7	417.0	4.9	0	1828.8	684.6	(18.1	0	26
27	1797.2	235.3	0.6	0	1798.4	248.9	0.1	0	1812.1	422.5	2.7	0	1830.3	710.8	13.3	0	27
28	1797.4	237.6	(0.3	0	1798.4	248.9	0.1	0	1812.5	428.2	2.9	0	1831.6	734.0	11.6	0	28
29	1797.4	237.6	0.3	0	1798.4	248.9	0.1	0	1812.8	432.5	2.2	0	1832.7	753.8	10.0	0	29
30	1797.4	237.6	0.3	0	1798.4	248.9	0.1	0	1813.3	439.6	3.5	0	1833.7	772.0	9.2	0	30
31	1797.4	237.6	0.2	0					1813.8	446.7	3.6	0	1834.6	788.7	8.4	0	31
TOTAL			3.3	146.2			5.7	0			99.7	0			172.4	0	
Inf. Ac. Ft.			6.5				113				197.8				342.0	557.6	
Outf. Ac. Ft.				290.0				0				0			0	2900	
Maximum Mean Daily Inflow			1.1				0.2				2.9				27.9	27.9	
Minimum Mean Daily Inflow			0				0.1				0.05				1.4	0	
Storage Change			-283.4				+113				+197.8				+342.0	+267.7	

REMARKS: Outflows as indicated by valve operation records and flows at Station F118B-R.

½ Year

Max. W. S. Elev.	1938.9	feet on 4/19&20/41	Storage 4342.2	Acre Feet		
Min. W. S. Elev.	1796.9	feet on 10/25/40	Storage 232.0	Acre Feet		
Max. Peak Inf.	815.	C.F.S. from 6:00 p.m. on 3/4/41	to 7:30 p.m. on 3/4/41			
Max. Peak Outf.	430.	C.F.S. from for several hours	to	on 3/5/41		

RECORDS COLLECTED BY

E. K. De Vore	Dam Tender
J.W. Luce	Hydrographer
	Hydrographer

COMPUTATIONS — Date

Gage Hts. copied	H.A.V.
Storage applied	C.G.G.
Inf. & Outf. computed	H.A.V.
Checked G.H.M.	2/27/42

Gage Heights and Storages as of midnight on date shown.

(= Mean for period.
E = Estimated

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 PACOIMA Dam

In Pacoima Canyon for the Year Ending September 30, 1941

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				MARCH				APRIL				MAY				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	1835.4	803.5	7.5	0	1888.7	2149.7	202.7	100.0	1881.1	1909.2	119.8	42.0	1936.0	4180.7	78.7	76.0	1
2	1836.1	816.6	6.6	0	1891.6	2246.7	194.0	145.0	1884.0	1998.6	117.1	72.0	1935.4	4148.2	72.6	89.0	2
3	1836.7	828.0	5.7	0	1890.5	2209.6	194.2	213.0	1886.0	2061.9	104.9	73.0	1934.6	4104.8	67.2	89.0	3
4	1837.2	837.5	4.8	0	1906.1	2778.5	535.9	249.0	1891.5	2243.3	152.4	61.0	1933.7	4056.3	64.5	89.0	4
5	1837.7	847.0	4.8	0	1911.9	3016.0	520.7	401.0	1900.4	2559.6	190.5	31.0	1932.6	3997.8	59.5	89.0	5
6	1839.6	883.8	18.5	0	1910.3	2949.1	360.3	394.0	1907.2	2822.6	150.6	18.0	1931.4	3934.7	55.2	87.0	6
7	1840.5	901.6	9.0	0	1903.7	2684.7	252.7	386.0	1913.1	3057.2	140.3	17.0	1930.1	3867.0	52.9	87.0	7
8	1841.4	919.5	9.0	0	1898.4	2485.9	197.8	298.0	1918.1	3287.1	126.9	16.0	1928.8	3800.7	52.5	86.0	8
9	1842.2	935.5	8.1	0	1891.8	2253.5	167.8	285.0	1922.0	3467.3	127.8	37.0	1927.4	3730.0	50.4	86.0	9
10	1842.9	949.7	7.2	0	1883.5	1983.1	157.6	294.0	1925.6	3640.7	142.5	55.0	1925.9	3655.3	48.3	86.0	10
11	1847.2	1039.2	45.1	0	1874.1	1703.5	145.1	286.0	1930.1	3867.0	195.1	81.0	1924.4	3582.2	49.2	86.0	11
12	1851.1	1124.2	42.8	0	1870.5	1603.5	186.6	237.0	1932.1	3971.2	169.5	117.0	1922.8	3505.5	47.3	86.0	12
13	1845.1	995.0	31.9	97.0	1868.4	1546.9	163.4	192.0	1933.7	4056.3	154.9	112.0	1921.2	3429.9	47.9	86.0	13
14	1843.0	951.8	34.2	56.0	1866.9	1507.3	143.1	163.0	1935.2	4137.3	151.8	111.0	1919.6	3355.6	48.5	86.0	14
15	1848.4	1064.9	57.1	0	1867.3	1517.8	130.3	125.0	1936.3	4197.3	139.3	109.0	1917.9	3278.0	45.9	85.0	15
16	1854.2	1194.4	65.2	0	1868.5	1549.6	127.0	111.0	1937.1	4241.6	130.3	108.0	1916.5	3215.5	44.5	76.0	16
17	1862.4	1391.8	159.6	60.0	1869.0	1563.0	117.8	111.0	1937.7	4274.6	125.6	109.0	1914.7	3136.3	39.1	79.0	17
18	1861.0	1357.0	95.4	113.0	1871.2	1622.7	103.1	73.0	1938.0	4291.4	117.3	109.0	1913.0	3063.0	(37.7	79.0	18
19	1862.2	1386.8	89.0	74.0	1873.6	1689.4	95.6	62.0	1938.9	4342.2	115.6	90.0	1912.0	3020.2	37.7	55.0	19
20	1877.9	1813.3	245.1	30.0	1874.9	1726.3	89.6	71.0	1938.8	4336.6	108.2	111.0	1910.0	2936.5	31.8	74.0	20
21	1887.5	2110.4	274.8	125.0	1874.7	1720.6	84.1	87.0	1938.4	4314.0	97.6	109.0	1907.9	2850.6	27.7	71.0	21
22	1889.9	2189.4	303.8	264.0	1874.1	1703.5	77.4	86.0	1937.9	4285.9	96.8	111.0	1905.8	2766.7	(26.1	69.0	22
23	1891.6	2246.7	193.9	165.0	1873.3	1681.0	74.6	86.0	1937.2	4247.1	89.5	109.0	1903.7	2684.7	26.0	70.0	23
24	1891.7	2250.1	162.7	161.0	1872.2	1650.2	70.5	86.0	1936.4	4202.8	88.6	111.0	1901.5	2600.9	26.0	65.0	24
25	1889.4	2172.9	124.1	163.0	1870.6	1611.7	66.6	86.0	1935.4	4148.2	83.5	111.0	1899.2	2515.2	(24.2	66.0	25
26	1884.9	2027.1	92.5	166.0	1869.2	1568.4	63.2	85.0	1934.9	4121.0	73.3	87.0	1896.8	2428.2	24.2	68.0	26
27	1878.5	1831.1	75.1	174.0	1867.3	1517.8	59.5	85.0	1934.6	4104.8	66.8	75.0	1895.1	2367.8	(24.1	56.0	27
28	1832.3	1945.9	150.9	93.0	1868.5	1549.6	73.0	57.0	1934.2	4083.1	65.1	76.0	1892.7	2284.3	23.9	66.0	28
29					1872.3	1653.0	112.1	60.0	1933.7	4056.3	62.5	76.0	1890.3	2202.8	21.9	63.0	29
30					1871.7	1636.4	68.7	77.0	1935.9	4175.3	102.0	42.0	1887.8	2120.1	20.8	62.0	30
31					1875.9	1754.9	88.7	29.0					1885.1	2033.4	20.8	65.0	31
TOTAL			2324.4	1741.0			4923.7	5020.0			3606.5	2386.0			1297.1	2377.0	
Inf. Ac. Ft.			4610.4				9766.1				7153.0				2572.8	24659.9	
Outf. Ac. Ft.				3453.2				9957.0				4732.6			4714.7	23147.5	
Maximum Mean Daily Inflow			303.8				535.9				195.1				78.7	535.9	
Minimum Mean Daily Inflow			4.8				59.5				62.5				20.8	0	
Storage Change			+1157.2				-191.0				+2420.4				-2141.9	+1512.4	

REMARKS: Outflows as indicated by valve operation records and flows at Station F118B-R.

½ Year

Max. W. S. Elev.	1938.9	feet on 4/19&20/41	Storage 4342.2	Acre Feet		
Min. W. S. Elev.	1796.9	feet on 10/25/40	Storage 232.0	Acre Feet		
Max. Peak Inf.	815.	C.F.S. from 6:00 p.m. on 3/4/41	to 7:30 p.m. on 3/4/41			
Max. Peak Outf.	430.	C.F.S. from for several hours	to	on 3/5/41		

RECORDS COLLECTED BY

E. K. De Vore	Dam Tender
J. W. Luce	Hydrographer
	Hydrographer

COMPUTATIONS — Date

Gage Hts. copied	H.A.V.
Storage applied	C.G.G.
Inf. & Outf. computed	H.A.V.
Checked G.H.M.	3/4/42

Gage Heights and Storage as of midnight on date shown.

(= Mean for period

F. C. Dist. Form 68 Revised 600 5/39

Daily Gage Height in feet and Operation Record of PACOIMA Dam

In Pacoima Canyon for the Year Ending September 30, 1941

Drainage Area 27.8 Square Miles. Capacity of Reservoir 5004.3 Ac. Ft. at Spillway Elev. 1950.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	JUNE Gage Height	JUNE Acre Ft. Storage	JUNE C.F.S. Inflow	JUNE C.F.S. Outflow	JULY Gage Height	JULY Acre Ft. Storage	JULY C.F.S. Inflow	JULY C.F.S. Outflow	AUGUST Gage Height	AUGUST Acre Ft. Storage	AUGUST C.F.S. Inflow	AUGUST C.F.S. Outflow	SEPTEMBER Gage Height	SEPTEMBER Acre Ft. Storage	SEPTEMBER C.F.S. Inflow	SEPTEMBER C.F.S. Outflow	Day
1	1862.2	1942.8	20.3	66.0	1844.9	990.6	8.0	9.8	1836.4	822.3	2.6	4.4	1823.1	588.9	1 0.7	4.6	1
2	1879.2	1852.0	20.2	66.0	1844.6	988.7	8.0	9.4	1836.1	816.6	2.2	4.4	1822.6	580.8	1 0.7	4.6	2
3	1876.1	1760.7	18.0	64.0	1844.6	984.6	7.1	9.1	1835.8	811.0	1.9	4.5	1822.2	574.3	0.7	4.5	3
4	1872.8	1667.0	15.8	63.0	1844.4	980.4	6.9	9.1	1835.5	805.4	1.8	4.6	1821.7	566.4	0.7	4.5	4
5	1869.4	1573.7	13.3	61.0	1844.1	974.2	6.0	9.1	1835.2	799.8	1.6	4.6	1821.2	558.5	0.7	4.7	5
6	1955.9	1481.1	13.2	58.0	1843.6	968.0	5.4	9.1	1834.9	794.2	1.6	4.7	1820.6	549.0	0.7	5.7	6
7	1862.2	1386.6	13.2	62.0	1843.4	959.9	5.4	8.9	1834.6	788.7	1.5	4.9	1820.0	539.5	0.8	5.7	7
8	1858.4	1293.4	13.9	61.0	1843.0	951.6	5.1	8.8	1834.2	781.2	1.5	5.1	1819.3	528.7	0.8	5.7	8
9	1854.6	1203.7	13.8	59.0	1842.7	945.6	5.1	8.6	1833.8	773.9	1.5	5.2	1818.7	519.5	0.8	5.7	9
10	1850.7	1115.3	13.4	58.0	1842.3	937.5	4.3	8.4	1833.4	766.6	1.4	5.2	1818.1	510.2	0.8	5.7	10
11	1846.4	1022.2	12.1	62.0	1841.9	929.4	4.2	8.3	1833.0	759.3	1.4	5.2	1817.5	501.2	0.8	5.7	11
12	1842.0	931.4	12.1	55.0	1841.5	921.5	4.2	8.2	1832.6	752.0	1.3	5.2	1816.9	492.2	0.8	5.6	12
13	1839.3	878.0	12.1	36.0	1641.1	913.5	4.0	8.0	1832.1	742.9	1.2	5.2	1816.2	481.7	0.9	5.6	13
14	1839.6	883.8	12.1	11.0	1840.7	905.5	3.9	7.9	1831.6	734.0	1.1	5.2	1815.6	472.9	0.9	5.6	14
15	1839.6	883.8	12.1	12.3	1840.2	895.6	3.5	8.0	1831.2	726.9	1.0	5.2	1814.9	462.6	0.9	5.6	15
16	1840.4	899.6	12.1	4.1	1839.7	885.6	3.4	7.8	1830.8	719.7	0.8	5.2	1814.3	453.9	0.9	5.3	16
17	1841.7	925.4	12.1	0	1839.2	876.0	3.3	7.8	1830.3	710.8	0.7	5.2	1813.7	445.2	0.9	5.3	17
18	1842.9	949.7	12.2	0	1838.6	864.4	3.2	8.0	1829.8	702.0	0.7	5.2	1813.1	436.7	0.9	5.3	18
19	1844.1	974.2	12.4	0	1838.2	856.6	3.1	6.6	1829.2	691.6	0.7	5.1	1812.5	428.2	1.0	5.2	19
20	1844.9	990.8	11.8	3.4	1838.0	852.7	3.1	4.5	1828.7	682.9	0.7	5.1	1811.9	419.7	1.0	5.2	20
21	1845.0	992.9	11.2	10.2	1838.1	854.6	3.1	2.2	1829.2	674.2	0.7	5.0	1811.3	411.4	1.0	5.2	21
22	1845.0	992.9	10.0	10.0	1838.1	854.6	3.1	2.4	1827.8	667.3	0.7	4.9	1810.6	401.6	1.0	5.6	22
23	1845.0	992.9	10.0	10.0	1838.0	852.7	3.1	3.4	1827.3	658.6	0.7	4.8	1809.9	392.2	1.0	5.9	23
24	1845.0	992.9	9.8	9.9	1838.0	852.7	3.0	2.4	1826.6	650.3	0.7	4.7	1809.2	382.8	1.0	5.7	24
25	1845.0	992.9	9.8	9.6	1838.0	852.7	3.0	4.0	1826.3	641.8	0.7	4.7	1808.5	373.4	1.1	5.8	25
26	1845.1	995.0	9.8	9.5	1837.9	850.6	3.0	5.9	1825.9	635.0	0.7	4.6	1807.7	362.8	1 1.1	6.5	26
27	1845.1	995.0	9.8	9.6	1837.7	847.0	3.0	5.9	1825.4	626.7	0.7	4.5	1807.3	357.6	1 1.1	3.7	27
28	1845.1	995.0	9.8	9.5	1837.5	843.2	2.9	5.9	1825.0	620.1	0.7	4.5	1807.4	358.9	1.1	0	28
29	1845.1	995.0	9.8	9.4	1837.2	837.5	2.8	5.9	1824.6	613.5	0.7	4.5	1807.6	361.5	1.1	0	29
30	1845.1	995.0	9.8	9.8	1836.9	831.8	2.7	5.9	1824.1	605.2	0.7	4.4	1807.8	364.1	1.1	0	30
31					1536.6	826.1	2.6	5.4	1823.6	597.0	0.7	4.4					31
TOTAL			376.0	899.5			129.5	214.7			34.9	150.4			27.0	144.4	
Inf. Ac. Ft.			745.8				256.9				69.2				53.6	257.85.4	
Outf. Ac. Ft.				1784.1				425.9				298.3			286.4	259.42.2	
Maximum Mean Daily Inflow			20.3				8.0				2.6				1.1	53.59	
Minimum Mean Daily Inflow			9.8				2.6				0.7				0.7	0	
Storage Change			-1038.4				-168.9				-229.1				-232.9	-156.9	

REMARKS: Outflows as indicated by valve operation records and flows at Station F118B-R. — Yearly Totals

Max. W. S. Elev.	1938.9	feet on 4/19&20/41	Storage 4342.2	Acre Feet	RECORDS COLLECTED BY	COMPUTATIONS Date
Min. W. S. Elev.	1796.9	feet on 10/25/40	Storage 232.0	Acre Feet	E. K. DeVore Dam Tender	Gage Hts. copied C.C.G.
Max. Peak Inf.	815.	C. F. S. from 6:00 p.m. on 3/4/41	to 7:30 p.m. on	3/4/41	J. W. Luce Hydrographer	Storage applied C.C.G.
Max. Peak Outf.	430.	C. F. S. for several hours on		3/5/41	Hydrographer	Inf. & Outf. computed H.A.V.
						Checked G.H.M. 3/4/42

Gage and Storage as of midnight on date shown.

(= Mean for period
1 = Interpolated

BIG TUJUNGA

F. C. Dist. Form 68 Revised 600 5/39

Through March 23, 1941, Storages based on L.A.C.F.C.D. Survey of February, 1940 (Table IV).

Daily Gage Height in feet and Operation Record of BIG TUJUNGA Dam No. 1

In Big Tujunga Canyon for the Year Ending September 30, 1941

Drainage Area 81.4 Square Miles. Capacity of Reservoir 4424.7 Ac. Ft. at Spillway Elev. 2290.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMEN'.

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	2204.4	684.0	1.1	16.0	2177.7	190.7	1.9	4.4	2184.0	284.8	2.2	3.7	2208.8	789.7	10.2	44.0	1
2	2203.1	654.2	1.1	16.0	2177.9	193.4	1.9	0.5	2183.9	283.2	2.2	3.1	2207.6	765.0	10.1	23.0	2
3	2201.8	625.0	1.1	16.0	2178.1	196.1	1.9	0.5	2183.8	281.6	2.2	3.0	2207.8	765.0	10.1	10.3	3
4	2200.5	596.5	1.1	16.0	2178.3	198.9	1.9	0.5	2183.7	280.0	2.2	2.6	2207.9	767.5	10.1	10.1	4
5	2199.2	568.5	1.2	15.6	2178.5	201.7	1.9	0.4	2183.7	280.0	2.2	2.3	2208.0	769.9	10.1	9.8	5
6	2197.9	541.1	1.2	14.8	2178.7	204.5	1.9	0.4	2183.6	278.4	2.1	2.3	2208.0	769.9	10.1	9.5	6
7	2196.6	514.5	1.2	14.4	2178.9	207.3	1.9	0.3	2183.6	278.4	2.1	2.3	2208.8	789.7	11.1	11.1	7
8	2195.3	488.3	1.2	14.4	2179.1	210.2	1.9	0.6	2183.5	276.8	2.1	2.3	2209.6	809.6	10.6	10.5	8
9	2194.1	464.7	1.2	14.4	2179.4	214.5	1.9	0.3	2183.5	276.8	2.1	2.4	2210.0	819.9	9.8	4.7	9
10	2192.8	439.7	1.2	13.7	2179.6	217.4	1.9	0.3	2183.6	278.4	2.1	1.5	2210.7	837.8	14.1	5.1	10
11	2191.5	415.3	1.1	13.7	2179.8	220.3	1.9	0.2	2183.7	280.0	2.6	1.8	2211.6	861.2	12.2	E 0.4	11
12	2190.7	400.5	1.1	8.6	2180.0	223.2	1.9	0.2	2183.7	280.0	2.6	2.6	2212.4	882.2	11.0	E 0.4	12
13	2190.3	393.3	1.1	5.1	2180.2	226.2	1.9	0.2	2183.9	283.2	2.5	1.2	2213.1	900.8	9.8	E 0.4	13
14	2189.6	380.6	1.1	6.3	2180.5	230.6	1.9	0.2	2184.1	286.4	2.5	0.3	2213.8	919.6	9.8	E 0.4	14
15	2189.0	369.8	1.1	6.5	2180.7	233.6	1.9	0.2	2184.4	291.4	2.4	0.2	2213.9	922.3	8.0	8.0	15
16	2188.4	359.2	1.1	6.5	2180.9	236.5	2.0	0.2	2186.5	326.3	1.9	1 0.3	2213.7	916.9	8.0	10.6	16
17	2187.6	345.2	1.0	8.6	2181.3	242.6	3.3	0.2	2195.9	500.3	8.0	1 0.3	2213.4	908.9	8.0	10.6	17
18	2186.7	329.7	1.0	8.7	2181.8	250.2	4.0	0.2	2197.0	522.6	11.6	1 0.3	2213.2	903.5	8.0	10.6	18
19	2185.8	314.5	1.0	8.7	2182.0	253.2	2.2	0.2	2197.3	528.8	8.0	4.9	2213.1	900.8	8.0	9.0	19
20	2184.9	299.6	0.9	8.4	2182.3	257.9	2.1	0.2	2196.7	516.5	6.4	12.6	2213.7	916.9	7.9	0.4	20
21	2184.0	284.8	0.9	8.4	2182.6	262.6	2.1	0.2	2195.9	500.3	3.8	12.0	2214.4	936.0	10.0	0.4	21
22	2183.1	270.4	0.9	7.7	2182.8	265.7	2.1	0.2	2195.4	490.3	4.1	9.1	2215.1	955.2	10.1	0.4	22
23	2182.3	257.9	0.9	7.2	2183.0	268.8	2.1	0.2	2207.9	767.5	142.8	3.0	2215.7	971.9	8.7	0.3	23
24	2182.0	253.2	0.9	3.7	2183.3	273.6	2.1	0.2	2216.4	991.6	137.9	25.0	2216.8	1002.9	41.6	26.0	24
25	2182.4	259.4	3.7	0.6	2183.5	276.8	2.1	0.2	2215.5	966.4	34.3	47.0	2214.9	949.7	19.2	46.0	25
26	2182.9	267.2	4.4	0.5	2183.7	280.0	2.1	0.2	2214.6	941.4	32.4	45.0	2216.5	994.5	28.6	6.0	26
27	2182.3	257.9	1.9	6.2	2183.9	283.2	2.2	0.2	2213.4	908.9	16.6	33.0	2215.0	952.4	14.8	36.0	27
28	2181.1	239.5	1.8	10.9	2184.2	288.1	2.2	0.2	2214.4	936.0	14.3	1 0.6	2211.9	869.0	12.4	54.0	28
29	2180.0	223.2	1.8	10.3	2184.3	289.7	2.2	1.3	2215.7	971.9	18.7	0.6	2208.7	787.3	12.4	51.0	29
30	2178.9	207.3	1.8	9.8	2184.1	286.4	2.2	4.2	2214.2	930.5	14.1	35.0	2208.1	772.4	12.4	22.0	30
31	2178.0	194.7	1.8	8.4					2211.6	861.2	12.1	47.0	2208.8	789.7	12.4	4.6	31
TOTAL			42.9	306.1			63.5	17.3			597.1	307.3			379.6	415.6	
Inf. Ac. Ft.			85.1				126.0				1184.3				752.9	2148.3	
Outf. Ac. Ft.				607.1				34.3				609.5			824.3	2075.2	
Maximum Mean Daily Inflow			4.4				4.0				142.8				41.6	7.9	
Minimum Mean Daily Inflow			0.9				1.9				2.1				7.9	0.9	
Storage Change			-522.1				+91.7				+574.8				-71.5	+72.9	

REMARKS: Outflows as indicated by flows at Station F168R. — ½ Year

Max. W. S. Elev.	2257.2	feet on 4/12/41	Storage 2313.0	Acre Feet	RECORDS COLLECTED BY	COMPUTATIONS Date
Min. W. S. Elev.	2145.0	feet on various times	Storage negligible	Acre Feet	D. J. Robertson Dam Tender	Gage Hts. copied A.G.M.
Max. Peak Inf.	1568.	C. F. S. from 6:00 p.m. on 3/4/41	to 6:30 p.m. on	3/4/41	L. J. Turner Hydrographer	Storage applied A.G.M.
Max. Peak Outf.	1565. to 1505.	C. F. S. from 12:30 a.m. on 2/21/41	to 6:30 a.m. on	2/21/41	Hydrographer	Inf. & Outf. computed H.A.V.
						Checked G.H.M. 3/20/42

Gage Heights and Storages as of midnight on date shown.

(= Mean for period.
1 = Interpolated
E = Estimated

BIG TUJUNGA (CONT.)

F. C. Dist. Form 68 Revised 600 5/39

Beginning March 28, 1941, 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, 1941

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	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow
1	2209.3	802.3	12.3	4.6	2209.8	814.9	553.0	655.0
2	2210.1	822.5	12.3	4.6	2213.2	903.5	431.7	387.0
3	2210.6	835.3	12.2	4.6	2214.3	933.2	362.0	347.0
4	2210.9	842.9	11.0	7.2	2238.2	1727.0	1179.2	779.0
5	2211.0	845.5	10.0	8.7	2235.2	1610.5	805.2	864.0
6	2213.0	898.1	39.9	13.3	2220.4	1108.0	530.7	784.0
7	2213.1	900.8	19.7	18.4	2216.7	1000.1	420.6	475.0
8	2213.8	919.6	18.1	8.6	2215.4	963.6	345.6	364.0
9	2215.0	952.4	17.0	E 0.5	2210.5	832.7	284.0	350.0
10	2216.1	983.1	16.0	E 0.5	2196.8	518.5	236.6	395.0
11	2226.0	1284.2	152.3	E 0.5	2195.0	482.3	244.7	263.0
12	2229.2	1392.6	96.7	42.0	2215.9	977.5	557.7	308.0
13	2228.6	1371.9	56.5	67.0	2229.3	1396.1	553.0	342.0
14	2233.7	1554.3	136.0	44.0	2241.1	1844.4	429.0	203.0
15	2237.0	1679.7	208.2	145.0	2246.7	2084.6	354.1	233.0
16	2237.5	1699.4	201.9	192.0	2248.7	2174.8	285.5	240.0
17	2243.1	1928.1	528.3	413.0	2249.2	2197.6	248.5	237.0
18	2234.4	1580.4	198.7	374.0	2249.3	2202.2	228.3	226.0
19	2227.7	1341.2	281.4	402.0	2242.0	1881.7	199.5	361.0
20	2241.7	1869.3	1202.3	936.0	2216.9	1005.8	149.4	591.0
21	2238.2	1727.0	1008.3	1080.0	2210.4	830.1	131.5	246.0
22	2232.9	1524.7	880.0	982.0	2178.4	200.3	131.1	399.0
23	2211.6	861.2	367.4	702.0	2145.0	0.1	131.1	236.0
24	2193.9	460.8	326.2	528.0	2145.0	Sluicing	131.1	145.0
25	2187.9	350.5	231.4	287.0	2145.0	"	131.1	137.0
26	2182.2	256.3	178.5	226.0	2145.0	"	126.0	126.0
27	2180.1	224.7	154.0	170.0	2145.0	"	118.0	118.0
28	2217.3	1017.2	471.6	72.0	2174.0	92.1	144.4	98.0
29					2201.4	445.2	275.0	97.0
30					2201.7	450.9	151.9	149.0
31					2215.3	759.2	210.4	55.0
TOTAL			6848.2	6733.5			10079.9	10210.0
Inf. Ac. Ft.			13583.2				19993.2	
Outf. Ac. Ft.				13355.7				20251.2
Maximum Mean Daily Inflow			1202.3				1179.2	
Minimum Mean Daily Inflow			10.0				118.0	
Storage Change			+227.5				-258.0	

Day	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow
1	2223.1	972.3	291.4	184.0	2203.0	476.2	182.8	106.0
2	2220.9	910.0	284.6	316.0	2200.8	433.9	160.7	182.0
3	2211.4	661.9	240.9	366.0	2197.6	376.6	149.1	178.0
4	2227.0	1086.7	347.2	133.0	2188.1	236.0	151.1	222.0
5	2234.8	1339.8	405.6	278.0	2168.2	53.1	130.8	223.0
6	2226.5	1071.7	269.9	405.0	2145.0	0	103.3	130.0
7	2215.1	754.0	247.8	408.0	2145.0	Sluicing	110.0	110.0
8	2221.6	929.7	242.6	154.0	2145.0	"	98.0	98.0
9	2231.9	1241.1	222.0	65.0	2145.0	"	95.0	95.0
10	2243.1	1656.2	258.2	49.0	2145.0	"	91.0	91.0
11	2253.4	2121.3	371.5	137.0	2145.0	"	88.0	88.0
12	2255.8	2241.2	308.5	248.0	2145.0	"	85.0	85.0
13	2249.8	1949.7	262.0	409.0	2145.0	"	83.0	83.0
14	2242.3	1623.4	249.5	414.0	2145.0	"	82.0	82.0
15	2234.1	1315.5	242.8	398.0	2145.0	"	80.0	80.0
16	2223.4	980.9	213.6	383.0	2145.0	"	77.0	77.0
17	2210.2	633.2	213.5	369.0	2145.0	"	74.0	74.0
18	2221.2	918.4	213.5	93.0	2145.0	"	71.0	71.0
19	2229.6	1167.0	213.5	84.0	2145.0	"	69.0	69.0
20	2228.3	1126.4	198.5	219.0	2145.0	"	66.0	66.0
21	2223.6	986.6	187.5	258.0	2145.0	"	63.0	63.0
22	2218.2	835.7	176.0	252.0	2145.0	"	60.0	60.0
23	2209.4	614.5	155.4	267.0	2145.0	"	59.0	59.0
24	2195.6	343.1	155.2	287.0	2145.0	"	59.0	59.0
25	2176.2	110.6	155.0	276.0	2145.0	"	58.0	58.0
26	2145.0	0	155.0	212.0	2145.0	"	58.0	58.0
27	2145.0	Sluicing	137.0	137.0	2145.0	"	57.0	57.0
28	2145.0	"	126.0	126.0	2145.0	"	57.0	57.0
29	2145.0	"	125.0	125.0	2145.0	"	56.0	56.0
30	2194.4	323.8	245.3	82.0	2145.0	"	56.0	56.0
31					2145.0	"	56.0	56.0
TOTAL			6914.5	7134.0			2685.8	2849.0
Inf. Ac. Ft.			13714.7				5327.2	54766.6
Outf. Ac. Ft.				14150.1			5650.9	55483.1
Maximum Mean Daily Inflow			405.6				182.8	1202.3
Minimum Mean Daily Inflow			125.0				56.0	0.9
Storage Change			-435.4				-323.8	-716.8
								½ Year

REMARKS: Outflows as indicated by flows at Station F168R.

Max. W. S. Elev. 2257.2 feet on 4/12/41 Storage 2313.0 Acre Feet
Min. W. S. Elev. 2145.0 feet on various times Storage negligible Acre Feet
Max. Peak Inf. 1568. C.F.S. from 6:00 p.m. on 3/4/41 to 6:30 p.m. on 3/4/41
Max. Peak Outf. 1565. to 1505. C.F.S. from 12:30 a.m. on 2/21/41 to 6:30 a.m. on 2/21/41
Gage and Storages as of midnight on date shown.

RECORDS COLLECTED BY		COMPUTATIONS	Date
D. J. Robertson	Dam Tender	Gage Hts. copied	A.C.M.
L. J. Turner	Hydrographer	Storage applied	A.C.M.
	Hydrographer	Inf. & Outf. computed	H.A.V.
		Checked G.H.M.	3/20/42

(= Mean for period.
E = Estimated
Note: Inflows bulked by debris during sluicing periods.

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 Big Tujunga Canyon for the Year Ending September 30, 1941

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	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
1	2145.0	0	56.0	56.0	2226.3	1065.7	26.7	7.3
2	2145.0	Sluicing	55.0	55.0	2227.6	1104.9	26.8	7.0
3	2145.0	"	55.0	55.0	2228.6	1135.7	24.6	9.1
4	2145.0	"	55.0	55.0	2229.3	1157.6	23.6	12.6
5	2145.0	"	55.0	55.0	2229.9	1176.5	22.4	12.8
6	2145.0	"	54.0	54.0	2230.5	1195.7	22.7	13.0
7	2145.0	"	54.0	54.0	2231.0	1211.7	21.2	13.2
8	2145.0	"	53.0	53.0	2231.4	1224.8	20.0	13.4
9	2145.0	"	53.0	53.0	2231.8	1237.9	20.2	13.6
10	2163.7	31.8	49.0	33.0	2232.1	1247.8	18.8	13.8
11	2175.8	107.1	40.5	2.5	2232.4	1257.8	18.3	13.2
12	2183.4	181.0	38.3	E 1.0	2232.7	1267.9	17.8	12.7
13	2188.7	243.5	32.0	E 0.5	2233.1	1281.3	18.8	12.1
14	2193.4	308.4	34.3	E 1.6	2233.4	1291.5	16.8	11.6
15	2197.7	378.3	35.7	E 0.5	2233.8	1305.2	15.7	11.0
16	2201.5	447.1	35.2	E 0.5	2234.3	1322.4	15.6	10.4
17	2204.8	513.0	33.7	E 0.5	2234.6	1332.9	15.6	9.9
18	2207.1	562.4	30.4	5.5	2235.0	1346.8	15.6	9.7
19	2208.8	600.6	30.6	11.3	2235.3	1357.5	15.6	9.5
20	2210.5	640.3	31.8	11.8	2235.6	1368.2	15.6	9.3
21	2211.9	674.0	29.2	12.2	2235.8	1375.3	15.6	9.1
22	2213.3	708.5	30.1	12.7	2236.0	1382.4	15.6	8.9
23	2214.6	741.2	29.7	13.2	2236.3	1393.3	15.6	8.7
24	2216.0	777.3	31.8	13.6	2236.7	1407.8	15.6	8.4
25	2217.3	811.6	31.4	14.1	2237.1	1422.4	15.6	8.4
26	2218.6	846.6	32.2	14.6	2237.5	1437.2	15.6	8.4
27	2220.2	890.5	33.0	10.8	2238.0	1455.7	15.6	8.5
28	2221.9	938.1	32.0	8.0	2238.3	1467.0	13.3	8.5
29	2223.5	983.8	30.7	7.7	2238.6	1478.3	13.3	8.5
30	2225.0	1027.2	29.4	7.5	2238.8	1485.9	13.3	8.5
31					2239.0	1493.4	13.2	8.6
TOTAL			1191.0	673.1			554.7	319.7
Inf. Ac. Ft.			2362.3				1100.2	
Outf. Ac. Ft.				1335.1				634.1
Maximum Mean Daily Inflow			56.0				26.8	
Minimum Mean Daily Inflow			29.2				13.2	
Storage Change			+1027.2				+466.2	

Day	AUGUST Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow
1	2239.1	1497.3	13.3	8.6	2239.6	1516.5	9.7	19.6
2	2239.3	1505.0	13.4	10.3	2239.0	1493.4	9.3	20.0
3	2239.4	1508.8	13.4	12.0	2238.5	1474.6	9.0	20.0
4	2239.5	1512.7	13.4	12.0	2237.9	1452.0	8.7	21.0
5	2239.6	1516.5	13.4	12.0	2237.3	1429.8	8.4	20.0
6	2239.8	1524.2	13.4	12.0	2236.7	1407.8	8.1	19.3
7	2239.9	1528.1	13.4	12.0	2236.1	1386.0	8.0	18.5
8	2239.9	1528.1	13.4	11.9	2235.6	1368.2	7.9	17.6
9	2240.0	1531.9	13.3	11.8	2235.0	1346.8	7.8	17.0
10	2240.0	1531.9	13.3	11.7	2234.5	1329.4	7.7	16.2
11	2240.1	1535.8	12.6	11.6	2234.0	1312.0	7.7	15.5
12	2240.3	1543.7	12.6	11.5	2233.5	1295.0	7.6	15.2
13	2240.3	1543.7	12.6	11.4	2233.1	1281.3	7.5	15.0
14	2240.3	1543.7	12.6	11.3	2232.7	1267.9	7.4	14.7
15	2240.3	1543.7	12.6	11.2	2232.4	1257.8	7.3	14.4
16	2240.5	1551.6	11.3	11.1	2231.9	1241.1	7.2	14.2
17	2240.5	1551.6	11.3	11.0	2231.6	1231.3	7.1	13.9
18	2240.5	1551.6	11.3	10.9	2231.1	1215.0	7.0	13.6
19	2240.4	1547.6	11.3	10.8	2230.7	1202.1	6.9	13.6
20	2240.4	1547.6	11.2	10.7	2230.3	1189.2	6.8	13.6
21	2240.4	1547.6	11.2	10.6	2229.8	1173.3	6.7	13.6
22	2240.4	1547.6	11.2	10.5	2229.4	1160.7	6.7	13.6
23	2240.3	1543.7	11.1	10.4	2229.0	1148.1	6.6	13.6
24	2240.2	1539.8	11.1	10.3	2228.6	1135.7	6.5	13.6
25	2240.2	1539.8	11.0	10.2	2228.3	1126.4	6.3	10.7
26	2240.2	1539.8	11.0	10.1	2227.7	1108.0	6.1	14.3
27	2240.1	1535.8	11.0	13.1	2227.0	1086.7	5.8	15.3
28	2240.1	1535.8	10.9	11.1	2226.4	1068.7	5.7	15.4
29	2240.2	1539.8	10.7	11.1	2225.8	1050.8	5.6	15.4
30	2240.2	1539.8	10.4	11.1	2225.2	1033.1	5.5	15.4
31	2240.2	1539.8	10.1	15.1				
TOTAL			372.8	349.4			218.6	474.0
Inf. Ac. Ft.			739.4				433.6	59402.1
Outf. Ac. Ft.				693.0			940.2	59085.5
Maximum Mean Daily Inflow			13.4				9.7	1202.3
Minimum Mean Daily Inflow			10.1				5.5	0.9
Storage Change			+46.4				-506.7	+316.3
								Yearly Totals

REMARKS

Max. W. S. Elev. 2257.2 feet on 4/12/41 Storage 2313.0 Acre Feet
Min. W. S. Elev. 2145.0 feet on various times Storage negligible Acre Feet
Max. Peak Inf. 1568. C.F.S. from 6:00 p.m. on 3/4/41 to 6:30 p.m. on 3/4/41
Max. Peak Outf. 1565. to 1505. C.F.S. from 12:30 a.m. on 2/21/41 to 6:30 a.m. on 2/21/41
Gage Heights and Storages as of midnight on date shown.

RECORDS COLLECTED BY		COMPUTATIONS	Date
D. J. ROBERTSON	Dam Tender	Gage Hts. copied	A.C.M.
L. J. TURNER	Hydrographer	Storage applied	H.A.V.
	Hydrographer	Inf. & Outf. computed	H.A.V.
		Checked G.H.M.	3/20/42

(= Mean for period.
E = Estimated

DEVIL'S GATE

F. C. Dist. Form 68 Revised 600 5/39

Storages based on U.S.S.C.S. Survey of June 1938 (Table III).

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

In Arroyo Seco for the Year Ending September 30, 1941

Drainage Area 31.9 Square Miles. Capacity of Reservoir 2966.8 Ac. Ft. at Spillway Elev. 1054.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	OCTOBER Gage Height	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	***991 ±	0	0	0	1008.4	4.1	0	0	1009.9	4.7	0	0	1019.9	278.8	0	0	1
2	991	0	0	0	1008.2	4.1	0	0	1009.8	4.7	0	0	1019.8	274.6	0	0	2
3	991	0	0	0	1008.0	4.0	0	0	1009.6	4.6	0	0	1019.7	270.5	0	0	3
4	991	0	0	0	1007.7	3.9	0	0	1009.4	4.5	0	0	1019.7	270.5	0	0	4
5	991	0	0	0	1007.4	3.8	0	0	1009.2	4.4	0	0	1019.6	266.3	0	0	5
6	991	0	0	0	1007.2	3.7	0	0	1009.0	4.4	0	0	1019.6	266.3	0	0	6
7	991	0	0	0	1006.9	3.6	0	0	1008.6	4.3	0	0	1019.5	262.1	0	0	7
8	991	0	0	0	1006.7	3.5	0	0	1008.6	4.2	0	0	1019.5	262.1	0	0	8
9	991	0	0	0	1006.4	3.4	0	0	1008.4	4.1	0	0	1019.4	257.9	0	0	9
10	991	0	0	0	1006.2	3.3	0	0	1008.2	4.1	0	0	1019.4	257.9	10	0	10
11	991	0	0	0	1006.0	3.2	0	0	1008.1	4.0	0	0	1019.4	257.9	10	0	11
12	991	0	0	0	1005.8	3.2	0	0	1009.1	4.4	0.3	0	1019.3	253.7	0	0	12
13	991	0	0	0	1005.5	3.1	0	0	1008.9	4.3	0	0	1019.3	253.7	0	0	13
14	998.6	1.1	°0.7	0	1005.3	3.0	0	0	1008.7	4.3	0	0	1019.3	253.7	1.1	0	14
15	1004.4	2.7	°0.6	0	1005.1	2.9	0	0	1008.6	4.2	0	0	1019.3	253.7	E 0.8	0	15
16	1007.7	3.9	°0.7	0	1004.9	2.9	0	0	1012.6	30.4	13.5	0	1019.2	249.6	E 0.3	0	16
17	1007.1	3.7	0	0	1007.0	3.6	0.5	0	1013.6	54.8	12.6	0	1019.2	249.6	0	0	17
18	1006.7	3.5	0	0	1011.4	11.4	2.8	0	1013.9	62.7	4.4	0	1019.1	245.4	0	0	18
19	1006.3	3.4	0	0	1011.5	12.5	3.9	0	1013.9	62.7	0	0	1019.1	245.4	0	0	19
20	1005.9	3.2	0	0	1011.3	10.3	0	0	1013.8	60.1	0	0	1019.0	241.2	0	0	20
21	1005.6	3.1	0	0	1011.2	9.2	0	0	1013.8	60.1	0	0	1019.0	241.2	0	0	21
22	1005.3	3.0	0	0	1011.1	8.1	0	0	1013.8	60.1	0	0	1019.0	241.2	1.5	0	22
23	1005.0	2.9	0	0	1011.0	7.0	0	0	1017.9	197.8	69.9	0	1019.0	241.2	E 0.5	0	23
24	1004.7	2.8	0	0	1010.9	6.8	0	0	1020.0	283.0	44.0	0	1019.4	257.9	9.8	0	24
25	1011.7	14.6	21.1	E 14.0	1010.8	6.6	0	0	1020.2	291.8	5.8	0	1019.3	253.7	E 0.5	0	25
26	1011.2	9.2	0	1.7	1010.7	6.3	0	0	1020.2	291.8	1.4	0	1019.4	257.9	2.1	0	26
27	1011.0	7.0	0	0	1010.6	6.1	0	0	1020.1	287.4	0	0	1019.3	253.7	0	0	27
28	1009.3	4.5	0	0.6	1010.4	5.7	0	0	1020.1	287.4	0	0	1019.3	253.7	0	0	28
29	1009.1	4.4	0	0	1010.3	5.5	0	0	1020.0	283.0	0	0	1019.2	249.6	0	0	29
30	1008.9	4.3	0	0	1010.1	5.0	0	0	1020.0	283.0	0	0	1019.2	249.6	0	0	30
31	1008.7	4.2	0	0					1019.9	278.8	0	0	1019.1	245.4	0	0	31
TOTAL			23.3	16.3			7.2	0			151.9	0			18.6	0	
Inf. Ac. Ft.			46.2				14.3				301.3				36.9	398.7	
Outf. Ac. Ft.			(9.7) +32.3				(13.5) +0				(27.6) +0				(70.2) +0	(121.0)+32.3	
Maximum Mean Daily Inflow			21.1				3.9				69.9				9.8	69.9	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			+ 4.2				+ 0.8				+ 273.8				- 33.4	+ 245.4	

REMARKS ½ Year

Max. W. S. Elev.	1042.65	feet on 2/20/41	Storage 1761.8	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	Date
Min. W. S. Elev.	991.±	feet on various times	Storage Dry	Acre Feet	A. E. Marshall	Dam Tender	Gage Hts. copied	H.A.V.
Max. Peak Inf.	3870.	C.F.S. from 4:00 p.m. on 2/20/41	to 4:30 p.m. on 2/20/41		R. E. Lindsay	Hydrographer	Storage applied	H.A.V.
Max. Peak Outf.	3120.	C.F.S. from 7:30 p.m. on 2/20/41	to 8:00 p.m. on 2/20/41			Hydrographer	Inf. & Outf. computed	H.A.V.
Gage Heights as of midnight on date shown.							Checked G.H.M.	1/14/42

(= Mean for period
E = Estimated
() = Total monthly percolation & evaporation losses; other outflows = valve releases only.
*** = Beginning 10/1/40, 4.8 acre-feet were added for sump sluiced at "A" valve.
° = Flow from Pasadena Water Department for percolation test.

