LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

BIENNIAL REPORT
ON
HYDROLOGIC DATA

SEASONS OF 1947-48 AND 1948-49

JUNE 1, 1950

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

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

HYDRAULIC DIVISION

REPORT TO H. E. HEDGER, CHIEF ENGINEER

BIENNIAL REPORT

ON

HYDROLOGIC DATA

SEASONS 1947-48 AND 1948-49

PAUL BAUMANN, ASSISTANT CHIEF ENGINEER
FINLEY B. LAVERTY, CHIEF - HYDRAULIC DIVISION

JUNE 1, 1950

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

LOS ANGELES 17, CALIFORNIA

H. E. HEDGER
CHIEF ENGINEER

751 SOUTH FIGUEROA STREET
ROOM 403

June 1, 1950

FILE NO. 2-20
SUBJECT Biennial Report on Hydrologic Data Seasons of 1947-48 and 1948-49

All Districts

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

Gentlemen:

There is transmitted herewith for your files the Los Angeles County Flood Control District's Biennial Report on Hydrologic Data for the Seasons of 1947-48 and 1948-49. This report is the seventeenth of a series of annual or biennial reports which have been published covering twenty-two 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 water 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 overestimated, due to its widespread use by the District and also by an ever increasing number of interested public and private agencies and individuals.

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

Yours truly,

H. E. Hedger

H. E. Hedger, Chief Engineer

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

Los Angeles County Flood Control District
Hydraulic Division

June 1, 1950

2-20
Biennial Report on
Hydrologic Data
Seasons of 1947-48
and 1948-49

Mr. H. E. Hedger
Chief Engineer
Los Angeles County
Flood Control District
Los Angeles 17, California

Dear Mr. Hedger:

Transmitted herewith is the "Biennial Report on Hydrologic Data" for the seasons 1947-48 and 1948-49. This report includes data collected and compiled by the Hydraulic Division of the District, which are presented as follows:

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

Precipitation records include the monthly records of 440 stations in 1947-48 and 470 stations in 1948-49, of which 97% and 94%, respectively, furnished complete seasonal records. Three hundred eighteen stations have a continuous record for fifteen years or longer, of which 23 stations have a continuous record for over fifty years.

Intensity records were obtained from 112 recording rain gages. Comparative intensities of rainfall for periods varying from five minutes to 24 hours and including storm totals and maximum intensities of record for ten representative stations are included in this report.

The rainfall for the seasons 1947-48 and 1948-49 was 51% and 57% of normal, respectively, for the County. No major storms were experienced, although 18 storms occurred in 1947-48, and 25 in 1948-49. The drought which began January 1947 continued on through the 1948-49 season, resulting in the driest 33-month period during the 77 years of record at Los Angeles.

Seasonal rainfall distribution throughout the County is shown by the following relation to the 75-year normal indices for four areas of the County:

	% of Normal 1947-48	1948-49
1. San Gabriel Mt. Area	51	57
2. Valley and Coastal Plain	48	56
3. Santa Monica Mts.	48	53
4. Desert Area	54	57

Seasonal amounts of snowfall for three mountain locations are also included in this report. The depths of snowfall ranged from 65 to 186 inches at the various locations. The greatest depth was measured at Big Pines Recreation Camp.

Evaporation records were received each month from 23 stations in 1947-48 and 22 stations in 1948-49. Amounts varied from a maximum of 86.93 inches at Big Tujunga Dam in 1947-48 to a minimum of 29.91 inches at the District's Puente Hills station in 1948-49.

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

During 1947-48 and 1948-49 the District operated 73 recording streamflow stations located on the main streams and tributary channels. Twenty-five of these stations are in the Los Angeles River drainage area, 20 are in the San Gabriel River drainage area, and 17 are located in the Rio Hondo drainage area. Records obtained from these stations are supplemented by the records of the 13 stations operated by the U. S. Geological Survey, Water Resources Branch, and 2 stations operated by the Survey in cooperation with the Los Angeles District, Corps of Engineers, which are also included in this publication. Cooperative assistance was given by the District in making measurements at these stations, while the District in turn received cooperation at several stations from the Corps of Engineers.

Runoff for the seasons was below normal throughout the District and storm flows were unusually low.

Dam operation data included in this report show daily reservoir water surface elevation, storage, and amount of inflow and outflow for 14 dams operated by the District. These dams control 409 square miles of mountain drainage with a total controlled storage of 87,814 acre feet at spillway lip elevation.

Two tabulations giving pertinent data for the seasons for four debris dams and 24 debris basins owned and operated by the District are included in this report.

Reclamation of storage capacity in District reservoirs and debris basins during these seasons obtained by sluicing and excavation operations, amounted to 20,105 cubic yards in 1947-48, and 297,221 cubic yards in 1948-49.

Water conservation and collection of ground water data continued as an important phase of the work of the District due to the increased draft upon various underground basins. Cooperative studies of serious ground water depletion in a few basins and contamination from industrial wastes are being continued. Included in this report are ground water maps of the several primary basins showing approximate high and low seasonal ground water conditions. These maps are compiled from data taken in more than 1472 wells during the annual spring and fall well measurements.

Key well measurements taken monthly by the District were reduced to the form of hydrographs, and 12 of these have been included in the report to show the fluctuations in the more important basins.

The investigation of the intrusion of sea water into the West Coastal Basin was continued during 1947-48 and 1948-49. The study of potential pollution of surface and ground waters by industrial wastes continues as an important phase of the Division's work. Studies on the possible conservation of sewage effluents have been initiated and will be continued. The Division also prepares numerous studies and preliminary designs for the correlation of conservation facilities with Federal flood control improvements.

Over 250 acres of additional spreading grounds were developed during the past two seasons in order to offset the continuing encroachment on pervious natural watercourses by newly paved channels, (and new housing development).

Conservation of water by absorption in various stream channels and reservoirs amounted to 99,620 acre feet during the seasons. Water conservation of 10,790 acre feet in 1947-48 and 4,313 acre feet in 1948-49 was effected by off-channel spreading grounds. A total runoff of 67,950 acre feet in 1947-48 and 61,390 acre feet in 1948-49 wasted into the ocean, as measured on Coyote Creek at Del Amo Street, on the San Gabriel River at Spring Street, on the Los Angeles River at State Street, and on Ballona Creek at Sawtelle Boulevard.

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

Respectfully submitted,

Finley B. Laverty

Finley B. Laverty
Chief - Hydraulic Division

Recommended

Paul Baumann

Paul Baumann
Assistant Chief Engineer

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F152-R	ALISO WASH	at Nordhoff Street	53
U1-R	ARROYO SECO	above Mouth of Canyon	55
P277-R	ARROYO SECO	below Devil's Gate Dam	57
F38B-R	BALLONA CREEK	at Sawtelle Boulevard	59
F120-R	BIG DALTON CREEK	below Big Dalton Dam	62
U9-R	BIG DALTON CREEK	near Mouth of Canyon	64
F274-R	DALTON WASH	at Merced Avenue	66
F111C-R	BIG TUJUNGA CREEK	below Mill Creek	69
F111B-R	BIG TUJUNGA CREEK	above Edison Road	72
F168-R	BIG TUJUNGA CREEK	below Big Tujunga Dam	75
F213-R	BIG TUJUNGA CREEK	above Gold Canyon	77
E286-R	TUJUNGA WASH	below Hansen Dam	80
F20B-R	TUJUNGA WASH	at Glen Oaks Boulevard	82
F105-R	TUJUNGA WASH	at Magnolia Boulevard	82
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F265-R	DOMINGUEZ CHANNEL	at Carson Boulevard	93
F53-R	DUME CREEK	at Roosevelt Highway	97
U2-R	EATON CREEK	above Mouth of Canyon	97
F271-R	EATON WASH	below Eaton Wash Dam	99
F104-R	EATON WASH	at Ellis Lane	100
U7-R	FISH CREEK	above Mouth of Canyon	103
U12-R	HAINES CREEK	above Mouth of Canyon	106
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F42-R	SAN GABRIEL RIVER	at Spring Street - Long Beach	223
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PRECIPITATION RECORDS

PRECIPITATION

FOREWORD

This report, which contains precipitation data for the seasons 1947-48 and 1948-49, presents the twentieth and twenty-first of similar seasonal reports in summarized form. It is published to provide current basic data for reference and to inform interested public and private agencies and individuals of further precipitation data which may be found in the District's files.

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

SUMMARY

SEASON 1947-48

Seasonal precipitation in Los Angeles County for the fourth consecutive season was below normal. The County average of 8.49 inches for the 1947-48 season was 51% of the 75-year normal. The season's precipitation, as compared with the 75-year normal for various representative stations, is shown in the tabulation under "Comparative Rainfall" on page 6.

The drought, which began January 1947, continued on through the 1947-48 season and was the driest of any similar period during the 76 years of record at Los Angeles. During this 21-month interval only 9.07 inches of precipitation occurred at the United States Weather Bureau, 6th and Main Street, Los Angeles Station. Therefore, the 1947-48 season became the fourth driest recorded during the past 76 years, and the period from January 1947 to January 1948 was the driest calendar year on record.