F. C. Dist. Form 68 Revised 600 5/39

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

In Arroyo Seco for the Year Ending September 30, 1941

Drainage Area 31.9 Square Miles. Capacity of Reservoir 2966.8 Ac. Ft. at Spillway Elev. 1054.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1019.1	245.4	0	0	1033.6	1057.6	245.0	341.0	*1012.0	***17.9	125.5	149.0	1034.2	1093.8	56.7	0	1
2	1019.0	241.2	0	0	1037.0	1296.3	231.7	105.0	*1012.0		126.4	126.0	1035.4	1177.1	48.1	0	2
3	1019.0	241.2	0	0	1033.5	1051.0	245.6	363.0	*1012.0	*** 13.1	113.4	113.0	1036.3	1241.0	38.8	0	3
4	1018.9	237.2	0	0	1039.9	1520.4	823.5	580.0	1020.4	295.8	240.4	158.0	1037.0	1291.5	32.4	0	4
5	1018.9	237.2	0	0	1034.2	1098.6	453.5	659.0	1016.5	141.6	240.3	256.0	1037.5	1328.8	25.9	0	5
6	1019.7	270.5	18.0	0	1031.0	685.4	329.5	432.0	*1012.0	13.1	152.4	195.0	1037.6	1351.1	18.5	0	6
7	1019.6	266.3	0.5	0	1031.8	937.7	247.9	217.0	*1012.0	13.1	152.4	147.0	1038.0	1366.0	14.9	0	7
8	1019.6	266.3	0	0	1034.5	1119.3	168.1	71.0	*1012.0	13.1	152.4	138.0	1038.2	1381.4	14.0	0	8
9	1019.5	262.1	0	0	1035.8	1210.0	125.0	73.0	1017.0	159.2	152.3	119.0	1038.4	1396.9	13.0	0	9
10	1019.5	262.1	0	0	1031.2	898.5	63.2	214.0	1015.0	90.9	142.0	176.0	1038.4	1396.9	11.2	0	10
11	1022.1	377.8	59.8	0	1024.9	519.4	74.4	262.0	*1012.0	13.1	215.3	254.0	1038.4	1396.9	10.6	0	11
12	1022.6	411.6	19.1	0	1030.2	834.0	157.6	145.0			162.4	162.0	1038.4	1396.9	10.0	0	12
13	1023.0	421.3	7.1	0	1026.5	608.6	157.7	220.0			156.4	156.0	1038.5	1404.6	9.4	0	13
14	1026.3	597.1	91.0	0	1015.7	118.6	157.7	301.0			133.4	133.0	1038.6	1412.3	8.6	0	14
15	1028.5	727.5	69.2	0	1012.0	17.9	101.0	144.0			116.4	116.0	1038.6	1412.3	7.2	0	15
16	1031.1	891.9	87.8	0	1011.8	15.7	101.0	107.0			95.4	95.0	1038.6	1412.3	7.0	0	16
17	1032.2	964.1	201.8	160.0	1000.5	1.6	100.9	110.0	Reservoir being sluiced		92.4	92.0	1038.6	1412.3	6.8	0	17
18	1027.5	667.1	81.5	227.0	1002.3	2.0	100.3	100.0			90.4	E 90.0	1038.6	1412.3	6.6	0	18
19	1032.4	977.4	287.7	128.0	1003.5	2.4	95.5	95.0			90.4	90.0	1038.5	1404.6	6.5	0	19
20	1036.0	1224.1	1381.3	1250.0	1004.5	2.7	86.2	86.0			79.4	79.0	1038.5	1404.6	6.0	0	20
21	1032.6	990.6	679.9	793.0	1005.4	3.0	79.3	79.0	*1012.0	13.1	67.4	67.0	1038.4	1396.9	5.6	0	21
22	1031.3	905.0	514.9	553.0	1006.1	3.3	58.2	58.0	1016.2	131.0	52.1	33.0	1038.4	1396.9	5.2	0	22
23	1031.0	885.4	297.6	303.0	1006.8	3.5	60.4	46.0	1019.4	253.1	52.1	0	1038.4	1396.9	4.8	0	23
24	1030.7	866.1	213.7	219.0	1007.3	3.7	60.4	69.0	1021.4	340.5	52.1	0	1038.2	1381.4	4.4	0	24
25	1030.1	827.5	143.0	158.0	1007.8	3.9	60.4	70.0	1023.2	426.6	52.1	0	1038.1	1373.7	4.0	0	25
26	1029.9	814.8	105.6	108.0	1015.0	95.7	60.3	27.0	1024.7	504.1	52.1	0	1037.9	1358.6	E 4.0	0	26
27	1029.7	802.2	86.8	89.0	1011.5	12.5	60.3	84.0	1026.1	580.6	52.1	0	1037.9	1358.6	E 4.0	0	27
28	1036.5	1260.2	264.9	29.0	1014.5	80.6	96.7	62.0	1027.2	644.4	52.1	0	1037.8	1351.1	E 4.0	0	28
29					1011.5	12.5	112.1	146.0	1028.4	716.5	40.0	0	1037.8	1351.1	E 4.0	0	29
30					1011.5	12.5	46.4	46.0	1032.7	992.5	14.5	0	1037.8	1351.1	E 4.0	0	30
31					1014.0	65.4	131.0	104.0					1037.7	1343.7	E 4.0	0	31
TOTAL			4611.6	4017.0			4891.0	5416.0			3445.0	2944.0			400.4	0	
Inf. Ac. Ft.			9147.0				9701.2				6833.1				794.2	26874.2	
Outf. Ac. Ft.			(164.6) +7967.6				(153.5)+10,742.5				(61.9) +5839.3				(442.9) +0	(943.9)+24,581.7	
Maximum Mean Daily Inflow			1381.3				823.5				240.4				56.7	1381.3	
Minimum Mean Daily Inflow			0				46.4				40.0				4.0	0	
Storage Change			+1014.8				1194.6				+927.1 +***(4.8 ac.-ft. E)				+ 351.2	+1343.7+(4.8)***	

REMARKS Outflows as indicated by Pasadena Water Department's station at channel intake. ½ Year

Max. W. S. Elev.	1042.65	feet on 2/20/41	Storage 1761.8	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	Date
Min. W. S. Elev.	991.±	feet on various times	Storage Dry	Acre Feet	A. E. Marshall	Dam Tender	Gage Hts. copied	H.A.V.
Max. Peak Inf.	3870.	C.F.S. from 4:00 p.m. on 2/20/41	to 4:30 p.m. on 2/20/41		R. E. Lindsay	Hydrographer	Storage applied	H.A.V.
Max. Peak Outf.	3120.	C.F.S. from 7:30 p.m. on 2/20/41	to 8:00 p.m. on 2/20/41			Hydrographer	Inf. & Outf. computed	H.A.V.
Gage Heights & Storage as of midnight on date shown.							Checked G.H.M.	1/14/42

(= Mean for period
E = Estimated
() = Total monthly percolation & evaporation losses; other outflows = valve releases.
* = Reservoir being sluiced.
*** = Sump of 4.8 acre-feet capacity ignored after this date due to changes effected by sluicing.

DEVIL'S GATE (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 DEVIL'S GATE Dam

In Arroyo Seco for the Year Ending September 30, 1941

Drainage Area 31.9 Square Miles. Capacity of Reservoir 2966.8 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	1037.7	1343.7	**** 60	0	1035.1	1155.9	0	0	1031.3	900.2	0	0	1028.0	692.0	0	0	1
2	1037.8	1351.1	97	0	1035.0	1148.9	0	0	1031.2	893.7	0	0	1027.9	686.1	0	0	2
3	1037.8	1351.1	60	0	1034.8	1135.1	0	0	1031.1	887.1	0	0	1027.8	680.1	0	0	3
4	1037.8	1351.1	60	0	1034.7	1128.2	0	0	1031.0	880.6	0	0	1027.7	674.2	0	0	4
5	1037.8	1351.1	60	0	1034.6	1121.3	0	0	1030.9	874.2	0	0	1027.6	668.2	0	0	5
6	1037.9	1358.6	93	0	1034.4	1107.6	0	0	1030.6	867.7	0	0	1027.5	662.3	0	0	6
7	1037.9	1358.6	55	0	1034.3	1100.7	0	0	1030.7	861.3	0	0	1027.4	656.3	0	0	7
8	1037.9	1358.6	**** 55	0	1034.2	1093.6	0	0	1030.5	848.5	0	0	1027.3	650.4	0	0	8
9	1037.9	1358.6	55	0	1034.1	1086.9	0	0	1030.4	842.0	0	0	1027.2	644.4	0	0	9
10	1037.8	1351.1	17	0	1033.9	1073.2	0	0	1030.3	835.6	0	0	1027.1	638.5	0	0	10
11	1037.7	1343.7	18	0	1033.8	1066.5	0	0	1030.2	829.2	0	0	1027.0	632.5	0	0	11
12	1037.6	1336.2	17	0	1033.7	1059.7	0	0	1030.1	822.7	0	0	1026.9	626.8	0	0	12
13	1037.4	1321.3	18	0	1033.6	1053.0	0	0	1030.0	816.3	0	0	1026.8	621.0	0	0	13
14	1037.3	1313.9	18	0	1033.4	1039.4	0	0	1029.8	803.7	0	0	1026.7	615.3	0	0	14
15	1037.3	1313.9	17	0	1033.3	1032.7	0	0	1029.7	797.4	0	0	1026.6	609.5	0	0	15
16	1037.2	1306.4	E 0	0	1033.2	1025.9	0	0	1029.6	791.1	0	0	1026.5	603.8	0	0	16
17	1037.0	1291.5	0	0	1033.1	1019.2	0	0	1029.5	784.8	0	0	1026.4	598.1	0	0	17
18	1036.9	1284.3	0	0	1033.0	1012.4	0	0	1029.4	778.5	0	0	1026.3	592.3	0	0	18
19	1036.8	1277.1	0	0	1032.8	999.1	0	0	1029.3	772.2	0	0	1026.2	586.6	0	0	19
20	1036.6	1262.6	0	0	1032.7	992.5	0	0	1029.2	765.9	0	0	1026.1	580.8	0	0	20
21	1036.5	1255.4	0	0	1032.6	985.8	0	0	1029.1	759.6	0	0	1026.0	575.1	0	0	21
22	1036.3	1241.0	0	0	1032.4	972.6	0	0	1029.0	753.3	0	0	1025.9	569.6	0	0	22
23	1036.2	1233.7	0	0	1032.3	965.9	0	0	1028.9	747.2	0	0	1025.8	564.1	0	0	23
24	1036.0	1219.3	0	0	1032.2	959.3	0	0	1028.8	741.0	0	0	1025.7	558.5	0	0	24
25	1035.9	1212.3	0	0	1032.1	952.6	0	0	1028.7	734.4	0	0	1025.6	553.0	0	0	25
26	1035.8	1205.2	0	0	1031.9	939.5	0	0	1028.6	728.8	0	0	1025.5	547.5	0	0	26
27	1035.6	1191.1	0	0	1031.8	932.9	0	0	1028.5	722.7	0	0	1025.4	542.0	0	0	27
28	1035.5	1184.1	0	0	1031.7	926.4	0	0	1028.4	716.5	0	0	1025.3	536.5	0	0	28
29	1035.3	1170.0	0	0	1031.6	919.8	0	0	1028.3	710.4	0	0	1025.2	530.9	0	0	29
30	1035.2	1163.0	0	0	1031.5	913.3	0	0	1028.2	704.3	0	0	1025.2	530.9	0	0	30
31					1031.4	906.8	0	0	1028.1	698.1	0	0					31
TOTAL			700	0			0	0			0	0			0		
Inf. Ac. Ft.			1388				0				0				0		27013.0
Outf. Ac. Ft.		(319.5) + 0				(256.3) + 0				(208.7) + 0				(167.2) + 0			(1895.6)+24581.7
Maximum Mean Daily Inflow			97				0				0				0		1381.3
Minimum Mean Daily Inflow			0				0				0				0		0
Storage Change			-1807				-2562				-208.7				-1672		+530.9+(4.8E)**
REMARKS																	Yearly Totals

Max. W. S. Elev.	1042.65	feet on 2/20/41	Storage 1761.8	Acre Feet	RECORDS COLLECTED BY	COMPUTATIONS Date
Min. W. S. Elev.	991.±	feet on various times	Storage Dry	Acre Feet	A. E. Marshall Dam Tender	Gage Hts. copied A.C.M.
Max. Peak Inf.	3870.	C.F.S. from 4:00 p.m. on 2/20/41	to 4:30 p.m. on 2/20/41		R. E. Lindsay Hydrographer	Storage applied A.C.M.
Max. Peak Outf.	3120.	C.F.S. from 7:30 p.m. on 2/20/41	to 8:00 p.m. on 2/20/41		Hydrographer	Inf. & Outf. computed H.A.V.
Gage Heights & Storage as of midnight on date shown.						Checked G.H.M. 1/14/42

(= Mean for period
E = Estimated
() = Total monthly percolation & evaporation losses; other outflows = valve releases.
**** = Pasadena diversion waste increased normal flow.
** = Sump of 4.8 acre-feet capacity ignored after 4/1/41 due to changes effected by sluicing.

EATON WASH DEBRIS

F. C. Dist. Form 68 Revised 600 5/39

Storages based on C.I.T. Survey of December 1938; corrected for debris October 1940. (Table V)

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

On Eaton Wash for the Year Ending September 30, 1941

Drainage Area 9.5 Square Miles. Capacity of Reservoir 710.9 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	841±	0	0	0	842±	+	0	0	E 842.2	0.2	0	0	853.1	313	0	0	1
2			0	0			0	0	842.1	0.1	0	0	852.8	295	0	0	2
3			0	0			0	0	842.0	0.1	0	0	852.5	278	0	0	3
4			0	0			0	0	841.9	+	0	0	852.2	260	0	0	4
5			0	0			0	0			0	0	851.9	244	0	0	5
6			0	0			0	0			0	0	851.6	230	0	0	6
7			0	0			0	0			0	0	851.3	215	0	0	7
8			0	0			0	0			0	0	851.0	200	0	0	8
9			0	0			0	0			0	0	850.7	187	0	0	9
10			0	0			0	0			0	0	850.4	175	0	0	10
11			0	0			0	0			0	0	850.0	158	0	0	11
12			0	0			0	0			0	0	849.6	144	0	0	12
13			0	0			0	0			0	0	849.3	134	0	0	13
14			0	0			0	0			0	0	848.9	120	0	0	14
15			0	0			0	0	E 841.5	+	0	0	848.6	111	0	0	15
16			0	0	841±	+	0	0	846.2	4.7	2.5	0	848.2	98	0	0	16
17			0	0	842.3	0.2	0.2	0	850.3	17.1	8.7	1.2	847.9	89	0	0	17
18			0	0	843.7	1.1	0.6	0	850.2	16.6	1.1	0	847.5	79	0	0	18
19			0	0	843.5	0.9	0	0	849.7	14.8	0.4	0	847.2	70	0	0	19
20			0	0	843.3	0.7	0	0	849.1	12.7	0	0	846.9	63	0	0	20
21			0	0	843.2	0.7	0	0	848.5	10.8	0	0	846.6	56	0	0	21
22			0	0	E 843.1	0.6	0	0	848.0	9.2	0	0	846.3	50	0	0	22
23			0	0	843.0	0.5	0	0	854.3	39.4	17.1	0	846.1	45	0.1	0	23
24	841±	0	0	0	842.9	0.5	0	0	856.6	58.6	12.0	0	847.8	87	2.5	0	24
25	844.5	2.0	1.1	0	842.8	0.4	0	0	856.1	53.9	0.7	0	847.5	79	0	0	25
26	844.3	1.7	0	0	842.7	0.4	0	0	855.5	48.8	0	0	847.2	70	0	0	26
27	843.9	1.2	0	0	842.6	0.3	0	0	855.0	44.6	0	0	846.9	63	0	0	27
28	843.6	1.0	0	0	842.5	0.3	0	0	854.5	40.9	0	0	846.6	56	0	0	28
29	843.3	0.7	0	0	842.4	0.3	0	0	854.2	38.6	0	0	846.3	50	0	0	29
30	843.1	0.6	0	0	E 842.3	0.2	0	0	853.8	35.8	0	0	846.1	45	0	0	30
31	E 842.9	0.5	0	0					853.5	33.9	0	0	845.8	40	0	0	31
TOTAL			1.0	0			0.6	0			42.5	1.2			2.6	0	
Inf. Ac. Ft.			2.2				1.6				34.3				5.2	93.3	
Outf. Ac. Ft.		0 + (1.6)				0 + (2.0)				2.4 + (48.2)					0 + (35.1)	2.4 + (86.9)	
Maximum Mean Daily Inflow			1.1				0.6				17.1				2.5	17.1	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			-0.5				-0.3				+33.7				-29.9	+4.0	
REMARKS	Outflows as indicated by valve operation records and flows at Station F27LR.																½ Year

Max. W. S. Elev.	879.1	feet on 4/5/41	Storage 432.1	Acre Feet	RECORDS COLLECTED BY	COMPUTATIONS Date
Min. W. S. Elev.	841.±	feet on various times	Storage Dry	Acre Feet	R. A. Waddloor Dam Tender	Gage Hts. copied H.A.V.
Max. Peak Inf.	426.	C.F.S. from 5:00 p.m. on 2/20/41	to 5:30 p.m. on 2/20/41		R. E. Lindsay Hydrographer	Storage applied H.A.V.
Max. Peak Outf.	256.	C.F.S. from 8:30 p.m. on 2/20/41	to 4:30 p.m. on 2/21/41		Hydrographer	Inf. & Outf. computed H.A.V.
Gage Heights and Storage as of midnight on date shown.						Checked G.H.M. 3/11/42

E = Estimated
() = Percolation and evaporation loss.

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 EATON WASH DEBRIS Dam

On Eaton Wash for the Year Ending September 30, 1941

Continuous Water Stage Recorder Au

Drainage Area 9.5 Square Miles. Capacity of Reservoir 710.9 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	845.6	3.6	0	0	872.5	275.4	59.8	57.0	870.7	242.0	39.5	29.0	869.5	221.6	17.4	36.2	1
2	845.4	3.3	0	0	872.7	279.3	75.6	67.0	872.6	281.3	38.9	14.4	870.1	231.5	15.6	7.6	2
3	845.2	2.9	0	0	872.6	277.4	63.6	58.0	872.9	283.2	27.2	22.0	870.6	240.2	15.2	7.6	3
4	845.0	2.6	0	0	876.8	371.3	147.1	93.0	876.4	361.4	60.5	16.9	870.8	243.7	12.7	7.6	4
5	844.9	2.5	0	0	874.8	323.6	109.8	127.0	879.1	432.1	58.6	17.0	870.6	240.2	9.1	7.6	5
6	847.5	7.9	3.1	0	870.2	233.3	88.0	127.0	877.4	386.6	42.4	59.0	870.5	238.5	10.0	7.6	6
7	847.2	7.0	0	0	868.9	211.7	69.6	74.0	874.0	306.0	(36.0	67.0	870.3	235.0	9.1	7.6	7
8	847.0	6.5	0	0	868.9	211.7	53.6	47.0	873.4	293.5	35.9	37.0	870.0	229.8	8.0	7.6	8
9	846.8	6.1	0	0	867.7	193.2	44.2	47.0	874.5	317.0	35.9	25.0	869.6	226.5	8.9	7.6	9
10	846.5	5.4	0	0	867.9	196.2	41.0	33.0	874.6	319.2	37.7	32.0	869.4	219.9	7.3	7.6	10
11	854.7	42.4	19.5	0	870.3	235.0	37.1	10.9	875.9	349.2	59.3	39.0	869.3	218.3	7.9	5.7	11
12	856.6	58.6	10.6	0	873.5	295.6	71.2	34.0	872.9	283.2	37.6	66.0	869.5	221.6	7.9	3.3	12
13	856.8	60.5	3.9	0	868.1	199.3	45.0	67.0	870.2	233.3	35.2	57.0	869.7	224.9	8.0	3.3	13
14	858.7	79.7	12.9	0	870.2	233.3	55.7	32.0	870.3	235.0	(35.3	35.0	869.6	226.5	7.1	3.3	14
15	861.1	106.3	17.9	0	868.6	207.1	47.4	54.0	868.4	203.9	35.2	44.0	869.8	226.5	6.3	3.3	15
16	864.4	147.0	26.1	0	869.3	218.3	(37.5	24.0	870.7	242.0	31.0	15.4	869.9	228.2	6.6	2.8	16
17	868.3	202.4	39.9	5.5	867.9	196.2	37.5	40.0	870.4	236.8	31.0	26.0	870.2	233.3	5.6	0	17
18	865.5	161.8	18.1	32.0	870.4	236.8	37.4	13.6	870.0	229.8	30.9	29.0	870.4	236.8	4.8	0	18
19	870.5	238.5	53.2	8.1	873.2	289.4	33.1	0	869.8	226.5	26.3	25.0	870.7	242.0	5.6	0	19
20	874.4	314.8	138.2	143.0	874.8	323.6	24.0	0	869.7	224.9	(24.4	24.0	870.7	242.0	3.0	0	20
21	870.3	235.0	177.4	211.0	875.1	330.4	(21.9	10.0	869.4	219.9	24.3	22.0	870.7	242.0	3.0	0	21
22	867.9	196.2	130.0	143.0	872.9	283.2	21.9	37.0	869.7	224.9	23.0	17.5	870.7	242.0	3.0	0	22
23	868.8	210.2	68.6	55.0	870.6	240.2	21.9	37.0	870.0	229.8	22.3	16.8	870.7	242.0	2.9	0	23
24	871.4	254.6	50.9	22.0	871.6	258.2	21.9	10.0	870.0	229.8	19.6	16.6	870.6	240.2	2.0	0	24
25	871.8	261.9	32.3	22.0	873.1	287.3	21.4	0	869.9	228.2	19.7	16.4	870.4	236.8	1.2	0	25
26	870.5	239.5	19.8	25.0	874.2	310.4	18.3	0	870.1	231.5	19.7	16.2	870.2	233.3	1.0	0	26
27	867.4	188.8	18.5	37.0	875.0	328.0	15.6	0	870.0	229.8	16.5	16.0	870.1	231.5	1.9	0	27
28	872.9	283.2	71.1	16.9	876.3	358.9	22.4	0	869.5	221.6	16.4	15.9	870.0	229.8	2.0	0	28
29					874.0	306.0	43.1	63.0	869.6	223.2	15.4	11.6	869.9	228.2	1.8	0	29
30					867.5	190.3	32.9	85.0	872.0	265.6	40.8	16.0	869.8	226.5	1.9	0	30
31					870.1	231.5	49.4	23.0					869.8	226.5	2.7	0	31
TOTAL			962.0	720.5			1469.3	1290.5			976.5	844.7			199.5	126.3	
Inf. Ac. Ft.			1908.1				2914.3				1936.9				395.7	724.8.3	
Outf. Ac. Ft.			(199.7)+1429.1				(406.4)+2559.7				(227.3)+1675.4				(184.3)+250.5	(1104.6)+5917.1	
Maximum Mean Daily Inflow			138.2				147.1				60.5				17.4	168.2	
Minimum Mean Daily Inflow			0				15.6				15.4				1.0	0	
Storage Change			+279.2				-51.7				+34.1				-39.1	+226.5	

REMARKS: Outflows as indicated by valve operation records and flows at Station F271R. ½ Year

Max. W. S. Elev.	879.1	feet on 4/5/41	Storage 432.1	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	Date
Min. W. S. Elev.	841.1	feet on various times	Storage Dry	Acre Feet	R. A. Waddicor	Dam Tender	Gage Hts. copied	H.A.V.
Max. Peak Inf.	426.	C.F.S. from 5:00 p.m. on 2/20/41	to 5:30 p.m. on	2/20/41	R. E. Lindsay	Hydrographer	Storage applied	H.A.V.
Max. Peak Outf.	256.	C.F.S. from 8:30 p.m. on 2/20/41	to 4:30 p.m. on	2/21/41		Hydrographer	Inf. & Outf. computed	H.A.V.
							Checked G.H.M.	3/12/42

Gage Heights and Storage as of midnight on date shown.

(= Mean for period
() = Percolation and evaporation loss.

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 EATON WASH DEBRIS Dam

On Eaton Wash for the Year Ending September 30, 1941

Continuous Water Stage Recorder Au

Drainage Area 9.5 Square Miles. Capacity of Reservoir 710.9 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	869.8	226.5	(3.5	0	859.0	72.3	0	(4.0	843.0	0.5	0	0	843.0	0.5	0	0	1
2	870.0	229.8	3.4	0	857.1	63.4	0	4.0	843.0	0.5	0	0	843.0	0.5	0	0	2
3	870.2	232.3	3.7	0	856.1	59.9	0	3.8	843.0	0.5	0	0	843.0	0.5	0	0	3
4	870.4	236.6	4.8	0	855.2	46.3	0	3.3	843.0	0.5	0	0	843.0	0.5	0	0	4
5	870.6	240.2	4.1	0	854.1	37.9	0	3.3	843.0	0.5	0	0	843.0	0.5	0	0	5
6	870.8	243.7	4.2	0	853.1	31.3	0	3.3	843.0	0.5	0	0	842.9	0.5	0	0	6
7	870.9	245.5	3.2	0	851.2	21.0	0	4.7	843.0	0.5	0	0	842.9	0.5	0	0	7
8	871.0	247.2	3.1	0	848.0	9.2	0	5.4	843.0	0.5	0	0	842.9	0.5	0	0	8
9	871.0	247.3	2.2	0	843.2	0.7	0	3.9	843.0	0.5	0	0	842.8	0.4	0	0	9
10	870.9	245.5	1.4	0	843.2	0.7	0	0	843.0	0.5	0	0	842.8	0.4	0	0	10
11	870.7	242.0	0.4	0	843.2	0.7	0	0	842.9	0.5	0	0	842.8	0.4	0	0	11
12	870.5	238.5	0.4	0	843.1	0.6	0	0	842.9	0.5	0	0	842.8	0.4	0	0	12
13	870.3	235.0	0.3	0	843.1	0.6	0	0	842.9	0.5	0	0	842.7	0.4	0	0	13
14	870.2	233.3	1.2	0	843.0	0.5	0	0	842.9	0.5	0	0	842.7	0.4	0	0	14
15	870.1	231.5	1.2	0	843.0	0.5	0	0	842.9	0.5	0	0	842.6	0.3	0	0	15
16	869.9	228.2	0.4	0	843.0	0.5	0	0	843.0	0.5	0	0	842.6	0.3	0	0	16
17	869.7	224.9	0.3	0	843.0	0.5	0	0	843.0	0.5	0	0	842.5	0.3	0	0	17
18	869.4	219.9	0	0.5	843.0	0.5	0	0	843.0	0.5	0	0	842.5	0.3	0	0	18
19	869.8	210.2	0	(3.2	843.0	0.5	0	0	843.0	0.5	0	0	842.4	0.3	0	0	19
20	868.1	199.3	0	3.2	843.0	0.5	0	0	843.0	0.5	0	0	842.4	0.3	0	0	20
21	867.4	188.8	0	3.2	843.0	0.5	0	0	843.1	0.6	0	0	842.3	0.2	0	0	21
22	866.8	180.0	0	3.2	843.0	0.5	0	0	843.1	0.6	0	0	842.3	0.2	0	0	22
23	866.1	170.0	0	3.1	843.0	0.5	0	0	843.1	0.6	0	0	842.2	0.2	0	0	23
24	865.5	161.8	0	2.5	843.0	0.5	0	0	843.1	0.6	0	0	842.1	0.1	0	0	24
25	864.3	145.7	0	5.7	843.0	0.5	0	0	843.1	0.6	0	0	842.1	0.1	0	0	25
26	863.1	130.4	0	5.7	843.0	0.5	0	0	843.1	0.6	0	0	842.1	0.1	0	0	26
27	862.0	116.9	0	5.7	843.0	0.5	0	0	843.1	0.6	0	0	842.1	0.1	0	0	27
28	861.0	105.1	0	5.7	843.0	0.5	0	0	843.1	0.6	0	0	842.0	0.1	0	0	28
29	860.0	93.7	0	4.7	843.0	0.5	0	0	843.1	0.6	0	0	842.0	0.1	0	0	29
30	859.0	82.8	0	4.4	843.0	0.5	0	0	843.1	0.6	0	0	842.0	0.1	0	0	30
31					843.0	0.5	0	0	843.1	0.6	0	0					31
TOTAL			37.8	50.8			0	35.7			0	0			0	0	
Inf. Ac. Ft.			75.0				0				0				0	73233	
Outf. Ac. Ft.			(117.8) + 100.8				(11.5) + 70.8				0				(0.3) + 0	(1234.2)+6088.7	
Maximum Mean Daily Inflow			4.8				0				0				0	188.2	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			-143.7				-82.3				+0.1				-0.5	+0.1	

REMARKS: Outflows as indicated by valve operation records and flows at Station F271R. Yearly Totals

Max. W. S. Elev.	879.1	feet on 4/5/41	Storage 432.1	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	Date
Min. W. S. Elev.	841.1	feet on various times	Storage Dry	Acre Feet	R. A. Waddicor	Dam Tender	Gage Hts. copied	A.C.M.
Max. Peak Inf.	426.	C.F.S. from 5:00 p.m. on 2/20/41	to 5:30 p.m. on	2/20/41	R. E. Lindsay	Hydrographer	Storage applied	A.C.M.
Max. Peak Outf.	256.	C.F.S. from 8:30 p.m. on 2/20/41	to 4:30 p.m. on	2/21/41		Hydrographer	Inf. & Outf. computed	H.A.V.
							Checked G.H.M.	3/12/42

Gage Heights and Storage as of midnight on date indicated.

(= Mean for period
() = Percolation and evaporation loss.

BIG SANTA ANITA

F. C. Dist. Form 68 Revised 800 5/38

Storages based on Debris Determinations of February, 1940 (Table V).

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

In Santa Anita Canyon for the Year Ending September 30, 1941

Drainage Area 10.8 Square Miles. Capacity of Reservoir 710.4 Ac. Ft. at Spillway Elev. 1316.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	OCTOBER				NOVEMBER				DECEMBER				JANUARY				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	1277.7	310.0	0.4	1.8	1269.6	247.5	0.8	2.0	1262.2	197.9	1.1	2.0	1252.8	145.7	4.2	2.2	1
2	1277.4	307.5	0.4	1.7	1269.3	245.4	0.8	2.0	1261.9	196.1	1.1	2.0	1253.3	148.2	3.5	2.2	2
3	1277.0	304.3	0.4	1.8	1268.9	242.5	0.8	2.0	1260.1	185.3	1.2	6.7	1253.5	149.3	3.0	2.5	3
4	1276.7	301.9	0.4	1.8	1268.6	240.4	0.8	2.0	1257.6	171.1	1.2	8.7	1253.7	150.3	3.0	2.5	4
5	1276.3	298.6	0.4	1.8	1268.3	238.2	0.8	2.0	1254.5	154.4	1.1	9.1	1254.0	151.8	3.3	2.5	5
6	1276.0	296.2	0.5	1.8	1267.9	235.4	0.9	1.9	1252.3	143.2	1.1	6.7	1254.2	152.8	3.0	2.5	6
7	1275.6	293.0	0.5	1.8	1267.6	233.3	0.8	2.0	1252.0	141.7	1.1	2.0	1254.4	153.9	3.1	2.5	7
8	1275.3	290.7	0.5	1.8	1267.3	231.2	0.8	2.0	1251.6	139.7	1.1	2.0	1254.5	154.4	2.6	2.4	8
9	1275.0	288.3	0.5	1.7	1266.9	228.4	0.9	2.0	1251.3	138.3	1.1	2.0	1254.3	153.4	2.3	2.8	9
10	1274.7	286.0	0.5	1.8	1266.6	226.4	0.8	2.0	1250.9	136.3	1.1	2.0	1254.3	153.4	3.0	3.0	10
11	1274.3	282.8	0.4	1.8	1266.3	224.3	0.9	2.0	1250.7	135.4	1.4	1.9	1254.3	153.4	3.0	3.0	11
12	1274.0	280.5	0.4	1.8	1266.0	222.3	0.9	2.0	1250.4	133.9	1.3	2.0	1254.2	152.8	2.7	3.0	12
13	1273.6	277.4	0.4	1.8	1265.7	220.3	0.9	1.9	1250.1	132.5	1.3	2.0	1254.3	153.4	3.3	3.0	13
14	1273.2	274.3	0.4	1.8	1265.3	217.7	0.9	2.0	1249.8	131.1	1.3	2.0	1254.3	153.4	3.0	3.0	14
15	1272.9	272.0	0.4	1.8	1265.0	215.7	0.9	2.0	1249.5	129.7	1.3	2.0	1254.3	153.4	2.9	2.9	15
16	1272.5	269.0	0.4	1.7	1264.7	213.8	0.9	2.0	1250.6	134.9	4.6	2.0	1254.0	151.8	2.5	3.0	16
17	1272.1	266.0	0.4	1.8	1264.4	211.8	1.1	2.0	1252.4	143.7	20.2	15.8	1253.7	150.3	2.3	3.0	17
18	1271.8	263.7	0.4	1.8	1265.1	216.4	4.3	2.0	1249.1	127.8	6.0	14.0	1253.4	148.7	2.2	3.0	18
19	1271.4	260.7	0.4	1.8	1265.0	215.7	1.7	2.0	1248.9	126.8	4.5	5.0	1253.1	147.2	2.2	3.0	19
20	1271.1	258.5	0.4	1.8	1264.9	215.1	1.6	1.9	1248.9	126.8	3.1	3.1	1252.9	146.2	2.2	3.0	20
21	1270.7	255.5	0.4	1.8	1264.8	214.4	1.6	2.0	1249.2	128.2	2.7	2.0	1252.6	144.7	2.2	3.0	21
22	1270.4	253.3	0.5	1.8	1264.6	213.1	1.2	2.0	1249.4	129.2	2.5	2.0	1253.1	1472	4.2	2.9	22
23	1270.0	250.4	0.5	1.7	1264.3	211.2	1.2	2.0	1254.3	153.4	24.7	12.5	1253.2	147.7	3.2	3.0	23
24	1269.7	248.2	0.5	1.8	1264.1	209.9	1.2	2.0	1258.7	177.2	31.3	19.3	1253.0	146.7	21.4	21.9	24
25	1269.5	246.8	1.0	1.7	1263.8	207.9	1.2	2.0	1254.5	154.4	15.5	27.0	1248.4	124.5	11.5	22.7	25
26	1270.0	250.4	1.8	0	1263.5	206.0	1.2	2.0	1251.0	136.8	8.5	17.4	1249.6	130.1	9.2	6.3	26
27	1270.4	253.3	1.5	0	1263.3	204.7	1.2	1.9	1249.8	131.1	4.7	7.5	1250.6	134.9	7.4	5.0	27
28	1270.7	255.5	1.1	0	1263.0	202.8	1.1	2.0	1249.6	130.1	4.5	5.0	1251.2	137.8	6.4	5.0	28
29	1270.6	254.8	0.8	1.3	1262.8	201.6	1.1	2.0	1250.3	133.4	6.4	4.8	1251.7	140.2	6.0	4.8	29
30	1270.2	251.9	0.8	2.0	1262.5	199.8	1.1	2.0	1251.0	136.8	5.1	3.4	1251.7	140.2	5.0	5.0	30
31	1269.9	249.7	0.8	2.0					1252.0	141.7	4.7	2.2	1251.6	139.7	4.8	5.0	31
TOTAL			18.2	49.8			34.4	59.6			166.8	196.1			138.6	139.6	
Inf. Ac. Ft.			36.1				68.2				330.8				274.9	710.0	
Outf. Ac. Ft.				98.8				118.2				389.0			276.9	882.9	
Maximum Mean Daily Inflow			1.8				4.3				31.3				21.4	31.3	
Minimum Mean Daily Inflow			0.4				0.8				1.1				2.2	0.4	
Storage Change			-62.7				-49.9				-58.1				-2.0	-172.7	

REMARKS: Outflows based on valve operation records and measurements. ½ Year

Max. W. S. Elev.	1299.2 feet on 4/10/41	Storage 512.1 Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	Date
Min. W. S. Elev.	1200.± feet on 5/14/41	Storage Dry Acre Feet	J. R. Propst	Dam Tender	Gage Hts. copied	A.C.M.
Max. Peak Inf.	300.± C.F.S. from 8:30 p.m. on 3/4/41	to 10:30 p.m. on 3/4/41	R. E. Lindsay	Hydrographer	Storage applied	A.C.M.
Max. Peak Outf.	260. C.F.S. ~~from~~ various times	to on		Hydrographer	Inf. & Outf. computed	H.A.V.
Gage Heights and Storages as of midnight on date shown.					Checked	G.H.M. 3/19/42

(= Mean for period.

F. C. Dist. Form 68 Revised 800 5/38

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

In Santa Anita Canyon for the Year Ending September 30, 1941

Drainage Area 10.8 Square Miles. Capacity of Reservoir 710.4 Ac. Ft. at Spillway Elev. 1316.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	FEBRUARY				MARCH				APRIL				MAY				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	1252.1	142.2	5.0	3.7	1264.0	209.2	118.6	116.0	1270.4	253.3	65.2	52.0	1272.9	272.0	44.0	46.4	1
2	1252.7	145.2	4.6	3.1	1270.0	250.4	115.7	95.0	1272.9	272.0	62.4	53.0	1273.7	278.2	38.0	34.8	2
3	1253.2	147.7	4.0	3.1	1267.9	235.4	99.5	107.0	1273.0	272.8	57.4	57.0	1274.0	280.5	36.0	34.9	3
4	1253.5	149.3	4.0	2.9	1276.8	302.7	238.9	205.0	1279.6	325.7	105.7	79.0	1273.8	279.0	34.0	34.7	4
5	1253.9	151.3	E 3.0	2.0	1266.9	228.4	222.6	260.0	1289.5	414.0	121.5	77.0	1270.9	257.0	32.0	43.1	5
6	1255.0	157.0	6.2	3.3	1267.8	234.7	152.1	149.0	1289.3	412.1	88.1	89.0	1264.7	213.8	29.0	50.8	6
7	1255.2	158.1	4.6	4.0	1266.1	223.0	104.1	110.0	1294.2	459.9	78.1	54.0	1257.2	168.8	28.0	50.7	7
8	1255.3	158.6	4.2	4.0	1268.7	241.1	94.2	85.0	1297.5	493.9	72.1	55.0	1249.5	129.7	28.0	47.7	8
9	1255.3	158.6	4.0	4.0	1268.9	242.5	80.7	80.0	1299.1	511.0	75.6	67.0	1244.2	105.6	27.0	39.2	9
10	1255.3	158.6	4.0	4.0	1266.4	225.0	71.1	80.0	1296.7	485.5	82.2	95.0	1234.9	67.9	26.0	45.0	10
11	1257.9	172.7	21.8	14.7	1263.4	205.4	61.2	71.0	1298.3	502.4	103.5	95.0	1222.5	27.0	26.0	46.6	11
12	1256.3	163.9	15.2	19.6	1274.3	282.8	97.0	58.0	1296.7	485.5	86.5	95.0	1208.0	2.2	26.0	38.5	12
13	1253.2	143.7	10.4	18.6	1271.4	260.7	93.8	105.0	1293.9	456.9	80.6	95.0	1202.8	0.2	26.0	27.0	13
14	1252.1	142.2	14.9	17.6	1266.6	226.4	83.7	101.0	1290.6	424.5	78.6	95.0	1200±	0	26.0	26.1	14
15	1255.7	160.7	30.5	21.2	1268.8	241.8	72.8	65.0	1286.5	386.2	75.7	95.0	1214.0	8.4	25.0	20.8	15
16	1256.9	167.2	38.3	35.0	1272.7	270.5	64.5	50.0	1292.1	439.0	62.6	36.0	1222.5	27.0	24.0	14.6	16
17	1258.8	177.8	63.6	58.3	1273.6	277.4	58.5	55.0	1295.2	470.0	62.5	44.8	1236.6	74.4	E 25.0	1.1	17
18	1250.9	136.3	41.1	62.0	1273.3	275.1	53.8	55.0	1288.6	405.5	62.4	97.0	1240.7	90.8	23.0	14.7	18
19	1259.9	184.1	61.7	27.6	1272.0	265.2	50.0	55.0	1281.1	338.4	61.2	95.0	1237.1	76.4	22.0	29.3	19
20	1265.4	218.3	177.2	160.0	1270.0	250.4	47.5	55.0	1272.2	266.7	55.9	92.0	1232.8	60.2	21.0	29.2	20
21	1269.1	243.9	178.9	166.0	1268.7	241.1	45.4	50.0	1268.5	239.7	51.4	65.0	1232.8	60.2	20.0	20.0	21
22	1265.5	219.0	163.5	176.0	1268.3	238.2	43.5	45.0	1266.0	222.3	46.2	55.0	1232.7	59.8	20.0	20.2	22
23	1267.4	231.9	101.5	95.0	1267.3	237.2	41.5	45.0	1262.8	201.6	43.5	54.0	1232.8	60.2	20.0	19.8	23
24	1259.0	178.9	76.3	103.0	1265.5	219.0	39.8	46.0	1262.2	197.9	43.7	45.5	1232.8	60.2	19.0	19.0	24
25	1254.1	152.3	52.9	66.3	1266.0	222.3	38.7	37.0	1262.1	197.3	43.0	43.3	1232.9	60.5	19.0	18.8	25
26	1251.0	136.8	39.6	47.5	1263.6	206.6	37.1	45.0	1263.9	208.6	40.7	35.0	1233.0	60.9	18.0	17.8	26
27	1252.2	142.7	35.8	32.8	1260.6	188.2	35.7	45.0	1264.9	215.1	38.3	35.0	1233.0	60.9	18.0	18.0	27
28	1263.2	204.1	78.8	47.8	1266.3	224.3	49.1	30.9	1265.1	216.4	35.6	35.0	1233.0	60.9	18.0	18.0	28
29					1269.8	249.0	62.5	50.0	1265.2	217.0	35.3	35.0	1233.0	60.9	18.0	18.0	29
30					1266.7	227.1	39.4	50.5	1273.5	276.7	70.4	40.3	1233.0	60.9	18.0	18.0	30
31					1266.7	227.1	51.0	51.0					1233.0	60.9	17.0	17.0	31
TOTAL			1245.6	1213.1			2464.0	2452.4			1985.9	1960.9			771.0	879.8	
Inf. Ac. Ft.			2470.6				4887.3				3939.0				1529.3	13536.2	
Outf. Ac. Ft.				2406.1				4864.3				3889.4			1745.1	13787.6	
Maximum Mean Daily Inflow			178.9				238.9				121.5				44.0	238.9	
Minimum Mean Daily Inflow			3.0				35.7				35.3				17.0	0.4	
Storage Change			+64.4				+23.0				+49.6				-215.8	-251.5	

REMARKS: Outflows based on valve operation records and measurements. ⅞ Year

Max. W. S. Elev.	1299.2 feet on 4/10/41	Storage 512.1 Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	Date
Min. W. S. Elev.	1200.± feet on 5/14/41	Storage Dry Acre Feet	J. R. Propst	Dam Tender	Gage Hts. copied	A.C.M.
Max. Peak Inf.	300.± C.F.S. from 8:30 p.m. on 3/4/41	to 10:30 p.m. on 3/4/41	R. E. Lindsay	Hydrographer	Storage applied	A.C.M.
Max. Peak Outf.	260. C.F.S. ~~from~~ various times	to on		Hydrographer	Inf. & Outf. computed	H.A.V.
Gage Heights and Storages as of midnight on date shown.					Checked	G.H.M. 3/18/42

(= Mean for period.
E = Estimated

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 BIG SANTA ANITA Dam

In Santa Anita Canyon for the Year Ending September 30, 1941

Drainage Area 10.8 Square Miles. Capacity of Reservoir 710.4 Ac. Ft. at Spillway Elev. 1316.0 Ft.

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	JUNE Gage Height	JUNE Acre Ft. Storage	JUNE C.F.S. Inflow	JUNE C.F.S. Outflow	JULY Gage Height	JULY Acre Ft. Storage	JULY C.F.S. Inflow	JULY C.F.S. Outflow	AUGUST Gage Height	AUGUST Acre Ft. Storage	AUGUST C.F.S. Inflow	AUGUST C.F.S. Outflow	SEPTEMBER Gage Height	SEPTEMBER Acre Ft. Storage	SEPTEMBER C.F.S. Inflow	SEPTEMBER C.F.S. Outflow	Day
1	1233.0	609	17.0	17.0	1214.8	97	9.5	10.1	1269.8	249.0	5.8	3.6	1285.3	375.2	3.8	3.3	1
2	1232.9	605	17.0	17.2	1214.6	94	1 9.2	9.4	1270.4	253.3	1 5.6	3.4	1285.4	376.1	3.7	3.3	2
3	1232.8	602	16.0	16.2	1220.0	205	1 8.9	3.3	1271.2	259.2	5.4	2.4	1285.6	378.0	4.3	3.3	3
4	1232.8	602	16.0	16.0	1225.4	352	1 8.6	1.1	1271.9	264.5	5.3	2.7	1285.6	378.0	E 3.7	3.7	4
5	1232.8	602	16.0	16.0	1229.8	495	1 8.3	1.1	1272.7	270.5	5.2	2.1	1285.5	377.1	3.7	4.2	5
6	1232.9	605	16.0	15.8	1233.3	620	1 8.0	1.7	1273.5	276.7	1 5.1	2.0	1285.4	376.1	3.7	4.2	6
7	1232.9	605	16.0	16.0	1236.3	733	1 7.8	2.1	1274.2	282.1	5.0	2.3	1285.3	375.2	(3.4	4.2	7
8	1232.9	605	15.0	15.0	1238.9	835	7.7	2.6	1274.9	287.5	5.0	2.3	1285.2	374.3	3.4	4.2	8
9	1232.9	605	15.0	15.0	1241.3	933	7.5	2.6	1275.5	292.3	4.7	2.3	1285.1	373.4	3.4	4.2	9
10	1232.9	605	14.0	14.0	1243.4	1021	7.1	2.6	1276.2	297.8	4.8	2.4	1284.8	370.7	3.4	4.2	10
11	1232.9	605	14.0	14.0	1245.5	1113	7.2	2.6	1276.9	303.5	4.7	2.4	1284.5	368.1	3.4	4.2	11
12	1232.9	605	13.0	13.0	1247.4	1198	7.0	2.7	1277.5	308.4	4.7	2.0	1284.4	367.2	1 3.3	3.8	12
13	1232.9	605	13.0	13.0	1249.2	1282	6.9	2.7	1278.0	312.4	4.7	1.9	1284.3	366.3	1 3.3	3.8	13
14	1232.9	605	13.0	13.0	1250.8	1356	6.6	2.7	1278.5	316.6	4.0	1.9	1284.2	365.4	1 3.3	3.7	14
15	1232.9	605	13.0	13.0	1252.3	1432	6.5	2.8	1279.0	320.7	4.0	1.9	1283.9	362.7	1 3.3	4.6	15
16	1232.9	605	13.0	13.0	1253.7	1503	6.4	2.8	1279.5	324.9	4.0	1.9	1283.4	358.3	1 3.3	5.3	16
17	1232.9	605	12.0	12.0	1254.9	1565	(6.2	2.9	1280.0	329.0	4.0	1.9	1283.0	354.8	1 3.3	5.3	17
18	1233.0	609	12.0	11.8	1256.1	1628	6.2	3.0	1280.5	333.3	4.0	1.9	1282.7	352.2	1 3.3	4.6	18
19	1233.0	609	12.0	12.0	1257.2	1688	6.2	3.1	1280.9	336.7	(4.0	1.9	1282.4	349.6	1 3.3	4.7	19
20	1233.0	609	12.0	12.0	1258.3	1750	6.2	3.2	1281.3	340.1	3.9	1.9	1281.9	345.2	(3.3	5.4	20
21	1233.0	609	11.0	11.0	1259.2	1801	(6.2	3.3	1281.7	343.5	3.9	1.9	1281.4	340.9	3.3	5.4	21
22	1233.0	609	11.0	11.0	1260.2	1855	6.2	3.4	1282.1	347.0	3.9	1.9	1280.9	336.7	3.2	5.4	22
23	1233.0	609	11.0	11.0	1261.2	1918	(6.1	3.5	1282.5	350.5	3.9	1.9	1280.4	332.4	3.2	5.4	23
24	1233.1	613	11.0	10.8	1262.2	1979	6.6	3.5	1282.9	353.9	3.9	1.9	1279.8	327.3	3.2	5.4	24
25	1233.2	616	11.0	10.8	1263.4	2054	7.3	3.5	1283.4	358.3	3.9	1.9	1279.2	322.4	3.2	5.4	25
26	1233.3	620	11.0	10.8	1264.7	2136	(7.4	3.5	1283.9	362.7	4.0	2.2	1278.7	318.2	3.2	5.4	26
27	1224.5	326	11.0	25.9	1265.8	2210	7.4	3.5	1284.4	367.2	4.0	2.5	1278.2	314.1	3.2	5.4	27
28	1218+	158	10.0	18.4	1266.8	2277	7.0	3.6	1284.8	370.7	4.0	2.5	1277.7	310.0	3.2	5.4	28
29	1217.2	141	10.0	10.9	1267.6	2333	6.4	3.6	1285.2	374.3	3.8	2.8	1277.2	305.9	3.2	5.4	29
30	1215.5	109	9.5	11.1	1268.4	2389	6.5	3.6	1285.2	374.3	3.7	3.3	1276.7	301.9	3.2	5.4	30
31					1269.2	2446	6.4	3.6	1285.2	374.3	3.7	3.3					31
TOTAL			391.5	416.7			221.5	103.7			136.6	71.2			101.7	138.2	
Inf. Ac. Ft.			776.5				439.3				270.9				201.7	1522.4.6	
Outf. Ac. Ft.				826.5				205.7				141.2			274.1	1523.5.3	
Maximum Mean Daily Inflow			17.0				9.5				5.8				4.3	23.8.9	
Minimum Mean Daily Inflow			9.5				6.1				3.7				3.2	0.4	
Storage Change			-50.0				+233.7				+129.7				-72.4	-105	

REMARKS: Outflows usually based on valve operation records and measurements. Yearly Totals

Max. W. S. Elev.	1299.2 feet on 4/10/41	Storage 512.1 Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	Date
Min. W. S. Elev.	1200.± feet on 5/14/41	Storage Dry Acre Feet	J. R. Propst	Dam Tender	Gage Hts. copied	A.C.M.
Max. Peak Inf.	300.± C.F.S. from 8:30 p.m. on 3/4/41	to 10:30 p.m. on 3/4/41	R. E. Lindsay	Hydrographer	Storage applied	A.C.M.
Max. Peak Outf.	260. C.F.S. from various times	to on		Hydrographer	Inf. & Outf. computed	H.A.V.
Gage Heights and Storages as of midnight on date shown.					Checked G.H.M.	3/19/42

(= Mean for period.
E = Estimated
1 = Interpolated

SAWPIT

F. C. Dist. Form 88 Revised 600 5/39

Through November 31, 1940, Storages based on L.A.C.F.C.D. Survey of April, 1935 corrected for debris after March 2, 1938, (Table IV).
Beginning December 1, 1940, 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 Sawpit Canyon for the Year Ending September 30, 1941

Drainage Area 3.3 Square Miles. Capacity of Reservoir 342.3 Ac. Ft. at Spillway Elev. 1360.0 Ft.

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	Day
1	1289.2	146	0	0	1289.4	149	0	0			+	+	1294.4	314	0.5	0	1
2	1289.2	146	0	0	1289.4	149	0	0			+	+	1294.8	323	0.4	0	2
3	1289.2	146	0	0	1289.4	149	0	0			+	+	1295.1	329	(0.4	0	3
4	1289.2	146	0	0	1289.4	149	0	0			+	+	1295.4	336	0.4	0	4
5	1289.2	146	0	0	1289.4	149	0	0			+	+	1295.8	345	0.3	0	5
6	1289.2	146	0	0	1284.6	75	0	3.7			+	+	1296.0	349	0.3	0	6
7	1289.2	146	0	0	Dry	0	0	3.8			+	+	1296.3	356	0.3	0	7
8	1289.2	146	0	0	1277.3	0.5	(0.2	0			+	+	1296.6	363	0.3	0	8
9	1289.2	146	0	0	1278.2	0.9	0.2	0			+	+	1296.8	367	0.2	0	9
10	1289.2	146	0	0	1278.7	1.2	0.2	0			+	+	1297.0	372	0.3	0	10
11	1289.2	146	0	0	1279.0	1.4	0.1	0			+	+	1297.2	377	0.2	0	11
12	1289.2	146	0	0	1279.2	1.6	0.1	0			+	+	1297.4	381	0.2	0	12
13	1289.2	146	0	0	0		0.1	0.9			+	+	1297.6	386	0.3	0	13
14	1289.2	146	0	0			0.1	0.1			+	0	1297.8	390	(0.3	0	14
15	1289.2	146	0	0			0.1	0.1			+	0	1298.0	395	0.2	0	15
16	1289.2	146	0	0			+	+	1252.0	0	+	0	1298.2	400	0.2	0	16
17	1289.2	146	0	0			+	+	1275.1	5.0	2.5	0	1298.4	405	0.2	0	17
18	1289.2	146	0	0			0.4	0.4	1273.9	4.3	+	0	1298.5	407	(0.2	0	18
19	1289.2	146	0	0			+	+	1273.7	4.2	+	0	1298.7	412	0.2	0	19
20	1289.2	146	0	0			+	+	1273.6	4.1	+	0	1298.8	415	0.2	0	20
21	1289.2	146	0	0			+	+	1273.5	4.0	+	0	1299.0	420	0.2	0	21
22	1289.2	146	0	0			+	+	1273.4	4.0	+	0	1299.2	425	(0.2	0	22
23	1289.1	145	0	0			+	+	1280.3	9.5	2.3	0	1299.3	428	(0.2	0	23
24	1289.1	145	0	0			+	+	1287.8	18.9	4.7	0	1300.2	451	1.2	0	24
25	1289.4	149	(0.1	0			+	+	1290.1	22.8	2.0	0	1300.7	464	0.6	0	25
26	1289.4	149	(0.1	0			+	+	1291.1	24.7	1.0	0	1301.1	475	0.6	0	26
27	1289.4	149	0	0			+	+	1291.8	26.0	0.6	0	1301.6	488	(0.5	0	27
28	1289.4	149	0	0			+	+	1292.3	27.0	0.5	0	1301.8	493	0.4	0	28
29	1289.4	149	0	0			+	+	1292.9	28.2	0.6	0	1302.1	501	0.3	0	29
30	1289.4	149	0	0			+	+	1293.4	29.2	0.5	0	1302.3	506	0.3	0	30
31	1289.4	149	0	0					1294.0	30.5	0.7	0	1302.5	512	0.3	0	31
TOTAL			0.2	0			1.5	9.0			15.4	+			10.4	0	
Inf. Ac. Ft.			0.4				3.0				30.5				20.6	54.5	
Outf. Ac. Ft.				0				17.9				+			0	17.9	
Maximum Mean Daily Inflow			0.1				0.4				4.7				1.2	4.7	
Minimum Mean Daily Inflow			0				0				+				0.2	0	
Storage Change			+0.3				-14.9				+30.5				+20.7	+36.6	

REMARKS: ½ Year

Max. W. S. Elev.	1320.6 feet on 3/5/41	Storage 114. Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	Date
Min. W. S. Elev.	1252.± feet on various times	Storage Dry Acre Feet	R. E. Waddicor	Dam Tender	Gage Hts. copied	A.C.M.
Max. Peak Inf.	109. C.F.S. from 5:30 a.m. on 3/4/41	to 6:00 a.m. on 3/4/41	R. E. Lindsay	Hydrographer	Storage applied	A.C.M.
Max. Peak Outf.	59. C.F.S. from uncontrolled on 3/5/41	to on		Hydrographer	Inf. & Outf. computed	H.A.V.
Gage Heights and Storages as of midnight on date shown.					Checked G.H.M.	3/19/42

(= Mean for period.
• = Inflow from Monrovia pipe line; used for sluicing and ground storage.

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, 1941

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	1302.7	51.8	0.3	0	1296.9	37.0	19.4	20.3	1283.9	13.5	15.0	15.8	1310.7	76.7	7.8	8.0	1
2	1302.9	52.3	0.3	0	1292.4	27.2	17.6	22.5	1267.4	1.5	14.0	E 20.0	1309.1	71.3	6.8	9.5	2
3	1303.1	52.9	0.3	0	1297.7	38.8	17.5	11.7	1267.4	1.5	12.0	E 12.0	1303.5	54.0	7.3	16.0	3
4	1303.3	53.5	0.3	0	1319.9	111.1	63.2	26.7	1286.6	17.1	19.5	11.6	1295.7	34.2	6.0	16.0	4
5	1303.5	54.0	0.2	0	1315.9	95.3	43.0	51.0	1303.5	54.0	18.6	0	1294.3	31.2	4.3	6.5	5
6	1304.0	55.5	0.8	0	1304.0	55.5	23.1	43.2	1307.3	65.6	14.5	8.7	1294.3	31.2	4.2	3.5	6
7	1304.3	56.4	0.4	0	1286.8	17.4	13.8	33.0	1298.9	41.7	14.0	E 26.0	1295.0	32.7	3.7	2.9	7
8	1304.5	57.0	0.3	0	1273.4	4.0	13.3	20.0	1288.5	20.0	14.0	E 25.0	1295.3	33.4	3.3	3.0	8
9	1304.7	57.6	0.3	0	1272.0	3.2	12.6	E 13.0	1277.7	7.0	11.5	18.0	1295.4	33.6	3.1	3.0	9
10	1304.9	58.2	0.3	0	1271.2	2.9	9.8	E 10.0	1267.2	1.4	15.1	18.0	1295.3	33.4	3.1	3.2	10
11	1305.9	61.2	1.5	0	1270.6	2.6	6.8	E 7.0	1271.6	3.1	19.9	19.0	1295.2	33.1	3.1	3.2	11
12	1306.9	64.3	1.6	0	1292.2	26.8	21.3	9.0	1258.0	0	17.4	19.0	1295.1	32.9	3.1	3.4	12
13	1307.5	66.2	1.0	0	1293.5	29.4	19.1	17.8	1258.0	0	16.0	E 16.0	1294.7	32.0	3.1	3.4	13
14	1308.4	69.1	1.4	0	1273.3	3.9	18.1	31.0	1258.0	0	14.0	E 14.0	1294.3	31.2	3.0	3.4	14
15	1310.2	75.0	3.5	0.5	1272.4	3.4	17.8	E 18.0	1258.0	0	12.0	E 12.0	1293.9	30.3	3.0	3.4	15
16	1310.5	76.0	4.0	3.5	1271.6	3.1	15.8	E 16.0	1258.0	0	8.0	8.0	1293.8	30.1	2.4	2.5	16
17	1310.5	76.0	6.0	6.0	1270.9	2.8	10.9	E 11.0	1282.4	11.7	7.6	1.7	1293.9	30.3	2.4	2.2	17
18	1310.5	76.0	4.7	4.7	1270.1	2.4	9.8	E 10.0	1292.0	26.4	7.4	0	1293.8	30.1	2.4	2.4	18
19	1311.6	79.8	8.0	6.1	1269.1	2.1	7.7	E 8.0	1298.3	40.2	7.0	0	1295.0	32.7	2.4	1.4	19
20	1311.8	80.5	24.1	23.7	1268.4	1.8	7.6	E 6.0	1303.1	52.9	6.4	0	1297.0	37.2	2.3	0	20
21	1312.3	82.2	26.4	25.6	1288.6	20.2	7.6	0	1307.4	65.9	6.6	0	1298.9	41.7	1.8	0	21
22	1311.6	79.8	26.4	27.6	1295.6	34.0	7.0	0	1310.4	75.7	6.0	1.1	1300.1	44.9	1.7	0	22
23	1301.4	48.2	11.9	27.8	1294.2	30.9	6.1	7.1	1310.4	75.7	5.5	5.5	1301.1	47.5	1.7	0	23
24	1287.9	19.0	7.6	25.4	1280.2	9.4	6.0	17.1	1310.4	75.7	5.5	5.5	1302.2	50.4	1.5	0	24
25	1276.2	5.9	7.5	11.0	1272.0	3.2	6.0	8.4	1310.4	75.7	5.0	5.0	1303.3	53.5	1.6	0	25
26	1274.0	4.3	6.7	7.5	1272.0	3.2	6.0	E 7.0	1310.4	75.7	5.0	5.0	1304.4	56.7	1.6	0	26
27	1276.7	6.2	7.4	6.5	1272.3	3.4	5.5	E 5.4	1310.4	75.7	5.0	5.0	1305.3	59.4	1.3	0	27
28	1297.7	38.8	18.1	1.7	1275.6	5.4	5.5	E 4.5	1310.4	75.7	4.7	4.7	1306.0	61.5	1.1	0	28
29					1282.7	12.0	14.2	10.9	1310.4	75.7	4.5	4.5	1306.5	63.0	1.0	0	29
30					1268.5	1.8	10.2	15.4	1310.8	77.0	11.7	11.0	1307.1	64.9	1.0	0	30
31					1285.1	15.0	13.6	6.9					1307.9	67.5	1.0	0	31
TOTAL			171.3	177.6			455.9	467.9			323.4	292.1			92.1	96.9	
Inf. Ac. Ft.			339.8				904.3				641.5				182.7	2122.8	
Outf. Ac. Ft.				352.3				928.1				579.4			192.2	2069.9	
Maximum Mean Daily Inflow			26.4				63.2				19.9				7.8	63.2	
Minimum Mean Daily Inflow			0.2				5.5				4.5				1.0	0	
Storage Change			-12.4				-23.8				+62.0				-9.5	+52.9	

REMARKS: Outflows as indicated by valve operation records and U.S.G.S. Station records. ½ Year

Max. W. S. Elev. 1320.6 feet on 3/5/41 Storage 114. Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS Date
Min. W. S. Elev. 1252.± feet on various times Storage Dry Acre Feet	R. E. Waddicor	Dam Tender	Gage Hts. copied A.C.M.
Max. Peak Inf. 109. C.F.S. from 5:30 a.m. on 3/4/41 to 6:00 a.m. on 3/4/41	R. E. Lindsay	Hydrographer	Storage applied A.C.M.
Max. Peak Outf. 59. C.F.S. from uncontrolled on 3/5/41 to on		Hydrographer	Inf. & Outf. computed H.A.V.
Gage Heights and Storages as of midnight on date shown.			Checked G.H.M. 3/19/42

(= Mean for period.
E = Estimated

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, 1941

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	1308.5	69.4	1.0	0	1310.0	74.3	0.3	0.2	1307.7	66.8	0.1	1.3	1295.5	33.8	0.1	0	1
2	1309.1	71.3	1.0	0	1310.0	74.3	0.2	0.2	1306.9	64.3	0.1	1.3	1295.6	34.0	0.1	0	2
3	1309.7	73.3	1.0	0	1310.0	74.3	0.2	0.2	1306.2	62.1	0.1	1.2	1295.7	34.2	0.1	0	3
4	1310.1	74.6	1.0	0.2	1310.1	74.6	0.2	0.2	1305.4	59.7	0.1	1.3	1295.8	34.5	0.1	0	4
5	1310.1	74.6	1.0	0.4	1310.1	74.6	0.2	0.2	1304.7	57.6	0.1	1.2	1295.9	34.7	0.1	0	5
6	1310.2	75.0	1.0	0.8	1310.1	74.6	0.2	0.2	1303.9	55.2	0.1	1.3	1296.0	34.9	0.1	0	6
7	1310.3	75.3	0.9	1.1	1310.1	74.6	0.2	0.2	1303.1	52.9	0.1	1.3	1296.1	35.1	0.1	0	7
8	1310.3	75.3	0.9	1.3	1310.1	74.6	0.2	0.2	1302.2	50.4	0.1	1.3	1296.2	35.4	0.1	0	8
9	1310.3	75.3	0.9	1.1	1310.0	74.3	0.2	0.3	1301.4	48.2	0.1	1.2	1296.2	35.4	0.1	0	9
10	1310.3	75.3	0.9	0.8	1310.0	74.3	0.2	0.2	1300.6	46.2	0.1	1.2	1296.3	35.6	0.1	0	10
11	1310.2	75.0	0.7	0.9	1310.0	74.3	0.2	0.2	1299.7	43.8	0.1	1.2	1296.4	35.8	0.1	0	11
12	1310.2	75.0	0.6	0.6	1310.0	74.3	0.2	0.2	1298.9	41.7	0.1	1.2	1296.4	35.8	0.1	0	12
13	1310.2	75.0	0.6	0.6	1310.0	74.3	0.2	0.2	1298.0	39.5	0.1	1.2	1296.5	36.0	0.1	0	13
14	1310.2	75.0	0.6	0.5	1310.0	74.3	0.2	0.2	1297.2	37.7	0.1	1.1	1296.6	36.3	0.1	0	14
15	1310.2	75.0	0.5	0.5	1310.1	74.6	0.2	0.2	1296.3	35.6	0.1	1.1	1295.7	34.2	0.1	1.2	15
16	1310.2	75.0	0.4	0.5	1310.1	74.6	0.2	0.2	1295.4	33.6	0.1	1.1	1294.0	30.5	0.1	1.9	16
17	1310.2	75.0	0.4	0.4	1310.1	74.6	0.2	0.2	1294.5	31.6	0.1	1.1	1292.4	27.2	0.1	1.8	17
18	1310.2	75.0	0.4	0.4	1310.1	74.6	0.2	0.2	1294.1	30.7	0.1	0.4	1290.6	23.7	0.1	1.9	18
19	1310.2	75.0	0.3	0.4	1310.1	74.6	0.2	0.2	1294.2	30.9	0.1	0	1288.8	20.5	0.1	1.7	19
20	1310.0	74.3	0.3	0.5	1310.1	74.6	0.2	0.2	1294.3	31.2	0.1	0	1286.9	17.6	0.1	1.6	20
21	1310.0	74.3	0.3	0.6	1310.1	74.6	0.2	0.2	1294.4	31.4	0.1	0	1284.7	14.5	0.1	1.6	21
22	1310.0	74.3	0.3	0.2	1310.1	74.6	0.2	0.2	1294.5	31.6	0.1	0	1282.4	11.7	0.1	1.5	22
23	1310.0	74.3	0.3	0.2	1310.1	74.6	0.2	0.2	1294.6	31.8	0.1	0	1279.7	8.9	0.1	1.5	23
24	1310.0	74.3	0.3	0.2	1310.0	74.3	0.2	0.2	1294.7	32.0	0.1	0	1276.9	6.4	0.1	1.4	24
25	1310.0	74.3	0.3	0.3	1310.0	74.3	0.2	0.2	1294.8	32.3	0.1	0	1273.8	4.2	0.1	1.2	25
26	1310.0	74.3	0.3	0.3	1310.0	74.3	0.2	0.2	1294.9	32.5	0.1	0	1271.3	2.9	0.1	0.8	26
27	1310.0	74.3	0.3	0.3	1310.0	74.3	0.2	0.2	1295.0	32.7	0.1	0	1264.6	0.7	0.1	1.2	27
28	1310.0	74.3	0.2	0.2	1309.8	73.6	0.1	0.5	1295.1	32.9	0.1	0	Dry	0	0.1	0.4	28
29	1310.0	74.3	0.2	0.2	1309.4	72.3	0.1	0.7	1295.2	33.1	0.1	0	"	0	0.1	0.1	29
30	1310.0	74.3	0.2	0.2	1309.0	71.0	0.1	0.8	1295.3	33.4	0.1	0	"	0	0.1	0.1	30
31					1308.4	69.1	0.1	1.0	1295.4	33.6	0.1	0					31
TOTAL			17.1	13.7			5.9	8.5			3.1	21.0			3.0	1.9	
Inf. Ac. Ft.			33.9				11.7				6.1				6.0	2180.5	
Outf. Ac. Ft.				27.2				16.9				41.7			39.5	2195.2	
Maximum Mean Daily Inflow			1.0				0.3				0.1				0.1	63.2	
Minimum Mean Daily Inflow			0.2				0.1				0.1				0.1	0	
Storage Change			+6.8				-5.2				-35.5				-33.6	-14.6	

REMARKS: Outflows as indicated by valve operation records and U.S.G.S. Station records. Yearly Totals

Max. W. S. Elev. 1320.6 feet on 3/5/41 Storage 114. Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS Date
Min. W. S. Elev. 1252.± feet on various times Storage Dry Acre Feet	R. E. Waddicor	Dam Tender	Gage Hts. copied A.C.M.
Max. Peak Inf. 109. C.F.S. from 5:30 a.m. on 3/4/41 to 6:00 a.m. on 3/4/41	R. E. Lindsay	Hydrographer	Storage applied A.C.M.
Max. Peak Outf. 59. C.F.S. from uncontrolled on 3/5/41 to on		Hydrographer	Inf. & Outf. computed H.A.V.
Gage Heights and Storages as of midnight on date shown.			Checked G.H.M. 3/19/42

(= Mean for period.
E = Estimated

SAN GABRIEL NO. 2

F. C. Dist. Form 68 Revised 600 5/39

Storages based on L.A.C.F.C.D. Survey of January, 1936 with debris corrections of November, 1940 (Table IV)

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

In San Gabriel Canyon - West Fork for the Year Ending September 30, 1941

Drainage Area 40.4 Square Miles. Capacity of Reservoir 11,102. Ac. Ft. at Spillway Elev. 2385.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Continuous Water Stage Recorder Pressure

Gage Heights Read Daily

Dead Storage Elevation of Outlet Riser = 2202.

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	2194 ±	2.7 ±	1.0	1.0	2194 ±	2.7	1.6	1.6	2218.9	65.0	2.5	0.9	2233.9	1856.8	26.0	9.1	1
2			0.9	0.9		2.7	1.6	1.6	2219.3	67.8	2.3	0.9	2234.3	1876.2	18.4	8.6	2
3			0.7	0.7		2.7	1.6	1.6	2219.7	70.6	2.3	0.9	2234.7	1895.8	18.5	8.6	3
4			0.6	0.6		2.7	1.6	1.6	2220.1	73.6	2.4	0.9	2235.1	1915.3	18.0	8.2	4
5			0.5	0.5		2.7	1.6	1.6	2220.4	76.1	2.4	0.9	2235.4	1930.2	15.7	8.2	5
6			1.0	1.0	2194 ±	2.7	1.6	1.6	2220.8	79.4	2.4	0.9	2235.6	1940.0	13.2	8.2	6
7			0.7	0.7	2195.7	3.9	1.6	1.0	2221.2	82.8	2.4	0.9	2236.0	1959.8	17.7	7.7	7
8			0.9	0.9	2198.0	6.0	1.8	0.7	2221.5	85.6	2.4	0.7	2236.3	1974.6	14.2	6.7	8
9			0.9	0.9	2199.7	8.1	1.7	0.7	2221.8	88.4	2.5	0.9	2236.5	1984.8	11.8	6.7	9
10			0.9	0.9	2201.2	10.1	1.6	0.6	2222.2	92.2	2.5	0.9	2236.9	2004.6	17.8	7.7	10
11			0.9	0.9	2199.0	7.2	1.6	2.7	2222.5	95.3	2.5	0.9	2237.3	2025.0	17.8	7.7	11
12			1.0	1.0	2194.5	2.7	1.6	4.2	2223.0	100.4	3.6	1.0	2237.6	2040.2	15.4	7.7	12
13			1.0	1.0	2194.5	2.7	2.1	2.1	2223.4	104.6	3.2	1.0	2237.9	2055.3	15.3	7.7	13
14			0.9	0.9	2194.5	2.7	2.1	2.1	2223.7	108.1	2.5	0.9	2238.2	2070.6	15.4	7.7	14
15			0.7	0.7	2194.5	2.7	2.1	2.1	2224.0	111.4	2.4	0.7	2238.4	2080.9	12.9	7.7	15
16			0.6	0.6	2194.5	2.7	1.9	1.9	2230.4	197.3	4.5 2	1.9	2238.6	2091.1	12.9	7.7	16
17			0.7	0.7	2199.0	7.2	3.5	1.2	2245.0	472.1	14.4 2	5.6	2238.8	2101.4	12.9	7.7	17
18			0.6	0.6	2207.6	22.7	8.9	1.1	2246.9	516.7	2.7 1	4.7	2239.0	2111.6	12.8	7.7	18
19			0.6	0.6	2209.4	27.1	2.9	0.7	2248.0	543.6	1.7 3	3.7	2239.1	2116.8	10.3	7.7	19
20			1.0	1.0	2210.6	30.8	2.6	0.7	2248.8	563.7	1.3 6	3.7	2239.3	2127.2	13.0	7.7	20
21			1.7	1.7	2211.6	33.5	2.4	0.7	2249.6	584.2	1.3 8	3.4	2239.5	2137.6	12.4	7.2	21
22			1.0	1.0	2212.8	36.6	2.4	0.7	2250.2	599.9	1.1 3	3.4	2239.8	2153.1	15.0	7.2	22
23			1.0	1.0	2213.7	39.6	2.4	0.9	2261.6	942.8	18.0 0	7.1	2290.1	2168.8	15.1	7.2	23
24	2194 ±	2.7 ±	1.0	1.0	2214.5	42.5	2.4	0.9	2274.1	1415.3	24.9 6	11.4	2294.7	2416.2	135.2	10.4	24
25	2197.2	5.2	2.5	1.2	2215.3	45.7	2.5	0.9	2277.3	1552.2	8.0 2	11.2	2296.2	2500.1	54.2	11.9	25
26	2202.4	12.0	4.4	1.0	2216.0	48.7	2.4	0.9	2279.6	1609.9	4.0 3	11.2	2297.4	2568.5	48.3	13.6	26
27	2199.2	7.4	1.9	4.2	2216.6	51.6	2.4	0.9	2279.4	1646.0	2.8 8	10.6	2298.3	2620.4	59.3	13.2	27
28	2194.5	2.7	1.6	4.0	2217.2	54.7	2.4	0.9	2280.0	1673.3	2.4 4	10.6	2298.9	2655.3	30.2	12.6	28
29	2194 ±	2.7	1.7	1.7	2217.8	58.1	2.5	0.9	2281.4	1738.1	4.3 2	10.6	2299.5	2690.6	26.6	13.2	29
30	2194 ±	2.7	1.6	1.6	2218.4	61.6	2.5	1.0	2282.3	1780.4	3.1 0	9.6	2299.6	2708.2	2.6.5	13.2	30
31	2194 ±	2.7	1.6	1.6					2283.2	1823.2	3.1 1	9.6	2300.1	2725.9	22.1	13.2	31
TOTAL			36.1	36.1			69.9	40.1			1019.6	131.6			734.9	279.6	
Inf. Ac. Ft.			71.6				138.6				2022.3				1457.7	3690.2	
Outf. Ac. Ft.				71.6				79.5				261.0			555.0	967.1	
Maximum			4.4				8.9				249.6				135.2	249.6	
Mean Daily Inflow			1.2				4.6				67.4				47.4	9.0	
Minimum Mean Daily Inflow			0.5				1.6				2.3				10.3	0.5	
Storage Change			0				+ 59.1				+ 1761.4				+ 902.7	+ 2723.2	

REMARKS: Outflows as indicated by valve operation records and flows at Station F209R.

Max. W. S. Elev.	2375.9	feet on	5/2/41	Storage	9847.4	Acre Feet	
Min. W. S. Elev.	2194.±	feet on	various times	Storage	2.7	Acre Feet	
Max. Peak Inf.	1637.	C.F.S. from	7:00 p.m. on 2/20/41	to	8:00 p.m. on	2/20/41	
Max. Peak Outf.	1080. to 1160.	C.F.S. from	1:00 p.m. on 2/20/41	to	10:00 a.m. on	2/23/41	

Gage Heights and Storages as of midnight on date shown.

RECORDS COLLECTED BY		
Ben Harrison	Dam Tender	
G. Brown	Hydrographer	
E. Godfrey	Hydrographer	

COMPUTATIONS	Date
Gage Hts. copied	A.C.M.
Storage applied	A.C.M.
Inf. & Outf. computed	H.A.V.
Checked G.H.M.	3/12/42

(= Mean for period.

F. C. Dist. Form 68 Revised 600 5/39

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

In San Gabriel Canyon - West Fork for the Year Ending September 30, 1941.

Drainage Area 40.4 Square Miles. Capacity of Reservoir 11,102. Ac. Ft. at Spillway Elev. 2385.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Continuous Water Stage Recorder Pressure

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	2300.4	2743.8	21.6	12.6	2331.0	4942.1	465.4	300.0	2330.6	4907.9	254.3	237.0	2375.8	9834.1	148.7	122.0	1
2	2300.7	2761.6	21.6	12.6	2330.4	4890.7	394.1	420.0	2330.4	4890.7	234.3	243.0	2374.9	9715.1	137.0	197.0	2
3	2300.9	2773.5	17.2	11.2	2329.1	4780.4	368.4	424.0	2329.4	4805.7	200.2	243.0	2374.0	9596.8	134.3	194.0	3
4	2301.1	2785.4	17.2	11.2	2336.9	5467.2	1238.3	892.0	2331.6	4994.1	345.0	250.0	2373.9	9583.8	115.5	122.0	4
5	2301.2	2791.4	14.2	11.2	2333.4	5151.7	840.9	1000.0	2334.8	5276.5	395.3	253.0	2373.8	9570.7	115.4	122.0	5
6	2302.7	2882.1	58.4	12.6	2323.9	4355.9	564.8	966.0	2335.4	5330.6	274.3	247.0	2373.6	9544.7	105.9	119.0	6
7	2303.1	2906.4	24.8	12.6	2323.1	4293.1	432.4	464.0	2337.3	5504.1	256.5	169.0	2373.4	9518.6	104.8	118.0	7
8	2303.4	2924.9	22.5	13.2	2323.7	4340.2	331.7	308.0	2341.4	5890.8	238.9	44.0	2373.1	9479.5	94.3	114.0	8
9	2303.7	2943.4	22.6	13.2	2322.8	4269.6	251.4	287.0	2345.3	6273.9	242.2	49.0	2372.7	9427.7	90.9	116.0	9
10	2303.9	2955.6	19.3	13.2	2323.1	4293.1	250.9	239.0	2349.3	6683.1	268.3	62.0	2372.3	9376.0	90.9	118.0	10
11	2309.5	3313.2	197.0	16.7	2323.8	4348.1	234.7	207.0	2355.0	7295.6	385.8	77.0	2371.8	9311.5	89.6	120.0	11
12	2312.1	3487.9	111.1	23.0	2331.6	4994.1	547.7	222.0	2358.7	7713.1	292.5	82.0	2371.3	9247.4	89.6	124.0	12
13	2313.6	3591.3	76.1	24.0	2331.7	5002.7	523.3	519.0	2361.6	8051.5	257.6	87.0	2370.8	9183.4	87.6	124.0	13
14	2316.3	3782.5	122.4	26.0	2325.0	4443.5	450.1	732.0	2364.2	8362.7	258.9	102.0	2370.2	9107.1	87.6	122.0	14
15	2321.6	4176.7	234.7	36.0	2322.8	4269.6	376.3	464.0	2365.2	8484.3	237.3	176.0	2369.7	9043.7	81.8	122.0	15
16	2327.6	4655.3	289.3	48.0	2324.4	4395.7	316.6	253.0	2365.8	8557.7	225.0	188.0	2369.0	8955.3	81.7	118.0	16
17	2332.6	5081.3	457.8	243.0	2324.9	4435.5	280.1	260.0	2367.6	8780.2	218.2	106.0	2368.3	8867.6	69.8	114.0	17
18	2323.0	4285.2	225.6	627.0	2324.5	4403.7	253.9	270.0	2369.0	8955.3	195.3	107.0	2367.6	8780.2	67.9	112.0	18
19	2315.7	3739.4	377.9	653.0	2323.5	4324.5	220.1	260.0	2370.1	9094.3	180.0	110.0	2366.9	8693.3	58.0	110.0	19
20	2329.2	4788.8	1402.0	873.0	2322.0	4207.4	194.0	253.0	2370.9	9196.2	161.4	110.0	2366.1	8594.5	58.0	108.0	20
21	2330.2	4873.6	1122.8	1080.0	2322.3	4230.7	193.7	182.0	2371.7	9298.7	163.7	112.0	2365.2	8484.3	57.9	106.0	21
22	2325.0	4443.5	913.2	1130.0	2322.4	4238.5	190.9	187.0	2372.3	9376.0	152.0	113.0	2364.4	8387.0	57.9	106.0	22
23	2320.7	4108.0	492.8	662.0	2322.1	4215.2	172.3	184.0	2372.7	9427.7	144.0	118.0	2363.6	8290.2	55.2	104.0	23
24	2320.5	4092.8	337.3	345.0	2321.5	4169.1	151.8	175.0	2373.1	9479.5	146.1	120.0	2362.8	8194.2	54.6	103.0	24
25	2319.8	4039.9	261.4	288.0	2320.6	4100.4	142.3	177.0	2373.4	9518.6	138.8	119.0	2361.9	8087.0	48.9	103.0	25
26	2318.9	3972.6	197.0	231.0	2319.6	4024.9	140.9	179.0	2373.6	9544.7	132.1	119.0	2361.0	7980.5	49.3	103.0	26
27	2319.2	3995.0	188.3	177.0	2320.2	4070.1	137.6	115.0	2373.6	9544.7	118.0	118.0	2360.1	7875.1	46.6	100.0	27
28	2327.1	4614.0	442.1	130.0	2323.2	4300.9	200.4	84.0	2373.6	9544.7	118.0	118.0	2359.2	7770.7	46.5	98.0	28
29					2327.4	4638.7	255.3	85.0	2373.6	9544.7	118.0	118.0	2358.3	7667.2	46.5	96.0	29
30					2329.2	4788.8	159.7	84.0	2375.4	9781.2	239.3	120.0	2357.5	7576.0	46.5	96.0	30
31					2330.2	4873.6	203.7	161.0					2356.6	7474.2	44.7	96.0	31
TOTAL			7688.2	6736.3			10483.9	10353.0			6591.3	4117.0			2463.9	3627.0	
Inf. Ac. Ft.			15249.3				20794.5				13073.6				4887.1	57694.7	
Outf. Ac. Ft.				13361.2				20534.9				8165.9			7194.0	50223.1	
Maximum			1402.0				1238.3				395.3				148.7	1402.0	
Mean Daily Inflow			274.6				338.2				435.8				79.4	116.9	
Minimum Mean Daily Inflow			14.2				137.8				118.0				44.7	0.5	
Storage Change			+ 1888.1				+ 259.6				+ 4907.6				- 2307.0	+ 7471.5	

REMARKS: Outflows based on valve operation records and flows at Station F209R.

Max. W. S. Elev.	2375.9	feet on	5/2/41	Storage	9847.4	Acre Feet	
Min. W. S. Elev.	2194.±	feet on	various times	Storage	2.7	Acre Feet	
Max. Peak Inf.	1637.	C.F.S. from	7:00 p.m. on 2/20/41	to	8:00 p.m. on	2/20/41	
Max. Peak Outf.	1080. to 1160.	C.F.S. from	1:00 p.m. on 2/20/41	to	10:00 p.m. on	2/23/41	

Gage Heights and Storages as of midnight on date shown.

RECORDS COLLECTED BY		
Ben Harrison	Dam Tender	
G. Brown	Hydrographer	
E. Godfrey	Hydrographer	

COMPUTATIONS	Date
Gage Hts. copied	A.C.M.
Storage applied	A.C.M.
Inf. & Outf. computed	H.A.V.
Checked G.H.M.	3/13/42

(= Mean for period.

SAN GABRIEL NO. 2 (CONT.)

F. C. Dist. Form 68 Revised 600 8/39

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

In San Gabriel Canyon - West Fork for the Year Ending September 30, 1941

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Continuous Water Stage Recorder Pressure

Drainage Area 40.4 Square Miles. Capacity of Reservoir 11,102. Ac. Ft. at Spillway Elev. 2385.0 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	2355.7	7373.4	45.2	96.0	2305.7	3067.9	20.5	30.0	2292.1	2274.5	9.6	23.0	2279.2	1636.9	6.9	15.4	1
2	2354.8	7273.6	45.7	96.0	2305.4	3049.1	20.5	30.0	2291.7	2253.2	9.6	22.0	2278.8	1618.9	6.9	15.4	2
3	2353.9	7174.6	45.1	95.0	2305.1	3030.2	(19.0	30.0	2291.2	2226.6	9.6	22.0	2278.5	1605.5	6.9	15.0	3
4	2352.8	7055.0	42.7	103.0	2304.7	3005.3	18.9	30.0	2290.7	2200.3	9.4	22.0	2278.1	1587.6	6.9	15.0	4
5	2351.1	6872.7	39.0	131.0	2304.3	2980.4	17.5	30.0	2290.2	2174.0	9.4	21.0	2277.8	1574.3	6.9	14.4	5
6	2349.4	6693.5	(37.6	120.0	2303.9	2955.6	17.5	30.0	2289.8	2153.1	9.3	21.0	2277.5	1561.1	6.7	13.7	6
7	2347.8	6527.7	37.5	129.0	2303.5	2931.1	16.6	29.0	2289.3	2127.2	9.3	21.0	2277.1	1543.4	6.7	13.4	7
8	2346.1	6354.3	36.6	124.0	2303.1	2906.4	(15.0	28.0	2288.9	2106.5	9.1	21.0	2276.8	1530.3	6.7	13.4	8
9	2344.5	6194.1	35.2	116.0	2302.6	2876.0	14.0	27.0	2288.4	2080.9	9.1	21.0	2276.4	1513.0	6.7	13.1	9
10	2342.5	5997.3	(32.9	130.0	2302.2	2851.7	13.0	27.0	2288.0	2060.4	9.1	21.0	2276.1	1500.0	6.7	13.1	10
11	2340.2	5775.9	30.9	136.0	2301.7	2821.5	12.8	27.0	2287.6	2040.2	8.8	20.0	2275.8	1487.2	6.5	13.1	11
12	2338.0	5568.8	29.0	142.0	2301.3	2797.5	12.8	26.0	2287.1	2014.9	8.7	19.3	2275.5	1474.4	6.5	12.7	12
13	2335.4	5330.6	1 29.0	149.1	2300.8	2767.5	12.8	26.0	2286.7	1994.8	8.7	18.6	2275.2	1461.5	6.5	12.4	13
14	2330.0	4856.5	1 28.9	268.0	2300.4	2743.8	12.8	26.0	2286.2	1969.8	8.4	18.2	2274.9	1448.8	6.5	12.4	14
15	2324.6	4411.6	1 28.9	253.2	2299.9	2714.1	12.8	27.0	2285.8	1949.9	8.4	18.6	2274.6	1436.2	6.5	12.4	15
16	2319.7	3957.8	1 28.9	237.7	2299.5	2690.6	12.8	27.0	2285.5	1935.1	8.4	18.6	2274.4	1427.9	6.2	12.1	16
17	2312.9	3542.7	1 28.8	238.0	2299.0	2661.1	12.8	27.0	2285.1	1915.3	8.4	18.9	2274.1	1415.3	6.2	12.1	17
18	2309.1	3286.8	1 28.8	157.8	2298.5	2632.1	12.8	27.0	2284.6	1890.9	8.0	18.9	2273.8	1402.8	6.2	12.1	18
19	2308.8	3267.2	28.8	37.0	2298.0	2603.0	12.8	26.0	2284.2	1871.4	8.0	18.9	2273.6	1394.6	6.2	12.1	19
20	2308.6	3254.1	28.7	37.0	2297.6	2580.0	12.8	26.0	2283.8	1852.0	8.0	18.9	2273.4	1386.3	6.2	11.5	20
21	2308.3	3234.6	(26.1	36.0	2297.0	2545.5	12.1	26.0	2283.3	1828.0	7.5	18.2	2273.2	1378.1	6.1	10.8	21
22	2308.0	3215.0	25.2	35.0	2296.5	2517.2	11.7	25.0	2282.9	1808.8	7.4	17.5	2273.0	1369.8	6.1	9.9	22
23	2307.7	3195.6	24.2	34.0	2296.0	2488.8	11.7	24.0	2282.5	1789.8	7.4	17.1	2272.8	1361.7	6.1	9.9	23
24	2307.4	3176.3	24.2	34.0	2295.6	2466.4	11.1	24.0	2282.1	1770.8	7.2	16.8	2272.6	1353.6	6.1	9.6	24
25	2307.2	3163.4	(24.8	33.0	2295.1	2438.4	11.1	23.0	2281.7	1752.1	7.2	16.4	2272.5	1349.5	6.1	9.3	25
26	2306.9	3144.1	24.8	32.0	2294.8	2421.7	11.1	23.0	2281.3	1733.4	7.2	16.1	2272.3	1341.4	6.1	9.3	26
27	2306.7	3131.4	24.7	32.0	2294.3	2394.1	11.1	23.0	2281.0	1719.4	7.2	15.7	2272.2	1337.3	6.1	9.0	27
28	2306.5	3118.6	24.7	31.0	2293.9	2372.1	11.1	23.0	2280.6	1701.0	7.0	15.7	2272.0	1329.2	6.1	8.7	28
29	2306.3	3105.9	23.5	30.0	2293.5	2350.2	10.5	24.0	2280.2	1682.5	7.0	15.7	2271.9	1325.2	6.0	8.7	29
30	2306.0	3086.8	20.4	30.0	2293.1	2328.5	10.5	24.0	2279.8	1664.2	7.0	15.7	2271.8	1321.2	6.0	8.4	30
31					2292.6	2301.4	10.5	24.0	2279.5	1650.6	7.0	15.7					31
TOTAL			930.8	3142.8			423.0	819.0			256.4	584.5			192.3	358.4	
Inf. Ac. Ft.			1846.2				839.0				508.6				381.4	612699	
Outf. Ac. Ft.				623.36				1624.5				1159.3			710.9	599514	
Maximum Mean Daily Inflow			45.7				20.5				9.6				6.9	14020	
Minimum Mean Daily Inflow			20.4				10.5				7.0				6.0	05	
Storage Change			-438.7.4				-785.4				-650.8				-329.4	+13185	

REMARKS: Outflows based on valve operation records and flows at Station F209R. — Yearly Totals

Max. W. S. Elev.	2375.9	feet on	5/2/41	Storage	9847.4	Acre Feet	
Min. W. S. Elev.	2194.±	feet on	various times	Storage	2.7	Acre Feet	
Max. Peak Inf.	1637.	C.F.S. from	7:00 p.m. on 2/20/41	to	8:00 p.m. on 2/20/41		
Max. Peak Outf.	1080. to 1160.	C.F.S. from	1:00 p.m. on 2/20/41	to	10:00 a.m. on 2/23/41		

RECORDS COLLECTED BY

Ben Harrison	Dam Tender
G. Brown	Hydrographer
E. Godfrey	Hydrographer

COMPUTATIONS

	Date
Gage Hts. copied	A.C.M.
Storage applied	A.C.M.
Inf. & Outf. computed	H.A.V.
Checked	G.H.M. 3/13/42

Gage Heights and Storages as of midnight on date shown.