No major storms occurred during the 1947-48 season.

Rainfall intensities were generally light throughout the District with a few scattered showers producing some heavy intensities for very short durations. One such shower occurred in San Pedro on December 5th and produced 0.56 of an inch in 5 minutes, 0.74 of an inch in 10 minutes, and 1.08 inches in 1 hour.

Isohyetals for the 1947-48 season are shown on Map I, page 35.

Eighteen storms occurred during 1947-48 season which produced rainfall of 0.01 inch or more, with rain occurring on 32 days at Opid's Camp (Camp Hi Hill) in the mountains and 30 days at the Los Angeles United States Weather Bureau Station in

the valley (5 p.m. reading).

SEASON 1948-49

Seasonal precipitation in Los Angeles County was below normal for the fifth consecutive season. The County average of 9.48 inches for the 1948-49 season was 57% of the 75-year normal.

The drought which continued through the 1948-49 season was the driest 33-month period during the 77 years of record at Los Angeles, where only 16.80 inches of precipitation were recorded. This station recorded 7.73 inches of rainfall for the season, which made it the sixth driest season since 1872-73.

The driest April since 1934 and the wettest May since 1930 occurred during this season. There were 39 days with more than 0.01 inches of rainfall at the Los Angeles station in the valley, and 46 days with more than 0.01 inches of rainfall at Opid's Camp in the mountains (5 p.m. reading).

On January 4th, the United States Weather Bureau Station at Los Angeles had a temperature of 28 degrees, equalling the lowest temperature recorded since 1878.

The County experienced a weather pheonomena for this locality on January 9 and 10, when measureable amounts of snow fell over practically the entire County.

There were comparatively low rainfall intensities during the season, as indicated in Table II, page 11, "Comparative Maximum Rainfall Intensities in Inches for Selected Stations".

Isohyetals for the 1948-49 season are shown on Map II, page 37.

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, inasmuch as the catchment of rain can vary considerably in short distances due to obstructions such as trees, buildings, and topography.

Subsequent to 1927, the District has made considerable progress in securing a representative coverage of the County as indicated by the following data:

Number of stations reporting to the Los Angeles County Flood Control District.

Season 1926-27 79
Season 1948-49 470

The following tabulation shows the number of stations for which the District has records of 15 years or more:

	15 to 49 years		50 years and over	
	1947-48	1948-49	1947-48	1948-49
Continuous records - Active	194	201	17*	20*
Broken records - Active and Inactive	105	107		
Adjacent to Los Angeles County	10	10	3	3
TOTAL	309	318	20	23

The District has a better distribution of gages in the valley and foothill areas than in the mountains, as more cooperative observers are available. Practically a maximum possible coverage of the mountain area has been obtained until additional resident observers are available or satisfactory automatic reporting equipment is developed for locations which have difficult access. Station locations are shown on Maps I and II, page 35 and 37; Table VII, page 28.

Annual inspection trips were made in the fall of 1947 and 1948, at which times the location and condition of each gage was checked. Helpful suggestions and instructions were given to observers to assist in obtaining more accurate and complete records. Supplies for each entire season were furnished at these times, thus saving considerable mailing cost. The annual trips also provide an opportunity to investigate locations for new stations and to secure cooperative observers.

Where observers are available, automatic recording rain gages are located by the District in areas which will furnish the most representative intensity data for rainfall analyses and computations. During the 1947-48 and 1948-49 seasons 32 of these gages were in the San Gabriel Mountains and Foothills, 16 in other mountainous and foothill areas, and 17 in the valley areas and coastal plain. In general, each automatic gage is operated in conjunction with a standard 8" U.S.W.B. type gage placed nearby as a check.

USES OF PRECIPITATION DATA

1. In operation of District Dams.
2. In calculation of flood flows for design purposes.
3. In water conservation studies.
4. By public and private agencies for flood control, irrigation, and water supply or related investigations.
5. Court cases.

*IN SOME CASES THE STATION WAS MOVED A SHORT DISTANCE, OR IN CASE OF INACTIVITY ANOTHER STATION IN THE IMMEDIATE LOCALITY HAS BEEN SUBSTITUTED TO GIVE A CONTINUOUS LONG-TIME RECORD.

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

United States Weather Bureau
Corps of Engineers, Department of the Army
United States Forest Service
United States Geological Survey, Water Resources Branch
State of California, Division of Water Resources
City of Los Angeles
Pasadena Water Department
Southern California Edison Company
Los Angeles County
    Surveyor and Engineer
    Forester and Fire Warden
    Road Department
Ventura County
San Bernardino County

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

SOURCE AND NUMBER OF RECORDS

The tabulation which follows shows the number, type, and ownership of rain gages.

RAIN GAGE OWNERSHIP AND TYPE		NUMBER OF GAGES			
	Seasons	1947-48	1948-49	Total 1947-48	Total 1948-49
(a) Los Angeles County Flood Control District					
Standard	8" Diameter	253	267		
Non-recording Special	8.81" "	12	10		
Automatic-Fergusson Type	9" Capacity	31	31		
Automatic-Fergusson Type	12" "	16	16		
Automatic-Friez Type	30" "	1	1		
Automatic-Friez Type	12" "	8	8		
Automatic-Stevens Type Q	12" "	6	6		
Automatic-Stevens Type Q	24" "	2	2		
Automatic-Fuller Type	3" " (office)	1	1		
				330	342

(continued from table on page 4)

Seasons	1947-48	1948-49	Total 1947-48	Total 1948-49
(b) Outside Agencies and Individuals				
Standard 8" Diameter	138	155		
Various Types, Non-recording	7	8		
Automatic - Various sizes and types	46	47		
			191	210
TOTAL NUMBER OF RAIN GAGES			521	552
Less Stations with Standard 8" and Automatic Gages			-81*	-82*
Total Stations from which the District receives records			440	470

The District owned 63% of all gages in 1947-48 and 62% in 1948-49, from which records were received each month. The remaining gages are privately owned, as shown above and are cooperative with the District.

COMPLETE SEASONAL REPORTS	Season 1947-48	Season 1948-49
Flood Control District Stations	265**	270**
Private Stations	162	174
TOTAL	427	444

The preceding tabulation 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% of the total seasonal amount. Thus out of 440 stations reporting in 1947-48 and 470 in 1948-49, 97% and 94% respectively furnished complete records.

Table I presents a complete list of the automatic rain gages which were active during the 1947-48 and 1948-49 seasons, with the length of active record included.

AVERAGE RAINFALL INDICES FOR LOS ANGELES COUNTY

Table VIII, page 34, presents the 76 and 77-year seasonal indices for Los Angeles County and selected areas within the County. The 76th-year index and 77th-year index were based on the computed 75-year normal rainfall. Seasonal indices are the ratios of seasonal rainfall to seasonal normal expressed as a percentage. Indices furnish a more convenient and satisfactory measure for comparing seasonal rainfall in different localities, than do the actual amounts expressed in inches. The County indices have been obtained by computing the weighted average indices of

*REPRESENTS NUMBER OF STANDARD GAGES AT AUTOMATIC RAIN GAGE STATIONS DEDUCTED FROM TOTAL NUMBER OF GAGES TO AGREE WITH NUMBER OF RECORDS PUBLISHED.

**WHEN A STATION HAS BOTH A DISTRICT GAGE AND A PRIVATE GAGE, IT IS CONSIDERED A FLOOD CONTROL DISTRICT STATION.

seven representative areas in the County. The indices of each area were obtained by averaging the indices of representative long-time stations, known as Master Stations, for that area.

It should be kept in mind that these indices are relative only and are not applicable to any specific area in the County, being derived from data reflecting valley, mountain and desert conditions. An Isohyetal Map for the 75-year seasonal normal is shown on Map III, page 29, of the District's 1945-46 and 1946-47 Biennial Report on Hydrologic Data. These maps are prepared at 5-year intervals.

COMPARATIVE RAINFALL

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

Comparison of Rainfall by Stations

Sta. No.	Name	Elev.	75 Yr. Normal Inches	Yrs. Rec.	1947-48 Inches	1947-48 % of 75-Yr. Normal	1948-49 Inches	1948-49 % of 75-Yr. Normal
241B	Long Beach	68*	13.14	54	5.87	45	7.44	57
577E	Los Angeles (U.S.W.B.)	417**	15.62	76	7.00	45	7.33	49
610B	Pasadena	864	20.66	76	10.50	51	12.25	59
587	Mouth of San Antonio Canyon	2500	28.57	44	14.89	52	16.30	57
60A	Camp LeRoy (Hoegee's)	2750	43.68	23	19.68	45	23.73	54
53A	Colby's Ranch	3500	31.93	51	14.23	45	13.45	42
57B-E	Opid's Camp (Camp Hi Hill)	4350	42.32	31	19.52	46	23.02	54
338A	Mt. Wilson Observatory	5650	37.81	44	18.73	49	21.40	57
121	Lancaster	2350	7.27	25	3.52	48	4.87	67
574B	Newhall	1241	18.30	72	7.30	40	8.96	49
21	Girard	876	14.69	36	6.57	45	6.72	46

MAXIMUM AND MINIMUM RAINFALL

The following tabulation presents maximum and minimum rainfall amounts in Los Angeles County for the period of this report, using 5 p.m. Pacific Standard Time, standard gage readings only.