(= Mean for period.
1 = Interpolated

SAN GABRIEL NO. 1

F. C. Dist. Form 68 Revised 600 8/39

Beginning January 1, 1941, Storages based on L.A.C.F.C.D. Survey of October, 1938; corrected November, 1940 (Table V). Through December, 1940, Storages based on L.A.C.F.C.D. Survey of October, 1938; corrected September, 1939 (Table IV).

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

In San Gabriel Canyon for the Year Ending September 30, 1941

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Continuous Water Stage Recorder Au

Drainage Area 202. Square Miles. Capacity of Reservoir 46,335. Ac. Ft. at Spillway Elev. 1453.0 Ft. Gage Heights Read Daily

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	Day
1	1275.10	*377	22.2	20.0	1276.50	*452	28.1	31.4	1275.30	*401	26.5	27.8	1316.05	3578	12.5.5	85.3	1
2	1275.30	382	22.7	20.0	1276.20	443	26.9	31.4	1275.20	396	25.5	27.6	1317.20	3709	11.6.6	50.2	2
3	1275.60	391	(23.1	20.0	1275.90	433	26.6	31.4	1274.95	392	26.0	27.8	1318.45	3855	11.0.0	36.1	3
4	1275.70	395	23.1	20.0	1275.90	430	28.5	29.6	1272.05	343	E 27.0	51.7	1318.70	3885	99.6	84.6	4
5	1275.80	400	23.0	20.0	1276.30	435	29.1	26.3	1272.05	336	E 28.0	31.3	1318.95	3914	99.4	84.6	5
6	1275.90	404	(23.0	20.0	1276.40	436	27.2	26.5	1272.15	342	29.3	26.2	1319.15	3938	97.0	84.6	6
7	1276.00	409	22.8	21.2	1275.50	435	26.2	26.5	1272.10	338	27.1	28.9	1319.30	3956	93.9	84.6	7
8	1276.00	411	22.4	23.8	1275.30	436	27.1	26.5	1272.05	333	27.7	30.1	1319.40	3968	91.0	84.6	8
9	1275.70	408	22.4	24.6	1276.25	434	25.7	26.5	1272.05	328	24.8	27.3	1319.40	3968	84.7	84.6	9
10	1275.45	404	23.0	23.6	1276.20	432	25.7	26.5	1272.05	324	27.6	29.6	1319.65	3998	100.3	85.2	10
11	1275.20	400	21.9	22.8	1276.15	430	25.7	26.5	1272.10	322	28.6	29.6	1319.75	4010	91.5	85.2	11
12	1275.05	393	19.6	22.6	1276.40	434	28.9	26.7	1272.25	320	30.4	31.4	1319.60	4016	88.7	85.2	12
13	1274.90	389	21.0	22.8	1276.25	433	26.7	26.9	1272.55	321	29.7	29.1	1319.60	4016	85.3	85.2	13
14	1274.80	386	21.5	22.8	1276.15	431	26.1	26.9	1273.15	326	30.4	27.6	1319.80	4016	85.5	85.2	14
15	1274.65	383	21.5	22.8	1276.10	429	26.1	26.9	1273.75	334	31.2	27.2	1319.70	4004	79.4	85.2	15
16	1274.40	376	(20.8	23.2	1276.00	427	26.1	26.9	1276.90	* 390	84.4	56.2	1319.60	3992	79.6	85.2	16
17	1274.45	375	20.8	21.8	1277.00	447	37.0	26.9	1287.45	1040	413.8	85.9	1319.40	3968	79.8	91.5	17
18	1274.65	373	(20.4	20.4	1278.40	493	72.2	49.0	1289.10	1155	123.7	65.5	1319.05	3926	75.4	97.4	18
19	1274.75	373	20.4	20.4	1277.20	473	39.1	48.9	1289.30	1169	91.1	83.9	1318.60	3896	76.6	91.2	19
20	1274.75	373	(20.3	20.4	1277.10	471	35.6	36.5	1289.00	1148	73.5	83.9	1318.55	3867	73.2	87.7	20
21	1274.65	376	22.1	20.4	1276.50	458	32.8	39.3	1288.50	1113	65.9	83.3	1318.50	3861	77.2	80.1	21
22	1275.00	379	22.1	20.4	1275.70	438	29.3	39.3	1287.65	1068	60.8	83.3	1318.65	3879	94.4	85.2	22
23	1275.05	382	22.1	20.4	1274.70	417	28.4	38.8	1294.45	1551	324.2	80.7	1318.50	3861	78.6	87.8	23
24	1275.15	385	22.2	20.4	1273.75	398	(30.0	38.8	1306.90	2693	658.0	82.3	1321.60	4236	291.5	102.1	24
25	1276.60	418	37.1	20.4	1274.00	392	30.0	33.3	1311.60	3203	339.1	81.7	1323.10	4425	203.1	107.7	25
26	1278.05	457	50.2	30.5	1274.75	399	30.0	27.8	1313.70	3443	201.6	80.2	1324.10	4553	171.8	107.0	26
27	1277.50	459	38.8	37.6	1275.15	403	30.0	27.6	1314.95	3590	155.1	80.7	1325.10	4632	174.5	109.0	27
28	1277.55	469	36.6	31.4	1275.35	404	29.9	27.6	1315.50	3656	143.0	109.5	1325.70	4761	154.2	114.1	28
29	1277.25	469	31.6	31.4	1275.40	404	28.0	27.6	1315.75	3686	174.7	159.5	1326.10	4813	143.6	117.0	29
30	1277.00	465	29.6	31.4	1275.40	*404	27.9	27.6	1315.60	3668	168.1	177.0	1326.20	4827	140.4	133.0	30
31	1276.80	*459	28.6	31.4					1315.35	3638	159.0	173.9	1326.10	4813	134.4	141.0	31
TOTAL			776.9	726.3			910.9	933.4			3655.6	2021.1			3498.3	2527.4	
Inf. Ac. Ft.			1541.0				1806.7				7251.2				6938.8	17537.7	
Outf. Ac. Ft.			1440.6 + (14.3)				1851.4 + (10.3)				4008.8 + (8.3)				5608.1 + (16.7)	12908.9+(49.6)	
Maximum Mean Daily Inflow			50.2				72.2				658.0				291.5	658.0	
Minimum Mean Daily Inflow			19.6				25.7				24.8				73.2	19.6	
Storage Change			+86				-55				+3234				**+1314	+4579**	

REMARKS: Outflows as indicated by valve operation records. Inflows computed from storage change corrected for evaporation. — ½ Year

Max. W. S. Elev.	1447.25	feet on	4/30/41	Storage	43,386.	Acre Feet	
Min. W. S. Elev.	1273.±	feet on	9/30/41	Storage	248.*	Acre Feet	
Max. Peak Inf.	5775.	C.F.S. from	2:30 p.m. on 2/20/41	to	3:00 p.m. on 2/20/41		
Max. Peak Outf.	6300.	C.F.S. from	1:33 p.m. on 3/3/41	to	1:48 p.m. on 3/3/41		

RECORDS COLLECTED BY

R. H. Harrison	Dam Tender
T. A. Cooper	Hydrographer
	Hydrographer

COMPUTATIONS

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

Gage Heights and Storages as of midnight on date shown.

(= Mean for period.
E = Estimated
() = Monthly total evaporation loss.
* = Reservoir Gage Heights above coffer dam; Storages include Storage below coffer dam.
** = Corrected for 139 acre-feet debris 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 No. 1

In San Gabriel Canyon for the Year Ending September 30, 1941

Drainage Area 202. Square Miles. Capacity of Reservoir 46,335. Ac. Ft. at Spillway Elev. 1453.0 Ft.

Continuous Water Stage Recorder: All

Gage Heights: Read Daily

Day	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	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	1325.95	4793	130.2	140.0	1375.30	15622	1604.1	530.2	1407.95	26329	996.5	450.0	1446.25	42888	797.8	1047.0	1
2	1325.70	4761	124.7	140.0	1383.50	18063	1708.2	475.0	1410.70	27363	973.0	450.0	1444.10	41829	841.7	1375.0	2
3	1325.35	4715	118.6	141.0	1390.00	20114	1594.0	562.5	1413.00	28246	933.5	487.0	1441.60	40622	882.1	1490.0	3
4	1325.00	4669	118.3	141.0	1396.45	22246	3784.9	2710.0	1417.10	29861	1199.2	385.0	1439.10	39437	767.0	1362.0	4
5	1324.55	4611	112.0	141.0	1397.70	22671	3351.4	3137.0	1424.35	32847	1608.4	101.0	1439.15	39461	763.9	750.0	5
6	1324.95	4663	167.3	141.0	1395.40	21891	2615.5	3008.0	1429.15	34916	1276.0	230.0	1439.30	39532	788.8	750.0	6
7	1324.60	4643	132.0	142.0	1387.75	19395	1891.3	3147.7	1432.15	36247	1147.9	475.0	1439.45	39603	790.6	750.0	7
8	1324.50	4605	123.0	142.0	1382.75	17838	1568.8	2352.3	1433.80	36991	919.5	542.0	1439.50	39626	778.1	762.0	8
9	1324.15	4559	119.1	142.0	1380.20	17065	1336.7	1745.0	1435.30	37675	945.7	600.0	1439.50	39626	772.5	770.0	9
10	1323.90	4527	116.0	131.8	1381.25	17382	1147.4	986.0	1436.15	38065	1047.3	849.0	1439.45	39603	764.4	770.0	10
11	1327.20	4960	342.4	124.1	1382.65	17807	1029.3	815.0	1437.35	38666	1396.2	1093.0	1439.35	39556	750.0	770.0	11
12	1329.65	5297	305.2	135.0	1385.95	18827	1409.2	895.0	1437.20	38550	1202.3	1260.0	1439.15	39461	725.4	770.0	12
13	1331.10	5505	235.4	130.0	1387.60	19411	2202.5	1908.0	1436.15	38065	1133.5	1377.0	1438.45	39133	713.3	875.0	13
14	1333.40	5851	294.9	120.5	1385.15	18578	2470.0	2820.0	1434.75	37423	1137.7	1460.0	1436.60	38273	694.0	1124.0	14
15	1338.50	6709	532.3	99.5	1382.45	17746	2021.2	2440.0	1434.80	37446	1169.7	1157.0	1435.85	37927	661.0	833.0	15
16	1343.70	7722	599.5	88.8	1380.20	17065	1622.7	1965.0	1439.45	39602	1129.5	40.0	1434.60	37446	650.4	890.0	16
17	1351.10	9352	1045.4	233.6	1381.75	17533	1429.7	1193.0	1442.65	41126	972.0	200.0	1433.70	36945	640.3	890.0	17
18	1355.00	10245	1245.7	785.1	1384.75	18454	1285.5	820.0	1443.60	41586	941.8	706.0	1433.00	36629	618.7	775.0	18
19	1352.60	9679	1304.3	1539.6	1388.85	19745	1202.5	550.0	1444.25	41903	922.7	760.0	1434.60	37355	576.4	205.0	19
20	1360.85	11690	3940.7	2926.8	1394.95	21740	1149.6	142.0	1444.65	42099	862.4	760.0	1436.25	38111	559.3	173.0	20
21	1357.75	10914	3898.7	4290.0	1395.70	21992	979.1	850.0	1444.90	42221	865.1	800.0	1437.85	38853	535.0	156.0	21
22	1351.10	9332	3244.4	4042.0	1396.40	22229	915.6	795.0	1444.95	42246	845.7	830.0	1439.45	39603	541.6	159.0	22
23	1353.50	9890	2088.4	1806.7	1397.10	22466	843.3	722.0	1444.95	42246	833.0	830.0	1441.00	40336	530.8	159.0	23
24	1360.60	11677	1501.8	600.0	1397.60	22637	807.6	720.0	1444.85	42197	808.3	830.0	1442.45	41030	514.0	159.0	24
25	1361.95	11971	1167.7	1019.0	1397.90	22739	782.7	730.0	1445.30	42418	822.5	710.0	1443.85	41707	504.5	160.0	25
26	1363.25	12308	981.5	811.0	1397.95	22756	739.6	730.0	1445.65	42591	798.5	710.0	1444.60	42074	529.1	339.0	26
27	1364.10	12531	819.0	705.8	1397.90	22739	649.2	657.0	1445.95	42739	786.2	710.0	1445.15	42344	494.0	354.0	27
28	1367.70	13492	1075.0	590.5	1399.35	23239	672.9	420.0	1446.25	42838	788.1	710.0	1445.30	42418	517.0	478.0	28
29					1402.50	24346	895.1	336.0	1446.55	43037	775.4	700.0	1445.30	42418	495.0	492.0	29
30					1403.25	24614	656.3	520.0	1447.25	43386	948.1	772.0	1445.20	42369	483.3	505.0	30
31					1405.00	25245	815.2	497.0					1445.10	42319	483.4	505.0	31
TOTAL			25883.5	21499.8			45201.3	39248.5			30185.7	20984.0			20163.4	20597.0	
Inf. Ac. Ft.			51339.3				89655.4				59872.4				39993.5	25839.3	
Outf. Ac. Ft.			42,644.2 +(15.7)				77,848.2 + (54.1)				41,621.1 + (110.3)				40,853.5 + (206.9)	21,875.9+(436.6	
Maximum			3940.7				3784.9				1608.4				882.1	3940.7	
Mean Daily Inflow																	
Minimum			112.0				649.2				775.4				483.3	19.6	
Mean Daily Inflow																	
Storage Change			+8679				+11753				+18141				-1067	+42085**	

REMARKS: Outflows as indicated by valve operation records. Inflows computed from storage change corrected for evaporation. ½ Year

Max. W. S. Elev.	1447.25	feet on	4/30/41	Storage	43,386.	Acre Feet		
Min. W. S. Elev.	1273.*	feet on	9/30/41	Storage	248.*	Acre Feet		
Max. Peak Inf.	5775.	C.F.S. from	2:30 p.m. on	2/20/41	to	3:00 p.m. on	2/20/41	
Max. Peak Outf.	6300.	C.F.S. from	1:33 p.m. on	3/3/41	to	1:48 p.m. on	3/3/41	

RECORDS COLLECTED BY

R. H. Harrison	Dam Tender	
T. A. Cooper	Hydrographer	
	Hydrographer	

COMPUTATIONS

	Date
Gage Hts. copied	A.C.M.
Storage applied	A.C.M.
Inf. & Outf. computed	HAV & WEC
Checked	W.E.C. & H.A.V.

Gage Heights and Storages as of midnight on date shown.

(= Mean for period.
() = Monthly total evaporation loss.
** = Corrected for 139. acre-feet debris loss.
* = Reservoir Gage Heights above coffer dam; Storages include Storage below coffer dam.

F. C. Dist. Form 68 Revised 600 5/39

Beginning September 1, 1941, Storages based on L.A.C.F.C.D. Survey of September, 1941 (Table VIa).

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In San Gabriel Canyon for the Year Ending September 30, 1941

Drainage Area 202. Square Miles. Capacity of Reservoir 46,335. Ac. Ft. at Spillway Elev. 1453.0 Ft.

Continuous Water Stage Recorder: All

Gage Heights: Read Daily

Day	JUNE Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JULY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	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	1444.90	42221	458.6	505.0	1431.45	35933	248.8	1181.0	1387.25	19236	152.6	166.0	1311.80	**2849	107.9	376.0	1
2	1444.65	42099	446.5	505.0	1428.70	34719	261.7	869.0	1387.15	19205	154.3	167.0	1306.70	2313	105.4	375.0	2
3	1444.40	41976	443.7	503.0	1427.50	34197	243.1	501.0	1387.05	19173	152.9	166.0	1301.20	1787	109.4	374.0	3
4	1444.15	41854	443.8	503.0	1426.30	33679	242.6	499.0	1384.90	18500	150.2	487.0	1295.20	1284	106.1	359.0	4
5	1444.05	41805	480.3	503.0	1425.10	33166	243.6	498.0	1379.85	16960	142.3	917.0	1291.20	993	109.8	256.0	5
6	1443.90	41732	467.8	503.0	1423.90	32657	233.6	487.0	1377.30	16204	129.1	508.0	1287.80	780	98.2	205.0	6
7	1443.75	41658	468.3	503.0	1422.70	32154	220.6	470.0	1374.75	15463	134.4	506.0	1284.80	618	103.6	185.0	7
8	1443.55	41562	457.0	503.0	1421.55	31675	231.2	470.0	1372.45	14807	145.5	474.0	1284.70	613	93.9	96.0	8
9	1443.25	41416	432.9	503.0	1420.40	31200	231.7	468.0	1372.45	14807	142.5	140.0	1284.40	598	88.8	96.0	9
10	1443.05	41319	457.9	503.0	1419.20	30710	221.9	466.0	1370.45	14247	120.9	402.0	1284.30	594	87.5	89.0	10
11	1442.80	41199	446.7	503.0	1418.00	30223	224.7	466.0	1365.30	12849	135.6	838.0	1284.10	584	83.3	88.0	11
12	1442.50	41054	433.4	503.0	1416.75	29722	217.0	465.0	1365.25	12835	141.0	145.0	1283.90	574	83.4	88.0	12
13	1442.15	40885	433.5	516.0	1415.45	29205	208.1	464.0	1365.15	12809	135.1	145.0	1283.80	570	85.3	87.0	13
14	1442.20	40909	539.2	525.0	1414.05	28655	197.0	469.0	1365.00	12769	128.1	145.0	1283.70	565	84.8	87.0	14
15	1442.25	40933	540.9	525.0	1412.60	28092	190.5	470.0	1364.85	12729	126.0	145.0	1282.00	* 499	82.1	115.0	15
16	1442.35	40982	513.5	484.0	1411.20	27544	198.3	470.0	1364.70	12690	128.1	145.0	1277.0	387	78.3	134.6	16
17	1442.35	40982	487.7	483.0	1409.70	26934	201.3	480.0	1363.05	12256	107.9	324.0	1276.0	346	78.3	98.8	17
18	1442.05	40837	435.5	505.0	1409.65	26966	194.3	198.0	1358.40	11075	104.7	697.0	1272.4	295	77.3	102.9	18
19	1441.25	40455	315.7	505.0	1409.60	26947	187.4	192.0	1356.40	10883	106.8	352.0	1272.4	279	76.2	84.1	19
20	1440.40	40052	303.5	503.0	1408.10	26364	178.7	458.0	1354.45	10114	116.5	350.0	1272.4	268	77.3	82.8	20
21	1439.50	39626	290.7	501.0	1403.70	24775	179.9	987.0	1352.35	9621	110.9	357.0	1274.1	265	76.2	77.5	21
22	1438.55	39179	279.3	500.0	1402.10	24204	195.2	480.0	1349.70	9015	101.3	405.0	1274.3	262	75.2	76.5	22
23	1437.60	38736	281.0	500.0	1400.45	23622	186.7	477.0	1347.00	8416	98.9	399.0	1275.2	265	74.2	72.5	23
24	1436.65	38296	282.0	500.0	1398.80	23048	187.1	474.0	1344.25	7835	104.2	396.0	1275.7	266	71.0	70.3	24
25	1435.70	37858	281.0	499.0	1397.95	22756	130.4	326.0	1341.45	7270	110.4	394.0	1275.6	265	70.0	70.4	25
26	1434.70	37400	271.5	498.0	1397.90	22739	174.2	180.0	1338.45	6699	102.6	389.0	1274.7	260	70.0	72.4	26
27	1435.05	37560	252.1	1670	1396.45	22246	174.9	420.0	1335.20	6137	103.8	386.0	1273.7	253	70.0	73.4	27
28	1436.05	38019	236.0	10	1392.05	20730	172.5	909.0	1331.80	5608	116.6	382.0	1273.4	251	70.0	71.0	28
29	1437.00	38457	224.4	10	1390.30	20211	176.5	460.0	1325.20	4695	124.1	583.0	1273.3	* 249	70.0	70.9	29
30	1435.55	37789	246.9	581.0	1388.55	19649	178.7	459.0	1321.10	4174	124.0	385.0	1273.6	* 248	67.9	68.1	30
31					1387.35	19268	170.8	360.0	1316.50	3629	115.5	389.0					31
TOTAL			11651.3	13834.0			6353.4	15573.0			3866.8	11684.0			2531.4	4102.2	
Inf. Ac. Ft.			23110.0				12601.8				7669.7				5021.0	3068008	
Outf. Ac. Ft.			27,439.3 + (200.7)				30,888.6 + (234.2)				23,174.9 + (133.9)				8136.6 + (19.4)	305515.3+(1024.8)	
Maximum			540.9				261.7				154.3				109.8	3940.7	
Mean Daily Inflow																	
Minimum			224.4				170.8				98.9				67.9	19.6	
Mean Daily Inflow																	
Storage Change			-4530.				-18521.				-15639.				- 3381	+260***	

REMARKS: Outflows as indicated by valve operation records. Inflows computed from storage change corrected for evaporation. Yearly Totals

Max. W. S. Elev.	1447.25	feet on	4/30/41	Storage	43,386.	Acre Feet		
Min. W. S. Elev.	1273.*	feet on	9/30/41	Storage	248.*	Acre Feet		
Max. Peak Inf.	5775.	C.F.S. from	2:30 p.m. on	2/20/41	to	3:00 p.m. on	2/20/41	
Max. Peak Outf.	6300.	C.F.S. from	1:33 p.m. on	3/3/41	to	1:48 p.m. on	3/3/41	

RECORDS COLLECTED BY

R. H. Harrison	Dam Tender	
T. A. Cooper	Hydrographer	
	Hydrographer	

COMPUTATIONS

	Date
Gage Hts. copied	A.C.M.
Storage applied	A.C.M.
Inf. & Outf. computed	HAV & WEC
Checked	W.E.C. & H.A.V.

Gage Heights and Storages as of midnight on date shown.

(= Mean for period.
() = Monthly total evaporation loss.
* = Reservoir Gage Heights above coffer dam; Storages include Storage below coffer dam.
** = Corrected for 246 acre-feet debris loss.
*** = Corrected for 385 acre-feet debris loss.

BIG DALTON

F. C. Dist. Form 68 Revised 600 5/39

Storages based on U.S.F.S. Survey of September 1934 corrected for debris following 3/2/38 (Table IV).

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

In Big Dalton Canyon for the Year Ending September 30, 1941

Drainage Area 4.5 Square Miles. Capacity of Reservoir 968.7 Ac. Ft. at Spillway Elev. 1706.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	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	1612.4	4.5	0.03	0.03	1613.5	5.9	(0.03	0	1614.6	7.4	0.02	0	1627.5	34.8	1.2	0	1
2	1612.4	4.5	0.03	0.03	1613.5	5.9	0.03	0	1614.6	7.4	0.02	0	1628.2	36.9	1.0	0	2
3	1612.4	4.5	0.03	0.03	1613.6	6.0	0.03	0	1614.6	7.4	0.02	0	1628.6	38.2	0.7	0	3
4	1612.4	4.5	0.03	0.03	1613.6	6.0	0.03	0	1614.6	7.4	0.02	0	1629.0	39.4	0.6	0	4
5	1612.4	4.5	0.03	0.03	1613.6	6.0	0.03	0	1614.7	7.5	0.02	0	1629.4	40.7	0.6	0	5
6	1612.4	4.5	0.03	0.03	1613.7	6.1	0.03	0	1614.7	7.5	0.02	0	1629.7	41.7	0.5	0	6
7	1612.4	4.5	0.03	0.03	1613.7	6.1	0.03	0	1614.7	7.5	0.02	0	1630.0	42.7	0.5	0	7
8	1612.4	4.5	0.03	0.03	1613.7	6.1	0.03	0	1614.7	7.5	0.02	0	1630.3	43.7	0.5	0	8
9	1612.4	4.5	0.03	0.03	1613.8	6.3	0.03	0	1614.8	7.6	0.02	0	1630.6	44.7	0.6	0	9
10	1612.4	4.5	0.03	0.03	1613.8	6.3	0.03	0	1614.8	7.6	0.02	0	1631.0	46.1	0.7	0	10
11	1612.4	4.5	0.03	0.03	1613.8	6.3	0.03	0	1614.8	7.6	0.03	0	1631.3	47.2	0.5	0	11
12	1612.4	4.5	0.03	0.03	1613.9	6.4	0.03	0	1614.9	7.8	0.03	0	1631.5	47.9	0.4	0	12
13	1612.4	4.5	0.03	0.03	1613.9	6.4	0.03	0	1614.9	7.8	0.03	0	1631.8	49.0	0.5	0	13
14	1612.4	4.5	0.03	0.03	1614.0	6.5	0.03	0	1615.0	7.9	0.03	0	1632.1	50.1	(0.5	0	14
15	1612.4	4.5	0.03	0.03	1614.0	6.5	(0.02	0	1615.0	7.9	0.03	0	1632.3	50.8	0.4	0	15
16	1612.4	4.5	0.03	0.03	1614.1	6.7	0.05	0	1615.1	8.1	(0.15	0	1632.5	51.6	0.4	0	16
17	1612.4	4.5	0.03	0.02	1614.2	6.8	0.05	0	1616.4	10.0	0.85	0	1632.7	52.3	0.4	0	17
18	1612.4	4.5	(0.03	0	1614.3	6.9	0.02	0	1616.4	10.0	0.03	0	1632.8	52.7	(0.3	0	18
19	1612.5	4.6	0.03	0	1614.3	6.9	0.02	0	1616.4	10.0	0.03	0	1833.0	53.4	0.3	0	19
20	1612.6	4.7	0.03	0	1614.3	6.9	0.02	0	1616.4	10.0	0.03	0	1633.2	54.2	0.3	0	20
21	1612.6	4.7	(0.03	0	1614.3	6.9	0.02	0	1616.5	10.1	0.03	0	1633.5	55.4	0.6	0	21
22	1612.7	4.8	0.03	0	1614.3	6.9	0.02	0	1616.5	10.1	0.03	0	1633.8	56.5	0.6	0	22
23	1612.7	4.8	0.04	0	1614.3	6.9	(0.02	0	1618.1	12.8	1.3	0	1834.0	57.3	0.4	0	23
24	1612.8	5.0	(0.04	0	1614.3	6.9	0.02	0	1621.5	19.5	3.4	0	1835.2	62.1	2.4	0	24
25	1613.1	5.3	(0.1	0	1614.4	7.1	0.02	0	1621.9	20.3	0.4	0	1635.7	64.2	1.1	0	25
26	1613.3	5.6	0.1	0	1614.4	7.1	0.02	0	1622.1	20.7	0.2	0	1636.3	66.8	1.3	0	26
27	1613.3	5.6	0.04	0	1614.4	7.1	0.02	0	1622.3	21.2	(0.2	0	1636.7	68.6	0.9	0	27
28	1613.3	5.6	(0.03	0	1614.5	7.2	0.02	0	1622.4	21.4	0.2	0	1637.1	70.4	0.9	0	28
29	1613.4	5.7	0.03	0	1614.5	7.2	0.02	0	1623.0	22.8	0.7	0	1637.4	71.7	0.7	0	29
30	1613.4	5.7	0.03	0	1614.5	7.2	0.02	0	1625.3	28.6	2.9	0	1637.7	73.1	0.7	0	30
31	1613.4	5.7	(0.03	0					1626.7	32.5	2.0	0	1638.0	74.4	0.6	0	31
TOTAL			1.1	0.5			0.8	0			12.8	0			21.1	0	
Inf. Ac. Ft.			2.2				1.6				25.4				41.9	7.1.1	
Outf. Ac. Ft.				1.0				0				0			0	1.0	
Maximum Mean Daily Inflow			0.1				0.05				3.4				2.4	3.4	
Minimum Mean Daily Inflow			0.02				0.02				0.02				0.3	0.02	
Storage Change			+1.2				+1.5				+25.3				+4.19	+6.99	

REMARKS ½ Year

Max. W. S. Elev.	1706.1	feet	on various times	Storage	971.0	Acre Feet	
Min. W. S. Elev.	1612.4	feet	on various times	Storage	4.5	Acre Feet	
Max. Peak Inf.	87.5	C.F.S.	at various times			on	3/4/41
Max. Peak Outf.	65.0	C.F.S. from	9:00 a.m. on 3/5/41	to	8:00a.m.	on	3/8/41

Gage Heights and Storage as of midnight on date shown.

RECORDS COLLECTED BY

H. Paul Kaiser — Dam Tender
C. L. Brewster — Hydrographer
— Hydrographer

COMPUTATIONS Date

Gage Hts. copied H.A.V.
Storage applied H.A.V.
Inf. & Outf. computed H.A.V.
Checked G.H.M. 1/12/42

(= mean for period

F. C. Dist. Form 68 Revised 600 5/39

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

In Big Dalton Canyon for the Year Ending September 30, 1941

Drainage Area 4.5 Square Miles. Capacity of Reservoir 968.7 Ac. Ft. at Spillway Elev. 1706.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	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	1638.4	76.3	(0.7	0	1666.8	310.9	27.2	E* 0.2	1671.0	360.4	11.8	E* 0.3	1699.8	832.8	6.8	E* 0.5	1
2	1638.7	77.7	0.6	0	1671.1	361.6	25.8	E* 0.3	1672.8	382.9	11.6	0.3	1700.3	843.2	5.7	0.5	2
3	1638.9	78.6	(0.6	0	1674.0	398.2	20.9	2.4	1674.4	403.5	10.7	0.3	1700.8	853.8	5.9	0.5	3
4	1639.1	79.6	0.6	0	1680.0	481.3	53.6	11.7	1676.8	435.7	16.6	0.3	1701.3	864.4	5.8	0.5	4
5	1639.3	80.6	0.6	0	1681.3	500.8	56.0	46.2	1679.8	478.4	21.8	0.3	1701.7	873.0	4.9	0.5	5
6	1639.7	82.5	1.0	0	1677.8	449.6	39.2	65.0	1682.1	513.1	17.9	0.4	1702.1	881.6	4.8	0.5	6
7	1640.0	84.0	0.7	0	1672.9	384.1	32.0	65.0	1684.1	544.5	16.2	0.4	1702.5	890.3	4.9	0.5	7
8	1640.3	85.6	(0.7	0	1671.1	361.6	21.6	33.0	1685.8	572.3	14.4	0.4	1702.8	896.8	3.6	0.5	8
9	1640.5	86.6	(0.6	0	1671.1	361.6	16.0	16.0	1687.4	599.2	14.0	0.4	1703.1	903.4	3.8	0.5	9
10	1640.7	87.6	0.6	0	1670.7	356.8	13.6	16.0	1689.0	626.8	14.3	E* 0.4	1703.4	910.1	3.9	0.5	10
11	1641.5	91.9	2.1	0	1670.1	349.5	12.3	16.0	1690.7	656.9	19.1	3.9	1703.7	916.7	(3.5	0.5	11
12	1641.9	94.0	1.4	0	1670.1	349.5	16.0	16.0	1691.5	671.4	16.3	9.0	1703.9	921.2	3.4	0.5	12
13	1642.3	96.2	1.1	0	1672.1	374.1	29.4	17.0	1692.2	684.1	15.4	9.0	1704.2	927.9	(3.4	0.5	13
14	1642.9	99.6	1.7	0	1671.7	369.1	27.5	30.0	1692.8	695.2	14.6	9.0	1704.5	934.7	3.4	0.5	14
15	1644.0	106.1	3.3	0	1671.6	367.8	24.4	25.0	1693.3	704.5	13.7	9.0	1704.7	939.2	3.4	0.5	15
16	1645.2	113.7	3.8	0	1672.0	372.8	21.0	18.5	1693.7	712.1	12.8	9.0	1704.9	943.7	3.1	0.5	16
17	1646.9	125.3	5.9	0	1670.5	354.4	19.7	29.0	1694.0	717.7	11.8	9.0	1705.2	950.5	3.0	0.5	17
18	1648.0	133.3	4.0	0	1669.1	337.6	19.5	28.0	1694.2	721.5	11.0	9.0	1705.4	955.0	3.0	0.5	18
19	1649.8	147.2	7.0	0	1668.2	327.0	14.2	19.5	1694.3	723.4	9.9	9.0	1705.6	959.6	3.0	0.5	19
20	1655.3	221.6	37.5	0	1668.2	327.0	13.0	13.0	1694.4	725.3	(9.1	9.0	1705.8	964.1	3.0	0.5	20
21	1663.9	278.6	28.8	0	1667.9	323.6	11.3	13.0	1694.3	723.4	9.0	9.0	1706.0	968.7	2.5	E* 0.5	21
22	1666.8	310.9	22.2	6.0	1667.5	319.0	10.7	13.0	1694.2	721.5	8.5	9.5	1706.1	971.0	2.5	S 0.7	22
23	1666.4	306.4	18.3	20.5	1666.9	312.1	9.5	13.0	1694.7	731.0	7.8	3.1	1706.1	971.0	(2.4	S 2.2	23
24	1665.7	298.5	16.5	20.5	1666.4	306.4	(8.3	13.0	1695.4	744.5	7.3	E* 0.5	1706.1	971.0	2.4	S 2.5	24
25	1664.6	286.3	13.3	19.5	1665.6	297.4	8.1	12.0	1696.1	758.1	7.4	0.5	1706.1	971.0	2.4	S 2.8	25
26	1663.3	272.1	11.4	18.5	1664.7	287.4	8.1	12.0	1696.7	769.9	6.5	0.5	1706.1	971.0	2.2	S 2.2	26
27	1660.2	240.1	11.8	28.0	1663.8	277.5	7.0	12.0	1697.3	781.8	6.5	0.5	1706.1	971.0	2.2	S 2.2	27
28	1661.9	257.4	18.8	10.0	1664.1	280.8	8.2	6.5	1697.9	793.9	6.6	0.5	1706.1	971.0	2.2	S 2.2	28
29					1666.2	304.1	11.9	E* 0.2	1698.5	806.1	6.6	0.5	1706.1	971.0	2.2	S 2.2	29
30					1667.4	317.8	7.2	E* 0.2	1699.2	820.3	7.7	0.5	1706.1	971.0	2.1	S 2.1	30
31					1669.1	337.6	10.1	E* 0.2					1706.1	971.0	2.1	S 2.1	31
TOTAL			215.3	123.0			603.3	562.9			356.9	113.5			107.7	31.7	
Inf. Ac. Ft.			427.0				1196.6				707.9				213.6	261.62	
Outf. Ac. Ft.				244.0				1116.5				225.1			62.9	164.95	
Maximum Mean Daily Inflow			37.5				56.0				21.8				6.8	56.0	
Minimum Mean Daily Inflow			0.6				7.0				6.5				2.1	0.02	
Storage Change			+183.0				+80.2				+48.2.7				+150.7	+96.65	

REMARKS Outflows from station F120B-R with allowance for side canyon flow. ½ Year

Max. W. S. Elev.	1706.1	feet	on various times	Storage	971.0	Acre Feet	
Min. W. S. Elev.	1612.4	feet	on various times	Storage	4.5	Acre Feet	
Max. Peak Inf.	87.5	C.F.S.	at various times			on	3/4/41
Max. Peak Outf.	65.0	C.F.S. from	9:00 a.m. on 3/5/41	to	8:00 a.m.	on	3/8/41

Gage Heights and Storage as of midnight on date shown.

RECORDS COLLECTED BY

H. Paul Kaiser — Dam Tender
C. L. Brewster — Hydrographer
— Hydrographer

COMPUTATIONS Date

Gage Hts. copied H.A.V.
Storage applied H.A.V.
Inf. & Outf. computed H.A.V.
Checked G.H.M. 1/12/42

(= mean for period
E = Estimated
• = leakage only, no valve release
S = Spillway Discharge

F. C. Dist. Form 86 Revised 800 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, 1941

Drainage Area 4.5 Square Miles. Capacity of Reservoir 968.7 Ac. Ft. at Spillway Elev. 1706.0 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	1706.0	968.7	1.8	S 2.0	1700.3	843.2	0.8	5.9	1683.2	530.3	0.4	6.0	1657.6	214.9	0.3	4.9	1
2	1706.0	968.7	1.8	S 2.0	1699.9	834.8	0.8	5.9	1682.4	517.7	0.4	6.0	1656.6	205.5	0.3	4.8	2
3	1706.0	968.7	1.7	S 1.9	1699.5	826.6	0.8	4.5	1681.7	506.9	0.4	6.0	1655.7	197.3	0.3	4.6	3
4	1706.0	968.7	1.7	S 2.0	1699.4	824.5	0.8	1.8	1681.1	497.7	0.4	6.0	1654.7	188.4	0.3	4.5	4
5	1706.0	968.7	1.7	S 2.0	1699.1	818.3	0.8	4.9	1680.3	485.8	0.4	6.0	1653.7	179.6	0.3	4.5	5
6	1706.0	968.7	1.8	S 2.1	1698.6	808.1	0.8	6.0	1679.6	475.5	0.4	6.0	1652.8	171.9	0.3	4.4	6
7	1706.0	968.7	1.8	S 2.1	1698.1	797.9	0.8	5.5	1678.8	463.8	0.4	6.0	1651.8	163.5	0.3	4.4	7
8	1706.0	968.7	1.7	S 2.0	1697.6	787.9	0.7	5.5	1678.1	453.8	0.4	6.0	1650.8	155.3	0.3	4.4	8
9	1706.0	968.7	1.7	S 1.8	1697.1	777.8	0.7	5.5	1677.3	442.6	0.4	6.0	1649.8	147.2	0.3	4.3	9
10	1706.0	968.7	1.7	S 1.5	1696.6	767.9	0.7	5.5	1676.5	431.6	0.4	6.0	1648.8	139.4	0.3	4.3	10
11	1706.0	968.7	1.4	S 1.7	1696.1	758.1	0.6	5.5	1675.8	422.1	0.4	6.0	1647.7	131.1	0.3	4.0	11
12	1706.0	968.7	1.4	S 1.6	1695.6	748.3	0.6	5.5	1675.1	412.7	0.4	6.0	1646.4	121.8	0.3	4.7	12
13	1706.0	968.7	1.4	2.4	1695.1	738.6	0.6	5.5	1674.2	400.8	0.4	5.5	1644.9	111.8	0.3	5.0	13
14	1705.8	964.1	1.4	2.7	1694.6	729.1	0.6	5.5	1673.4	390.5	0.4	5.5	1643.4	102.6	0.3	4.9	14
15	1705.7	961.9	1.4	2.7	1694.0	717.7	0.5	5.5	1672.6	380.4	0.3	5.5	1641.8	93.4	0.3	4.8	15
16	1705.6	959.6	1.4	2.7	1693.5	708.3	0.5	5.5	1671.8	370.3	0.3	5.5	1640.2	85.0	0.3	4.7	16
17	1705.5	957.3	1.4	2.7	1693.0	698.9	0.5	5.5	1671.0	360.4	0.3	5.5	1638.5	76.8	0.3	4.5	17
18	1705.3	952.7	1.4	2.7	1692.5	689.7	0.5	5.5	1670.1	349.5	0.3	5.5	1636.8	69.0	0.3	4.4	18
19	1705.0	945.9	1.4	3.6	1691.9	678.6	0.5	5.5	1669.3	340.0	0.3	5.5	1635.0	61.3	0.3	4.2	19
20	1704.8	941.4	1.4	4.1	1691.4	669.5	0.5	5.5	1668.4	329.4	0.3	5.5	1633.0	53.4	0.3	4.2	20
21	1704.5	934.7	0.9	4.1	1690.9	660.5	0.4	5.5	1667.6	320.1	0.3	5.0	1630.8	45.4	0.3	4.5	21
22	1704.2	927.9	0.9	4.1	1690.1	646.2	0.4	6.0	1666.7	309.8	0.3	5.0	1628.4	37.5	0.2	4.4	22
23	1703.9	921.2	0.9	4.1	1689.4	633.8	0.4	6.5	1665.8	299.6	0.3	5.0	1626.0	30.5	0.2	4.0	23
24	1703.5	912.3	0.9	5.4	1688.7	621.6	0.4	6.5	1664.9	289.6	0.3	5.0	1623.6	24.2	0.2	3.4	24
25	1703.1	903.4	0.8	5.9	1688.0	609.4	0.4	6.5	1664.0	279.7	0.3	5.0	1622.3	21.2	0.2	2.0	25
26	1702.6	892.5	0.9	5.9	1687.3	597.5	0.3	6.5	1663.1	270.0	0.3	5.0	1622.6	21.9	0.2	0	26
27	1702.1	881.6	0.9	5.9	1686.7	587.4	0.3	6.5	1662.2	260.5	0.3	5.0	1622.9	22.6	0.2	0	27
28	1701.7	873.0	0.9	5.9	1686.0	575.6	0.3	6.5	1661.3	251.3	0.3	5.0	1623.1	23.0	0.2	0	28
29	1701.3	864.4	0.9	5.9	1685.3	564.1	0.3	6.0	1660.3	241.1	0.3	5.0	1623.3	23.5	0.2	0	29
30	1700.8	853.8	0.9	5.9	1684.6	552.6	0.3	6.0	1659.4	232.2	0.3	5.0	1623.4	23.8	0.2	0	30
31					1683.9	541.3	0.3	6.0	1658.5	223.5	0.3	4.9					31
TOTAL			40.3	99.4			16.9	174.5			10.7	170.9			8.1	108.8	
Inf. Ac. Ft.			79.9				33.5				21.2				16.1	276.9	
Outf. Ac. Ft.				197.2				34.1				33.9			21.8	274.6	
Maximum Mean Daily Inflow			1.8				0.8				0.4				0.3	5.0	
Minimum Mean Daily Inflow			0.9				0.3				0.3				0.2	0.02	
Storage Change			-117.2				-31.2.5				-31.7.8				-19.9.7	+19.3	

REMARKS: Outflows from station F12C8-R with allowance for side canyon flow — Yearly Totals

Max. W. S. Elev.	1706.1	feet on various times	Storage 971.0	Acre Feet		
Min. W. S. Elev.	1612.4	feet on various times	Storage 4.5	Acre Feet		
Max. Peak Inf.	87.5	C.F.S. ~~from~~ at various ~~to~~ times		on 3/4/41		
Max. Peak Outf.	65.0	C.F.S. from 9:00 a.m. on 3/5/41	to 8:00 a.m.	on 3/8/41		

Gage Heights and Storage as of midnight on date shown.

RECORDS COLLECTED BY

H. Paul Keiser	Dam Tender	
C. L. Brewster	Hydrographer	
	Hydrographer	

COMPUTATIONS — Date

Gage Hts. copied	H.A.V.
Storage applied	H.A.V.
Inf. & Outf. computed	H.A.V.
Checked	G.H.M. 1/12/42

{ = mean for period
S = Spillway Discharge

SAN DIMAS

F. C. Dist. Form 86 Revised 800 5/39

Storages based on U.S.F.S. Survey of November, 1939 (Table IV).

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

In San Dimas Canyon for the Year Ending September 30, 1941

Drainage Area 16.2 Square Miles. Capacity of Reservoir 1189.3 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	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	1404.4	65.1	0.3	1.7	1393.3	15.4	0.6	* 0.1	1404.6	66.4	1.0	* 0.1	1429.3	329.8	4.7	* 0.1	1
2	1403.9	62.1	0.2	1.7	1393.6	16.2	0.5	0.1	1404.9	68.2	0.9	0.1	1429.5	332.8	3.4	1.9	2
3	1403.4	59.2	0.2	1.7	1393.9	17.0	0.5	0.1	1405.1	69.4	0.9	0.1	1429.5	332.8	3.4	3.4	3
4	1402.9	56.4	0.2	1.7	1394.2	17.9	0.5	0.1	1405.4	71.3	0.9	0.1	1429.5	332.8	3.4	3.4	4
5	1402.4	53.6	0.2	1.7	1394.5	18.8	0.6	0.1	1405.6	72.6	0.9	0.1	1429.4	331.3	2.6	3.4	5
6	1401.6	50.2	0.2	1.7	1394.8	19.7	0.7	0.1	1405.9	74.5	0.9	0.1	1429.3	329.8	2.7	3.4	6
7	1401.3	47.5	0.2	1.7	1395.2	21.0	0.7	0.1	1406.1	75.8	0.9	0.1	1429.1	326.7	2.2	3.4	7
8	1400.8	44.9	0.2	1.7	1395.5	22.0	0.7	0.1	1406.3	77.1	0.8	* 0.1	1429.0	325.2	2.1	3.4	8
9	1400.2	41.8	0.2	1.7	1395.9	23.3	0.7	0.1	1406.3	77.1	0.6	0.6	1428.8	322.2	2.1	3.4	9
10	1399.6	38.8	0.2	1.6	1396.3	24.8	0.7	0.1	1406.2	76.5	0.6	1.0	1429.0	325.2	4.9	3.4	10
11	1399.1	36.4	0.3	1.6	1396.7	26.2	0.7	0.1	1406.1	75.8	0.7	1.0	1428.9	323.7	2.6	3.4	11
12	1398.5	33.6	0.2	1.6	1397.0	27.3	0.7	0.1	1406.1	75.8	1.0	1.0	1428.8	322.2	2.7	3.4	12
13	1397.9	31.0	0.2	1.6	1397.3	28.5	0.7	0.1	1406.1	75.8	0.8	1.0	1428.7	320.7	2.6	3.4	13
14	1397.3	28.5	0.2	1.6	1397.6	29.8	0.7	0.1	1406.0	75.1	0.8	1.0	1428.6	319.2	2.6	3.4	14
15	1396.6	25.9	0.2	1.6	1397.6	30.6	0.6	0.1	1406.0	75.1	1.0	1.0	1428.4	316.2	2.3	3.4	15
16	1395.9	23.3	0.2	1.6	1398.1	31.8	0.7	0.1	1407.5	85.3	5.6	0.4	1428.3	314.7	2.3	3.4	16
17	1395.3	21.3	0.2	1.3	1398.6	35.0	1.7	0.1	1410.0	104.2	9.6	* 0.1	1428.1	311.7	2.3	3.4	17
18	1394.9	20.0	0.2	0.6	1400.2	41.8	3.6	0.1	1411.3	115.3	5.7	0.1	1428.0	310.2	2.3	3.4	18
19	1394.5	18.8	0.2	0.6	1400.7	44.4	1.3	0.1	1411.5	120.6	2.8	0.1	1427.8	307.3	2.3	3.4	19
20	1394.2	17.9	0.2	0.6	1401.1	46.5	1.3	0.1	1412.4	125.2	2.4	0.1	1427.7	305.8	2.2	3.4	20
21	1393.9	17.0	0.2	0.6	1401.5	48.6	1.2	0.1	1412.6	128.9	2.0	0.1	1427.6	304.4	2.7	3.4	21
22	1393.6	16.2	0.2	0.6	1401.9	50.6	1.2	0.1	1413.1	131.7	1.5	0.1	1427.7	305.8	4.1	3.4	22
23	1393.4	15.6	0.1	0.6	1402.3	52.4	1.1	0.1	1416.2	162.6	15.7	0.1	1427.7	305.8	3.4	3.4	23
24	1392.9	14.3	0.1	0.6	1402.6	54.7	1.0	0.1	1422.0	228.3	33.2	0.1	1428.6	319.2	12.7	6.0	24
25	1392.9	14.3	0.6	0.6	1402.9	56.4	1.0	0.1	1423.4	246.0	9.0	0.1	1429.5	317.7	7.3	8.0	25
26	1392.7	13.7	i 0.5	0.8	1403.2	58.1	1.0	0.1	1424.1	255.2	4.7	0.1	1428.2	313.2	6.2	8.5	26
27	1392.5	13.2	0.4	0.6	1403.5	59.8	0.9	0.1	1424.6	262.0	3.6	0.1	1427.9	308.7	5.3	7.5	27
28	1392.3	12.7	0.4	0.6	1403.8	61.6	0.9	0.1	1425.1	268.8	3.5	0.1	1427.5	302.9	4.5	7.5	28
29	1392.4	13.0	0.4	0.3	1404.1	63.3	0.9	0.1	1425.7	277.1	4.3	0.1	1427.1	297.0	4.2	7.5	29
30	1392.7	13.7	0.4	* 0.1	1404.3	64.5	0.9	* 0.1	1427.4	301.4	12.3	* 0.1	1426.6	289.8	4.2	7.5	30
31	1393.0	14.5	0.5	* 0.1					1428.7	320.7	9.9	* 0.1	1426.2	284.1	3.6	6.5	31
TOTAL			8.0	35.1			28.2	3.0			138.5	9.3			113.9	132.4	
Inf. Ac. Ft.			15.9				56.0				274.7				226.0	572.6	
Outf. Ac. Ft.				69.6				6.0				18.4			262.6	356.6	
Maximum Mean Daily Inflow			0.6				3.6				33.2				12.7	33.2	
Minimum Mean Daily Inflow			0.1				0.5				0.6				2.1	0.1	
Storage Change			-53.7				+50.0				+256.2				-36.6	+215.9	

REMARKS: Outflows as indicated by valve operation records and measurements. — ½ Year

Max. W. S. Elev.	1461.5	feet on 5/15/41	Storage 1171.4	Acre Feet		
Min. W. S. Elev.	1392.3	feet on 10/28/40	Storage 12.7	Acre Feet		
Max. Peak Inf.	235.	C.F.S. from 6:30 p.m. on 3/4/41	to 7:00 p.m.	on 3/4/41		
Max. Peak Outf.	145.±	C.F.S. ~~from~~ various times	to	on		

Gage Heights and Storages as of midnight on date shown.

RECORDS COLLECTED BY

Geo. W. Rodgers	Dam Tender	
C. O. Green	Hydrographer	
C. L. Brewster	Hydrographer	

COMPUTATIONS — Date

Gage Hts. copied	A.C.M.
Storage applied	A.C.M.
Inf. & Outf. computed	H.A.V.
Checked	G.H.M. 3/10/42

{ = Mean for period.
i = Interpolated
* = Gate leakage, etc.

SAN DIMAS (CONT.)

F. C. Dist. Form 68 Revised 600 8/39

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, 1941

Drainage Area 16.2 Square Miles. Capacity of Reservoir 1189.3 Ac. Ft. at Spillway Elev. 1462.0 Ft.

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	FEBRUARY				MARCH				APRIL				MAY				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	1426.0	2813	3.4	4.8	1429.6	3343	75.1	72.0	1430.4	3466	43.8	43.0	1454.3	9265	22.7	* 0.2	1
2	1425.8	2785	3.2	4.6	1433.1	3908	74.5	46.0	1431.0	3562	47.7	43.0	1454.6	9363	1 21.7	16.7	2
3	1425.6	2757	3.1	4.5	1432.9	3874	99.2	101.0	1430.7	3515	40.7	43.0	1453.7	9072	1 20.7	35.4	3
4	1425.8	2785	2.9	1.5	1434.6	4172	111.1	96.0	1432.7	3841	47.4	31.0	1452.7	8755	1 19.6	35.6	4
5	1426.1	2827	2.2	* 0.1	1435.7	4376	131.3	121.0	1437.4	4713	68.0	24.0	1452.8	8736	1 18.9	17.3	5
6	1426.9	2941	5.8	* 0.1	1430.4	3468	83.2	129.0	1439.9	5256	52.4	25.0	1453.9	9136	1 8.0	* 0.2	6
7	1427.3	3000	3.1	* 0.1	1429.5	3328	56.9	64.0	1441.8	5705	47.6	25.0	1455.0	9495	1 8.0	* 0.2	7
8	1427.7	3058	3.0	* 0.1	1431.7	3676	47.6	30.0	1443.2	6053	42.5	25.0	1456.0	9822	16.8	* 0.2	8
9	1428.0	3102	2.8	* 0.1	1432.7	3841	38.3	30.0	1444.6	6414	44.2	26.0	1456.9	10123	15.4	* 0.2	9
10	1428.4	3162	2.7	* 0.1	1433.1	3908	33.4	30.0	1445.6	6732	50.1	34.0	1457.8	10426	15.5	* 0.2	10
11	1429.9	3389	11.5	* 0.1	1433.2	3926	30.9	30.0	1447.4	7173	63.2	41.0	1458.6	10699	14.9	* 0.2	11
12	1430.8	3531	7.3	* 0.1	1433.7	4012	47.3	43.0	1448.6	7515	58.2	41.0	1459.5	11010	14.9	* 0.2	12
13	1431.4	3627	4.9	* 0.1	1430.0	3405	85.4	116.0	1449.4	7748	52.8	41.0	1460.3	11289	14.3	* 0.2	13
14	1431.9	3708	9.1	5.0	1429.4	3313	81.4	86.0	1449.9	7896	51.5	44.0	1461.1	11571	14.4	* 0.2	14
15	1431.8	3692	15.2	16.0	1433.7	4012	71.2	36.0	1449.6	7866	45.4	47.0	1461.4	11679	14.2	8.6	15
16	1431.8	3692	16.0	16.0	1435.7	4376	59.4	41.0	1449.6	7807	44.1	47.0	1461.4	11679	1 14.0	15.1	16
17	1432.2	3758	19.3	16.0	1436.5	4553	52.6	45.0	1449.3	7719	42.5	47.0	1461.3	11643	1 13.6	15.1	17
18	1430.9	3546	15.2	25.9	1436.4	4512	47.0	48.0	1448.8	7572	39.6	47.0	1461.2	11607	1 13.6	15.1	18
19	1430.2	3436	27.5	33.0	1435.2	4282	41.4	53.0	1448.1	7370	36.6	47.0	1461.1	11571	1 13.5	15.0	19
20	1436.1	4452	126.2	75.0	1433.6	3995	37.5	52.0	1447.4	7173	37.1	47.0	1460.9	11500	13.4	E 17.0	20
21	1429.6	3343	81.1	137.0	1432.9	3874	33.9	40.0	1446.5	6923	34.4	47.0	1460.7	11430	13.3	16.0	21
22	1429.6	3343	68.0	68.0	1433.2	3926	31.7	29.0	1446.6	6950	34.4	33.0	1460.7	11430	13.2	14.0	22
23	1430.5	3483	41.1	34.0	1433.3	3943	29.8	29.0	1447.1	7086	30.9	24.0	1460.7	11430	13.0	13.0	23
24	1430.9	3546	37.1	34.0	1433.2	3926	28.2	29.0	1447.6	7229	31.1	24.0	1460.7	11430	13.0	13.0	24
25	1430.0	3405	26.9	34.0	1432.8	3858	25.5	29.0	1447.9	7313	28.3	24.0	1460.6	11395	11.2	13.0	25
26	1428.6	3192	23.3	34.0	1432.4	3791	25.7	29.0	1448.3	7428	29.8	24.0	1460.6	11395	11.2	12.0	26
27	1426.6	2398	19.2	34.0	1431.7	3676	23.2	29.0	1448.5	7486	26.9	24.0	1460.5	11359	11.1	12.0	27
28	1429.2	3282	43.3	24.0	1431.5	3643	27.3	29.0	1449.6	7807	25.2	9.0	1460.5	11359	11.1	12.0	28
29					1432.2	3758	46.8	41.0	1451.0	8226	21.4	* 0.2	1460.4	11324	11.1	12.0	29
30					1430.3	3452	27.6	43.0	1452.9	8516	29.9	* 0.2	1460.4	11324	11.1	12.0	30
31					1430.3	3452	43.0	43.0					1460.3	11289	11.1	12.0	31
TOTAL			624.4	602.2			1647.6	1639.0			1247.9	977.4			458.5	334.3	
Inf. Ac. Ft.			1238.5				3268.0				2475.2				910.2	8464.5	
Outf. Ac. Ft.				1194.4				3250.9				1938.6			663.0	74035	
Maximum Mean Daily Inflow			126.2				131.3				68.0				22.7	131.3	
Minimum Mean Daily Inflow			2.2				23.2				21.4				11.1	0.1	
Storage Change			+44.1				+170				+536.6				+247.1	+1060.7	

REMARKS: Outflows as indicated by valve operation records and measurements. % Year

Max. W. S. Elev.	1461.5	feet on 5/15/41	Storage 1171.4	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	Date
Min. W. S. Elev.	1392.3	feet on 10/28/40	Storage 12.7	Acre Feet	Geo. W. Rodgers	Dam Tender	Gage Hts. copied	A.C.M.
Max. Peak Inf.	235.	C.F.S. from 6:30 p.m. on 3/4/41	to 7:00 p.m. on 3/4/41		C. C. Green	Hydrographer	Storage applied	A.C.M.
Max. Peak Outf.	145.±	C.F.S. various times	to	on	C. L. Brewster	Hydrographer	Inf. & Outf. computed	H.A.V.
Gage Heights And Storages as of midnight on date shown.							Checked G.H.M.	3/10/42

(= Mean for period.
i = Interpolated
E = Estimated
* = Gate leakage, etc.

F. C. Dist. Form 68 Revised 600 8/39

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, 1941

Drainage Area 16.2 Square Miles. Capacity of Reservoir 1189.3 Ac. Ft. at Spillway Elev. 1462.0 Ft.

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	JUNE				JULY				AUGUST				SEPTEMBER				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	1460.2	1125.4	11.3	12.0	1460.5	1135.9	5.9	8.0	1454.9	946.0	1 3.8	10.4	1447.2	711.6	1 2.9	7.1	1
2	1460.2	1125.4	11.3	10.0	1460.5	1135.9	5.8	7.5	1454.6	936.3	3.8	8.0	1446.9	703.3	2.9	7.1	2
3	1460.3	1128.9	11.3	9.0	1460.4	1132.4	5.8	7.5	1454.4	929.8	3.7	8.0	1446.7	697.8	2.9	7.1	3
4	1460.4	1132.4	11.3	9.0	1460.2	1125.4	5.6	7.5	1454.1	920.1	3.7	8.0	1446.4	689.5	2.9	7.1	4
5	1460.6	1139.5	11.3	9.0	1460.1	1121.8	5.6	7.5	1453.8	910.4	3.7	8.0	1446.0	678.6	2.9	7.0	5
6	1460.7	1143.0	11.3	9.0	1460.0	1118.3	5.4	7.5	1453.5	900.9	3.6	8.0	1445.7	670.5	2.8	6.9	6
7	1460.9	1150.9	11.2	9.0	1459.9	1114.6	5.4	7.5	1453.3	894.5	3.6	8.0	1445.4	662.5	2.8	6.8	7
8	1461.1	1157.1	11.2	9.0	1459.7	1107.9	5.4	7.5	1453.0	884.9	3.6	8.0	1445.1	654.5	2.8	6.8	8
9	1461.1	1157.1	10.0	10.0	1459.6	1104.4	5.4	7.5	1452.7	875.5	3.5	7.9	1444.9	649.2	2.8	6.8	9
10	1461.1	1157.1	10.0	10.0	1459.5	1101.0	5.4	7.5	1452.5	869.2	3.5	7.9	1444.5	638.6	2.8	6.8	10
11	1461.1	1157.1	9.0	9.0	1459.3	1094.0	4.4	7.5	1452.2	859.8	3.5	7.9	1444.2	630.9	2.7	6.6	11
12	1461.1	1157.1	9.0	9.0	1459.1	1087.1	4.4	7.5	1451.9	850.5	3.4	8.1	1443.9	623.2	2.7	6.6	12
13	1461.1	1157.1	9.0	9.0	1459.0	1083.6	4.4	7.5	1451.6	841.2	3.4	8.0	1443.6	615.5	2.7	6.6	13
14	1461.1	1157.1	9.0	9.0	1458.8	1076.8	4.3	7.5	1451.4	835.1	3.4	6.6	1443.3	607.9	2.7	6.6	14
15	1461.1	1157.1	9.0	9.0	1458.6	1069.9	4.3	7.5	1451.3	832.0	3.3	6.6	1443.0	600.2	2.7	6.6	15
16	1461.1	1157.1	8.1	8.5	1458.4	1063.1	4.1	7.5	1451.1	825.8	3.3	6.6	1442.7	592.6	2.7	6.5	16
17	1461.0	1153.6	8.1	8.5	1458.2	1056.2	4.1	7.5	1450.9	819.7	3.3	6.6	1442.3	582.8	2.7	6.5	17
18	1461.0	1153.6	8.0	8.5	1458.0	1049.4	4.1	7.5	1450.7	813.7	3.2	6.5	1442.0	575.4	2.7	6.5	18
19	1461.0	1153.6	8.0	8.5	1457.8	1042.6	4.1	7.5	1450.4	804.6	3.2	6.5	1441.7	568.1	2.7	7.0	19
20	1461.0	1153.6	8.0	8.0	1457.6	1035.9	4.1	7.5	1450.1	795.6	1 3.2	6.5	1441.3	558.5	2.6	7.0	20
21	1460.9	1150.0	7.3	8.0	1457.4	1029.1	4.1	7.5	1449.9	789.6	3.1	6.5	1440.9	548.9	2.6	7.0	21
22	1460.9	1150.0	7.3	8.0	1457.2	1022.4	4.1	7.5	1449.6	780.7	3.1	6.5	1440.6	541.6	2.6	7.0	22
23	1460.8	1146.5	7.3	8.0	1456.9	1012.3	4.1	7.5	1449.4	774.8	3.1	6.5	1440.2	532.5	2.6	7.0	23
24	1460.8	1146.5	7.3	8.0	1456.8	1008.9	4.1	7.5	1449.1	766.0	3.1	6.5	1439.9	525.6	2.6	7.0	24
25	1460.8	1146.5	7.3	8.0	1456.6	1002.2	4.0	7.5	1448.9	760.1	3.0	6.5	1439.5	516.6	2.6	7.0	25
26	1460.7	1143.0	7.3	8.0	1456.5	998.9	1 4.0	7.0	1448.7	754.4	3.0	6.5	1439.1	507.6	2.7	7.0	26
27	1460.7	1143.0	7.3	8.0	1456.3	992.2	1 4.0	7.0	1448.4	745.7	3.0	6.5	1438.7	498.8	2.7	7.0	27
28	1460.7	1143.0	7.3	8.0	1456.1	985.6	1 3.9	7.0	1448.2	739.9	3.0	6.5	1438.3	490.2	2.6	7.0	28
29	1460.6	1139.5	7.3	8.0	1455.9	978.9	1 3.9	6.9	1448.0	734.2	3.0	6.5	1437.9	481.6	2.6	7.0	29
30	1460.6	1139.5	7.2	8.0	1455.7	972.3	1 3.9	6.9	1447.8	728.5	3.0	6.5	1437.5	473.4	2.6	7.0	30
31					1455.3	959.1	1 3.6	10.5	1447.5	720.1	3.0	6.5					31
TOTAL			268.3	263.0			142.3	233.3			103.1	223.6			81.6	206.0	
Inf. Ac. Ft.			532.2				282.2				204.5				161.9	9645.3	
Outf. Ac. Ft.				521.7				462.7				443.5			408.6	92400	
Maximum Mean Daily Inflow			11.3				5.9				3.8				2.9	131.3	
Minimum Mean Daily Inflow			7.2				3.6				3.0				2.6	0.1	
Storage Change			+10.6				-180.4				-239.0				-246.7	+4052	

REMARKS: Outflows as indicated by valve operation records and measurements. Yearly Totals

Max. W. S. Elev.	1461.5	feet on 5/15/41	Storage 1171.4	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	Date
Min. W. S. Elev.	1392.3	feet on 10/28/40	Storage 12.7	Acre Feet	Geo. W. Rodgers	Dam Tender	Gage Hts. copied	A.C.M.
Max. Peak Inf.	235.	C.F.S. from 6:30 p.m. on 3/4/41	to 7:00 p.m. on 3/4/41		C. C. Green	Hydrographer	Storage applied	A.C.M.
Max. Peak Outf.	145.±	C.F.S. various times	to	on	C. L. Brewster	Hydrographer	Inf. & Outf. computed	H.A.V.
Gage Heights as of midnight on date shown.							Checked G.H.M.	3/10/42

(= Mean for period.
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

On San Dimas Creek for the Year Ending September 30, 1941

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 at various times.

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	Day
1			0	0			0	0			0	0	1134.0	1.0	0.1	0	1
2											0	0	1136.1	2.4	1.1	0	2
3											0	0	1139.0	6.6	2.9	0	3
4											0	0	1140.2	9.4	2.4	0	4
5											0	0	1140.9	11.3	2.1	0	5
6											0	0	1141.2	12.1	1.5	0	6
7											0	0	1141.4	12.7	1.5	0	7
8											0	0	1141.6	13.3	1.5	0	8
9											0	0	1141.7	13.6	1.4	0	9
10											0	0	1142.0	14.4	1.6	0	10
11											0	0	1142.1	14.7	1.5	0	11
12											0	0	1142.2	15.1	1.4	0	12
13											0	0	1142.3	15.4	1.4	0	13
14	Reservoir Dry	No Storage			Reservoir Dry	No Storage			Reservoir Dry	No Storage	0	0	1142.5	16.0	1.5	0	14
15											0	0	1142.6	16.3	1.4	0	15
16											0	0	1142.8	16.9	1.6	0	16
17											0	0	1142.9	17.2	1.5	0	17
18											0	0	1143.0	17.5	1.4	0	18
19											0	0	1143.2	18.2	1.7	0	19
20											0	0	1143.3	18.5	1.4	0	20
21											0	0	1143.5	19.2	1.7	0	21
22									1130±	0	0	0	1143.7	19.9	1.7	0	22
23									1135.3	1.8	1.2	0	1143.8	20.2	1.6	0	23
24									1139.6	8.0	3.9	0	1145.2	25.2	3.9	0	24
25									1138.7	6.0	0	0	1145.5	26.4	5.1	3.0	25
26									1137.7	4.3	0	0	1145.5	26.4	6.3	4.8	26
27									1136.6	3.0	0	0	1145.5	26.4	5.7	4.2	27
28									1135.4	1.9	0	0	1145.5	26.4	5.1	3.6	28
29									1134.3	1.2	0	0	1145.5	26.4	5.1	3.6	29
30							0	0	1134.6	1.3	0.4	0	1145.5	26.4	5.1	3.6	30
31			0	0					1135.1	1.6	0.6	0	1145.0	24.4	E 4.1	3.6	31
TOTAL			0	0			0	0			6.1	0			76.1	26.4	
Inf. Ac. Ft.			0				0				12.1				150.9	163.0	
Outf. Ac. Ft.			0				0				0 +(10.5)				52.4 + (75.8)	52.4 + (86.3)	
Maximum Mean Daily Inflow			0				0				3.9				6.5	6.3	
Minimum Mean Daily Inflow			0				0				0				0.1	0	
Storage Change			0				0				+1.6				+22.8	+24.4	
REMARKS																½ Year	

Max. W. S. Elev.	1146.45	feet on 3/14/41	Storage	30.5	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS Date
Min. W. S. Elev.	1128.±	feet on various times	Storage	Dry	Acre Feet	C.C.Green & H.A. van der Goot	Dam Tender	Gage Hts. copied A.C.M.
Max. Peak Inf.	155.	C.F.S. from 4:30 a.m. on 3/14/41	to	5:30 a.m. on	3/14/41	C. L. Brewster	Hydrographer	Storage applied A.C.M.
Max. Peak Outf.	154.	C.F.S. from 4:30 a.m. on 3/14/41	to	5:30 a.m. on	3/14/41		Hydrographer	Inf. & Outf. computed H.A.V.
Gage Heights and Storages as of midnight on date shown.								Checked G.H.M. 3/24/42

() = Monthly total percolation loss
E = Estimated

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

On San Dimas Creek for the Year Ending September 30, 1941

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 at various times

Day	FEBRUARY Gage Height	FEBRUARY Acre Ft. Storage	FEBRUARY C.F.S. Inflow	FEBRUARY C.F.S. Outflow	MARCH Gage Height	MARCH Acre Ft. Storage	MARCH C.F.S. Inflow	MARCH C.F.S. Outflow	APRIL Gage Height	APRIL Acre Ft. Storage	APRIL C.F.S. Inflow	APRIL C.F.S. Outflow	MAY Gage Height	MAY Acre Ft. Storage	MAY C.F.S. Inflow	MAY C.F.S. Outflow	Day
1	1144.4	22.3	3.1	2.8	1145.9	28.0	72.6	71.7	1145.9	28.0	48.8	47.2	1139.1	6.8	1.7	2.1	1
2	1144.1	21.2	3.0	2.1	1145.9	28.0	44.0	42.4	1145.9	28.0	48.6	47.2	1145.7	27.2	16.3	4.9	2
3	1143.8	20.2	3.0	2.1	1146.4	30.3	92.2	89.4	1145.6	27.6	46.5	45.1	1145.7	27.2	34.1	32.6	3
4	1142.5	16.0	1.2	2.0	1146.2	29.4	109.1	108.0	1145.6	27.6	44.6	43.2	1145.7	27.2	34.1	32.6	4
5	1140.6	10.5	0.3	1.9	1146.3	29.9	122.9	121.0	1145.7	27.2	31.7	30.4	1144.3	21.9	19.3	20.5	5
6	1139.0	6.6	0.6	1.6	1145.1	28.9	124.0	123.0	1145.7	27.2	28.5	27.0	1141.1	11.8	[0.9	4.6	6
7	1138.4	5.5	E 0.2	0	1145.6	27.6	68.2	67.2	1145.7	27.2	27.2	25.7	1139.0	6.6	0.9	2.6	7
8	1137.6	4.2	E 0	0	1145.7	27.2	33.2	31.9	1145.7	27.2	27.2	25.7	1139.0	6.6	0.9	E 0.2	8
9	1136.8	3.2	0	0	1145.7	27.2	31.3	29.6	1145.8	27.6	28.5	26.8	1139.0	6.6	E 0.6	E 0.1	9
10	1135.8	2.2	0	0	1145.7	27.2	31.3	29.6	1145.9	28.0	33.7	31.9	1138.9	6.4	E 0.4	0	10
11	1137.2	3.7	1.3	0	1145.7	27.2	31.3	29.6	1145.8	27.6	44.2	42.6	1138.6	6.2	E 0.4	0	11
12	1136.9	3.5	0.3	0	1146.1	28.9	40.4	38.0	1145.8	27.6	43.0	41.4	1138.7	6.0	E 0.3	0	12
13	1136.2	2.5	0.1	0	1146.3	29.9	119.2	117.0	1145.8	27.6	41.5	39.9	1138.6	5.9	E 0.3	0	13
14	1139.9	8.7	3.8	0	1145.9	28.0	100.6	100.0	1145.8	27.6	43.0	41.4	1138.4	5.5	E 0.3	0	14
15	1145.6	26.8	11.2	1.2	1145.8	27.6	43.8	42.4	1145.8	27.6	49.0	47.4	1141.9	14.1	5.3	0	15
16	1145.6	26.8	10.1	8.6	1145.8	27.6	43.7	42.1	1145.8	27.6	49.0	47.4	1145.6	26.8	10.7	2.9	16
17	1145.6	26.8	14.5	13.0	1145.8	27.6	44.5	42.9	1145.8	27.6	49.0	47.4	1145.6	26.8	11.1	9.6	17
18	1145.7	27.2	19.7	18.0	1145.9	28.0	47.7	45.9	1145.8	27.6	47.5	45.9	1145.6	26.8	11.1	9.6	18
19	1145.8	27.6	28.0	26.3	1145.9	28.0	53.8	52.2	1145.8	27.6	47.5	45.9	1145.6	26.8	11.1	9.6	19
20	1146.3	29.8	76.6	74.0	1145.9	28.0	53.8	52.2	1145.8	27.6	46.0	44.4	1145.6	26.8	11.1	9.6	20
21	1146.5	29.9	132.6	131.0	1145.7	27.2	44.5	43.3	1145.8	27.6	46.0	44.4	1145.6	26.6	11.1	9.6	21
22	1145.8	27.6	68.3	67.9	1145.7	27.2	32.7	31.2	1145.7	27.2	33.0	31.7	1145.5	26.4	9.5	8.0	22
23	1145.8	27.6	33.4	31.9	1145.7	27.2	31.7	30.2	1145.7	27.2	23.5	22.0	1145.5	26.4	8.2	6.7	23
24	1145.7	27.6	33.1	31.6	1145.7	27.2	30.9	29.4	1145.7	27.2	23.5	22.0	1145.5	26.4	7.6	6.1	24
25	1145.7	27.6	32.7	31.2	1145.7	27.2	30.1	28.6	1145.7	27.2	23.5	22.0	1145.5	26.4	6.8	5.3	25
26	1145.7	27.6	31.5	29.8	1145.7	27.2	29.3	27.6	1145.7	27.2	23.5	22.0	1145.5	26.4	5.7	4.2	26
27	1145.7	27.6	29.9	28.4	1145.7	27.2	28.5	27.0	1145.7	27.2	23.5	22.0	1145.5	26.4	5.7	4.2	27
28	1146.2	29.4	26.9	24.5	1145.8	27.6	28.6	26.9	1144.1	21.2	10.9	12.4	1145.5	26.4	5.7	4.2	28
29					1145.9	28.0	41.2	39.4	1141.3	12.4	1.3	4.5	1145.5	26.4	5.7	4.2	29
30					1145.8	27.6	44.6	43.2	1140.2	9.4	2.2	2.6	1145.4	26.0	4.4	3.1	30
31					1145.9	28.0	47.8	46.0					1145.4	26.0	4.0	2.5	31
TOTAL			565.6	530.1			1697.5	1649.7			1036.3	999.7			245.0	199.6	
Inf. Ac. Ft.			1121.8				3366.9				2055.5				486.0	713.2	
Outf. Ac. Ft.			1051.4 + (65.5)				3272.1 + (96.2)				1982.9 + (91.2)				395.9 + (73.4)	6754.7+(412.6)	
Maximum Mean Daily Inflow			132.6				124.0				49.0				34.1	132.6	
Minimum Mean Daily Inflow			0				28.5				1.3				0.2	0	
Storage Change			+5.0				-1.4				-18.6				+16.6	+26.0	
REMARKS																½ Year	

Max. W. S. Elev.	1146.45	feet on 3/14/41	Storage	30.5	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS Date
Min. W. S. Elev.	1128.±	feet on various times	Storage	Dry	Acre Feet	C.C.Green & H.A.van der Goot	Dam Tender	Gage Hts. copied A.C.M.
Max. Peak Inf.	155.	C.F.S. from 4:30 a.m. on 3/14/41	to	5:30 a.m. on	3/14/41	C. L. Brewster	Hydrographer	Storage applied A.C.M.
Max. Peak Outf.	154.	C.F.S. from 4:30 a.m. on 3/14/41	to	5:30 a.m. on	3/14/41		Hydrographer	Inf. & Outf. computed H.A.V.
Gage Heights & Storages as of midnight on date shown.								Checked G.H.M. 3/24/42

[= Mean for period.
() = Monthly percolation loss
E = Estimated

PUDDINGSTONE DIVERSION (CONT.)

F. C. Dist. Form 68 Revised 800 5/39

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of PUDDINGSTONE DIVERSION Dam

X On San Dimas Creek for the Year Ending September 30, 1941

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 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	1144.6	237	2.8	2.5	Small Pool	Storage Negligible	0	0			0	0			0	0	1
2	1143.4	189	1.4	2.4													2
3	1141.7	136	0.9	2.3													3
4	1140.0	89	0.9	2.1													4
5	1138.9	64	1 0.8	1.2													5
6	1138.7	60	0.7	0													6
7	1138.5	57	0.6	0													7
8	1138.3	53	0.5	0													8
9	1138.0	48	0.4	0													9
10	1137.6	42	0.3	0													10
11	1137.2	37	0.2	0													11
12	1136.7	31	0.1	0													12
13	1136.2	25	0.1	0					Reservoir Dry	No Storage			Reservoir Dry	No Storage			13
14	1135.7	21	1 0.1	0													14
15	1135.2	17	E 0.1	0													15
16	1134.7	14	0	0													16
17	1134.2	11	0	0													17
18	1133.7	09	0	0													18
19	1133.2	07	0	0													19
20	1132.7	05	0	0													20
21	1132.2	04	0	0	Reservoir Dry	No Storage											21
22	1131.7	03	0	0													22
23	1131.2	02	0	0													23
24	1130.7	01	0	0													24
25	1130.2	01	0	0													25
26	1129.7	+	0	0													26
27	1129±	+	0	0													27
28			0	0													28
29	Storage		0	0													29
30	Negligible		0	0											0	0	30
31							0	0			0	0					31
TOTAL			9.9	10.5			0	0			0	0			0	0	
Inf. Ac. Ft.			19.6				0				0				0	7212.6	
Outf. Ac. Ft.			20.8 + (24.8)				0				0				0	6775.5+(437.4)	
Maximum Mean Daily Inflow			2.8				0				0				0	132.6	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			-26.0				0				0				0	0	

REMARKS Yearly Totals

Max. W. S. Elev. 1146.45 feet on 3/14/41 Storage 30.5 Acre Feet

Min. W. S. Elev. 1128.± feet on various times Storage Dry Acre Feet

Max. Peak Inf. 155. C. F. S. from 4:30 a.m. on 3/14/41 to 5:30 a.m. on 3/14/41

Max. Peak Outf. 154. C. F. S. from 4:30 a.m. on 3/14/41 to 5:30 a.m. on 3/14/41

Gage Heights and Storages as of midnight on date shown.

RECORDS COLLECTED BY

C. C. Green & H. A. van der Goot — Dam Tender

C. L. Brewster — Hydrographer

Hydrographer

COMPUTATIONS — Date

Gage Hts. copied A.C.M.

Storage applied A.C.M.

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

Checked G.H.M. 3/24/42

() = Monthly total percolation loss.
E = Estimated
i = Interpolated

PUDDINGSTONE

F. C. Dist. Form 68 Revised 800 5/39

Storages based on L.A.C.F.C.D. Survey of January, 1941. (Table II)

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

X On Puddingstone Creek for the Year Ending September 30, 1941

Continuous Water Stage Recorder Au

Drainage Area 32.2 Square Miles. Capacity of Reservoir 17,190.0 Ac. Ft. at Spillway Elev. 970.0 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	912.70	2006.5	0	9.6	907.90	1549.5	0	0	907.70	1532.4	0	0	911.75	1909.9	0.3	0	1
2	912.50	1986.0	0	9.7	907.90	1549.5	0	0	907.70	1532.4	0	0	911.75	1909.9	0.3	0	2
3	912.30	1965.5	0	9.6	907.90	1549.5	0	0	907.70	1532.4	0	0	911.75	1909.9	0.3	0	3
4	912.10	1945.0	0	9.6	907.90	1549.5	0	0	907.65	1528.1	0	[1.4]	911.75	1909.9	0.3	0	4
5	911.90	1924.8	0	9.5	907.85	1545.3	0	0	907.60	1523.8	0	[1.4]	911.75	1909.9	0.3	0	5
6	911.65	1900.0	0	11.8	907.85	1545.3	0	0	907.55	1519.6	0	[1.3]	911.75	1909.9	0.3	0	6
7	911.40	1875.1	0	11.9	907.85	1545.3	0	0	907.55	1519.6	0	0	911.75	1909.9	0.3	0	7
8	911.20	1855.3	0	9.3	907.85	1545.3	0	0	907.55	1519.6	0	0	911.75	1909.9	0.3	0	8
9	911.00	1835.4	0	9.3	907.65	1545.3	0	0	907.50	1515.3	0	[3.0]	911.75	1909.9	0.3	0	9
10	910.85	1821.0	0	6.6	907.80	1541.0	0	0	907.40	1506.7	0	[2.8]	911.80	1914.8	2.8	0	10
11	910.70	1806.6	0	6.5	907.80	1541.0	0	0	907.40	1506.7	0	[1.2]	911.80	1914.8	0.3	0	11
12	910.50	1787.5	0	8.9	907.80	1541.0	0	0	907.35	1502.4	0	[1.1]	911.80	1914.8	0.3	0	12
13	910.30	1768.3	0	9.0	907.80	1541.0	0	0	907.30	1498.1	0	[1.1]	911.80	1914.8	0.3	0	13
14	910.10	1749.1	0	9.0	907.75	1536.7	0	0	907.25	1493.8	0	0	911.80	1914.8	0.3	0	14
15	909.85	1725.6	0	11.2	907.75	1536.7	0	0	907.25	1493.8	0	0	911.80	1914.8	0.3	0	15
16	909.60	1702.5	0	10.9	907.75	1536.7	0	0	907.45	1511.0	7.4	0	911.80	1914.8	0.3	0	16
17	909.35	1679.4	0	10.9	907.80	1541.0	[1.5]	0	908.00	1558.1	24.1	0	911.80	1914.8	0.3	0	17
18	909.10	1656.3	0	11.0	907.80	1541.0	[1.5]	0	908.20	1575.9	9.2	0	911.80	1914.8	0.3	0	18
19	908.85	1633.7	0	10.7	907.80	1541.0	0	0	908.20	1575.9	0.3	0	911.80	1914.8	0.3	0	19
20	908.65	1615.9	0	8.3	907.80	1541.0	0	0	908.20	1575.9	0.3	0	911.80	1914.8	0.3	0	20
21	908.45	1598.1	0	8.2	907.80	1541.0	0	0	908.30	1584.8	4.8	0	911.85	1919.8	2.8	0	21
22	908.20	1575.9	0	[9.4]	907.75	1536.7	0	0	908.35	1589.1	2.5	0	911.85	1919.8	0.3	0	22
23	908.00	1558.1	0	[9.4]	907.75	1536.7	0	0	909.50	1693.3	52.8	0	911.90	1924.8	2.8	0	23
24	907.75	1536.7	0	10.1	907.75	1536.7	0	0	911.55	1890.1	99.5	0	912.30	1965.5	20.8	0	24
25	907.90	1549.5	13.4	6.2	907.75	1536.7	0	0	911.60	1895.0	2.9	0	912.40	1975.7	5.5	0	25
26	908.00	1558.1	4.3	0	907.75	1536.7	0	0	911.65	1900.0	2.7	0	912.50	1986.0	5.5	0	26
27	907.95	1553.8	0	0	907.75	1536.7	0	0	911.65	1900.0	[1.0]	0	912.60	1996.2	5.4	0	27
28	907.95	1553.8	0	0	907.70	1532.4	0	0	911.70	1904.9	[0.9]	0	912.65	2001.3	[4.2]	0	28
29	907.95	1553.8	0	0	907.70	1532.4	0	0	911.70	1904.9	[0.9]	0	912.75	2011.6	[4.2]	0	29
30	907.95	1553.8	0	0	907.70	1532.4	0	0	911.70	1904.9	[0.9]	0	912.80	2016.7	2.8	0	30
31	907.90	1549.5	0	0					911.75	1909.9	2.8	0	912.85	2021.6	2.9	0	31
TOTAL			17.7	236.6			3.0	0			213.0	13.4			65.7	0	
Inf. Ac. Ft.			35.1				6.0				422.5				130.3	593.9	
Outf. Ac. Ft.			469.3 + (43.2)				0 + (23.0)				26.6 + (18.4)				0 + (18.4)	495.9+(103.0)	
Maximum Mean Daily Inflow			13.4				1.5				99.5				20.9	99.5	
Minimum Mean Daily Inflow							0				0				0.3		
Storage Change			-477.5				-17.1				+377.5				+111.9	-52	

REMARKS Outflows as indicated by valve records and measurements. ½ Year

Max. W. S. Elev. 959.70 feet on 5/30-6/12/41 Storage 12,739.4 Acre Feet

Min. W. S. Elev. 907.25 feet on 12/14&15/40 Storage 1493.8 Acre Feet

Max. Peak Inf. 1084. C. F. S. from 5:30 p.m. on 3/4/41 to 6:00 p.m. on 3/4/41

Max. Peak Outf. 14.5 C. F. S. from 12:00 Noon on 6/10/41 to 8:00 a.m. on 7/4/41

Gage Heights and Storages as of midnight on date shown.

RECORDS COLLECTED BY

F. A. Pollard — Dam Tender

C. L. Brewster — Hydrographer

Hydrographer

COMPUTATIONS — Date

Gage Hts. copied A.C.M.

Storage applied A.C.M.

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

Checked G.H.M. 3/5/42

[= Mean for period.
()= Monthly total percolation and evaporation loss.
• = Storages corrected to new survey beginning October 1, 1940, (Loss =81.7 acre-feet).

F. C. Dist. Form 68 Revised 600 5/39

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

On Puddingstone Creek for the Year Ending September 30, 1941

Drainage Area 32.2 Square Miles. Capacity of Reservoir 17,190.0 Ac. Ft. at Spillway Elev. 970.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	FEBRUARY				MARCH				APRIL				MAY				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	912.85	2021.8	0.9	0	929.60	4344.5	139.4	0	948.60	8925.6	77.2	0	954.65	10883.	2.2	0	1
2	912.85	2021.8	0.8	0	930.60	4528.2	93.7	0	949.05	9061.4	69.7	0	954.65	10883.	2.2	0	2
3	912.85	2021.8	0.8	0	931.50	4775.5	125.6	0	949.35	9153.7	47.9	0	954.80	10935.	28.4	0	3
4	912.90	2027.0	0.8	0	935.50	5521.8	377.3	0	949.75	9276.7	63.3	0	955.10	11040.	55.1	0	4
5	912.90	2027.0	0.6	0	937.00	5856.3	169.6	0	950.00	9353.5	40.0	0	955.50	11182.	73.7	0	5
6	913.00	2037.2	5.5	0	938.25	6146.4	147.3	0	950.25	9432.1	40.9	0	955.85	11306.	60.4	0	6
7	913.00	2037.2	0.3	0	938.90	6300.5	78.7	0	950.45	9495.0	33.1	0	956.15	11414.	60.4	0	7
8	913.00	2037.2	0.3	0	939.15	6360.7	31.3	0	950.60	9542.2	25.0	0	956.45	11523.	60.4	0	8
9	913.00	2037.2	0.3	0	939.35	6409.4	25.6	0	950.85	9620.8	41.0	0	956.75	11631.	60.4	0	9
10	913.00	2037.2	0.3	0	939.50	6445.8	19.4	0	951.15	9716.3	49.4	0	957.10	11759.	60.3	0	10
11	913.20	2058.3	10.9	0	939.65	6482.3	19.4	0	951.55	9845.1	66.3	0	957.25	11814.	30.2	0	11
12	913.25	2063.6	1.7	0	940.40	6667.2	94.2	0	951.80	9925.6	41.8	0	957.30	11833.	11.6	0	12
13	913.25	2063.6	1.6	0	942.40	7177.7	258.4	0	952.00	9990.0	33.8	0	957.45	11888.	30.1	0	13
14	913.55	2095.4	16.3	0	943.80	7550.2	188.8	0	952.20	10056.	34.6	0	957.75	12000.	58.2	0	14
15	914.00	2142.9	24.3	0	944.20	7659.1	55.9	0	952.45	10138.	42.9	0	958.10	12130.	67.9	0	15
16	914.40	2186.6	22.4	0	944.50	7741.8	42.7	0	952.70	10221.	42.9	0	958.40	12243.	59.3	0	16
17	915.05	2257.7	36.2	0	944.80	7824.4	42.6	0	952.95	10304.	42.9	0	958.45	12262.	11.7	0	17
18	915.45	2302.8	23.2	0	945.10	7907.7	43.0	0	953.20	10388.	43.7	0	958.45	12262.	4.1	0	18
19	917.50	2541.6	120.8	0	945.40	7992.4	43.7	0	953.45	10472.	43.9	0	958.45	12262.	4.1	0	19
20	920.55	2927.5	194.9	0	945.70	8077.0	43.6	0	953.65	10540.	35.4	0	958.50	12281.	4.1	0	20
21	923.70	3370.0	223.5	0	945.95	8147.6	36.6	0	953.90	10624.	43.9	0	958.50	12281.	4.1	0	21
22	924.85	3544.0	88.1	0	946.10	8190.6	22.7	0	954.05	10675.	27.0	0	958.50	12281.	4.1	0	22
23	925.35	3622.5	40.0	0	946.25	8233.8	20.0	0	954.15	10710.	18.8	0	958.65	12337.	30.8	0	23
24	925.90	3709.9	44.5	0	946.35	8262.7	19.9	0	954.20	10727.	14.4	0	958.85	12413.	36.9	0	24
25	926.20	3758.8	25.0	0	946.50	8306.0	19.9	0	954.30	10762.	14.4	0	959.00	12470.	36.9	0	25
26	926.50	3808.3	25.4	0	946.60	8334.8	19.9	0	954.35	10779.	14.4	0	959.20	12547.	36.9	0	26
27	926.75	3849.5	21.2	0	946.75	8378.1	19.9	0	954.45	10814.	14.4	0	959.35	12604.	36.9	0	27
28	928.05	4069.9	111.5	0	946.95	8435.8	30.0	0	954.50	10831.	10.1	0	959.55	12682.	36.9	0	28
29					947.35	8553.3	60.3	0	954.50	10831.	1.3	0	959.65	12720.	22.8	1.2	29
30					947.55	8612.3	30.7	0	954.65	10883.	27.4	0	959.70	12739.	7.7	1.3	30
31					948.10	8775.1	83.1	0				0	959.70	12739.	7.7	0	31
TOTAL			1042.3	0			2403.2	0			1101.8	0			1006.5	2.5	
Inf. Ac. Ft.			2067.4				4766.7				2185.4				1996.4	11609.8	
Outf. Ac. Ft.			0 + (19.2)				0 + (61.5)				0 + (77.4)				5.0 + (135.3)	500.9+(396.4)	
Maximum Mean Daily Inflow			223.5				377.3				77.2				73.7	377.3	
Minimum Mean Daily Inflow			0.3				19.4				1.3				2.2	0	
Storage Change			+2048.1				+4705.2				+2108.1				+1856.2	+10712.4	
																⅔ Year	

REMARKS: Outflows as indicated by valve operation records and measurements.