Sta. No.	Station	Minimum Seasonal 1947-48	Minimum Seasonal 1948-49	Maximum Seasonal 1947-48	Maximum Seasonal 1948-49	Maximum Day 1947-48	Maximum Day 1948-49	Date
121	Lancaster Union High School	3.52						
490	Lancaster - Wiley Ranch		3.31					
283A	Crystal Lake - East Pine Flats			21.11				
402C	Cedar Springs				26.29	4.25		2/5/48
402C	Cedar Springs						2.69	1/20/49

*38 FEET ABOVE GROUND, BROADWAY AND CEDAR STREETS.
**151 FEET ABOVE GROUND, 6TH AND MAIN STREET STATION.

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

Table III, pages 12 to 14, presents daily rainfall amounts for selected stations during the 1947-48 season.

Table IV, pages 15 to 17, presents daily rainfall amounts for selected stations during the 1948-49 season.

Table V, page 18, presents monthly and seasonal rainfall amounts for stations from which the District received records during the 1947-48 season.

Table VI, page 23, presents monthly and seasonal rainfall amounts for stations from which the District received records during the 1948-49 season.

SUMMARY OF SNOWFALL

Total accumulative snowfall in inches of depth at high mountain stations is shown as follows:

Sta. No.	Location	Elev.	Season 1947-48	Season 1948-49
82D	Table Mountain	7500 Ft.	83	134
83	Big Pines Recreation Camp	6860 Ft.	84	186
283A	Crystal Lake-East Pine Flats	5740 Ft.	65	115

The following tabulation shows snow survey data for the San Antonio and Rock Creek Watersheds:

Snow Survey Course	Elev.	Date	Density %	Water Content Inches Depth	Date	Density %	Water Content Inches Depth
Mt. San Antonio #2	8400	3/30/48	33.5	15.9	3/29/49	41.7	24.8
Upper Ice House Cn. #3	8000	3/29/48	37.9	18.6	3/28/49	36.8	20.6
Islip #3	7600	4/1/48	36.6	16.3	3/31/49	46.4	27.1

COOPERATION OF RAINFALL OBSERVERS

Observers have continued their valuable cooperation with the District in the collection of these data, as indicated by the fact that in 1947-48, 97%; and in 1948-49, 94% of all observers reporting each month to the District have sent in complete reports for the seasons covered by this report.

We wish to express our appreciation to the many agencies and individuals who have so freely cooperated with us in the collection of these data and by so doing have made such a complete report possible.

RESPONSIBILITY

Collection of rainfall and evaporation data from October 1, 1947 to May 15, 1949 was accomplished by R. E. Lindsay, in charge, Precipitation Section. Subsequent to May 15, 1949, these data were collected by Paul A. Haig, in charge, Precipitation Section.

The compilation of these records was performed by R. E. Lindsay and Paul A. Haig.

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

TABLE I

PRIVATE ACTIVE AUTOMATIC RAIN GAGES
SEASON 1947-48

FC NO.	NAME OF STATION	ELEV. U.S.G.S.	TYPE AND CAPACITY		WATERSHED	PERIOD OF RECORD
23-E	CHATSWORTH RESERVOIR	865	FRIEZ	12"	L. A. RIVER	12/4/45 TO DATE
87	SAN DIMAS GUARD STATION	1500	STEVENS FLOAT GAGE	6"	SAN DIMAS CREEK	12/11/25 TO 11/23/26 11/42 TO DATE
124B	BOUQUET CANYON RESERVOIR - L.A.W.D.	3000	STEVENS	9"	BOUQUET CANYON AND SANTA CLARA RIVER	11/11/31 TO DATE*
157B	EL SEGUNDO - STANDARD OIL CO.	150	FRIEZ	12"	OCEAN	6/16/48 TO DATE
158	TANBARK FLATS	2750	FERGUSSON	12"	SAN DIMAS CREEK	1/16/29 TO DATE***
223B-E	BIG DALTON DAM	1575	"	12"	BIG DALTON CANYON	11/28/47 TO DATE**
228B	BEVERLY HILLS - CITY HALL	255	"	9"	BALLONA CREEK	10/14/31 TO DATE
237B	STONE CANYON RESERVOIR	725	FRIEZ	12"	STONE CANYON	9/23/47 TO DATE*
269B	DIAMOND BAR RANCH - HORSE CAMP	760	"	12"	BREA CANYON	12/3/41 TO DATE***
311B	PASADENA METEOROLOGICAL STATION	918	FRIEZ TIPPING BUCKET		ARROYO SECO	10/23/34 TO 9/14/38* 10/1/38 TO DATE*
357	SAN FERNANDO POWER HOUSE #3	1248	FRIEZ	12"	UPPER SAN FERNANDO RESERVOIR	12/4/45 TO DATE***
436B	HANSEN DAM	1005	STEVENS FLOAT	12"	TUJUNGA WASH	10/30/40 TO DATE***
465B	SEPULVEDA DAM	675	FRIEZ	12"	L. A. RIVER	10/23/45 TO DATE***
°470	TUJUNGA - MILL CREEK	4600	"	30"	BIG TUJUNGA	10/18/41 TO DATE***
471	LITTLE TUJUNGA - GOLD CREEK	2750	U.S.E.D.	UNLIMITED	LITTLE TUJUNGA	10/30/41 TO DATE**
565B	LONG BEACH - 1607 SAN FRANCISCO ST.	11	BELFORT TIPPING BUCKET		COASTAL	11/8/24 TO DATE
577E	U.S.W.B. - 6TH & MAIN STREETS	417	FRIEZ	12"	L. A. RIVER	2/19/97 TO DATE***
577F	LOS ANGELES - U.S.W.B.	548	FRIEZ TIPPING BUCKET		L. A. RIVER	3/1/40 TO DATE***
683	SUNSET RIDGE GUARD STATION	2110	FRIEZ	12"	ARROYO SECO - L. A. RIVER	10/16/45 TO DATE
723	STONE CANYON - SAN FERNANDO VALLEY	835	STEVENS FLOAT	9"	L. A. RIVER	10/43/TO DATE
724	BIG DALTON - MONROE CYN. - FLUME X	1775	STEVENS	6	BIG DALTON CREEK	3/15/39 TO DATE**
725	BIRMINGHAM HOSPITAL	722	FRIEZ	12"	L. A. RIVER	8/4/44 TO DATE***
726	ANGELES CREST - U.S.F.S. GUARD STA.	2300	"	12"	ARROYO SECO - L. A. RIVER	10/16/45 TO DATE
735	BELL CANYON	915	"	12"	L. A. RIVER	1/15/46 TO DATE***
740B	SAN DIMAS CANYON - FERN CYN. #2	5200	FERGUSSON	12"	SAN DIMAS CREEK	10/12/36 TO DATE
741	SAN DIMAS CYN. - UPPER EAST FORK	2750	STEVENS	6"	SAN DIMAS CREEK	10/4/34 TO DATE
747	SANDBERG AIRWAYS	4517	FRIEZ	12"	SANTA CLARA RIVER	4/2/32 TO DATE***_*
748	NEWHALL - C.A.A.A.C. STATION	1206	"	12"	SANTA CLARA RIVER	7/1/29 TO DATE***_*
749	BURBANK AIRPORT	699	"	12"	L. A. RIVER	9/20/31 TO DATE***_**
750	PALMDALE - C.A.A.A.C. STATION	2654	"	12"	DESERT	1/1/34 TO DATE*** **
755	GRIFFITH PARK - LITTLE CANYON	900	"	12"	L. A. RIVER	9/4/47 TO DATE*
756	GRIFFITH PARK - UPPER SPRING CYN.	1200	"	12"	L. A. RIVER	9/2/47 TO DATE*
757	GRIFFITH PARK - FERN DELL	800	"	12"	BALLONA CREEK	9/4/47 TO DATE*
758	GRIFFITH PARK - LOWER SPRING CYN.	625	"	12"	L. A. RIVER	9/3/47 TO DATE*
759	HOLLYWOOD - COURTNEY AVE. 1736	422	"	12"	BALLONA CREEK	9/11/47 TO DATE*
760	STUDIO CITY - GOODLAND AVE. 3913	680	"	12"	L. A. RIVER	10/3/47 TO DATE*
762	UPPER STONE CANYON	925	"	12"	BALLONA CREEK	9/4/47 TO DATE*
766	MANDEVILLE CANYON - FIRE ROAD #26	1625	"	12"	SANTA MONICA CANYON	9/5/47 TO DATE*
769	SANTA YNEZ CYN. - TEMESCAL FIRE RD. #30	1980	"	12"	SANTA YNEZ CANYON	9/5/47 TO DATE*
770	SANTA YNEZ CYN. - PASEO MIRAMAR	700	"	12"	SANTA YNEZ CANYON	9/11/47 TO DATE*
771	RUSTIC CANYON	265	"	12"	SANTA MONICA CANYON	9/10/47 TO DATE*
772	L.A. - ECHO PARK & LUCRETIA	475	STEVENS	12"	L. A. RIVER	9/15/47 TO DATE*
773	L.A. - BOYLSTON HILL	575	RATIONAL	8"	L. A. RIVER	9/15/47 TO 3/9/48*
774	BARLOW SANITARIUM	423	"	8"	L. A. RIVER	12/19/47 TO DATE*
775	L.A. - 8TH & CROCKER STREETS	249	FRIEZ	12"	L. A. RIVER	9/12/47 TO DATE*
779	GRIFFITH PARK - NORTH CANYON	625	"	12"	L. A. RIVER	11/47 TO DATE*
780	GRIFFITH PARK - NORTH CANYON	1025	"	12"	L. A. RIVER	11/5/47 TO DATE*
801	MAGIC MOUNTAIN RIDGE - INDIAN CYN.	4450	U.S.E.D.	UNLIMITED	PACOIMA	3/19/47 TO DATE***-*