Max. W. S. Elev. 959.70 feet on 5/30-6/12/41 Storage 12,739.4 Acre Feet

Min. W. S. Elev. 907.25 feet on 12/14&15/40 Storage 1493.8 Acre Feet

Max. Peak Inf. 1084. C.F.S. from 5:30 p.m. on 3/4/41 to 6:00 p.m. on 3/4/41

Max. Peak Outf. 14.5 C.F.S. from 12:00 Noon on 6/10/41 to 8:00 a.m. on 7/4/41

Gage Heights and Storages as of midnight on date shown.

RECORDS COLLECTED BY: F. A. Pollard, Dam Tender; C. L. Brewster, Hydrographer; Hydrographer

COMPUTATIONS	Date
Gage Hts. copied	A.C.M.
Storage applied	A.C.M.
Inf. & Outf. computed	H.A.V.
Checked G.H.M.	3/5/42

{ = Mean for period.
() = Monthly total percolation and evaporation loss. (Beginning February 1, 1941, percolation and evaporation losses were arbitrarily estimated based on mean evaporation loss per month.)
Note: Major portion of inflow during May originated at the Metropolitan Water District softening plant.

F. C. Dist. Form 68 Revised 600 5/39

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

On Puddingstone Creek for the Year Ending September 30, 1941

Drainage Area 32.2 Square Miles. Capacity of Reservoir 17,190.0 Ac. Ft. at Spillway Elev. 970.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	JUNE				JULY				AUGUST				SEPTEMBER				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	959.70	12739	5.7	2.4	958.55	12300	0	14.5	955.90	11324	0	11.5	953.50	10489	0	12.1	1
2	959.70	12739	5.7	4.8	958.45	12262	0	14.5	955.85	11306	0	11.5	953.40	10455	0	12.1	2
3	959.70	12739	5.6	2.4	958.35	12224	0	14.5	955.75	11271	0	11.4	953.35	10438	0	12.1	3
4	959.70	12739	5.6	4.6	958.25	12186	0	13.1	955.65	11235	0	11.4	953.25	10404	0	12.1	4
5	959.70	12739	5.6	2.5	958.15	12149	0	12.4	955.60	11218	0	11.4	953.15	10371	0	12.1	5
6	959.70	12739	1.1	2.4	958.10	12130	0	12.4	955.50	11182	0	11.4	953.10	10354	0	12.1	6
7	959.65	12720	1.1	4.3	958.00	12092	0	12.4	955.45	11164	0	11.4	953.00	10320	0	12.1	7
8	959.70	12739	8.2	0.5	957.90	12055	0	12.4	955.40	11146	0	11.3	952.90	10287	0	12.1	8
9	959.70	12739	8.3	1.1	957.80	12018	0	12.4	955.30	11111	0	11.3	952.85	10270	0	12.1	9
10	959.70	12739	13.9	9.6	957.75	12000	0	12.4	955.25	11093	0	11.3	952.75	10238	0	12.1	10
11	959.70	12739	13.9	14.5	957.65	11962	0	12.3	955.15	11058	0	11.3	952.65	10204	0	12.0	11
12	959.70	12739	13.9	14.5	957.55	11926	0	12.3	955.05	11022	0	11.3	952.55	10172	0	12.0	12
13	959.65	12720	13.9	14.5	957.45	11888	0	12.2	954.95	10987	0	11.3	952.45	10138	0	12.0	13
14	959.65	12720	13.9	14.5	957.40	11870	0	12.2	954.90	10970	0	11.2	952.40	10122	0	12.0	14
15	959.65	12720	13.9	14.5	957.30	11833	0	12.1	954.80	10935	0	11.2	952.30	10089	0	12.0	15
16	959.60	12701	14.2	14.5	957.20	11796	0	12.1	954.75	10918	0	11.2	952.20	10056	0	12.0	16
17	959.65	12720	22.6	14.5	957.10	11759	0	12.0	954.65	10883	0	11.2	952.15	10040	0	12.0	17
18	959.65	12720	22.6	14.5	957.00	11722	0	12.0	954.60	10856	0	11.2	952.05	10006	0	12.0	18
19	959.60	12701	5.6	14.5	956.95	11704	0	11.9	954.50	10831	0	11.2	951.95	9973.9	0	12.0	19
20	959.50	12662	5.6	14.5	956.85	11668	0	11.9	954.45	10814	0	11.2	951.90	9957.6	0	12.0	20
21	959.45	12643	5.6	14.5	956.75	11631	0	11.8	954.35	10779	0	11.2	951.80	9925.6	0	12.0	21
22	959.40	12624	5.6	14.5	956.70	11613	0	11.8	954.30	10762	0	11.1	951.70	9893.4	0	11.9	22
23	959.30	12585	0	14.5	956.60	11577	0	11.8	954.20	10727	0	11.1	951.60	9861.2	0	11.9	23
24	959.20	12547	0	14.5	956.55	11559	0	11.7	954.15	10710	0	11.1	951.50	9829.0	0	11.9	24
25	959.10	12508	0	14.5	956.45	11523	0	11.7	954.05	10675	0	11.1	951.40	9796.8	0	11.9	25
26	959.00	12470	0	14.5	956.40	11504	0	11.7	954.00	10658	0	11.1	951.35	9780.7	0	11.9	26
27	958.90	12432	0	14.5	956.30	11468	0	11.6	953.90	10624	0	11.1	951.25	9748.5	0	11.9	27
28	958.80	12394	0	14.5	956.25	11450	0	11.6	953.85	10607	0	11.1	951.15	9716.3	0	11.9	28
29	958.70	12375	0	14.5	956.15	11414	0	11.6	953.75	10574	0	11.1	951.10	9700.2	0	11.9	29
30	958.60	12337	0	14.5	956.10	11396	0	11.5	953.70	10557.	0	11.8	951.00	9663.0	0	11.9	30
31					956.00	11360	0	11.5	953.60	10523.	0	12.1					31
TOTAL			212.1	324.8			0	380.3			0	350.1			0	360.1	
Inf. Ac. Ft.			420.7				0				0				0	12030.5	
Outf. Ac. Ft.			644.2 + (178.5)				754.3 + (223.5)				694.4 + (142.4)				714.2 + (140.6)	3308.0+(1081.4)	
Maximum Mean Daily Inflow			22.6				0				0				0	377.3	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			-402.0				-977.9				-836.7				-854.6	+7641.0	
																Yearly Totals	

REMARKS: Outflows as indicated by valve operation records and measurements.

Max. W. S. Elev. 959.70 feet on 5/30-6/12/41 Storage 12,739.4 Acre Feet

Min. W. S. Elev. 907.25 feet on 12/14&15/40 Storage 1493.8 Acre Feet

Max. Peak Inf. 1084. C.F.S. from 5:30 p.m. on 3/4/41 to 6:00 p.m. on 3/4/41

Max. Peak Outf. 14.5 C.F.S. from 12:00 Noon on 6/10/41 to 8:00 a.m. on 7/4/41

Gage and Storages as of midnight on date shown.

RECORDS COLLECTED BY: F. A. Pollard, Dam Tender; C. L. Brewster, Hydrographer; Hydrographer

COMPUTATIONS	Date
Gage Hts. copied	A.C.M.
Storage applied	A.C.M.
Inf. & Outf. computed	H.A.V.
Checked G.H.M.	3/5/42

{ = Mean for period.
() = Monthly total percolation and evaporation loss.

LIVE OAK

F. C. Dist. Form 68 Revised 600 5/39

Storage based on U.S.S.C.S. Survey of May 1938

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

In Live Oak Canyon for the Year Ending September 30, 19 41.

Drainage Area 2.3 Square Miles. Capacity of Reservoir 227.5 Ac. Ft. at Spillway Elev. 1497.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	Day
1											0	0	1450.1	0.6	0	0	1
2											0	0	1450.1	0.6	0	0	2
3											0	0	1450.1	0.6	0	0	3
4											0	0	1450.1	0.6	0	0	4
5											0	0	1450.1	0.6	0	0	5
6											0	0	1450.1	0.6	0	0	6
7									DRY		0	0	1450.1	0.6	0	0	7
8											0	0	1450.1	0.6	0	0	8
9											0	0	1450.1	0.6	0	0	9
10											0	0	1450.2	0.7	0.05	0	10
11											0	0	1450.2	0.7	0	0	11
12	DRY				DRY						0	0	1450.2	0.7	0	0	12
13		STORAGE				STORAGE			RESERVOIR	NO STORAGE	0	0	1450.2	0.7	0	0	13
14			FLOW	FLOW			FLOW	FLOW			0	0	1450.2	0.7	0	0	14
15	RESERVOIR				RESERVOIR						0	0	1450.2	0.7	0	0	15
16											0	0	1450.2	0.7	0	0	16
17											0	0	1450.2	0.7	0	0	17
18		NO	NO	NO		NO	NO	NO			0	0	1450.2	0.7	0	0	18
19											0	0	1450.2	0.7	0	0	19
20											0	0	1450.2	0.7	0	0	20
21											0	0	1450.2	0.7	0	0	21
22											0	0	1450.3	0.7	0	0	22
23									1443	0	0	0	1450.3	0.7	0	0	23
24									1449.9	0.6	0.3	0	1450.5	0.8	0.05	0	24
25									1449.8	0.6	0	0	1450.5	0.8	0	0	25
26									1449.9	0.6	0	0	1450.6	0.8	0	0	26
27									1449.9	0.6	0	0	1450.6	0.8	0	0	27
28									1450.0	0.6	0	0	1450.7	0.8	0	0	28
29									1450.1	0.6	0	0	1450.7	0.8	0	0	29
30									1450.1	0.6	0	0	1450.8	0.8	0	0	30
31									1450.1	0.6	0	0	1450.8	0.8	0	0	31
TOTAL			0	0			0	0			0.3	0			0.10	0	
Inf. Ac. Ft.			0				0				0.6				0.20	0.8	
Outf. Ac. Ft.				0				0				0			0	0	
Maximum Mean Daily Inflow			0				0				0.3				0.05	0.3	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			0				0				+ 0.6				+ 0.20	+ 0.8	
REMARKS																¼ Year	

Max. W. S. Elev.	1488.0	feet on 4-11-41	Storage 139.3	Acre Feet		
Min. W. S. Elev.	Dry	feet on Various times	Storage 0	Acre Feet		
Max. Peak Inf.	89.5	C.F.S. from 3:00 p.m. on 3-4-41	to 3:30 p.m.	on 3-4-41		
Max. Peak Outf.	28	C.F.S. from 11:00 a.m. on 3-13-41	to 11:00 p.m.	on 3-13-41		

Gage Heights and Storage as of midnight on day shown.

RECORDS COLLECTED BY	
C. C. Green	Dam Tender
H. A. van der Goot	Hydrographer
C. L. Brewster	Hydrographer

COMPUTATIONS	Date
Gage Hts. copied HAV	7-28-41
Storage applied HAV	7-29-41
Inf. & Outf. computed HAV	7-30-41
Checked ACM – WEC	

F. C. Dist. Form 68 Revised 600 5/39

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

In Live Oak Canyon for the Year Ending September 30, 19 41.

Drainage Area 2.3 Square Miles. Capacity of Reservoir 227.5 Ac. Ft. at Spillway Elev. 1497.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Continuous Water Stage Recorder 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	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	1450.8	0.8	0	0	1477.2	65.6	11.2	4.4	1482.9	100.8	7.8	0	1486.7	128.6	1.1	1.5	1
2	1450.9	0.9	0.05	0	1478.3	72.5	7.8	4.8	1485.2	117.3	9.3	0	1486.5	127.3	0.7	1.5	2
3	1450.9	0.9	0	0	1476.8	64.5	4.6	8.7	1486.1	124.1	5.0	1.6	1486.3	125.7	0.7	1.5	3
4	1450.9	0.9	0	0	1486.4	126.5	39.0	7.7	1486.8	129.6	5.6	2.6	1486.1	124.1	0.7	1.6	4
5	1451.0	0.9	0	0	1485.8	121.8	21.4	23.6	1487.0	131.2	5.4	4.6	1485.9	122.6	0.7	1.6	5
6	1451.1	0.9	0	0	1481.7	92.9	10.9	25.4	1487.2	133.3	4.0	1.9	1485.7	121.1	0.6	1.6	6
7	1451.1	0.9	0	0	1479.0	76.4	6.1	14.5	1487.3	133.6	3.4	4.3	1485.4	118.8	0.6	1.6	7
8	1451.1	0.9	0	0	1479.4	78.8	3.6	2.5	1487.3	133.6	3.1	3.1	1485.1	116.6	0.6	1.6	8
9	1451.2	1.0	0	0	1480.2	83.5	2.3	0	1487.4	134.4	3.4	3.0	1484.7	113.6	0.5	1.6	9
10	1451.2	1.0	0	0	1480.3	84.1	2.0	1.7	1487.4	134.4	2.9	2.9	1484.4	111.4	0.5	1.6	10
11	1451.4	1.1	0.05	0	1478.6	74.2	1.7	6.7	1487.8	137.7	3.2	1.5	1484.0	108.5	0.5	1.6	11
12	1451.5	1.1	0	0	1478.5	73.6	4.5	4.6	1487.3	133.6	2.6	4.5	1483.7	106.4	0.5	1.6	12
13	1451.6	1.1	0	0	1477.9	70.3	15.9	17.5	1487.8	137.7	2.6	0.7	1483.3	103.6	0.4	1.6	13
14	1451.8	1.2	0.1	0	1479.5	79.4	15.4	10.8	1487.2	132.8	3.0	5.5	1483.0	101.5	0.4	1.6	14
15	1453.0	1.7	0.3	0	1481.2	89.7	10.2	5.0	1486.5	127.3	2.7	5.5	1482.7	99.6	0.4	1.6	15
16	1454.8	2.9	0.6	0	1481.1	89.0	6.8	7.2	1485.4	126.5	2.7	3.1	1482.3	96.8	0.4	1.6	16
17	1456.9	4.8	0.9	0	1479.6	79.5	5.3	9.9	1486.6	129.0	2.0	1.2	1481.9	94.2	0.4	1.6	17
18	1457.9	6.0	0.6	0	1477.7	69.2	4.5	9.9	1486.7	128.5	1.6	1.2	1481.5	91.6	0.3	1.6	18
19	1462.6	13.8	4.0	0	1476.4	62.5	3.8	7.2	1486.8	129.6	1.6	1.2	1481.1	89.0	0.3	1.6	19
20	1471.4	40.5	18.3	4.9	1476.3	62.0	2.5	2.7	1486.9	130.4	1.6	1.2	1480.7	86.6	0.3	1.6	20
21	1473.2	47.9	9.1	5.4	1476.3	62.0	1.6	1.6	1486.9	130.4	1.4	1.2	1480.3	84.1	0.3	1.6	21
22	1474.5	53.6	5.5	2.6	1476.1	61.0	1.1	1.6	1486.9	130.4	1.2	1.2	1479.8	81.1	0.3	1.6	22
23	1473.6	49.6	2.9	4.9	1475.9	60.0	1.1	1.6	1486.9	130.4	1.0	1.2	1479.4	78.8	0.3	1.6	23
24	1474.1	51.8	2.2	1.1	1475.6	58.6	1.0	1.6	1486.8	129.6	1.0	1.2	1479.0	76.4	0.3	1.6	24
25	1474.7	54.5	1.4	0	1475.6	58.6	1.0	1.1	1486.8	129.6	1.0	1.2	1478.5	73.6	0.3	1.6	25
26	1473.9	50.9	0.6	2.4	1476.0	60.5	0.9	0	1486.7	129.8	0.9	1.2	1478.0	70.6	0.2	1.6	26
27	1472.3	44.1	0.7	4.2	1476.4	62.5	1.0	0	1486.7	129.6	0.9	1.2	1477.5	68.2	0.2	1.6	27
28	1474.4	53.1	6.7	2.1	1476.9	65.0	1.3	0	1486.6	128.0	0.9	1.2	1477.0	65.5	0.2	1.6	28
29					1478.5	73.6	4.3	0	1486.5	127.3	0.9	1.2	1476.5	63.0	0.2	1.6	29
30					1479.1	77.0	1.6	0	1496.6	129.6	1.6	0.6	1476.0	60.5	0.2	1.6	30
31					1480.5	85.4	4.2	0					1475.5	58.2	0.2	1.6	31
TOTAL			54.0	27.6			198.6	162.5			93.5	61.2			13.3	49.3	
Inf. Ac. Ft.			107.1				394.3				185.6				26.4	694.2	
Outf. Ac. Ft.				54.7				362.0				121.4			27.8	635.9	
Maximum Mean Daily Inflow			18.3				39.0				8.3				1.1	39.0	
Minimum Mean Daily Inflow			0				0.9				0.9				0.2	0	
Storage Change			+ 52.3				+ 32.3				+ 44.2				- 71.4	+ 58.2	
REMARKS																½ Year	

Max. W. S. Elev.	1488.0	feet on 4-11-41	Storage 139.3	Acre Feet		
Min. W. S. Elev.	Dry	feet on Various times	Storage 0	Acre Feet		
Max. Peak Inf.	89.5	C.F.S. from 3:00 p.m. on 3-4-41	to 3:30 p.m.	on 3-4-41		
Max. Peak Outf.	28.	C.F.S. from 11:00 a.m. on 3-13-41	to 11:00 p.m.	on 3-13-41		

Gage Heights and Storage as of midnight on day shown.

RECORDS COLLECTED BY	
C. C. Green	Dam Tender
H. A. van der Goot	Hydrographer
C. L. Brewster	Hydrographer

COMPUTATIONS	Date
Gage Hts. copied HAV	7-29-41
Storage applied HAV	7-29-41
Inf. & Outf. computed HAV	7-31-41
Checked WEC	

M = Mean for period i = interpolated

F. C. Dist. Form 68 Revised 800 5/38

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, 19 41

Drainage Area 2.3 Square Miles. Capacity of Reservoir 227.5 Ac. Ft. at Spillway Elev. 1497.0 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	1474.6	52.4	1 0.2	1.4			1 0.2	0.2			E 0.1	0.1					1
2	1474.4	51.1	0.2	1.4			0.2	0.2			1 0.1	0.1					2
3	1473.8	50.4	0.2	1.5			0.2	0.2			0.1	0.1					3
4	1473.5	49.7	0.2	1.5			0.2	0.2			0.1	0.1					4
5	1472.9	48.6	0.2	1.5			0.2	0.2			0.1	0.1					5
6	1472.2	47.7	0.2	1.5			0.2	0.2			0.1	0.1					6
7	1471.7	47.1	0.2	1.5			0.2	0.2			1 0.1	0.1					7
8	1471.1	46.3	0.2	1.5			0.2	0.2			E 0.1	0.1					8
9	1470.4	45.7	0.2	1.5			0.2	0.2			1 0.1	0.1					9
10	1469.6	44.6	0.2	1.5			0.2	0.2			0.1	0.1					10
11	1468.7	43.6	0.2	1.7			0.2	0.2			0.1	0.1					11
12	1467.9	42.8	0.2	1.6			0.2	0.2			0.1	0.1					12
13	1466.9	41.8	0.2	1.6			0.2	0.2			0.1	0.1					13
14	1465.9	40.9	0.2	1.7			0.2	0.2			1 0.1	0.1					14
15	1464.8	39.0	0.2	1.7			0.2	0.2			E +	+					15
16	1463.6	36.0	0.2	1.7			0.2	0.2			1 +	+					16
17	1462.2	34.1	0.2	1.6			1 0.2	0.2			+	+					17
18	1461.0	32.6	0.2	1.5			E 0.2	0.2			+	+					18
19	1459.8	31.9	0.1	1.5			1 0.1	0.1			+	+					19
20	1458.9	31.4	0.1	1.6			0.1	0.1			+	+					20
21	1453.6	29.1	0.2	1.6			0.1	0.1			+	+					21
22	1449.1	27.4	0.2	1.0			0.1	0.1			+	+					22
23	1444.0	25.6	0.2	0.4			0.1	0.1			+	+					23
24		0	0.2	0.3			0.1	0.1			+	+					24
25		0	0.2	0.3			0.1	0.1			+	+					25
26		0	0.2	0.3			0.1	0.1			+	+					26
27		0	0.2	0.3			0.1	0.1			+	+					27
28		0	0.2	0.3			0.1	0.1			+	+					28
29		0	1 0.2	0.3			0.1	0.1			+	+					29
30		0	E 0.2	0.3			0.1	0.1			+	+					30
31							1 0.1	0.1			i +	+					31
TOTAL			6.0	35.3			4.8	4.9			1.4	1.4			+	+	
Inf. Ac. Ft.			11.9				9.7				2.6				+	718.6	
Outf. Ac. Ft.				70.0				9.7				2.6			+	718.4	
Maximum Mean Daily Inflow			0.2				0.2				0.1				+	39.0	
Minimum Mean Daily Inflow			0.2				0.1				+				+	0	
Storage Change			-58.2				0				0				0	0	

RESERVOIR DRY

REMARKS i = Interpolated E = Estimated (= Mean for period. Yearly Totals

Max. W. S. Elev.	1488.0	feet on 4-11-41	Storage 139.3	Acre Feet		
Min. W. S. Elev.	Dry	feet on Various times	Storage 0	Acre Feet		
Max. Peak Inf.	89.5	C.F.S. from 3:00 p.m. on 3-4-41	to 3:30 p.m. on 3-4-41			
Max. Peak Outf.	28	C.F.S. from 11:00 a.m. on 3-13-41	to 11:00 p.m. on 3-13-41			

Gage Heights and Storage as of midnight on day shown.

RECORDS COLLECTED BY

C. C. Green	Dam Tender
H. A. van der Goot	Hydrographer
C. L. Brewster	Hydrographer

COMPUTATIONS Date

Gage Hts. copied HAV	7-29-41
Storage applied HAV	7-29-41
Inf. & Outf. computed HAV	10-29-41
Checked ACM and WEC	

THOMPSON CREEK

F. C. Dist. Form 68 Revised 800 5/38

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, 19 41

Drainage Area 3.7 Square Miles. Capacity of Reservoir 812.0 Ac. Ft. at Spillway Elev. 1640.0 Ft.

Continuous Water Stage Recorder None

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	1572±	0	0	0	1572±	0	0	0	1572±	0	0	0	1579.9	5.1	(0.1	0	1
2		0	0	0		0	0	0		0	0	0	1579.8	4.9	0.1	0	2
3		0	0	0		0	0	0		0	0	0	1579.8	4.9	0.1	0	3
4		0	0	0		0	0	0		0	0	0	1579.8	4.9	0.1	0	4
5		0	0	0		0	0	0		0	0	0	1579.8	4.9	0.1	0	5
6		0	0	0		0	0	0		0	0	0	1579.8	4.9	0.05	0	6
7		0	0	0		0	0	0		0	0	0	1579.8	4.9	0.05	0	7
8		0	0	0		0	0	0		0	0	0	1579.8	4.9	0.05	0	8
9		0	0	0		0	0	0		0	0	0	1579.8	4.9	0.05	0	9
10		0	0	0		0	0	0		0	0	0	1579.9	5.1	0.2	0	10
11		0	0	0		0	0	0		0	0	0	1579.8	4.9	0.1	0	11
12		0	0	0		0	0	0		0	0	0	1579.8	4.9	0.05	0	12
13		0	0	0		0	0	0		0	0	0	1579.7	4.8	0.05	0	13
14		0	0	0		0	0	0		0	0	0	1579.6	4.6	0.05	0	14
15		0	0	0		0	0	0	1572 H	0	0	0	1579.5	4.5	0.05	0	15
16		0	0	0		0	0	0	1573.9	0.3	0.2	0	1579.5	4.5	0.05	0	16
17		0	0	0		0	0	0	1576.6	1.5	0.7	0	1579.4	4.3	0.05	0	17
18		0	0	0		0	0	0	1576.5	1.4	0.2	0	1579.3	4.2	0	0	18
19		0	0	0		0	0	0	1576.4	1.3	0.1	0	1579.2	4.0	0	0	19
20		0	0	0		0	0	0	1576.3	1.3	0	0	1579.1	3.9	0	0	20
21		0	0	0		0	0	0	1576.2	1.2	0	0	1579.1	3.9	0.1	0	21
22		0	0	0		0	0	0	1576.0	1.1	0	0	1579.0	3.7	(0.05	0	22
23		0	0	0		0	0	0	1578.8	3.5	1.4	0	1579.0	3.7	0.05	0	23
24		0	0	0		0	0	0	1581.2	7.4	2.2	0	1579.6	4.6	0.6	0	24
25		0	0	0		0	0	0	1580.9	6.8	0	0	1579.6	4.6	0.1	0	25
26		0	0	0		0	0	0	1580.6	6.3	0	0	1579.6	4.6	0.1	0	26
27		0	0	0		0	0	0	1580.3	5.7	0	0	1579.6	4.6	0.1	0	27
28		0	0	0		0	0	0	1580.0	5.2	0	0	1579.5	4.5	(0.05	0	28
29		0	0	0		0	0	0	1580.2	5.6	0.4	0	1579.5	4.5	0.05	0	29
30		0	0	0	1572±	0	0	0	1580.1	5.4	0.1	0	1579.5	4.5	0.05	0	30
31	1572±	0	0	0					1580.0	5.2	0.1	0	1579.4	4.3	(0.05	0	31
TOTAL			0	0			0	0			5.4	0			2.6	0	
Inf. Ac. Ft.			0				0				10.7				5.2	15.9	
Outf. Ac. Ft.				0				0			0 + (5.6)				0+(11.7)		
Maximum Mean Daily Inflow			0				0				2.2				0.6	2.2	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			0				0				+5.2				-0.9	+4.3	

REMARKS ½ Year

Max. W. S. Elev.	1620.0	feet on 3/15/41	Storage 329.0	Acre Feet		
Min. W. S. Elev.	Dry	feet on various times	Storage 0	Acre Feet		
Max. Peak Inf.	97.	C.F.S. from 10:00 p.m. on 3/4/41	to 11:00 p.m. on 3/4/41			
Max. Peak Outf.	4.2	C.F.S. from 9:00 a.m. on 3/14/41	to 4:30 p.m. on 3/14/41			

Gage Heights and Storages as of midnight on date shown.

RECORDS COLLECTED BY

C.C.Green & H.A.van der Goot	Dam Tender
C. L. Brewster	Hydrographer
	Hydrographer

COMPUTATIONS Date

Gage Hts. copied	A.C.M.
Storage applied	A.C.M.
Inf. & Outf. computed	H.A.V.
Checked G.H.M.	3/23/42

(= Mean for period..
() = Total monthly evaporation and percolation loss.
Note: Inflow shows flow to reservoir only; inflow is frequently diverted for spreading.

THOMPSON CREEK (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 THOMPSON CREEK Dam
On Thompson Creek for the Year Ending September 30, 1941
Drainage Area 3.7 Square Miles. Capacity of Reservoir 812.0 Ac. Ft. at Spillway Elev. 1640.0 Ft.
Continuous Water Stage Recorder None
Gage Heights Read at various times

Day	February Gage Height	February Acre Ft. Storage	February C.F.S. Inflow	February C.F.S. Outflow	March Gage Height	March Acre Ft. Storage	March C.F.S. Inflow	March C.F.S. Outflow
1	1579.4	4.3	0.05	0	1605.7	136.1	11.4	0
2	1579.3	4.2	0.05	0	1607.8	153.7	11.0	0
3	1579.2	4.0	0.05	0	1608.3	158.2	4.5	0
4	1579.1	3.9	0.05	0	1615.4	241.8	45.7	0
5	1579.0	3.7	0	0	1618.8	294.7	31.1	0
6	1579.2	4.0	0.2	0	1618.9	296.4	5.8	0
7	1579.2	4.0	0.1	0	1618.4	288.1	* 0.7	0
8	1579.1	3.9	0.1	0	1617.8	278.3	* 0.3	0
9	1579.1	3.9	0.05	0	1617.3	270.3	0.3	0
10	1579.0	3.7	0.05	0	1616.9	264.0	0.3	0
11	1580.0	5.2	0.9	0	1616.4	256.5	0.3	0
12	1580.1	5.4	0.2	0	1616.7	261.0	6.2	0
13	1580.3	5.7	0.2	0	1619.1	299.7	23.9	0
14	1580.7	6.5	0.5	0	1620.4	322.0	17.5	1.4
15	1581.5	8.1	0.9	0	1620.8	329.0	8.4	0
16	1582.1	9.3	0.8	0	1620.6	325.5	2.9	0
17	1583.0	11.4	1.3	0	1620.3	320.3	* 2.0	0
18	1583.5	12.7	0.8	0	1620.0	315.0	* 1.7	0
19	1585.9	20.2	4.1	0	1619.6	308.2	* 1.2	0
20	1593.9	57.5	19.5	0	1619.3	303.1	1.1	0
21	1598.2	82.8	13.9	0	1618.9	296.4	* 0.6	0
22	1600.6	98.7	9.3	0	1618.5	289.8	* 0.5	0
23	1601.5	105.0	4.6	0	1618.1	283.2	0.1	0
24	1602.1	109.2	3.5	0	1617.6	275.1	* 0.1	0
25	1602.3	110.6	2.2	0	1617.2	268.7	0	0
26	1602.4	111.3	1.8	0	1616.8	262.5	0	0
27	1602.4	111.3	1.5	0	1616.4	256.5	0	0
28	1603.2	117.0	4.5	0	1616.2	253.5	1.7	0
29					1616.7	261.0	7.1	0
30					1616.4	256.5	0.9	0
31					1616.6	259.5	4.8	0
TOTAL			71.2	0			192.1	1.4
Inf. Ac. Ft.			141.2				381.0	
Outf. Ac. Ft.			0 + (28.6)				2.8 + (235.8)	
Maximum Mean Daily Inflow			19.5				45.7	
Minimum Mean Daily Inflow			0				0	
Storage Change			+112.7				+142.5	
REMARKS								

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	1617.0	265.5	6.3	0	1609.5	169.5	* 0.3	0
2	1617.3	270.3	5.8	0	1609.1	165.5	* 0.2	0
3	1617.4	271.9	4.3	0	1608.7	161.8	0.2	0
4	1617.8	278.3	6.6	0	1608.2	157.3	* 0.1	0
5	1618.3	286.5	7.6	0	1607.8	153.7	0.1	0
6	1618.1	283.2	* 1.8	0	1607.4	150.1	0.3	0
7	1617.8	278.3	* 1.0	0	1607.0	146.5	0.3	0
8	1617.5	273.5	* 1.0	0	1606.6	143.3	0.2	0
9	1617.3	270.3	* 1.7	0	1606.2	140.1	0.2	0
10	1617.2	268.7	2.5	0	1605.7	136.1	0.1	0
11	1617.4	271.9	5.1	0	1605.2	132.1	0.1	0
12	1617.0	265.5	0.6	0	1604.8	129.0	0.1	0
13	1616.7	261.0	* 0.6	0	1604.4	126.0	0.1	0
14	1616.3	255.0	0.5	0	1604.1	123.8	0	0
15	1616.0	250.5	0.5	0	1603.7	120.8	0	0
16	1615.7	246.2	* 0.4	0	1603.2	117.0	0	0
17	1615.3	240.4	* 0.4	0	1602.9	114.8	0	0
18	1614.9	234.6	* 0.3	0	1602.5	112.0	0	0
19	1614.5	229.0	* 0.2	0	1602.1	109.2	0	0
20	1614.1	223.4	* 0.1	0	1601.7	106.4	0	0
21	1613.6	216.8	* 0	0	1601.4	104.3	0	0
22	1613.2	211.6	0	0	1600.9	100.8	0	0
23	1612.8	206.6	0	0	1600.6	98.7	0	0
24	1612.4	201.8	0	0	1600.2	95.9	0	0
25	1611.9	195.9	0	0	1599.8	93.2	0	0
26	1611.5	191.3	0	0	1599.4	90.6	0	0
27	1611.0	185.5	0	0	1599.1	88.7	0	0
28	1610.5	180.0	0	0	1598.6	85.4	0	0
29	1610.0	174.5	* 0	0	1598.3	83.5	0	0
30	1609.9	173.5	1.9	0	1597.9	80.9	0	0
31					1597.6	79.1	0	0
TOTAL			49.2	0			2.3	0
Inf. Ac. Ft.			97.6				4.6	640.3
Outf. Ac. Ft.			0 + (183.7)				0 + (99.0)	2.8+(558.8)
Maximum Mean Daily Inflow			7.6				0.3	45.7
Minimum Mean Daily Inflow			0				0	0
Storage Change			-86.0				-94.4	+79.1
REMARKS								⅔ Year

Max. W. S. Elev.	1620.8	feet	on 3/15/41	Storage	329.0	Acre Feet	
Min. W. S. Elev.	Dry	feet	on various times	Storage	0	Acre Feet	
Max. Peak Inf.	97.	C.F.S. from	10:00 p.m. on 3/4/41	to	11:00 p.m. on	3/4/41	
Max. Peak Outf.	4.2	C.F.S. from	9:00 a.m. on 3/14/41	to	4:30 p.m. on	3/14/41	

RECORDS COLLECTED BY		COMPUTATIONS	Date
C.C.Green & H.A.van der Goot	Dam Tender	Gage Hts. copied	A.C.M.
C. L. Brewster	Hydrographer	Storage applied	A.C.M.
	Hydrographer	Inf. & Outf. computed	H.A.V.
		Checked G.H.M.	3/23/42

Gage Heights and Storages as of midnight on date shown.

(= Mean for period.
() = Total monthly evaporation and percolation loss.
* = Entire flow from Palmer Creek and Cobal Creek diverted to Spreading Grounds.

F. C. Dist. Form 68 Revised 600 5/39

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of THOMPSON CREEK Dam
On Thompson Creek for the Year Ending September 30, 1941
Drainage Area 3.7 Square Miles. Capacity of Reservoir 812.0 Ac. Ft. at Spillway Elev. 1640.0 Ft.
Continuous Water Stage Recorder None
Gage Heights Read at various times

Day	June Gage Height	June Acre Ft. Storage	June C.F.S. Inflow	June C.F.S. Outflow	July Gage Height	July Acre Ft. Storage	July C.F.S. Inflow	July C.F.S. Outflow
1	1597.3	77.3	0	0	1589.9	37.1	0	0
2	1596.9	74.9	0	0	1589.8	36.6	0	0
3	1596.6	73.1	0	0	1589.6	35.7	0	0
4	1596.3	71.3	0	0	1589.5	35.3	0	0
5	1596.0	69.5	0	0	1589.3	34.4	0	0
6	1595.7	67.7	0	0	1589.1	33.5	0	0
7	1595.5	66.5	0	0	1588.9	32.6	0	0
8	1595.2	64.7	0	0	1588.7	31.7	0	0
9	1594.9	63.0	0	0	1588.6	31.2	0	0
10	1594.6	61.3	0	0	1588.4	30.3	0	0
11	1594.4	60.2	0	0	1588.2	29.4	0	0
12	1594.1	58.6	0	0	1588.0	28.5	0	0
13	1593.9	57.5	0	0	1587.8	27.7	0	0
14	1593.6	55.8	0	0	1587.7	27.3	0	0
15	1593.3	54.2	0	0	1587.5	26.5	0	0
16	1593.1	53.1	0	0	1587.3	25.7	0	0
17	1592.9	52.0	0	0	1587.2	25.3	0	0
18	1592.7	51.0	0	0	1587.1	24.9	0	0
19	1592.4	49.5	0	0	1586.9	24.1	0	0
20	1592.2	48.5	0	0	1586.7	23.3	0	0
21	1591.9	47.0	0	0	1586.6	22.9	0	0
22	1591.7	46.0	0	0	1586.4	22.1	0	0
23	1591.6	45.5	0	0	1586.3	21.7	0	0
24	1591.4	44.5	0	0	1586.1	20.9	0	0
25	1591.2	43.5	0	0	1585.9	20.2	0	0
26	1590.9	42.0	0	0	1585.8	19.8	0	0
27	1590.7	41.0	0	0	1585.7	19.5	0	0
28	1590.5	40.0	0	0	1585.5	18.8	0	0
29	1590.3	39.0	0	0	1585.4	18.4	0	0
30	1590.1	38.0	0	0	1585.2	17.7	0	0
31					1585.1	17.4	0	0
TOTAL			0	0			0	0
Inf. Ac. Ft.			0				0	
Outf. Ac. Ft.			0 + (41.1)				0 + (20.6)	
Maximum Mean Daily Inflow			0				0	
Minimum Mean Daily Inflow			0				0	
Storage Change			-41.1				-20.6	
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	1584.9	16.7	0	0	1580.9	6.8	0	0
2	1584.8	16.4	0	0	1580.7	6.5	0	0
3	1584.7	16.1	0	0	1580.6	6.3	0	0
4	1584.6	15.8	0	0	1580.5	6.1	0	0
5	1584.4	15.2	0	0	1580.4	5.9	0	0
6	1584.2	14.6	0	0	1580.3	5.7	0	0
7	1584.1	14.3	0	0	1580.2	5.6	0	0
8	1583.9	13.7	0	0	1580.1	5.4	0	0
9	1583.8	13.5	0	0	1579.9	5.1	0	0
10	1583.7	13.2	0	0	1579.8	4.9	0	0
11	1583.5	12.7	0	0	1579.7	4.8	0	0
12	1583.4	12.4	0	0	1579.6	4.6	0	0
13	1583.2	11.9	0	0	1579.5	4.5	0	0
14	1583.1	11.7	0	0	1579.3	4.2	0	0
15	1582.9	11.2	0	0	1579.2	4.0	0	0
16	1582.8	10.9	0	0	1579.1	3.9	0	0
17	1582.7	10.7	0	0	1579.0	3.7	0	0
18	1582.6	10.5	0	0	1578.8	3.5	0	0
19	1582.5	10.3	0	0	1578.7	3.4	0	0
20	1582.3	9.8	0	0	1578.5	3.2	0	0
21	1582.2	9.6	0	0	1578.4	3.0	0	0
22	1582.1	9.3	0	0	1578.3	2.9	0	0
23	1581.9	8.9	0	0	1578.2	2.8	0	0
24	1581.8	8.7	0	0	1578.1	2.7	0	0
25	1581.7	8.5	0	0	1578.0	2.6	0	0
26	1581.6	8.3	0	0	1577.9	2.5	0	0
27	1581.5	8.1	0	0	1577.7	2.3	0	0
28	1581.4	7.8	0	0	1577.6	2.2	0	0
29	1581.3	7.6	0	0	1577.5	2.1	0	0
30	1581.1	7.2	0	0	1577.4	2.1	0	0
31	1581.0	7.0	0	0				
TOTAL			0	0			0	0
Inf. Ac. Ft.			0				0	640.3
Outf. Ac. Ft.			0 + (10.5)				0 + (5.0)	2.8+(636.0)
Maximum Mean Daily Inflow			0				0	45.7
Minimum Mean Daily Inflow			0				0	0
Storage Change			-10.4				-4.9	+2.1
REMARKS								Yearly Totals

Max. W. S. Elev.	1620.8	feet	on 3/15/41	Storage	329.0	Acre Feet	
Min. W. S. Elev.	Dry	feet	on various times	Storage	0	Acre Feet	
Max. Peak Inf.	97.	C.F.S. from	10:00 p.m. on 3/4/41	to	11:00 p.m. on	3/4/41	
Max. Peak Outf.	4.2	C.F.S. from	9:00 a.m. on 3/14/41	to	4:30 p.m. on	3/14/41	

RECORDS COLLECTED BY		COMPUTATIONS	Date
C.C.Green & H.A.van der Goot	Dam Tender	Gage Hts. copied	A.C.M.
C. L. Brewster	Hydrographer	Storage applied	A.C.M.
	Hydrographer	Inf. & Outf. computed	H.A.V.
		Checked G.H.M.	3/23/42

Gage Heights and Storages as of midnight on date shown.

(= Mean for period.
() = Total monthly evaporation and percolation loss.

YEARLY RESERVOIR OPERATION SUMMARY

YEAR	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
BIG DALTON DAM													
1929-30	52.	3.2	1.8	52.			N.D.	4	29	1.8	39.	0	0
1930-31	41.	2.0	0	41.	4	26	3.0	3	11	16.	26.	0	0
1931-32	690.	54.	0	688.	2	9	86.	2	11	134.	261.	0	2.
1932-33	79.	5.	0	81.	1	20	12.	9	22	4.0	63.	0	0
1933-34	448.	93.	0	448.	1	1	227.	1	18	9.5	319.	0	0
1934-35	593.	21.	0	575.	4	8	49.	9	23	6.0	577.	0	* 19.
1935-36	360.	12.	0	369.	2	11	72.	7	29	3.5	353.	7.	9.
1936-37	1879.	51.	0	1868.	2	6	98.	2	16	20.	1007.	8.	20.
1937-38	3271.	415.	0	3192.	3	2	1320.	3	2	739.	1021.	9.	* 16.
1938-39	280.	4.5	0	288.	1	5	26.	7	8	2.7	272.	4.	9.
1939-40	232.	4.	0	237.	1	8	29.	9	11	2.7	230.	4.	4.
1940-41	2767.	56.	+	2748.	3	4	88.	3	5	65.	971.	4.	24.
DEVIL'S GATE DAM													
1921-29	Some storage records available at City of Pasadena Water Dept.												
1929-30	N.D.	N.D.	N.D.	N.D.			N.D.			N.D.	196.	0	0
1930-31	N.D.	N.D.	N.D.	N.D.			N.D.			N.D.	155.	0	* 0
1931-32	N.D.	N.D.	N.D.	N.D.			N.D.			N.D.	1715.	0	0
1932-33	N.D.	N.D.	N.D.	N.D.			N.D.			N.D.	1046.	0	0
1933-34	2938.	757.	0	0	1	1	3310.			0	2310.	0	0
1934-35	3843.	N.D.	0	0	10	17	1310.			0	1128.	0	* 26.
1935-36	3457.	N.D.	0	86.			N.D.	7	2	12.	1450.	2.	6.
1936-37	12030.	340.	0	2818.	2	6	852.	2	18	135.	3310.	6.	156.
1937-38	25436.	3720.	0	17496.	3	2	10840.	3	2	6440.	5465.	0	*331.
1938-39	3044.	200.	0	634.	12	19	201.	12	20	62.	760.	0	488.
1939-40	1350	142.	0	745.	1	8	859.	2	21	74.	959.	0	0
1940-41	27013	1380.	0	24582.	2	20	3870	2	20	3120.	1762.	0	531.
EATON WASH DAM													
1936-37	3062.	112.	0	1502.			N.D.	2	Var.	40.	613.	0	0
1937-38	6993.	883.	0	5213.	3	2	2670.	3	2	2700.	963.	0	* 0
1938-39	340.	51.	0	84.	12	18	169.	12	19	29.	112.	0	62.
1939-40	390.	31.	0	96.	1	8	220.	10	8	13.	149.	0	* 0
1940-41	7323.	188.	0	6089.	2	20	426.	2	20	256.	432.	0	* .1
LIVE OAK DAM													
1931-32	N.D.	N.D.	N.D.	N.D.			N.D.			N.D.	115.	0	0
1932-33	0	0	0	0			0			0	0	0	0
1933-34	N.D.	N.D.	N.D.	142.			N.D.	1	2	9.	160.	0	0
1934-35	27.	2.3	0	9.5	4	8	16.	7	19	.6	26.	0	0
1935-36	33.+	4.1	0	0			N.D.			0	33.	0	* 4.
1936-37	494.	35.	0	413.	2	6	139.	2	6	36.	97.	0	0
1937-38	800.	147.	0	785.	3	2	339.	3	2	200.	217.	0	* 0
1938-39	21.	1.	0	3.	3	2	1.4	9	16	8.	21.	0	0
1939-40	16.	1.2	0	1.	1	8	11.	5	31	10.	16.	0	0
1940-41	719.	39.	0	718.	3	4	90.	3	13	28.	139.	0	0
PACOIMA DAM													
1928-29	N.D.	N.D.	N.D.	N.D.			N.D.			N.D.	1109.	18.	201.
1929-30	1110.	N.D.	N.D.	965.			N.D.			N.D.	756.	40.	40.
1930-31	1082.	N.D.	N.D.	886.			N.D.			N.D.	754.	24.	137.
1931-32	8741.	N.D.	N.D.	8448.			N.D.			N.D.	3589.	33.	311.
1932-33	2160.	101.	0	2119.			N.D.	4	13	81.	1523.	43.	353.
1933-34	3454.	N.D.	N.D.	3493.	1	1	914.	1	26	65.	2002.	48.	62.
1934-35	5569.	84.	0	5556.			N.D.	5	16	92.	3061.	60.	0
1935-36	3098.	88.	0	3094.	2	12	248.	5	13	129.	2500.	0	* 4.
1936-37	15737.	356.	0	14210.	2	14	508.	2	18	250.	5118.	2.	1531.
1937-38	25878.	2360.	0	26796.	3	2	8320.	3	3	2060.	6397.	0	* 0
1938-39	3525.	86.	0	3080.	12	19	145.	1	20	66.	998.	0	445.
1939-40	3209.	156.	0	3133.	1	8	928.	2	4	169.	1698.	158.	521.
1940-41	25785.	536.	0	25942.	3	4	814.	3	5	430.	4342.	232.	364.
PUDDINGSTONE DAM													
1927-28	N.D.	N.D.	N.D.	N.D.			N.D.			N.D.	437.	N.D.	211
1928-29	114.	12.	0	151.			N.D.	10	10	2.0	274.	162.	178.
1929-30	295.	15.	0	223.			N.D.	9	11	4.5	431.	145.	250.
1930-31	73.	8.5	0	119.			N.D.	10	16	2.4	252.	189.	203.
1931-32	1547.	162.	0	1086.			N.D.	Var.	times	9.5	1732.	192.	665.
1932-33	314.	30.	0	906.			N.D.	11	20	6.0	653.	70.	70.
1933-34	2669.	596.	0	1809.			N.D.	Var.	times	6.0	2685.	28.	854.
1934-35	610.	N.D.	N.D.	846.	1	15	205.	Var.	times	6.0	1283.	517.	517.
1935-36	703.	54.	0	969.	4	10	590.	12	26	5.5	943.	250.	250.
1936-37	5732.	303.	0	2173.	2	6	1480.	Var.	times	11.	5838.	147.	3808.
1937-38	12221.	2200.	0	7544.	3	2	5310.	3	18	100.	12881.	3060.	8486.
1938-39	1576.	101.	0	5305.			N.D.	9	4-12	27.	8486.	4626.	4756.
1939-40	646.	54.	0	2524.	1	7	448.	6	19	11.	4756.	2109.	2109.
1940-41	12030.	377.	0	3308.	3	4	1084.	6	10	14.	12739.	1494.	* 9668.

Note: Flow records prior to 1939-40 are not corrected for percolation and evaporation losses.

PUDDINGSTONE-DIVERSION DAM													
1931-32	N.D.	N.D.	N.D.	N.D.			N.D.			N.D.	63.	0	0
1932-33	N.D.	N.D.	N.D.	N.D.			N.D.			N.D.	70.	0	0
1933-34	N.D.	N.D.	N.D.	N.D.			N.D.			N.D.	70.	0	0
1934-35	N.D.	N.D.	N.D.	N.D.			N.D.			N.D.	18.	0	0
1935-36	304.	48.	0	304.	4	10	85.	4	10	1400.	119.	0	* 0
1936-37	3434.	82.	0	3434.			N.D.	3	27	1660.	111.	0	0
1937-38	11194.	1620.	0	11125.	3	2	5760.	3	2	5780.	149.	0	* 8.
1938-39	1288.	28.	0	1293.	1	10	23.	12	19	30.	6.0	0	0
1939-40	350.	26.	0	155.	1	8	33.	2	4	25.	27.	0	* 0
1940-41	7213.	133.	0	6776.	3	14	155.	3	14	154.	30.	0	0

Note: Flow records prior to 1939-40 are not corrected for percolation losses.

YEARLY RESERVOIR OPERATION SUMMARY

YEAR	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
SAN DIMAS DAM													
1927-28	N.D.	N.D.	N.D.	N.D.			N.D.			N.D.	249.	0	0
1928-29	N.D.	N.D.	0	N.D.			N.D.			N.D.	486.	0	9.0
1929-30	591.	28.	0	573.			N.D.			N.D.	535.	0	27.
1930-31	485.	23.	0	466.			N.D.			N.D.	217.	21.	46.
1931-32	2502.	162.	0	2496.			N.D.	2	10	69.	775.	25.	51.
1932-33	652.	50.	0	648.			N.D.	1	24	17.	269.	21.	56.
1933-34	1351.	229.	0	1357.	1	1	422.	1	4	120.	500.	39.	50.
1934-35	1753.	60.	0	1682.	4	8	145.	Var. times		14.	1184.	48.	121.
1935-36	1094.	35.	0	1136.	2	11	155.	4	10	135.	696.	32.	* 32.
1936-37	6316.	154.	0	6126.	2	6	296.	2	7	127.	1301.	27.	* 222.
1937-38	12492.	1600.	0.4	12494.	3	2	4920.	3	2	4690.	1704.	0	* 0
1938-39	2165.	43.	0.2	2024.	1	5	81.	12	19	24.	560.	0	141.
1939-40	1532.	60.	0	1600.	1	8	302.	2	4	36.	778.	23.	* 68.
1940-41	9645.	131.	0.1	9240.	3	4	235.	Var. times		145.	1171.	13.	* 473.
SAN GABRIEL No. 1													
1937-38	339155.°	30720.	37.	332893.°	3	2	89320.	3	2	56700.	58600.	0	* 53.
1938-39	67231.	1330	23.	61655.	12	19	2780	5	11	3050.	5793.	48.	5793.
1939-40	58553.	757.	18.	63386.	1	8	2270.	4	16	4200.	12146.	349.	* 373.
1940-41	306801.	3940.	20.	305515.	2	20	5780.	3	3	6300	43386.	248.	* 248.
° Record begins 11-17-37													
SAN GABRIEL No. 2													
1934-35	3517.°	54.	0.1	3517.°			N.D.	4	14	55.	780.	0	0
1935-36	7154.	265.	0	7138.			N.D.	2	17	43.	2866.	0	16.
1936-37	32986.	943.	0.1	32996.	2	14	1240.	2	14	752.	10611.	0	5.
1937-38	60336.	7990.	1.4	58799.	3	2	24710.	3	2	23430.	14091.	0	* 16.
1938-39	11560.	673.	0.9	11369.	9	25	1360.	9	25	1160.	2141.	0	20.
1939-40	9634.	309.	0.8	9569.	1	8	2020.	1	15	1240.	1541.	0	* 3.
1940-41	61270.	1400.	0.5	59951.	2	20	1640.	2	20	1160.	9847.	2.7	*1321.
° Record begins 4-18-35													
SAWPIT DAM													
1927-28	26.°	N.D.	0	39.°			N.D.			N.D.	66.	N.D.	27.
1928-29	**96.	5.5	0	**108.			N.D.			N.D.	91.	0	16.
1929-30	**219.	8.0	0	**209.			N.D.	9	30	3.1	195.	0	11.
1930-31	**97.	3.9	0	** 68.			N.D.	5	16	3.0	87.	0	29.
1931-32	710.	56.	0	726.	2	9	76.	2	17	16.	234.	12.	12.
1932-33	184.	8.5	0	185.			N.D.	1	27	7.0	112.	0	0
1933-34	468.	106.	0	457.	1	1	240.	1	1	136.	156.	0	0
1934-35	548.	36.	0	540.	4	8	168.	12	15	25.	146.	0	0
1935-36	574.	22.	0	574.	2	11	72.	2	15	22.	91.	0	* 0
1936-37	1434.	36.	0	1401.			N.D.	2	14	34.	93.	0	33.
1937-38	2909.	384.	0	2868.	3	2	1070.	3	2	665.	447.	0	* 0
1938-39	232.	17.	0	170.			N.D.	9	25	16.	61.	0	58.
1939-40	264.	11.	0	308.	1	8	39.	1	7	20.	62.	15.	15.
1940-41	2180.	63.	0	2195.	3	4	109.	3	5	59.	114.	0	* 0
° Record begins 3-5-28													
BIG SANTA ANITA DAM													
1926-27	1208.°	13.	0.4	1030.°			N.D.			N.D.	668.	147.	312.
1927-28	1009.	22.	0.1	1182.			N.D.			N.D.	244.	0	97.
1928-29	1214.	30.	0	1256.			N.D.			N.D.	630.	11.	94.
1929-30	1276.	25.	0.1	964.			N.D.			N.D.	711.	9.	302.
1930-31	989.	34.	0	1155.			N.D.			N.D.	316.	25.	87.
1931-32	4010.	236.	0.1	3883.			N.D.	12	28	112.	614.	20.	130.
1932-33	2190.	152.	0.1	2022.	1	19	390.±	1	22	34.	805.	58.	414.
1933-34	2603.	322.	0	2622.	1	1	800.±	1	1	400.	695.	54.	231.
1934-35	3693.	92.	0.1	3585.	4	8	449.	4	8	146.	763.	18.	340.
1935-36	2480.	84.	0	2537.	2	12	228.	2	17-19	52.	686.	33.	* 265.
1936-37	8799.	192.	0	8616.	2	6	313.	2	14-15	140.	1022.	108.	448.
1937-38	16594.	1780.	1.3	16689.	3	2	5140.	3	2	5070.	1202.	0	* 0
1938-39	2726.	74.	0.4	2461.	12	19	159.	9	26	50.	435.	0	* 265.
1939-40	2743.	62.	0.4	2664.	1	8	378.	2	4	73.	573.	0	* 312.
1940-41	15224.	239.	0.4	15235.	3	4	300.±	Var. times		260.	512.	0	302.
° Record begins 3-31-27. Flow records prior to 1932-33 taken from gaging station records.													
THOMPSON CREEK													
1931-32	80.+	N.D.	N.D.	80.+	2	9	91.	2	8	5.	62.	0	0
1932-33	0	0	0	0			0			0	0	0	0
1933-34	114.+	N.D.	N.D.	0			N.D.			0	112.	0	* 0
1934-35	1.+	N.D.	N.D.	0			N.D.			0	1.	0	0
1935-36	1.+	N.D.	N.D.	0			N.D.			0	1.	0	0
1936-37	274.+	24.	0	0			N.D.			0	204.	0	0
1937-38	1099.	259.	0	872.5	3	2	580.	3	3	120.	632.	0	4.
1938-39	21	.6	0	0	1	30	1.1			0	8.	0	0
1939-40	49.	4.5	0	0	1	7	26.			0	20.	0	0
1940-41	640.	46.	0	2.8	3	4	97.	3	14	4.2	329.	0	2.1
BIG TUJUNGA DAM													
1930-31	N.D.	N.D.	N.D.	N.D.			N.D.			N.D.	239.	43.	156.
1931-32	N.D.	N.D.	N.D.	N.D.			N.D.			N.D.	4908.	156.	798.
1932-33	4342.	218.	0	4518.			N.D.	1	20	35.	3252.	337.	622.
1933-34	4441.	994.	0	4234.	1	1	2430.	7	17-18	21.	4510.	167.	829.
1934-35	11992.	380.	0	10698.	4	8	718.	4	8	540.	6249.	648.	2122.
1935-36	3875.	131.	0	5509.	2	12	312.	2	17	52.	2661.	189.	488.
1936-37	26969.	803.	0.6	25729.	2	6	1740.	2	15	366.	6266.	188.	1728.
1937-38	64855	12030.	1.0	65022.	3	2	32940.	3	2	32600.	7719.	0	* 0
1938-39	9905.	327.	1.2	9106	12	19	666.	12	23	424.	2343.	0	* 8.
1939-40	7058.	337.	0.4	7197.	1	8	2302.	1	8	747.	2277.	0	* 717.
1940-41	59402.	1200.	0.9	59086.	3	4	1570.	2	21	1560.+	2313.	+	*1033.

Note: Outflows show valve release only, percolation losses are not shown.

N.D. Not Determined, due to insufficient records.

* Storage corrected for debris loss.

** Records incomplete for year.

GROUND WATER

&

CONSERVATION

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Hydraulic Division

CONSERVATION AND GROUND WATER

Season 1940-41

Foreword:

Conservation implies not only the saving of flood waters by introducing them into the ground instead of permitting them to waste in 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 regulating 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) close coordination of flood control and conservation measures; (2) intensive geologic and hydrologic studies of streams and ground water basins; and (3) 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.

The abnormally high rainfall of the 1940-41 season (about 200% of the long-time mean) resulted in abnormally high water levels in some parts of the county and in a greater accumulation of shallow perched water in other parts. The Conservation and Ground Water Section therefore directed its efforts during the season not only to a study of the basins requiring artificial replenishment and the means of securing such replenishment, but also to a study of the drainage problems which arose in certain places.

Nature and Characteristics of Ground Water Basins:

There are 26 ground water basins in the county. In general they are bed rock depressions, filled with alluvium, and separated one from another by natural barriers or dikes. The barriers are bed rock ridges or faults. Some are visible surface features, others are buried.

The water in the basins is contained in the pore spaces of the alluvium. In most of the basins the water is free and its surface (the water table) is found at the same elevation in wells as in the ground. In some basins, however, the water is confined beneath impervious strata in the alluvium; and the elevation at which it is found in wells (pressure surface) is generally much higher than the stratum containing the water - the elevation to which it rises depending on the pressure or "head" upon it.

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 1940-41, data on about 1025 wells were thus gathered in October, 1940 and again in April, 1941. Seventy-five of these (designated as Key Wells, see Map III) 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 1940-41 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 are included herein as Maps IV to IX inclusive.

Key Well Hydrographs:

Key Wells are those in which the fluctuations are representative of the general fluctuations 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 262 to 267).

Ground Water Fluctuations:

A summary of water table or pressure surface changes in the several basins is given on Page 255. The figures shown for the period Fall '39 to Fall '40 indicate the replenishment or depletion of the unconfined ground water aquifers and the pressure changes of the confined aquifers. Similar figures shown for Fall '40 to Spring '41 represent storage or pressure changes during the rainy season. These latter figures are not indications of the replenishment or depletion which will occur during the entire water year. These indications are least indicative for those basins which are fed principally by underflow.

Ground Water Replenishment:

Replenishment of unconfined aquifers results from: (1) rainfall penetration, (2) influent seepage from channel flows, (3) underflow from adjacent basins, and (4) percolation of water spread on suitable off-channel lands.

Confined aquifers are not subject to storage change because they are always kept full by percolation from their intake areas to replace the water extracted from them. However, raising the water tables in the intake or feeder areas has the effect of exerting a greater head on the confined aquifers and thus raises their pressure surfaces.

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 1940-41 season is shown on Pages 257 to 260.

A tabulation of the runoff that reached the ocean during the past fourteen years is given on Page 260. 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 increase 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 1940-41 season 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 coastal area. In general, only partial analyses of these samples were made; that is, only the carbonate, bicarbonate and chloride content were determined. About 635 such analyses were made in the District's laboratory.

Responsibility:

All the work relative to water conservation and ground water was done under the immediate supervision of Mr. L. W. Jordan

Appendix:

Summary of Water Table or Pressure Surface Changes
(Water level changes in the various basins are determined from the average of several wells, except in a few small basins where but one well is available.)

San Fernando Valley	Fall of '39 to Fall of '40	Fall of '40 to Spring of '41
1. Main part	-8.	+6.5
2. Sylmar	+1.	+6.
3. Pacoima	-1.5	+11.
4. Tujunga	-2.5	+10.
5. Verdugo	-5.	+15.5

Appendix: (Continued)

San Gabriel Valley	Fall of '39 to Fall of '40	Fall of '40 to Spring of '41
1. Main Basin	-4.5	+33.
2. Monk Hill	-6.5	+28.
3. Pasadena	-1.5	+4.
4. Santa Anita	-16.	+38.
5. Canyon	(a)	(a)
6. Glendora	-15.	+19.5
7. Way Hill	-5.5	+25.
8. San Dimas	+8.	+12.
9. Foothill	-9.	+40.5
10. Puente	+1.5	+12.
Pomona Valley (b)		
1. Upper Claremont	0	+176.
2. Lower Claremont	-42.	+70.
3. Live Oak	+14.	+82.
4. Pomona	+3.5	+16.
5. Chino	-17. (c)	+13. (c)
Coastal Plain		
1. Western area		
(a) Northern Part	(d)	(d)
(b) Southern Part	-1.	+2.
2. Hollywood area	-1.5	+5.5
3. Central area		
(a) Forebay area	-3.4	+16.5
(b) Pressure area	-3.to +2.(e)	+6.to +37. (e)

Notes:

(a) This basin is replenished in part each year by spreading.

(b) Water from San Antonio Creek is spread during the rainy season in the Upper Claremont Basin. Each basin downstream is replenished in turn by underflow from the basin above it. Under these conditions the ground water levels do not change simultaneously in all the basins. Consequently, the figures given do not necessarily represent storage change as generally indicated by the Fall water levels, and neither do they represent seasonal changes as generally represented by the Spring water levels.

(c) This change was local in the northwest part of the basin and does not represent the general fluctuation of the water table in the large Chino basin.

(d) Seasonal changes are very small in this section. However, a local cone of depression, resulting from continuous pumping, was drawn down to an elevation of approximately 100 feet below sea level in the Fall of 1940, about 5 feet lower than in the Fall of 1939. (In the 1939-40 Report it was stated that incomplete data indicated that water levels were somewhat higher in the Fall of 1939 than in the Fall of 1938. This was subsequently disproved, the water level having actually receded slightly.)

Appendix: (Continued)

Notes: (Continued)

(e) These figures represent pressure changes as measured in feet.

Conservation from Influent Seepage in Channels, or by Diversions for Use.

Releases from reservoirs regulated to percolating capacity of channels and spreading grounds. Percolating capacity of channels maintained by scarifying.

I. 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 in Channel or Used-A.F.
1940-41	26,430	6,360	9,760	10,310

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.
1940-41	83,220	15,790	67,430

Note: Hansen Dam percolation (Mouth of Big Tujunga and Little Tujunga to Hansen Dam)---6218 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.
1940-41	6,090	2,510	3,580

Appendix: (Continued)

4. Santa Anita Wash from dam to Arrow Highway.

Absorptive Capacity: approximately 40 c.f.s. to 100 c.f.s.

Amount Conserved.

Year	Release A.F.	Excess of Release over Channel Capacity-A.F.	Conserved or Used-A.F.
1940-41	15,240	3,550	11,690

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.
1940-41	2840	710	2,130

6. San Gabriel River and Rio Hondo from Morris Dam to Florence Avenue and Stewart and Grey Road respectively (excluding tributaries and Rising Water)

Absorptive Capacity varies with water table elevation and magnitude of releases. Due to large quantity of canyon flows and lack of intense storms the channel percolation in these streams was essentially the same as would have occurred without the presence of the reservoirs.

Amount Conserved.

Year	Release-A.F.	Excess of Release over Channel and Sprdg. Grds. Capacity-A.F.	San Gabriel Cn. Water Conserved in Coastal Basin Sprdg.Grds.A.F.	Conserved in Channels
1940-41	223,440	38,920	14,510	170,010

Distribution of Channel Percolation

Year	Canyon Basin A. F.	Main Basin A.F.	Coastal Basin A.F.	Total A. F.
1940-41	3,380	100,300	66,330	170,010

Appendix: (Continued)

7. San Dimas Wash from Mouth of Canyon to Glendora Avenue.

Absorptive Capacity: 7 c.f.s.

Amount Conserved.

Total Flow (a) U.S.G.S.	*Percolation Mouth of Canyon to Pudd. Div.Dam	Percolation in Pudd.Div. Reservoir	Percolation from Pudd.Div.Dam to Glendora Ave.	Diversion to Pudd. Div.Channel
9,970 A.F.	2,760 A.F.	440 A.F.	620 A. F.	6,150 A.F.

Total Percolation and use - 3,820 A.F.

* Includes diversion by San Dimas Water Co.

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.
1940-41	720	210	510

9. Thompson Creek

Year	Inflow A.F.	Conserved in reservoir
1940-41	640	640

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 seasons 1936-37 and 1937-38.

The following tabulation gives the quantities spread in the District, for the 1940-41 season.

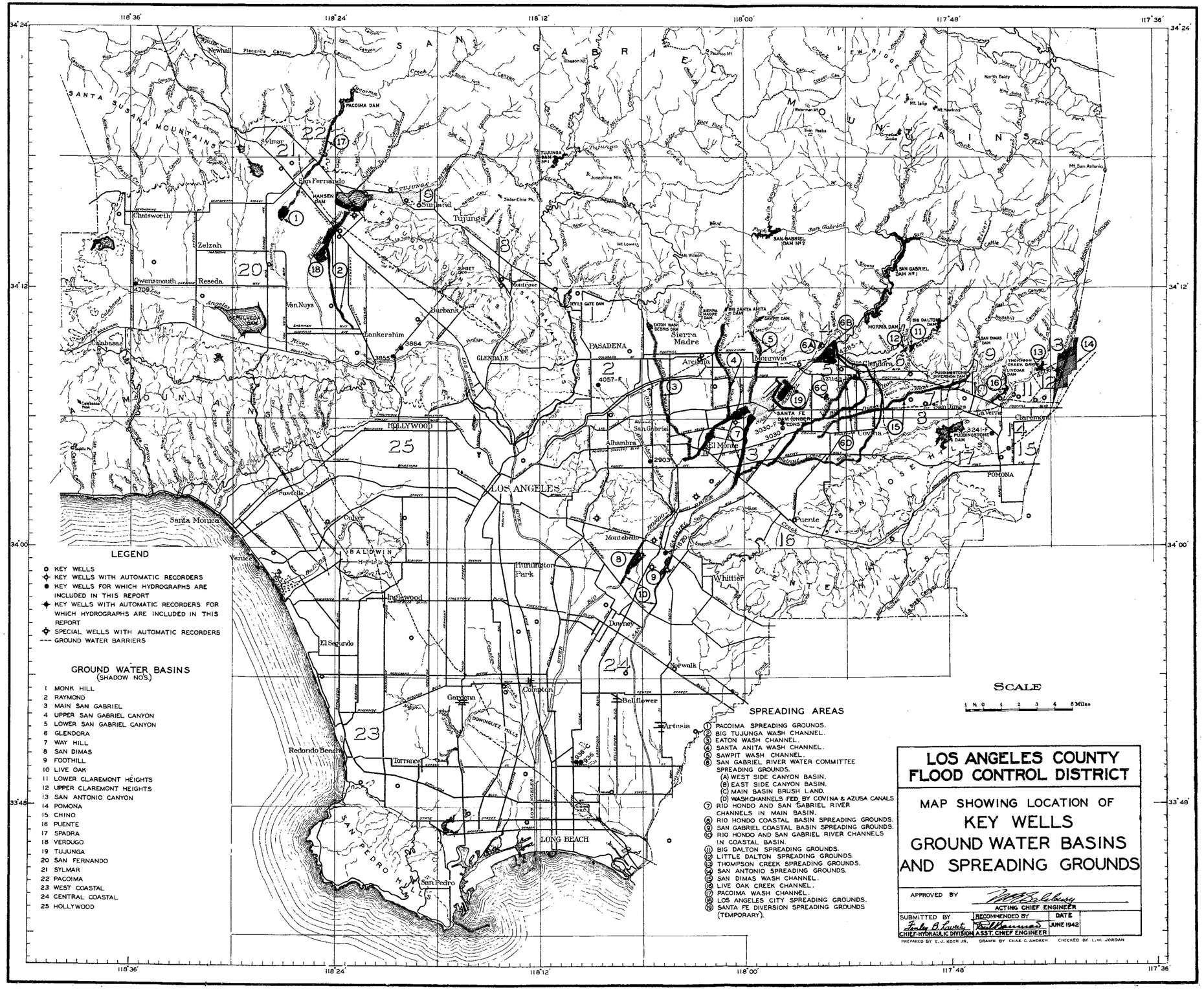
	Spreading Grounds		Acre Feet
1.	Pacoima		9760
2.	Rio Hondo Coastal Basin		9840
3.	San Gabriel River Coastal Basin		4680
4.	San Gabriel River Water Committee In Canyon Basin		
	(a) West side	8750	
	(b) East side	36870	45620

Appendix: (Continued)

Spreading Grounds (Cont'd)		Acre Feet
In Main Basin		
(a) Covina Canal	4820	
(b) Azusa Canal	6600	
(c) Brush Land	1880	
		13300
5. Little Dalton		1260
6. Big Dalton		1530
7. Thompson Creek		560
8. San Antonio		26630
Total		113180

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



LEGEND

- KEY WELLS
- KEY WELLS WITH AUTOMATIC RECORDERS
- KEY WELLS FOR WHICH HYDROGRAPHS ARE INCLUDED IN THIS REPORT
- KEY WELLS WITH AUTOMATIC RECORDERS FOR WHICH HYDROGRAPHS ARE INCLUDED IN THIS REPORT
- SPECIAL WELLS WITH AUTOMATIC RECORDERS
- GROUND WATER BARRIERS

GROUND WATER BASINS
(SHADOW NOS.)

1. MONK HILL
2. RAYMOND
3. MAIN SAN GABRIEL
4. UPPER SAN GABRIEL CANYON
5. LOWER SAN GABRIEL CANYON
6. GLENDORA
7. WAY HILL
8. SAN DIMAS
9. FOOTHILL
10. LIVE OAK
11. LOWER CLAREMONT HEIGHTS
12. UPPER CLAREMONT HEIGHTS
13. SAN ANTONIO CANYON
14. POMONA
15. CHINO
16. PUENTE
17. SPADRA
18. VERDUGO
19. TUJUNGA
20. SAN FERNANDO
21. SYLMAR
22. PACOIMA
23. WEST COASTAL
24. CENTRAL COASTAL
25. HOLLYWOOD

SPREADING AREAS

1. PACOIMA SPREADING GROUNDS.
2. BIG TUJUNGA WASH CHANNEL.
3. EATON WASH CHANNEL.
4. SANTA ANITA WASH CHANNEL.
5. SAWPIT WASH CHANNEL.
6. SAN GABRIEL RIVER WATER COMMITTEE SPREADING GROUNDS.
   - (A) WEST SIDE CANYON BASIN.
   - (B) EAST SIDE CANYON BASIN.
   - (C) MAIN BASIN BRUSH LAND.
   - (D) WASH CHANNELS FED BY COVINA & AZUSA CANALS
7. RIO HONDO AND SAN GABRIEL RIVER CHANNELS IN MAIN BASIN.
8. RIO HONDO COASTAL BASIN SPREADING GROUNDS.
9. SAN GABRIEL COASTAL BASIN SPREADING GROUNDS.
10. RIO HONDO AND SAN GABRIEL RIVER CHANNELS IN COASTAL BASIN.
11. BIG DALTON SPREADING GROUNDS.
12. LITTLE DALTON SPREADING GROUNDS.
13. THOMPSON CREEK SPREADING GROUNDS.
14. SAN ANTONIO SPREADING GROUNDS.
15. SAN DIMAS WASH CHANNEL.
16. LIVE OAK CREEK CHANNEL.
17. PACOIMA WASH CHANNEL.
18. LOS ANGELES CITY SPREADING GROUNDS.
19. SANTA FE 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

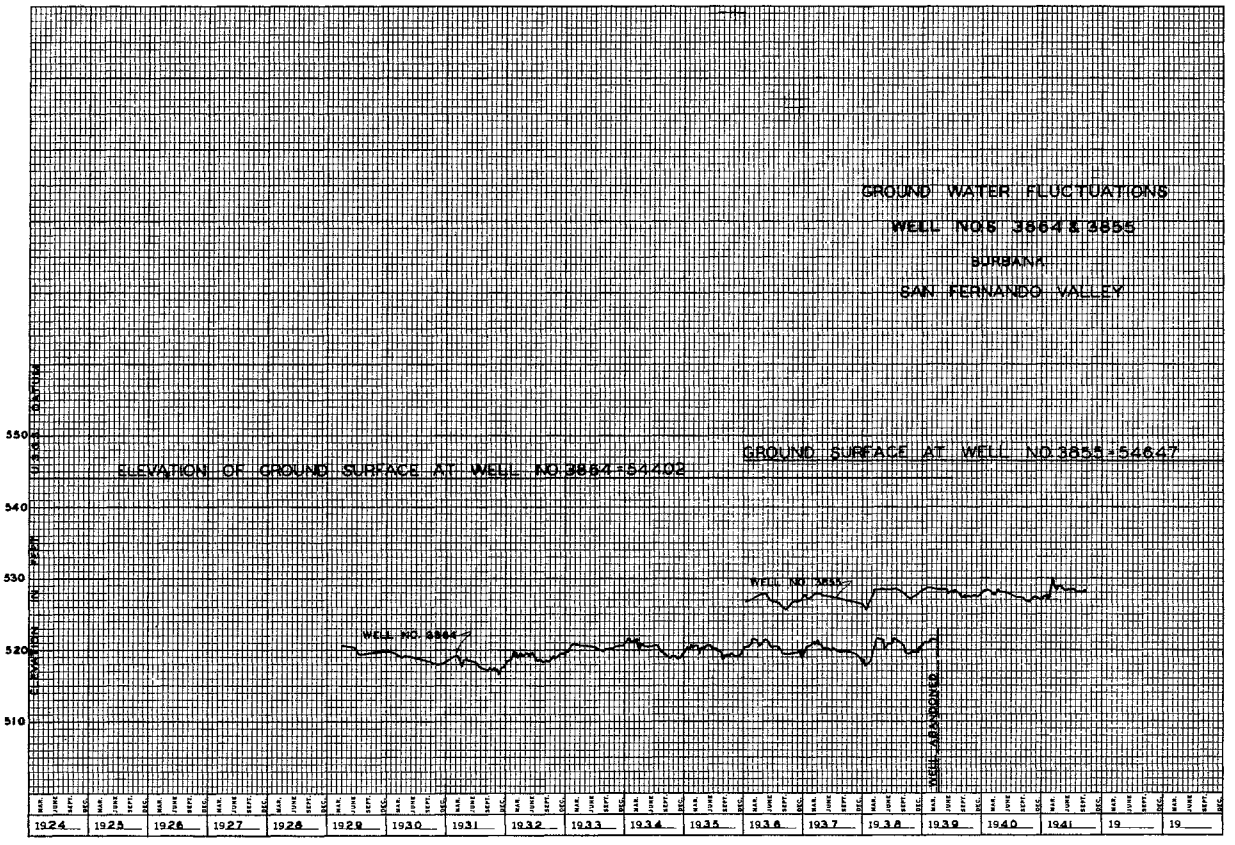
SUBMITTED BY
CHIEF HYDRAULIC DIVISION

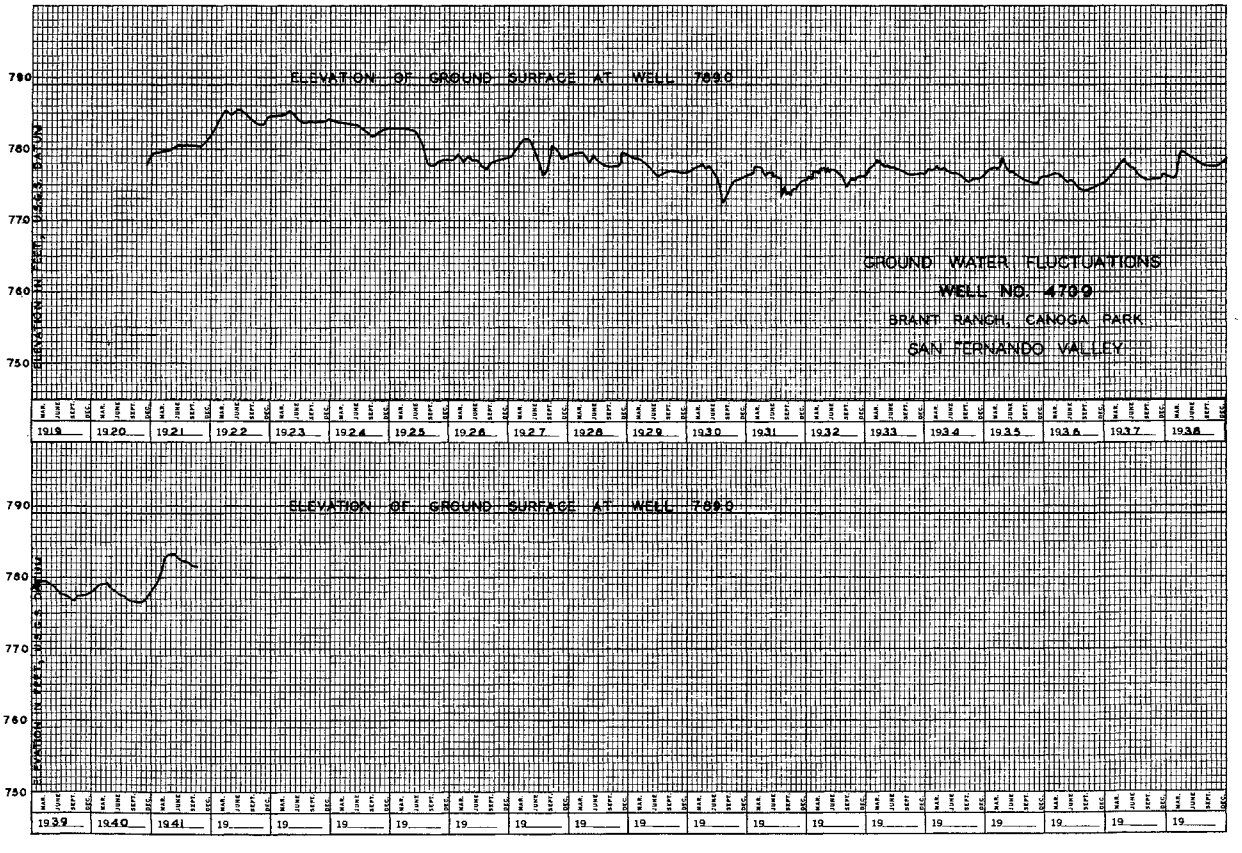
RECOMMENDED BY
ASST. CHIEF ENGINEER

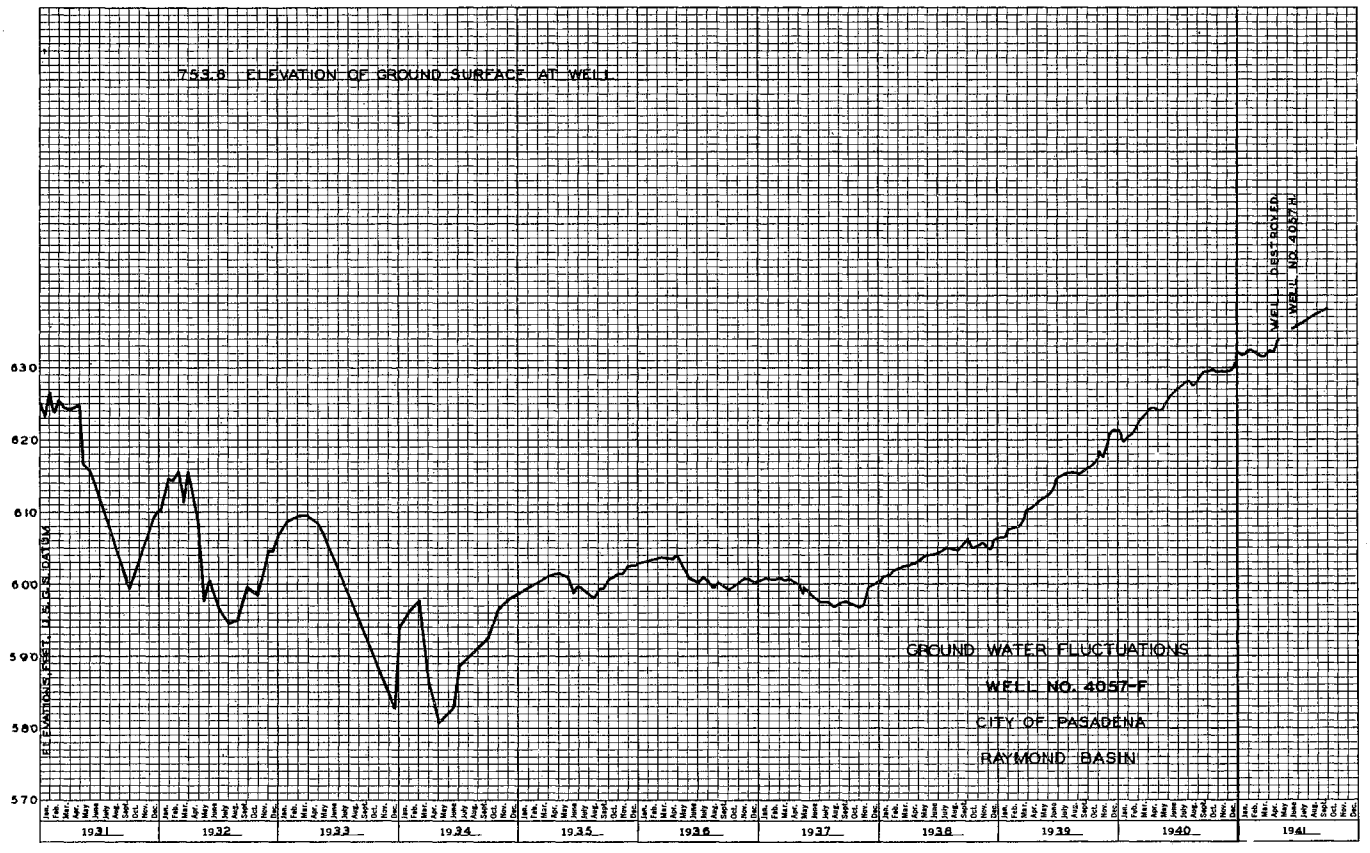
DATE
JUNE 1942

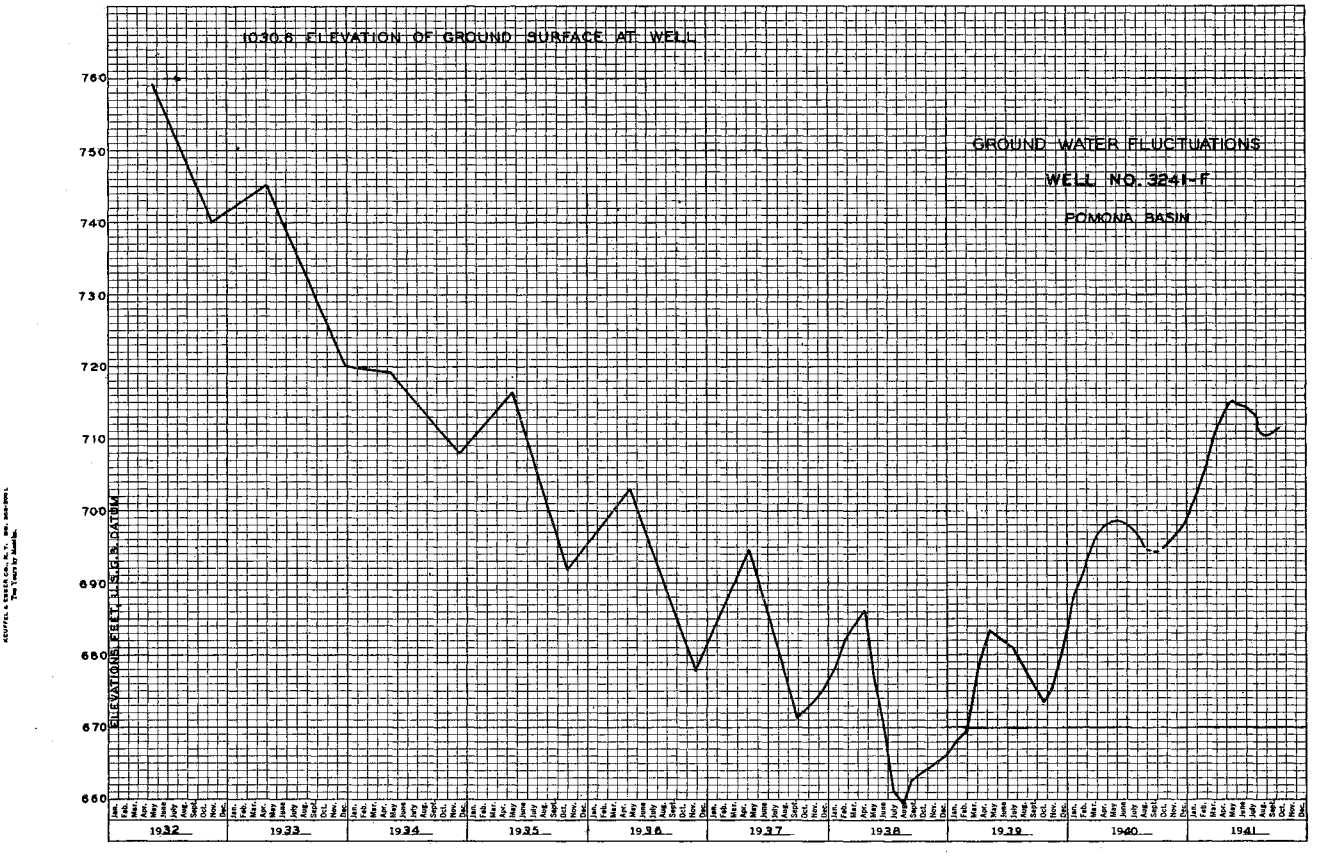
PREPARED BY E.J. KOCH JR. DRAWN BY CHAS. C. AHDREM CHECKED BY L.W. JORDAN

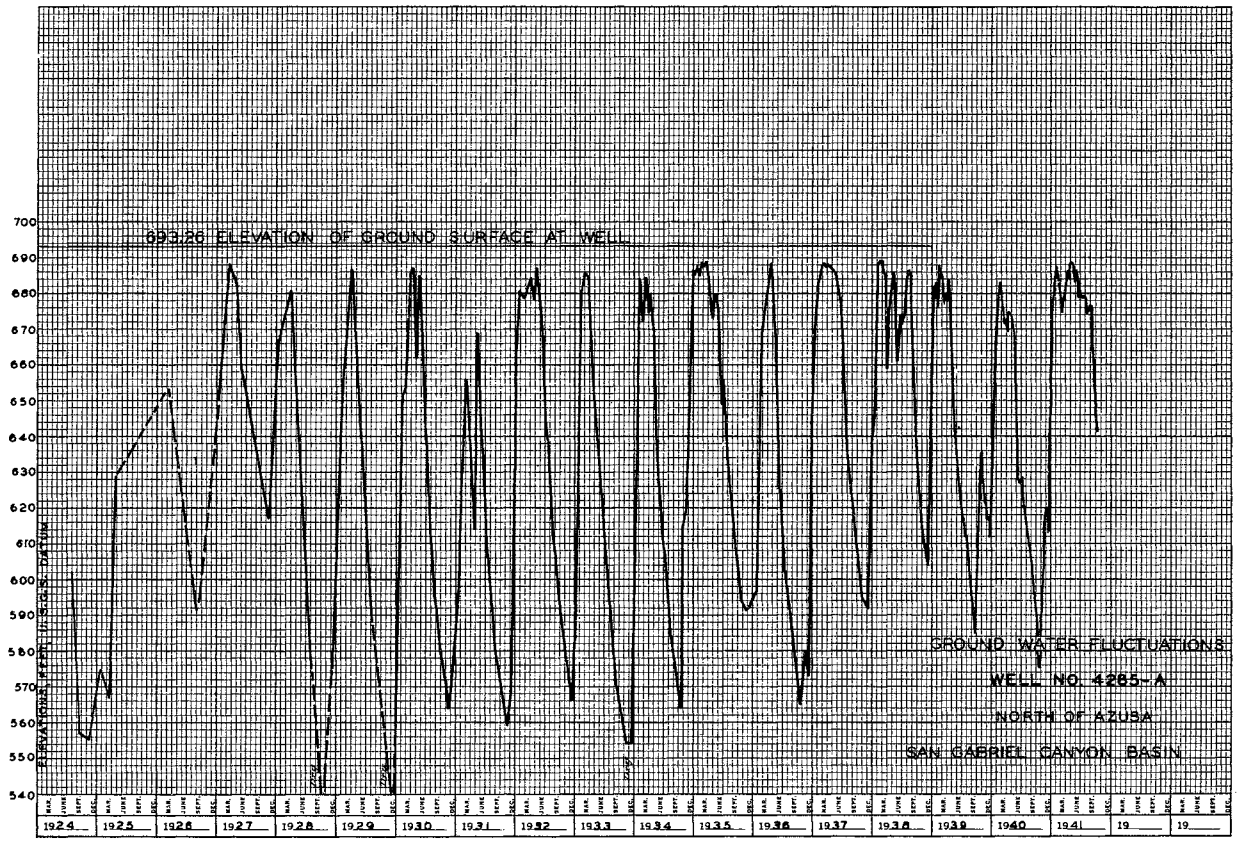
MAP III

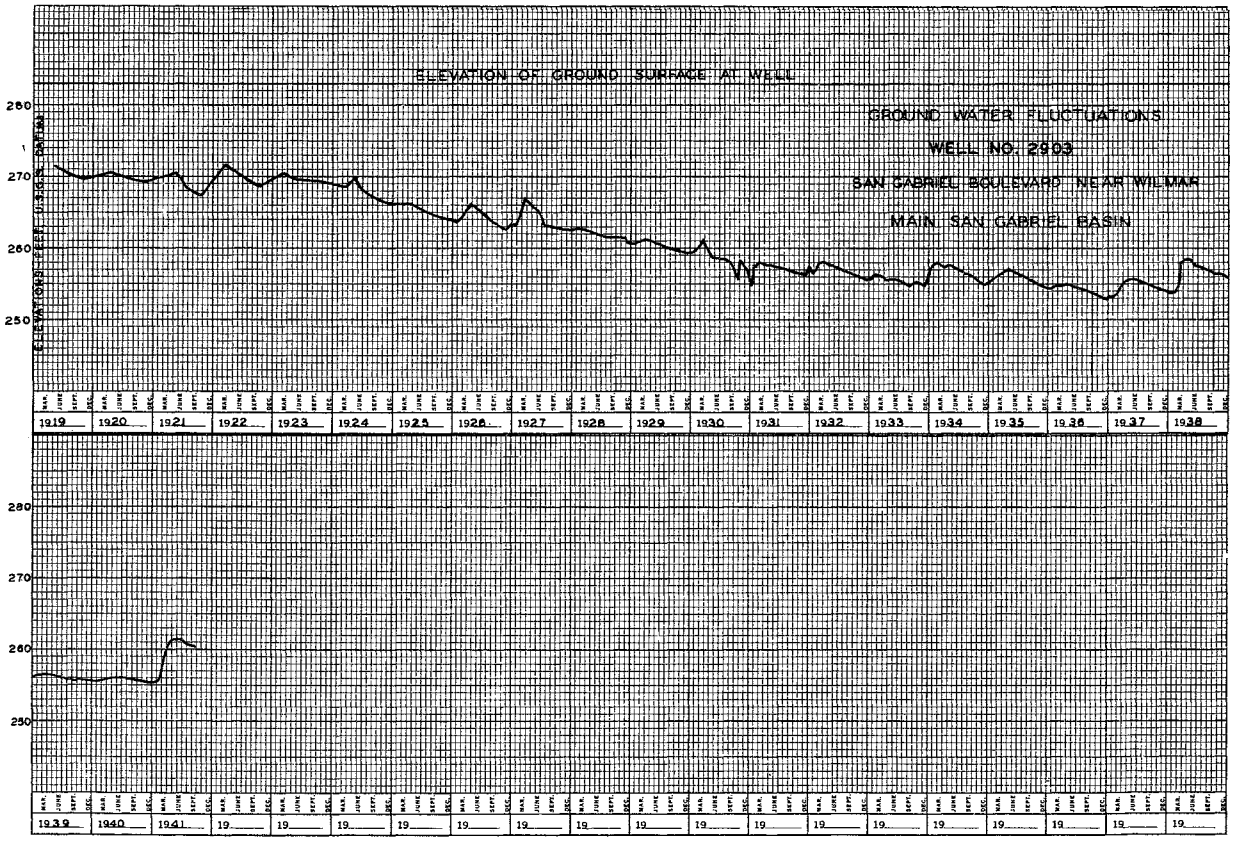

GROUND WATER FLUCTUATIONS
WELL NOS 3864 & 3855
BURBANK
SAN FERNANDO VALLEY
ELEVATION OF GROUND SURFACE AT WELL NO 3864 = 544.02
GROUND SURFACE AT WELL NO 3855 = 546.47
WELL NO. 3855
WELL NO. 3864
ELEVATION IN FEET ABOVE DATUM
550
540
530
520
510
1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 19 19