PRIVATE ACTIVE AUTOMATIC RAIN GAGES
SEASON 1948-49

470	TUJUNGA-MILL CREEK	4600	FRIEZ	12"	BIG TUJUNGA	10/18/41 TO DATE***

NOTE: SUFFIX A, B, C DENOTES FIRST, SECOND, OR THIRD LOCATION OF STATION IN SAME LOCALITY UNDER NEARLY THE SAME CONDITIONS.

SUFFIX -E INDICATES EVAPORATION PAN AT STATION.

THE DISTRICT ALSO HAS RECORDS OF SEVERAL AUTOMATIC GAGES AT STATIONS WHICH ARE NOW INACTIVE. THESE RECORDS ARE AVAILABLE IN OUR FILES.

SEASON 1948-49 IDENTICAL WITH SEASON 1947-48 WITH EXCEPTION OF STATION 470.

LEGEND

* - - - - - - CHARTS OR REPRODUCTIONS ARE NOT IN DISTRICT FILES.
** - - - - - - DISTRICT HAS SOME AUTOMATIC CHARTS.
*** - - - - - - HOURLY AMOUNTS PUBLISHED IN U.S.W.B. HYDROLOGIC BULLETIN, SOUTH PACIFIC DISTRICT.
° - - - - - - INDICATES DEVIATION FROM 1947-48 TABLE AS SHOWN IN 1948-49 TABLE.

TABLE I

ACTIVE AUTOMATIC RAIN GAGES

SEASON 1947-48

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT GAGES

FC NO.	NAME OF STATION	ELEV. U.S.G.S.	TYPE AND CAPACITY		WATERSHED	PERIOD OF RECORD
6	TOPANGA GUARD STATION	747	FERGUSSON	9"	TOPANGA CANYON	8/18/30 TO DATE
10	BEL AIR	540	"	9"	STONE CANYON	1/4/29 TO DATE***
11	UPPER FRANKLIN RESERVOIR	867	"	9"	FRANKLIN CANYON	9/29/37 TO DATE
15	VAN NUYS WAREHOUSE	695	"	9"	L. A. RIVER	8/18/30 TO DATE
33A'	PACOIMA DAM	1500	"	9"	PACOIMA CANYON	9/22/39 TO DATE
46D-E	BIG TUJUNGA DAM	2315	STEVENS	12"	BIG TUJUNGA	12/9/40 TO DATE
47C	CLEAR CREEK	3125	FERGUSSON	12"	BIG TUJUNGA	11/2/28 TO DATE
52C	WATERMAN GUARD STATION	3290	"	12"	ARROYO SECO	1/15/26 TO DATE
53A	COLBY'S (SLEEPY HOLLOW)	3500	"	12"	BIG TUJUNGA	4/19/26 TO 1/28 6/30/37 TO 12/26/40 2/14/41 TO DATE
54	LOOMIS RANCH - ALDER CREEK	4050	"	9"	BIG TUJUNGA	11/24/31 TO DATE (1)
57B-E	CAMP SINGER (OPID'S CAMP)	4250	"	12"	SAN GABRIEL, WEST FORK	12/14/25 TO DATE***
60A	CAMP LE ROY (HOEGEE'S)	2750	"	12"	BIG SANTA ANITA CREEK	11/11/26 TO DATE
70	ROGER'S CANYON - OALTON	800	"	9"	SAN GABRIEL RIVER	12/4/26 TO DATE
83	BIG PINES RECREATION PARK	6860	"	12"	DESERT	12/17/25 TO DATE***
85D	CAMP BALDY GUARD STATION	4300	"	12"	SAN ANTONIO CREEK	11/11/27 TO DATE***
92	CLAREMONT - POMONA COLLEGE	1190	"	9"	SANTA ANA RIVER	12/2/27 TO DATE
108B	EL MONTE - FIRE STATION	301	"	9"	RIO HONDO	10/11/38 TO DATE
116B	INGLEWOOD - FIRE STATION #1	125	"	9"	NIGGER SLOUGH	2/26/48 TO DATE
150	MONROVIA FALLS	1800	"	12"	SAWPIT CREEK	2/4/28 TO DATE
156	LA MIRADA - STANDARD OIL CO.	86	STEVENS	12"	COYOTE CREEK	4/19/46 TO DATE
178	AZUSA - GRIFFITH	545	FERGUSSON	9"	SAN GABRIEL RIVER	1/1/31 TO DATE
179B	SIERRA MADRE - CARTER	1125	"	9"	RIO HONDO	6/24/41 TO 7/2/48
179C	SIERRA MADRE - CARTER	1220	"	9"	RIO HONDO	7/2/48 TO DATE
201	PUENTE HILLS - ALTA MIRA RANCH	860	"	9"	SAN JOSE CREEK	9/15/38 TO 11/2/38 12/19/40 TO DATE
210B	BRAND PARK	1250	STEVENS	12"	L. A. RIVER	12/27/28 TO DATE
°213	LOS ANGELES - HANCOCK PARK	177	"	12"	L. A. RIVER	1/13/29 TO DATE
235B	HENNIGER FLATS	2550	FERGUSSON	12"	EATON WASH	12/30/29 TO DATE
257	GRIFFITH PARK NURSERY	750	"	9"	L. A. RIVER	11/12/30 TO DATE
259C	CHATSWORTH PATROL STATION	1254	"	9"	DEVIL'S CREEK	8/17/37 TO DATE
261-E	ACTON - MELLEN	3075	"	9"	SANTA CLARA RIVER	11/27/30 TO DATE***
280B	FLINTRIDGE FIRE STATION	1325	"	9"	ARROYO SECO	7/26/30 TO DATE
283A	CRYSTAL LAKE - EAST PINE FLATS	5740	STEVENS	24"	SAN GABRIEL, NORTH FORK	11/26/35 TO DATE
291	LOS ANGELES - 96TH AND CENTRAL	121	FERGUSSON	12"	L. A. RIVER	10/6/30 TO DATE
303D	PASADENA - CAL TECH	800	"	9"	ALHAMBRA WASH	12/13/30 TO DATE
334B-E	SAN GABRIEL DAM #2	2335	"	12"	SAN GABRIEL RIVER	1/14/32 TO DATE
338B	MOUNT WILSON - AIRWAYS STATION	5709	"	12"	SAN GABRIEL - SANTA ANITA	3/29/32 TO DATE***
352	LECHUZA PATROL STATION	1530	FERGUSSON	9"	ARROYO SECO AND TRANCAS CANYON	11/28/34 TO DATE***
356B	PACIFIC COLONY	685	"	9"	SAN JOSE CREEK	3/30/38 TO DATE***
367	UPPER HAINES CANYON	3450	FRIEZ	30"	BIG TUJUNGA	1/13/33 TO DATE
372	SAN FRANCISQUITO POWER HOUSE #2	1580	FERGUSSON	9"	SANTA CLARA RIVER	5/25/44 TO DATE
373	BRIGGS TERRACE	2310	FRIEZ	12"	VERDUGO WASH	11/28/33 TO DATE
373B	SAN GABRIEL EAST FORK	1600	"	12"	SAN GABRIEL RIVER	12/8/37 TO 8/38 2/14/46 TO DATE
380	EL SERENO	553	FERGUSSON	9"	L. A. RIVER	11/1/34 TO DATE
415	SIGNAL HILL - CITY HALL	115	"	9"	COASTAL	3/15/37 TO DATE***
°419	MOUNT GLEASON	5450	"	12"	PACOIMA AND SANTA CLARA RIVERS	9/21/37 TO DATE
425B-E	SAN GABRIEL DAM #1	1481	"	12"	SAN GABRIEL RIVER	11/3/37 TO DATE
433	ALTADENA - FARNSWORTH PARK	1710	"	9"	RUBIO WASH	9/14/38 TO DATE
434	MALIBU HEADQUARTERS	800	"	9"	MALIBU CREEK	10/27/43 TO DATE
435	MONTE NIDO CANYON	600	"	9"	COLD AND MALIBU CREEKS	11/19/43 TO DATE
444B	ROLLING HILLS - PALOS VERDES HILLS	482	FRIEZ	12"	BIXBY SLOUGH	7/13/48 TO DATE
445B	LIVE OAK CANYON DAM	1510	STEVENS	12"	LIVE OAK WASH	3/20/40 TO DATE
446	ALISO CANYON - SANTA SUSANA MTS.	2367	FRIEZ	12"	L. A. RIVER	7/2/40 TO DATE***
461	BALDWIN HILLS	392	STEVENS	12"	BALLONA CREEK	12/19/40 TO 2/26/48
466B	PACOIMA CANYON	3225	FERGUSSON	12"	PACOIMA CREEK	1/16/41 TO DATE
477B	SANTA ANITA SPRING CAMP	4715	STEVENS	24"	SANTA ANITA CREEK	11/25/41 TO DATE
486	COLDWATER CANYON - WIDMAN RANCH	3865	FERGUSSON	12"	SAN GABRIEL - CATTLE CANYON	9/22/43 TO DATE
492	CHILAO - STATE HWY. MAINT. STA.	5275	"	12"	SAN GABRIEL RIVER, WEST FORK	10/10/44 TO DATE
493	SAND CANYON - MAC MILLAN RANCH	1780	FRIEZ	12"	SANTA CLARA RIVER	11/8/46 TO DATE
495	LOS ANGELES - 8TH & FIGUEROA	335	FULLER FLOAT TYPE	3"	L. A. RIVER	2/7/44 TO DATE
517	ANDERSEN RANCH (BURKHART)	4700	FERGUSSON	9"	PALLETT CREEK	12/17/43 TO DATE
1006	SAN PEDRO CITY RESERVOIR	150	"	9"	SAN PEDRO HARBOR	3/7/46 TO DATE
1008-E	LA FRESA - S.C.E.CO. SUBSTA.	65	FRIEZ	12"	LAGUNA DOMINGUEZ	8/29/46 TO DATE
°1010	PALMER CANYON	2175	"	12"	THOMPSON CREEK	12/19/46 TO DATE
1013	TUJUNGA CANYON ABOVE GOLD CANYON	1650	FERGUSSON	9"	TUJUNGA RIVER	9/29/47 TO DATE
1014	RIO HONDO SPREADING GROUNDS	159	"	9"	RIO HONDO	9/29/47 TO DATE
1017	LITTLE ROCK CREEK ABOVE SANTIAGO CR.	3330	STEVENS	12"	DESERT	8/6/48 TO DATE
X6	ENCINO RESERVOIR	1240	FERGUSSON	12"	L. A. RIVER	11/3/44 TO DATE

ACTIVE AUTOMATIC RAIN GAGES

SEASON 1948-49

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT GAGES

FC NO.	NAME OF STATION	ELEV. U.S.G.S.	TYPE AND CAPACITY		WATERSHED	PERIOD OF RECORD
213B	L.A. - HANCOCK PARK	175	STEVENS	12"	L. A. RIVER	12/27/28 TO DATE
419	MOUNT GLEASON	5450	FRIEZ	30"	PACOIMA & SANTA CLARA RIVERS	9/21/37 TO DATE
1010B	PALMER CANYON	2150	"	12"	THOMPSON CREEK	12/19/46 TO DATE

NOTE: SUFFIX B, C DENOTE SECOND AND THIRD LOCATION OF STATION IN SAME LOCALITY UNDER NEARLY SAME CONDITIONS.

THE DISTRICT ALSO HAS RECORDS OF SEVERAL AUTOMATIC GAGES AT STATIONS WHICH ARE NOW INACTIVE. THESE RECORDS ARE AVAILABLE IN OUR FILES.

SEASON 1948-49 IDENTICAL WITH SEASON 1947-48 WITH EXCEPTION OF STATIONS 213, 419 AND 1010.

LEGEND

(1) - - - - - PREVIOUS RECORD BY U.S.W.B. MARVIN GAGE STARTING DECEMBER 1916 TO NOVEMBER 24, 1931.

*** - - - - - HOURLY AMOUNTS PUBLISHED IN U.S.W.B. HYDROLOGIC BULLETIN, SOUTH PACIFIC DISTRICT.

° - - - - - INDICATES DEVIATION FROM 1947-48 TABLE AS SHOWN IN 1948-49 TABLE.

TABLE II

COMPARATIVE MAXIMUM RAINFALL INTENSITIES IN INCHES

SEASONS 1947-48, 1948-49 AND MAXIMUM OF RECORD FOR SELECTED STATIONS

		#577E-USWB 6TH AND MAIN LOS ANGELES		#15 VAN NUYS LAND WAREHOUSE		#178 AZUSA GRIFFITH		#425 SAN GABRIEL DAM #1		#261 ACTON MELLEN		#6 TOPANGA CANYON		#92 POMONA COLLEGE CLAREMONT		# 578 CAMP SINGER (OPID'S)		#60A CAMP LE ROY (HOEGEE'S)		#303 CAL TECH PASADENA	
		1947-48	MAX OF RECORD	1947-48	MAX OF RECORD	1947-48	MAX OF RECORD	1947-48	MAX OF RECORD	1947-48	MAX OF RECORD	1947-48	MAX OF RECORD	1947-48	MAX OF RECORD	1947-48	MAX OF RECORD	1947-48	MAX OF RECORD	1947-48	MAX OF RECORD
5 MIN.	AMT.	.17	.42	.23	.33	.17	.32	.18	.60	.05	.29	.32	.45	.16	.40	.18	1.17	.19	.43	.21	.32
	DATE	3/24	1/14/08	3/24	12/15/38	12/5	2/11/36	12/5	4/5/26	2/5	8/26/35	3/24	3/3/41	3/13	12/6/46	4/28	4/5/26	4/28	12/27/36	3/24	3/3/43
10 MIN.	AMT.	.29	.65	.29	.43	.24	.40	.24	.62	.06	.41	.43	.70	.24	.46	.27	1.18	.26	.57	.37	.44
	DATE	3/24	2/18/14	3/24	1/8/40	12/5	11/11/44	12/5	4/5/26	12/5	8/26/35	3/24	2/20/41	3/13	12/6/46	4/28	4/5/26	4/28	12/27/36	3/24	3/3/43
15 MIN.	AMT.	.40	.81	.33	.50	.30	.53	.26	.68	.09	.44	.49	.90	.30	.48	.38	1.18	.33	.69	.52	.60
	DATE	3/24	2/18/14	3/24	12/17/40	12/5	11/11/44	12/5	4/5/26	12/5	8/26/35	3/24	2/20/41	3/13	3/4/43	4/28	4/5/26	4/28	12/27/36	3/24	3/3/43
30 MIN.	AMT.	.52	1.14	.45	.88	.37	.77	.40	.96	.16	.66	.64	1.16	.41	.58	.69	1.52	.54	1.06	.72	1.08
	DATE	3/24	2/18/14	3/24	12/28/41	12/5	10/17/34	3/24	4/5/26	12/5	10/1/32	3/24	2/20/41	3/13	10/17/34	4/28	4/5/26	4/28	3/4/43°	3/24	3/3/43
1 HR.	AMT.	.70	1.51	.70	1.26	.48	1.10	.61	1.25	.23	.74	.89	1.60	.50	.94	1.13	2.21	.79	1.73	.93	1.70
	DATE	3/24	2/18/14	3/24	12/28/41	3/24	10/17/34	3/24	1/22/43	12/4	8/24/35	3/24	2/20/41	3/13	1/22/43	4/28	4/5/26	4/28	12/21/45	3/24	3/3/43
2 HRS.	AMT.	1.08	1.99	1.09	1.50	.69	1.73	.87	2.34	.36	1.48	1.18	2.72	.68	1.63	1.81	3.83	1.07	2.88	1.24	2.36
	DATE	3/24	2/18/14	3/24	1/22/43	3/24	10/17/34	3/24	1/22/43	12/4	8/24/35	3/24	12/31/33	12/5°	1/22/43	4/28	4/5/25	4/28	3/2/38	3/24	3/4/43°
3 HRS.	AMT.	1.35		1.33	2.13	.78	2.34	.98	3.28	.47	1.48	1.52	3.700°°	.76	2.27	2.40	4.53	1.56	4.00	1.40	3.02
	DATE	3/24		3/24	1/22/43	3/24	1/1/34	3/24	1/22/43	12/4	8/24/35	3/24	1/22/43	12/5°	12/31/33	4/28	4/5/26	4/28	3/2/38	3/24	12/31/33
4 HRS.	AMT.	1.50		1.43	2.67	.82	2.79	1.10	4.32	.50	1.57	1.60	4.50°°	.88	2.96	2.56	5.54	1.94	5.38	1.52	3.80
	DATE	3/24		3/24	1/22/43	3/24	1/1/34°	3/24	1/22/43	12/5°	1/22/43	3/24	1/22/43	12/5°	1/22/43	4/28	3/2/38	4/28	3/2/38	3/24	12/31/33
5 HRS.	AMT.	1.52		1.47	3.08	.83	2.98	1.19	5.30	.60	1.82	1.74	5.30°°	.85	3.25	3.14	6.67	2.16	6.48	1.57	4.55
	DATE	3/24	3/2/38	3/24	1/22/43	3/24	1/1/34°	3/24	1/22/43	12/5°	1/22/43	3/24	1/22/43	12/5°	1/22/43	4/28	3/2/38	4/28	1/22/43	3/24	12/31/33
12 HRS.	AMT.	1.52		1.47	5.29	1.27	6.00	1.71	10.05	.75	3.14	1.80	9.69	1.03	4.55	3.46	12.64	2.69	13.36	1.58	7.98
	DATE	3/24		3/24	1/1/34°	2/5	1/1/34°	2/5°	1/22/43	12/5°	1/22/43°	3/24	12/31/33	2/5°	3/2/38	4/29°	1/23/43°	4/29°	1/23/43°°	3/24	12/31/33
24 HRS.	AMT.	1.54	7.36	1.47	8.03	1.60	10.19	2.40	17.81	1.47	4.41	1.83	13.44	1.50	7.86	3.91	22.00	3.57	26.12	1.60	11.26
	DATE	3/25°	1/1/34°	3/24	1/22/43°	2/5°	1/1/34°	2/5°	1/23/43	12/5°	1/23/43°	3/25°	1/1/34°	2/5°	11/1/34°	2/5°	1/23/43°	2/5°	1/23/43°	3/25	1/1/34°
STORM TOTAL																					
AUTO.	AMT.	1.54	8.27	1.55	INC.	1.93	12.13	2.85	24.07	1.82	6.36	1.83	INC.	1.85	10.70	5.10	32.45	4.38	37.42	1.80	13.62
	DATE	3/24	12/30/33-3/25	12/4-12/6		2/4-2/6	12/30/33-1/1/34	2/4-2/6	1/21-1/23/43	12/4-12/6	1/21-1/23/43	3/24 3/25		2/4-2/6	1/21-1/23/43	2/4-2/6	1/21-1/23/43	2/4-2/6	1/21-1/23/43	12/4-12/6	1/21-1/23/43
STD.	AMT.		9.67	1.61	11.31			2.92	25.08	1.92	6.69	1.85	17.38	1.83	10.66	5.11	33.95	4.37	37.34	1.79	13.86
	DATE		3/2--10/84	12/4-12/6	1/21-1/23/43			2/4-2/6	12/17-22/21	12/4-12/6	12/18-27/21	3/24-3/25	1/21-23/43	2/4-2/6	1/21-23/43	2/4-2/6	12/18-23/21	2/4-2/6	1/21-23/43	12/4 12/6	1/21-23/43