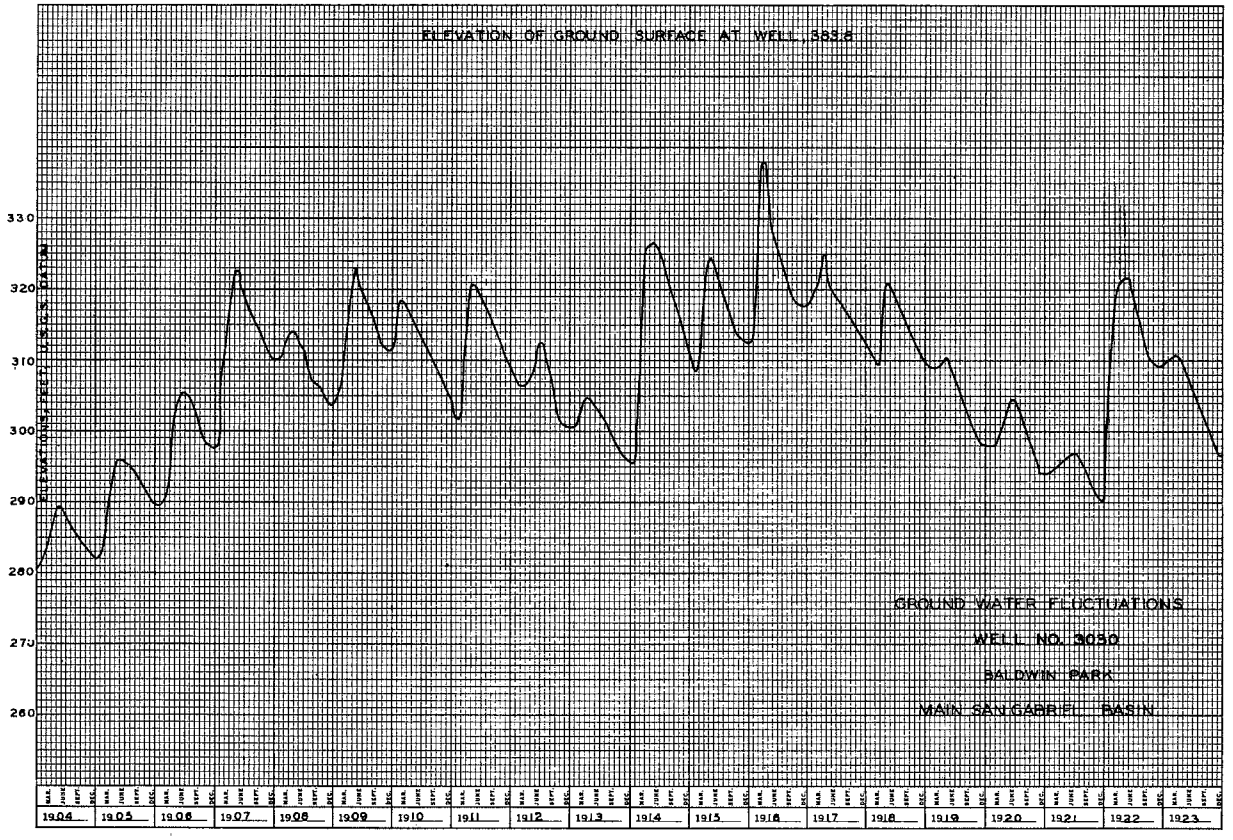

ELEVATION OF GROUND SURFACE AT WELL 7899
GROUND WATER FLUCTUATIONS
WELL NO. 4799
BRANT RANCH, CANOGA PARK
SAN FERNANDO VALLEY
ELEVATION IN FEET ABOVE U.S.G.S. DATUM
790
780
770
760
750
1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938
ELEVATION OF GROUND SURFACE AT WELL 7899
1939 1940 1941 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19

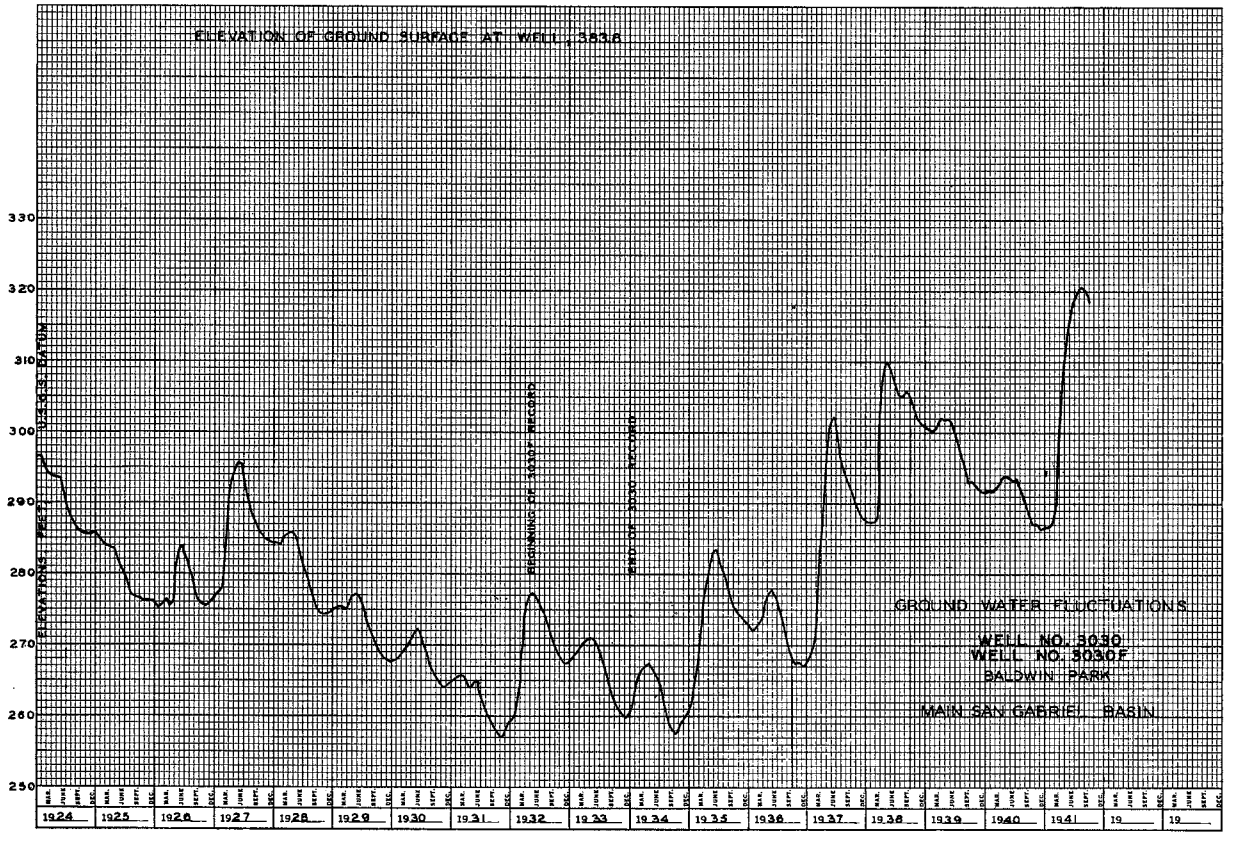

755.8 ELEVATION OF GROUND SURFACE AT WELL
ELEVATIONS, FEET, U.S.G.S. DATUM
630
620
610
600
590
580
570
WELL DESTROYED
WELL NO. 4057-H
GROUND WATER FLUCTUATIONS
WELL NO. 4057-F
CITY OF PASADENA
RAYMOND BASIN
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941

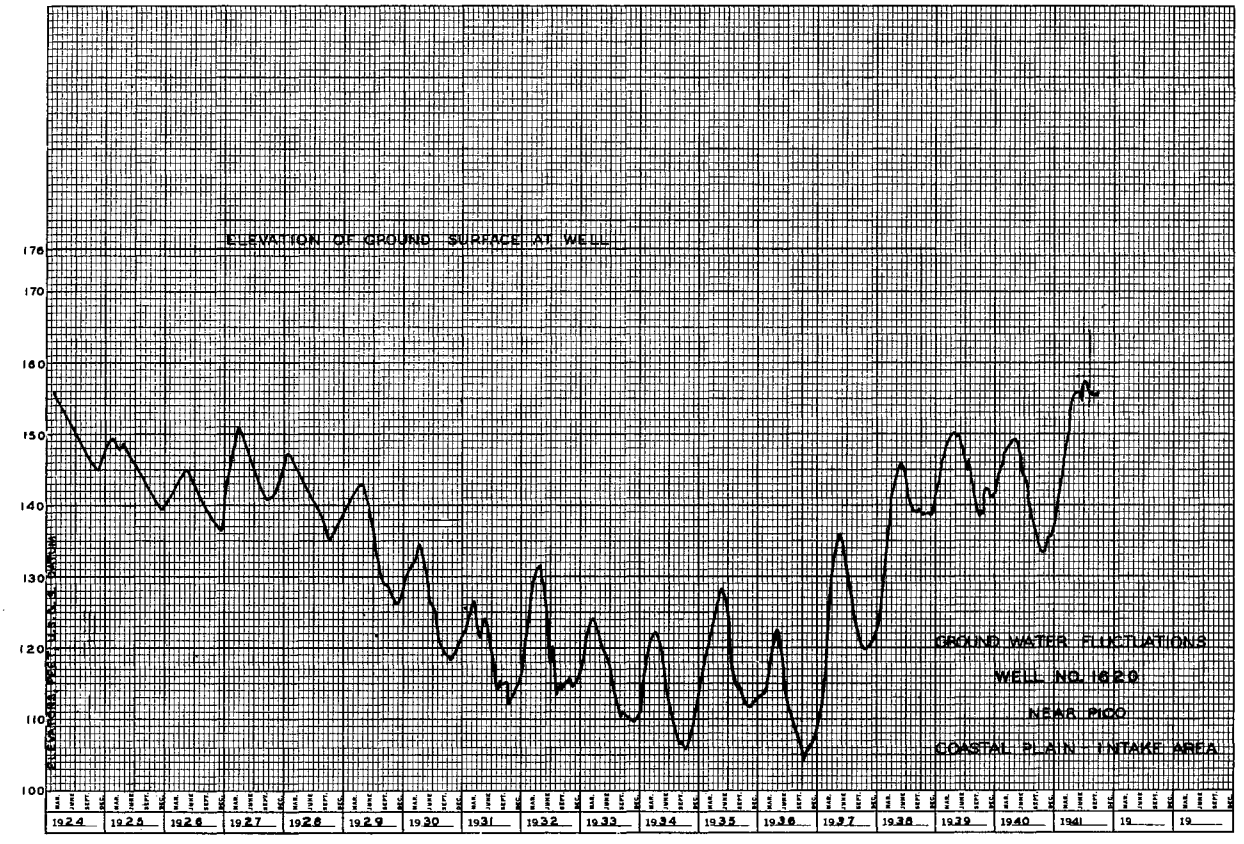

1030.6 ELEVATION OF GROUND SURFACE AT WELL
ELEVATIONS, FEET, U.S.G.S. DATUM
760
750
740
730
720
710
700
690
680
670
660
GROUND WATER FLUCTUATIONS
WELL NO. 3241-f
POMONA BASIN
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941

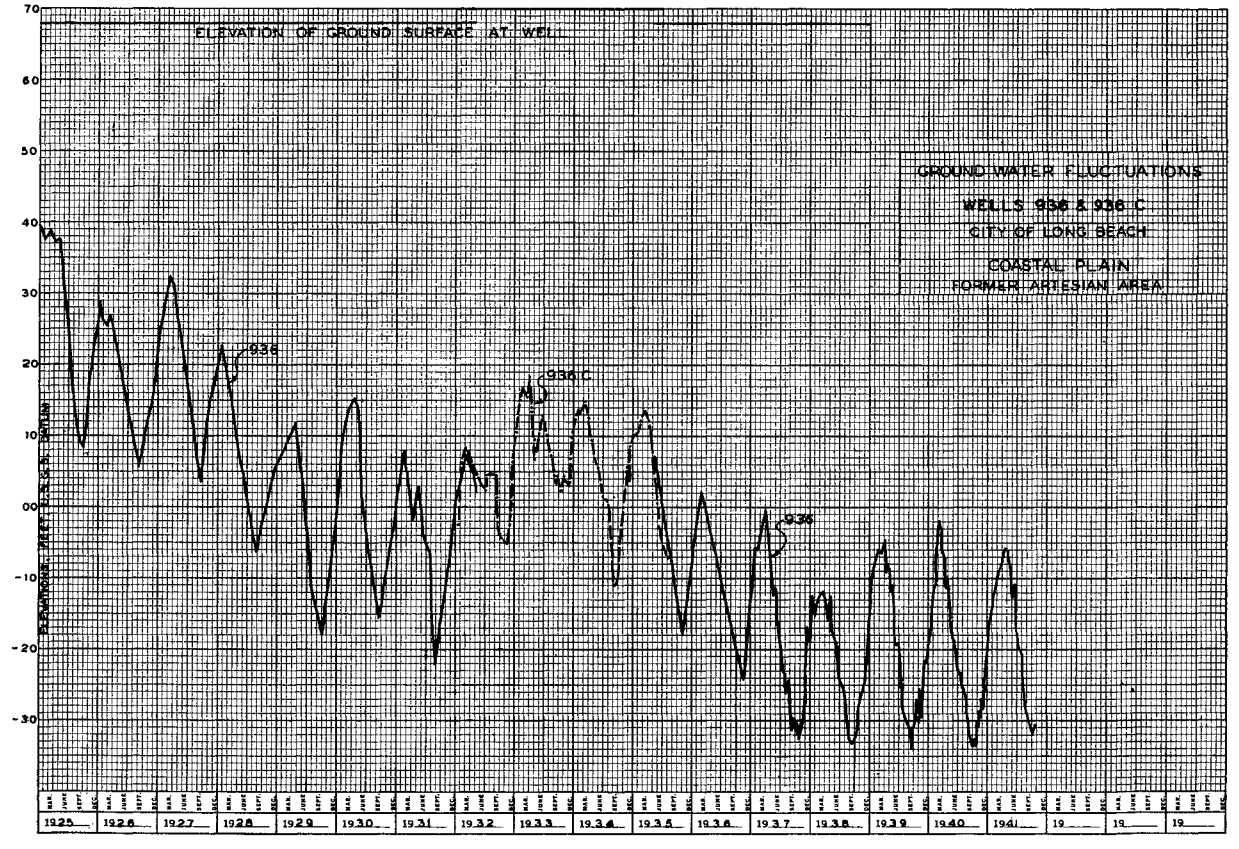

693.26 ELEVATION OF GROUND SURFACE AT WELL
ELEVATIONS IN FEET U.S.G.S. DATUM
700
690
680
670
660
650
640
630
620
610
600
590
580
570
560
550
540
GROUND WATER FLUCTUATIONS
WELL NO. 4285-A
NORTH OF AZUSA
SAN GABRIEL CANYON BASIN
1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 19 19

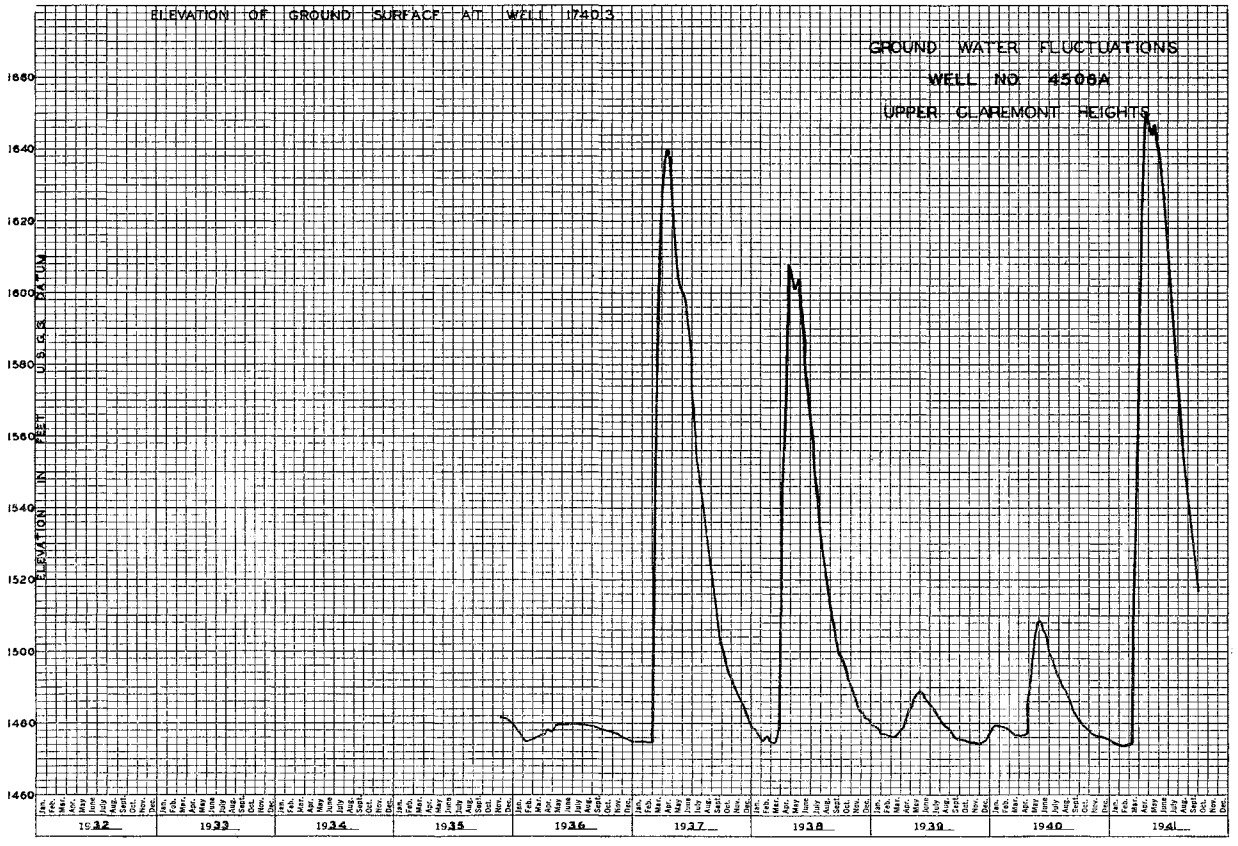

ELEVATION OF GROUND SURFACE AT WELL
ELEVATIONS IN FEET U.S.G.S. DATUM
280
270
260
250
GROUND WATER FLUCTUATIONS
WELL NO. 2903
SAN GABRIEL BOULEVARD NEAR WILMAR
MAIN SAN GABRIEL BASIN
1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938
280
270
260
250
1939 1940 1941 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19 19

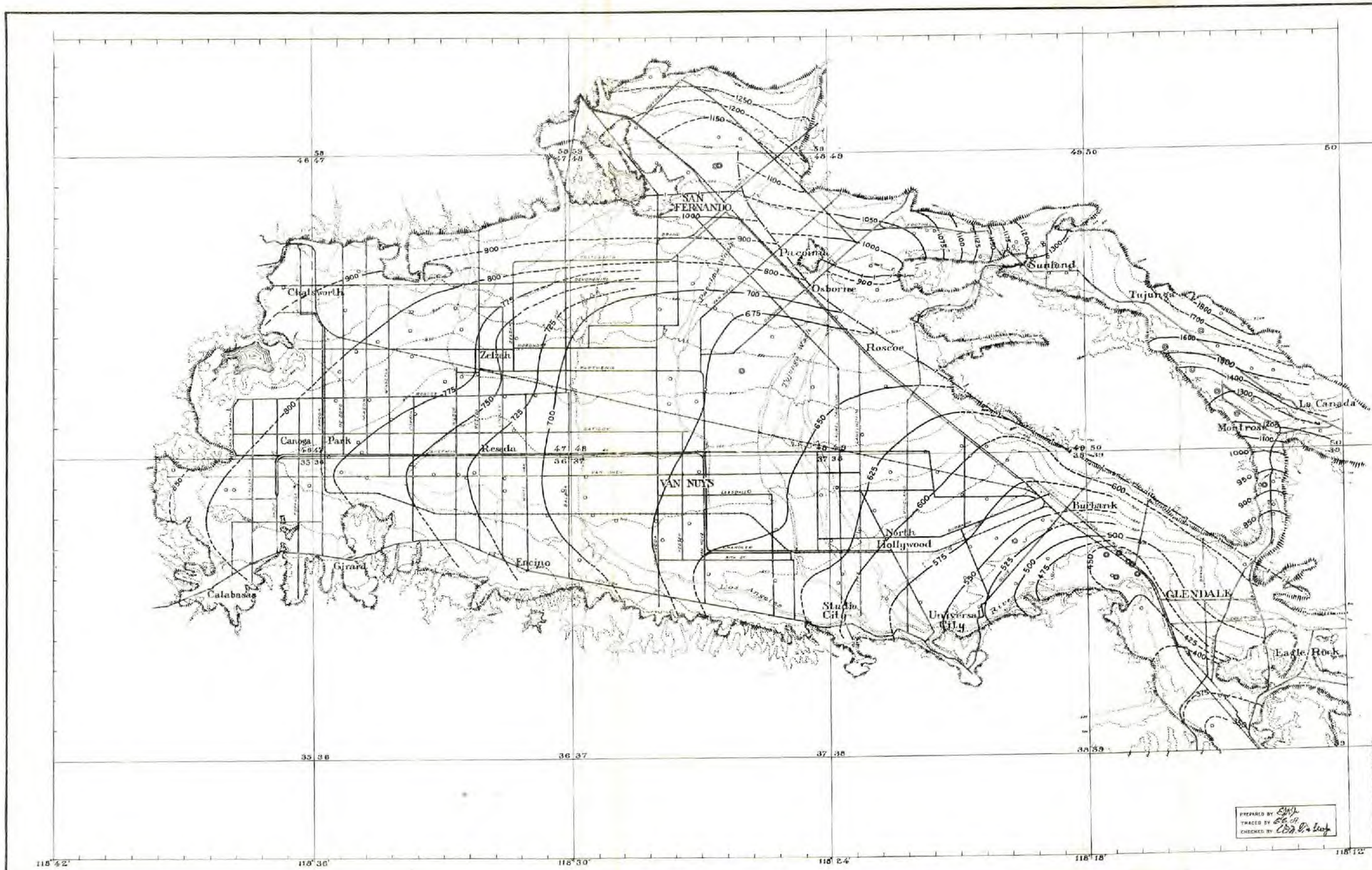

ELEVATION OF GROUND SURFACE AT WELL 3838
ELEVATIONS IN FEET U.S.C.G.S. DATUM
330
320
310
300
290
280
270
260
GROUND WATER FLUCTUATIONS
WELL NO. 3030
BALDWIN PARK
MAIN SAN GABRIEL BASIN
1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923


ELEVATION OF GROUND SURFACE AT WELL 3838
ELEVATIONS IN FEET U.S.C.G.S. DATUM
330
320
310
300
290
280
270
260
250
BEGINNING OF 3030F RECORD
END OF 3030 RECORD
GROUND WATER FLUCTUATIONS
WELL NO. 3030
WELL NO. 3030F
BALDWIN PARK
MAIN SAN GABRIEL BASIN
1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 19 19


ELEVATION OF GROUND SURFACE AT WELL
ELEVATION FEET ABOVE U.S.C.G.S. DATUM
176
170
160
150
140
130
120
110
100
GROUND WATER FLUCTUATIONS
WELL NO. 1620
NEAR PICO
COASTAL PLAIN INTAKE AREA
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
19
19


ELEVATION OF GROUND SURFACE AT WELL
ELEVATION FEET ABOVE U.S.C.G.S. DATUM
70
60
50
40
30
20
10
00
-10
-20
-30
936
936 C
936
GROUND WATER FLUCTUATIONS
WELLS 936 & 936 C
CITY OF LONG BEACH
COASTAL PLAIN
FORMER ARTESIAN AREA
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
19
19
19


ELEVATION OF GROUND SURFACE AT WELL 1740.3
GROUND WATER FLUCTUATIONS
WELL NO. 4508A
UPPER CLAREMONT HEIGHTS
ELEVATION IN FEET U.S.G.S. DATUM
1660
1640
1620
1600
1580
1560
1540
1520
1500
1480
1460
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941



LEGEND

- Wells representative of average ground water elevations, with comparable depth of hole, chemical analysis of water, and elevation of perforations.
- Wells as above, except under heavy draught, or affected by heavy draught on nearby wells.
- Wells which differ from average wells for various reasons, such as artesian characteristics, damaged casing, surface inflow, insufficient data, and erratic fluctuations of water in well.
- Wells of shallow depth, with perched water indications.
- Wells of deep water strata not related to those of average wells.

Lines of equal static ground water levels or of equal pressures

Ditto,- location approximate

Faults and other barriers to free ground water movement.

Surface Contours

Scale in Miles

REVISIONS		
MARK	DATE	DESCRIPTION

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

SAN FERNANDO VALLEY
GROUND WATER CONTOURS
NOVEMBER 1940

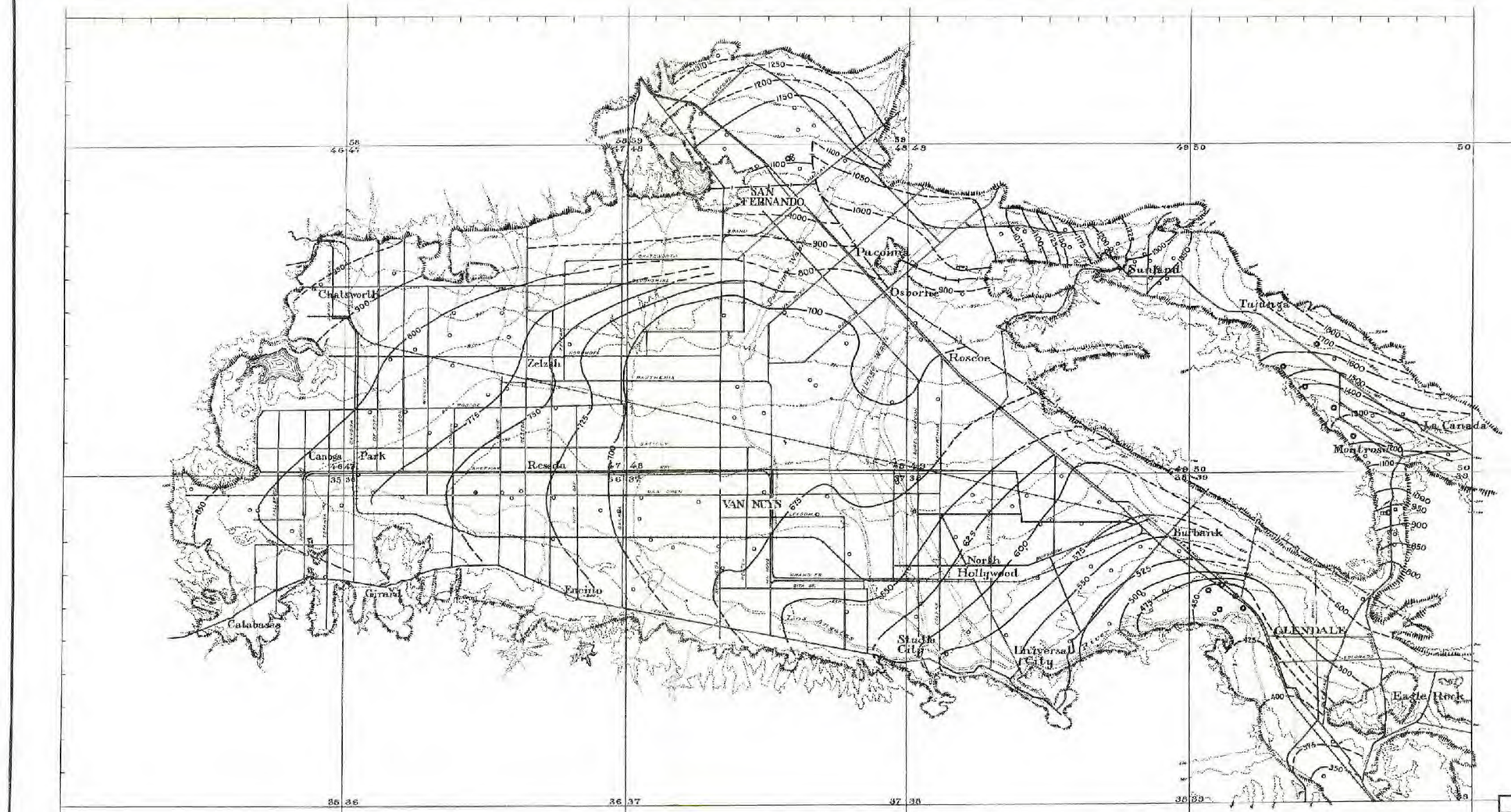
APPROVED BY ... CHIEF ENGINEER

SUBMITTED BY ... CHIEF HYDRAULIC DIVISION

RECOMMENDED BY ... ASST. CHIEF ENGINEER

SCALE AS SHOWN | DATE JANUARY 1942 | NO. 19-H24 SHEET OF

MAP IV



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.

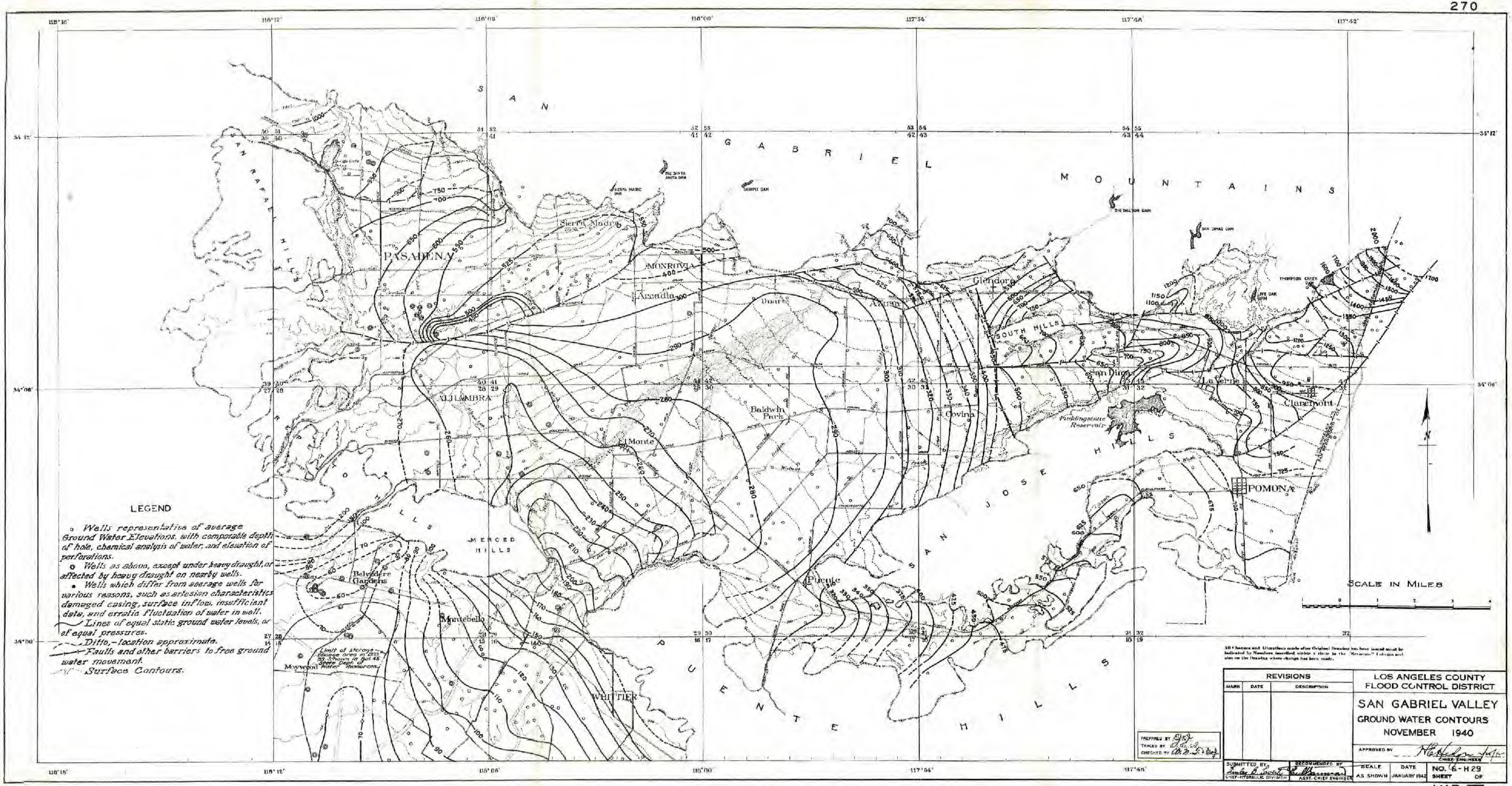
Surface Contours

Scale in Miles

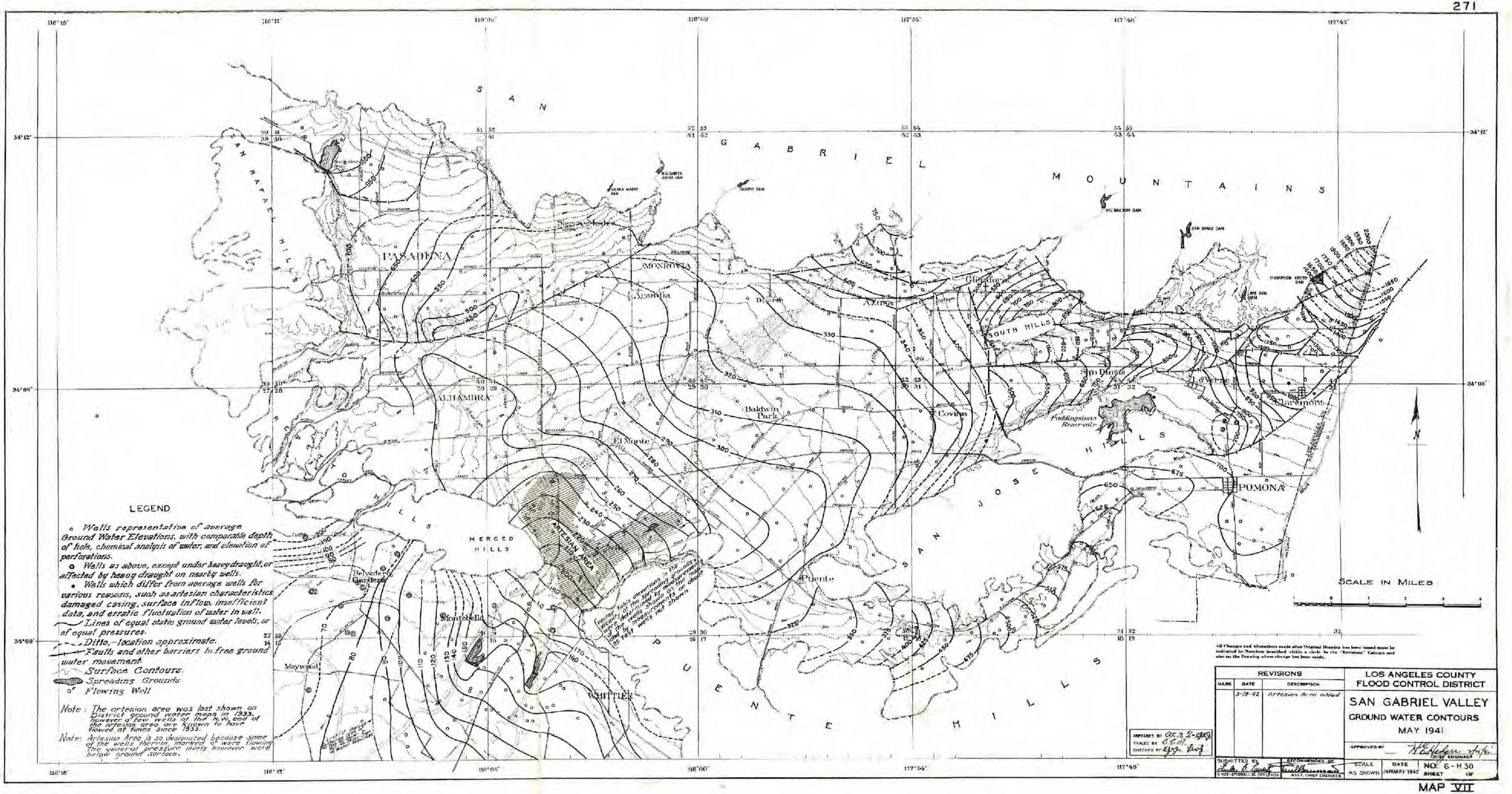
PREPARED BY: E.M.G.
TRACED BY: H.F.H.
CHECKED BY: Ch. M. Dr. Engr.

REVISIONS			LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
MARK	DATE	DESCRIPTION	SAN FERNANDO VALLEY GROUND WATER CONTOURS APRIL – MAY 1941
			APPROVED BY: Chief Engineer
SUBMITTED BY: Engineer, Public Division	RECOMMENDED BY: Asst. Chief Engineer	SCALE: As Shown	DATE: JAN. 1942	NO. 19-H25 SHEET OF

MAP V


SAN GABRIEL MOUNTAINS
SAN RAFAEL HILLS
REPETTO HILLS
MERCED HILLS
PUENTE HILLS
SAN JOSE HILLS
SOUTH HILLS
PASADENA
Sierra Madre
MONROVIA
Arcadia
Duarte
Azusa
Glendora
San Dimas
La Verne
Claremont
ALHAMBRA
El Monte
Baldwin Park
Covina
Puddingstone Reservoir
POMONA
Belvedere Gardens
Montebello
Maywood
WHITTIER
Puente
Puente
BIG SANTA ANITA DAM
SAWPIT DAM
SAN DIMAS DAM
THOMPSON CREEK
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.
SCALE IN MILES
REVISIONS
MARK
DATE
DESCRIPTION
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
SAN GABRIEL VALLEY
GROUND WATER CONTOURS
NOVEMBER 1940
APPROVED BY
CHIEF ENGINEER
SUBMITTED BY
CHIEF-HYDRAULIC DIVISION
RECOMMENDED BY
ASST. CHIEF ENGINEER
SCALE
AS SHOWN
DATE
JANUARY 1942
NO. B-H 29
SHEET
OF
PREPARED BY
TRACED BY
CHECKED BY

MAP VI


SAN GABRIEL MOUNTAINS
SAN RAFAEL HILLS
PASADENA
Sierra Madre
MONROVIA
Arcadia
Duarte
Azusa
Glendora
SOUTH HILLS
San Dimas
La Verne
Claremont
ALHAMBRA
Baldwin Park
Covina
El Monte
Puddingstone Reservoir
POMONA
SAN JOSE HILLS
MERCED HILLS
ARTESIAN AREA
Belvedere Gardens
Montebello
Maywood
WHITTIER
Puente
PUENTE HILLS
SCALE IN MILES
LEGEND
Wells representative of average Ground Water Elevations, with comparable depth of hole, chemical analysis of water, and elevation of perforations.
Wells as above, except under heavy draught, or affected by heavy draught on nearby wells.
Wells which differ from average wells for various reasons, such as artesian characteristics, damaged casing, surface inflow, insufficient data, and erratic fluctuation of water in well.
Lines of equal static ground water levels, or of equal pressures.
Ditto, – location approximate.
Faults and other barriers to free ground water movement.
Surface Contours.
Spreading Grounds
Flowing Well
Note: The artesian area was last shown on District ground water maps in 1933, however a few wells of the N.W. end of the artesian area are known to have flowed at times since 1933.
Note: Artesian Area is so designated because some of the wells therein, marked ○ 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
MAY 1941
PREPARED BY
TRACED BY
CHECKED BY
APPROVED BY
CHIEF ENGINEER
SUBMITTED BY
CHIEF-HYDRAULIC DIVISION
RECOMMENDED BY
ASS'T. CHIEF ENGINEER
SCALE AS SHOWN
DATE JANUARY 1942
NO. 6-H 30
SHEET OF

MAP VII

All Changes and Alterations made after Original Drawing has been issued must be indicated by Numbers inscribed within a circle in the "Revisions" Column and also on the Drawing where change has been made.

REVISIONS		
MARK	DATE	DESCRIPTION

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

COASTAL PLAIN
GROUND WATER CONTOURS
NOVEMBER 1940

PREPARED BY [illegible]
TRACED BY [illegible]
CHECKED BY [illegible]

APPROVED BY _____ CHIEF ENGINEER

SUBMITTED BY _____ CHIEF HYDRAULIC DIVISION

RECOMMENDED BY _____ ASST. CHIEF ENGINEER

SCALE AS SHOWN | DATE JANUARY 1942 | NO. C-H52 | SHEET OF

MAP VIII

SANTA MONICA MOUNTAINS

LOS ANGELES

BALDWIN HILLS

PUENTE HILLS

DOMINGUEZ HILLS

SAN PEDRO HILLS

ARTESIAN AREA

SAN PEDRO BAY

ORANGE COUNTY

Beverly Hills
Culver City
Palms
SANTA MONICA
Venice
Vernon
Maywood
HUNTINGTON PARK
Belvedere Gardens
Montebello
WHITTIER
El Monte
South Gate
INGLEWOOD
WATTS
Downey
Santa Fe Springs
Lynwood
Athens
Hawthorne
El Segundo
Norwalk
COMPTON
Clearwater
Gardena
Manhattan Beach
Hermosa Beach
Redondo Beach
Torrance
Harbor City
Wilmington
LONG BEACH
SAN PEDRO
Bellflower
Artesia
Virginia City
SIGNAL HILL

Limit of storage change area of 1938 as shown in Bul. 45 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 at about 25 test wells not shown.

34°00'
33°54'
33°48'
118° 00'
118° 06'
118° 12'
118° 18'

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

Spreading Grounds

of Flowing Well

Note: Artesian Area is so designated because some of the wells th[illegible] of, were flowing. The general pressure levels however were below ground [illegible]

All Changes and Alterations made after Original Drawing has been issued must be indicated by Numbers inscribed within a circle in the "Revisions" Columns and also on the Drawing where changes are been made.

REVISIONS			LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
MARK	DATE	DESCRIPTION	COASTAL PLAIN GROUND WATER CONTOURS MAY 1941
	3-11-42	ARTESIAN AREA ADDED.	

PREPARED BY [illegible]
TRACED BY [illegible]
CHECKED BY [illegible]

APPROVED BY [illegible] CHIEF ENGINEER

SUBMITTED BY [illegible] CHIEF HYDRAULIC DIVISION

RECOMMENDED BY [illegible] ASST. CHIEF ENGINEER

SCALE AS SHOWN | DATE JANUARY 1942 | NO. 2-H 53 | SHEET OF

MAP IX