		1948-49	1948-49	1948-49	1948-49	1948-49	1948-49	1948-49	1948-49	1948-49	1948-49	1948-49
5 MIN.	AMT.	.13	.05	.12	.07	.02	.14	.15	.08	.09	.05
	DATE	3/11	12/17	12/27	2/24	12/27	12/17	10/18	12/3	12/24	12/17
10 MIN.	AMT.	.17	.08	.18	.09	.04	.22	.22	.12	.14	.10
	DATE	12/16	12/16	12/27	2/24	12/27	12/17	10/18	12/3	12/24	12/17
15 MIN.	AMT.	.23	.10	.21	.10	.06	.17	.25	.20	.16	.14
	DATE	12/16	12/17	12/27	2/24	12/27	12/27	10/18	12/3	12/24	12/17
30 MIN.	AMT.	.33	.17	.38	.15	.10	.40	.34	.34	.26	.17
	DATE	12/16	12/16	12/17	12/17	12/27	12/17	10/18	12/3	12/17	12/17
1 HR.	AMT.	.49	.31	.50	.23	.17	.56	.51	.59	.53	.27
	DATE	12/16	12/16	12/17	12/17°	12/27	12/17	10/18	12/3	12/17	12/16
2 HRS.	AMT.	.74	.53	.70	.42	.32	.83	.74	.94	.85	.55
	DATE	12/16	12/16	12/17	12/17°	12/27	12/26	10/18	12/3	12/17	12/17°
3 HRS.	AMT.	.90	.75	.83	.58	.36	1.02	.74	1.12	.87	.76
	DATE	12/17°	12/17°	12/17	12/17°	12/27	12/26	10/18	12/17°	12/17	12/17°
4 HRS.	AMT.	.93	.90	.90	.67	.36	1.07	.76	1.26	.96	.84
	DATE	12/17°	12/17°	12/17	1/20	12/27°	12/26	10/18	12/17°	1/20	12/17°
5 HRS.	AMT.	.97	.97	1.06	.82	.40	1.11	.76	1.35	1.15	.87
	DATE	12/17°	12/17°	12/17	1/20	12/27°	12/26	10/18	12/17°	1/20	12/17°
12 HRS.	AMT.	1.05	1.39	1.28	1.68	.74	1.71	1.10	2.35	2.23	.97
	DATE	12/17°	12/17°	12/17	1/20°	12/27	12/17°	1/20°	12/17°	1/20°	1/20°
24 HRS.	AMT.	1.12	1.60	2.01	2.22	.78	1.99	1.10	3.09	3.05	1/25
	DATE	12/17	12/17°	12/17°	1/20°	12/27°	12/17°	1/20 °	12/17°	1/20°	1/20°
STORM TOTAL											
AUTO.	AMT.	1.12	1.60	2.01	2.23	.78	1.99	1.79	3.09	3.15	1.25
	DATE	12/16-12/17	12/16-12/17	12/16-12/17	1/19-1/20	12/26-12/27	12/16-12/17	1/19-1/20	12/16 - 12/17	1/19-1/20	1/19-1/20
STD.	AMT.		1.64		2.29	.82	2.06	1.84	3.09	3.09	1.33
	DATE		12/16-12/17		1/19-1/20	12/26-12/27	12/16-12/17	1/19-1/20	12/16-12/17	1/19-1/20	1/19-1/20

° DATE AT END OF PERIOD

°° INTERPOLATED VALUE FROM NEARBY STATION

TABLE III

SEASONAL 1947-48 DAILY RAINFALL FOR SELECTED STATIONS

RAINFALL RECORDS IN INCHES

OCTOBER

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
6	TOPANGA	E										.02	.02		.01				.06												.03			.14
15	VAN NUYS	B											.02		.02			.03														.03		.10
32C-E	NEWHALL	E										T			.03																			.03
33A'-E	PACOIMA DAM	E										.02			T				.01												.07	.02		.12
57B-E	OPID'S	E										T			T	T															.04			.04
85D	CAMP BALDY	E												.07	.05	.03															T			.15
106	WHITTIER	E										.05	T						.05												T			.10
121	LANCASTER	B													.11																			.11
130B	SANDBERG'S	C													.05																			.05
185	GLENDORA	E																													.03*			.03*
241B	LONG BEACH	A											.09		.01				.01	.01											.02			.14
256B	POMONA	E											T	T	T				T															T
283A	CRYSTAL LAKE	E												.40	.09	T															T			.49
321-E	PINE CANYON	C												.01	T																	.02		.03
425B-E	SAN GABRIEL #1	E													T																			T
440B	CHILAO	B												.23	.13																			.36
478	VALYERMO	E												.12	.07																			.19
577E	LOS ANGELES	F										.05	T					T	.03															.13
610B	PASADENA	E										T	.09																		.03			.12
634B	SANTA MONICA	D												.04																	.05			.09

NOVEMBER

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL
6	TOPANGA	E																															0
15	VAN NUYS	B																						T						T			T
32C-E	NEWHALL	E																												T			T
33A'-E	PACOIMA DAM	E																												.02			.02
57B-E	OPID'S	E																												.03			.03
85D	CAMP BALDY	E	T								T													T									T
106	WHITTIER	E									.03													.25									.28
121	LANCASTER	B																			T									T			T
130B	SANDBERG'S	C		.12																											.05		.17
185	GLENDORA	E	.01								T												T	T						T			.01
241	LONG BEACH	A																T							T					T		T
256B	POMONA	E									.05																			T			.05
283A	CRYSTAL LAKE	E									.02													T						T			.02
321-E	PINE CANYON	C																						.01						.02			.03
425B-E	SAN GABRIEL #1	E	T								T																						T
440B	CHILAO	B																															0
478	VALYERMO	E									T													.06						.01			.07
577E	LOS ANGELES	F									T						T							T						.02		T	.02
610B	PASADENA	E									T													.27				T					.27
634B	SANTA MONICA	D																						T						.02			.02

DECEMBER

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
6	TOPANGA	E	.01			.25	1.40	.17														.02	.10											1.95
15	VAN NUYS	B	.02			.04	.89	.68															.06											1.69
32C-E	NEWHALL	E	.07			.18	1.11	.18										T				.03												1.57
33A'-E	PACOIMA DAM	E	.02	.02		.35	1.22	.05												T		.02	.02											1.70
57B-E	OPID'S	E	.38	.05		.82	2.19	.09															.05											3.58
85D	CAMP BALDY	E	.08	.16	T	1.28	1.47	.55												.03		T	.04								T			3.61
106	WHITTIER	E	.53	T	T	.36	1.13																T	.08							.02			2.12
121	LANCASTER	B	.27				.96	.34																										1.57
130B	SANDBERG'S	C				.58	1.00			.05									.01		.01										.14			1.79
185	GLENDORA	E	.60			.96	1.50	.10		.01													.02											3.19
241	LONG BEACH	A	.01	.15		T	.97	.36	.08														.04											1.61
256B	POMONA	E	.24	.03	T	.20	1.33	.05		T												T	.01								T			1.86
283A	CRYSTAL LAKE	E	.15	.39		1.32	2.84	.40												T		T	.02								T			5.12
321-E	PINE CANYON	C				.57	.75	.11														T	.33								T			1.46
425B-E	SAN GABRIEL #1	E	.07	.04		.68	1.56	.11															.01											2.47
440B	CHILAO	B	.	.41		.27	1.70	.80																										3.18
478	VALYERMO	E	.30	.26		.39	1.74													.04														2.73
577E	LOS ANGELES	F	.24			.80	.33	.02		.01												.04	.01								.02			1.47
610B	PASADENA	E	.16			.30	1.20	.10												.03		T	.02											1.81
634B	SANTA MONICA	D				.09	1.18	.12															.05											1.44

JANUARY

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
6	TOPANGA	E																										.03						.03
15	VAN NUYS	B																																0
32C-E	NEWHALL	E																																0
33A'-E	PACOIMA DAM	E																																0
57B-E	OPID'S	E																																0
85D	CAMP BALDY	E																										.01						.01
106	WHITTIER	E																																0
121	LANCASTER	B																																0
130B	SANDBERG'S	C																																0
185	GLENDORA	E																										.02						.02
241	LONG BEACH	A																										T						T
256B	POMONA	E																									T	.03						.03
283A	CRYSTAL LAKE	E																										T						T
321-E	PINE CANYON	C																																0
425B-E	SAN GABRIEL #1	E																										T						T
440B	CHILAO	B																																0
478	VALYERMO	E																																0
577E	LOS ANGELES	F																									T	T						T
610B	PASADENA	E																									T	.01						.01
634B	SANTA MONICA	D																										.02						.02

TABLE III

SEASONAL 1947-48 DAILY RAINFALL FOR SELECTED STATIONS

RAINFALL RECORDS IN INCHES

FEBRUARY

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		TOTAL
6	TOPANGA	E					1.03	.49																						.02			1.54
15	VAN NUYS	B					.56	.63	.06																						.03		1.28
32C-E	NEWHALL	E					1.07	.25	.01																						.26		1.59
33A'-E	PACOIMA DAM	E					1.24	.54																									1.78
57B-E	OPID'S	E		T			3.51	1.42	.18																					.20	.07		5.38
85D	CAMP BALDY	E		.16			4.18	.89																T				T		.37	.15		5.75
106	WHITTIER	E					.84	.26																						T			1.10
121	LANCASTER	B					.38	.27																						.16			.81
130B	SANDBERG'S	C					.60	.22				.08												T	T					.12			1.02
185	GLENDORA	E	.01				1.82	.59																						.30	.06		2.78
241B	LONG BEACH	A					.42	.71	.03																						.02		1.18
256B	POMONA	E		.03			1.23	.45																						.24			1.95
283A	CRYSTAL LAKE	E		.08			3.58	1.52	.17										T							.02				.28	.27		5.92
321-E	PINE CANYON	C					1.09	.58				T																		.03	.37		2.07
425B-E	SAN GABRIEL #1	E		.04			2.16	.76																						.18	.02		3.16
440B	CHILAO	B	.02				1.56	1.47	.05																.02						.11		3.23
478	VALYERMO	E				1.15	.42																										1.57
577E	LOS ANGELES	F	T			.03	1.09	.11														T								.02			1.25
610B	PASADENA	E					1.33	.63																						.12			2.08
634B	SANTA MONICA	D					.45	.30																						T			.75

MARCH

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
6	TOPANGA	E													.48	1.44	.01		1.80		.13					1.83	.02				.02			5.73
15	VAN NUYS	B														.48	.56		.49	.34		.18					1.55					.04		3.64
32C-E	NEWHALL	E													.17	.81	.02		.53		.03	.08				1.30					.03			2.97
33A'-E	PACOIMA DAM	E													.35	1.03	.02		.84		.07	.05				.96					.04			3.36
57B-E	OPID'S	E									T				.27	1.84	.10		1.07	T	.22					1.45	.05				.12			5.12
85D	CAMP BALDY	E									.02				.11	1.55	.35		.73		.14	.17				1.21	.08				.06			4.42
106	WHITTIER	E													.14	.53			.58		.72	.06				1.04						T		3.07
121	LANCASTER	B															.30		.02							.46				T				.78
130B	SANDBERG'S	C						.02			.02					.51	.24		.37	T	.12	.09				.80					.12			2.29
185	GLENDORA	E													.17	.80	.30		.50	.08	.34	.08				.92					.02			3.21
241B	LONG BEACH	A															.14		.38	.01	.05					.	.71							1.71
256B	POMONA	E													.04	.85	.01		.56		.38	.06				.65	T							2.55
283A	CRYSTAL LAKE	E									.10				.30	1.36	.15		.69		.23	.11				1.17	.07				.12			4.30
321-E	PINE CANYON	C													.18	.71	.42		.55	.05	.07					1.42	.06				.08			3.54
425B-E	SAN GABRIEL #1	E									T				.26	1.66	.25		.42	.04	.23	.06				1.28	.03				.02			4.25
440B	CHILAO	B									T					.82	.45		.39	.20	.23						.98					.06		3.12
478	VALYERMO	E														.41			.07			.06				.66	.02				.01			1.23
577E	LOS ANGELES	F													.63	.13		.44	.22		.28					1.54	T				.01			3.25
610B	PASADENA	E													.26	.83	.06		.80	.06	.15					1.44	.01				.02			3.63
634B	SANTA MONICA	D														.72		.88		.22						.75								2.57

APRIL

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL
6	TOPANGA	E		.03	.39		.05	.23				.12												.02					T	.50			1.34
15	VAN NUYS	B			.21							.07													.04					.51			.83
32C-E	NEWHALL	E		.12	.26			.09				.03												T					.06	.77			1.33
33A'-E	PACOIMA DAM	E		.16	.18			.15				.36	T											.08					.25	.65			1.83
57B-E	OPID'S	E		.32	.74		.02	.23				.28												.02					.18	3.29			5.08
85D	CAMP BALDY	E		.14	1.55	.01	T	.25				.07	.01																	2.56			4.59
106	WHITTIER	E			.40		.01	.22				.16												T					.06	.82			1.67
121	LANCASTER	B			T									T															.11				.11
130B	SANDBERG'S	C		.13	.08			.05				.02	.01												.24				.01	.65			1.19
185	GLENDORA	E		.07	1.07		.04	.25				.42																	T	.65			2.50
241B	LONG BEACH	A			.40	.14	T	.02				.05	.02											T	T				T	.38			1.01
256B	POMONA	E			.94		T	.11				.47											T	T					T	.44			1.96
283A	CRYSTAL LAKE	E		.16	1.92	T	T	.13				.07	.03																.61	1.80			4.72
321-E	PINE CANYON	C		.17	.39		T	T				.13	T											T					T	.90			1.59
425B-E	SAN GABRIEL #1	E		.11	1.20			.29				.21												T						1.89			3.70
440B	CHILAO	B			.35	.13		.08					.06											.01						1.75			2.38
478	VALYERMO	E																											T	.73			.73
577E	LOS ANGELES	F	T	.05	.08		.11	.02				.11											T	.04					.35		T		.76
610B	PASADENA	E	.09	.21			.04	.19				.59											T	.04					.07	.83			2.06
634B	SANTA MONICA	D			.23			.50				.22												.04						.16			1.15

MAY

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
6	TOPANGA	E							T																				T				T
15	VAN NUYS	B																												.01				.01
32C-E	NEWHALL	E																													T			T
33A'-E	PACOIMA DAM	E																											.07			.10		.17
57B-E	OPID'S	E																																0
85D	CAMP BALDY	E																		.01	T										.10	.01		.12
106	WHITTIER	E																			T													T
121	LANCASTER	B																																0
130B	SANDBERG'S	C																			.59										T			.59
185	GLENDORA	E																											T			T		T
241B	LONG BEACH	A																											T					T
256B	POMONA	E							T																				T			.08		.08
283A	CRYSTAL LAKE	E																		.02	.02											T		.04
321-E	PINE CANYON	C																			.20													.20
425B-E	SAN GABRIEL #1	E																			T	T									T	T	T	T
440B	CHILAO	B																																0
478	VALYERMO	E																																0
577E	LOS ANGELES	F																									T	T	T		T			T
610B	PASADENA	E																											.02					.02
634B	SANTA MONICA	D																																0

TABLE III

SEASONAL 1947-48 DAILY RAINFALL FOR SELECTED STATIONS

RAINFALL RECORDS IN INCHES

JUNE

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL
6	TOPANGA	E	T	.18		T																		.01									.19
15	VAN NUYS	B	T	.22	.02	.02			T																								.26
32C-E	NEWHALL	E	.01	.06		.01																											.08
33A'-E	PACOIMA DAM	E	.02	.34		.12																											.48
57B-E	OPID'S	E	.07	.19					.03																								.29
85D	CAMP BALDY	E	.37	.28																													.65
106	WHITTIER	E	T	.14																													.14
121	LANCASTER	B	.14																														.14
130B	SANDBERG'S	C	.06																														.08
185	GLENDORA	E	.52		.02																			.32									.56
241B	LONG BEACH	A	T	.20			T		.02															T									.22
256B	POMONA	E	T	.20																													.20
283A	CRYSTAL LAKE	E		.50																													.50
321-E	PINE CANYON	C	.04	.01																													.05
425B-E	SAN GABRIEL #1	E	T	.29																				.01									.30
440B	CHILAO	B	.03	.21																													.24
478	VALYERMO	E	.24	.09																													.33
577E	LOS ANGELES	F	.03	.09		T		T																T	T		T	T					.12
610B	PASADENA	E	.02	.39		.01			.02									.06															.50
634B	SANTA MONICA	D		.25																													.25

JULY

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
6	TOPANGA	E																																0
15	VAN NUYS	B																																0
32C-E	NEWHALL	E																																0
33A'-E	PACOIMA DAM	E																																0
57B-E	OPID'S	E																																0
85D	CAMP BALDY	E																																0
106	WHITTIER	E																																0
121	LANCASTER	B																																0
130B	SANDBERG'S	C																																0
185	GLENDORA	E																																0
241B	LONG BEACH	A	T																		T													T
256B	POMONA	E																																0
283A	CRYSTAL LAKE	E																																0
321-E	PINE CANYON	C																																0
425B-E	SAN GABRIEL #1	E																																0
440B	CHILAO	B																																0
478	VALYERMO	E																																0
577E	LOS ANGELES	F																																0
610B	PASADENA	E																																0
634B	SANTA MONICA	D																																0

AUGUST

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
6	TOPANGA	E																																0
15	VAN NUYS	B					T																											T
32C-E	NEWHALL	E																																0
33A'-E	PACOIMA DAM	E																																0
57B-E	OPID'S	E																																0
85-D	CAMP BALDY	E														T																		0
106	WHITTIER	E																																0
121	LANCASTER	B																																0
130B	SANDBERG'S	C																																0
185	GLENDORA	E																																0
241B	LONG BEACH	A																																0
256B	POMONA	E																																0
283A	CRYSTAL LAKE	E																																0
321-E	PINE CANYON	C																																0
425B-E	SAN GABRIEL #1	E																																0
440B	CHILAO	B																																0
478	VALYERMO	E																																0
577E	LOS ANGELES	F																					T											T
610B	PASADENA	E																																0
634B	SANTA MONICA	D																																0

SEPTEMBER

STA. NO.	LOCATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL
6	TOPANGA	E																															0
15	VAN NUYS	B																															0
32C-E	NEWHALL	E																															0
33A'-E	PACOIMA DAM	E																															0
57B-E	OPID'S	E																															0
85D	CAMP BALDY	E														T																	T
106	WHITTIER	E																															0
121	LANCASTER	B																															0
130B	SANDBERG'S	C																															0
185	GLENDORA	E																															0
241B	LONG BEACH	A																															0
256B	POMONA	E																															0
283A	CRYSTAL LAKE	E																															0
321-E	PINE CANYON	C																															0
425B-E	SAN GABRIEL #1	E																															0
440B	CHILAO	B																															0
478	VALYERMO	E																															0
577E	LOS ANGELES	F																					T										T
610B	PASADENA	E																															0
634B	SANTA MONICA	D																															0

LEGEND

* - - - - - INDICATES AMOUNT ESTIMATED FROM NEARBY STATION.
A - - - - - 7:00 A.M. GAGE READING
B - - - - - 8:00 A.M. GAGE READING
C - - - - - 4:00 P.M. GAGE READING
D - - - - - 4:30 P.M. GAGE READING
E - - - - - 5:00 P.M. GAGE READING
F - - - - - MIDNIGHT GAGE READING

DAYLIGHT SAVING TIME-CLOCK ADVANCED ONE HOUR STARTING MARCH 14, 1948

NOTE: FOR SEASON TOTALS SEE TABLE V.

TABLE IV

SEASONAL 1948-49 DAILY RAINFALL FOR SELECTED STATIONS

RAINFALL RECORDS IN INCHES

OCTOBER

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
6	TOPANGA	E																	.01	.14														.15
15	VAN NUYS	B																		.14	.35									T				.19
32C-E	NEWHALL	E												T					T	.12														.12
33A'-E	PACOIMA DAM	E												T						.12														.12
57B-E	OPID'S	E																	T	.30											.03			.33
85D	CAMP BALDY	E												T					.68	.57										T	.05			1.30
106	WHITTIER	E																	.02	.02														.04
121	LANCASTER	B																		.37	.08													.45
130B	SANDBERG'S	C																		.03														.03
185	GLENDORA	E																	.06	.16										.02		.33		.57
241B	LONG BEACH	A																		.02														.02
256B	POMONA	E																	.08	.28	.01								T	T	T	.18		.55
233A	CRYSTAL LAKE	E																	.14	.45														.59
321-E	PINE CANYON	C												.03						.24														.27
425B-E	SAN GABRIEL #1	E																	T	.30									T	T		.06		.36
440B	CHILAO	B																		.37														.37
478	VALYERMO	E																	.32	.72														.74
577E	LOS ANGELES	F											T	T					.04	.04									T	T	T	T		.08
610B	PASADENA	E																	.32	.12										T		.46		.60
634B	SANTA MONICA	D																		.06														.06

NOVEMBER

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL
6	TOPANGA	E																															0
15	VAN NUYS	B																															0
32C-E	NEWHALL	E																															0
33A'-E	PACOIMA DAM	E																															0
57B-E	OPID'S	E																															0
85D	CAMP BALDY	E																															0
106	WHITTIER	E																															0
121	LANCASTER	B																															0
130B	SANDBERG'S	C			T																							.04					.04
185	GLENDORA	E																															0
241B	LONG BEACH	A																															0
256B	POMONA	E			T	.05																											.05
233A	CRYSTAL LAKE	E																															0
321-E	PINE CANYON	C																										T					T
425B-E	SAN GABRIEL #1	E																															0
440B	CHILAO	B																															0
478	VALYERMO	E																															0
577E	LOS ANGELES	F			T																												T
610B	PASADENA	E			0																												0
634B	SANTA MONICA	D																															0

DECEMBER

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
6	TOPANGA	E			.05	.04										.02			2.06					.50					1.41					4.08
15	VAN NUYS	B				.06										T			1.40	.24				T	.19				.92	.05				2.86
32C-E	NEWHALL	E			.24		T									.05		T	1.62	.03				.06	T			.02	1.02	T				3.04
33A'-E	PACOIMA DAM	E			.22	.10										.02		.01	1.52					.23					.91					3.01
57B-E	OPID'S	E			.19	.83										T		T	3.04	.05				.33				T	1.80					6.24
85D	CAMP BALDY	E				.65											T		1.50	.03				.45	T			T	1.41					4.04
106	WHITTIER	E				.14										.03			1.59					.24				.13	.53					2.66
121	LANCASTER	B				.42										.02			.56										.50					1.50
130B	SANDBERG'S	C			.15	.13		T									.05		.91									.01	.72					1.97
185	GLENDORA	E				.32										T	.01		1.95	.04				.41					1.12					3.85
241B	LONG BEACH	A				.10										.01	T		.68	.35				.08	.48	T			.77	.04				2.46
256B	POMONA	E				.10													1.23	.04				.40	.09			T	.97					2.33
283A	CRYSTAL LAKE	E				.73										.05			2.29					.40	.03			T	1.91					5.41
321-E	PINE CANYON	C			.08	.01										.06	.07	.02	1.50	.02				.03				T	.82					2.61
425B-E	SAN GABRIEL #1	E			T	.54										T			1.44					.30	.01				1.21					3.50
440B	CHILAO	B				.49										.02			1.13	.43					.19					1.55				3.81
478	VALYERMO	E				.18													.63					.08					.81					1.70
577E	LOS ANGELES	F			.09											T		.99	.19					.16				.56	.32					2.25
610B	PASADENA	E			.02	.30										.02		.01	1.29	.01				.30				.15	.94	T				3.04
634B	SANTA MONICA	D			T											.07			.97	.19				.03	.03				.87	.02				2.18

JANUARY

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
6	TOPANGA	E									T		.16	.36	.23	.28					.43	1.26		.69	.12	.17								3.70
15	VAN NUYS	B											.34	.38	.14	.20	.06					.68	.01	T	.21	.05								2.07
32C-E	NEWHALL	E									.01	.17	.24	.41	.08	.28					.27	.50		.43		.02	T							2.41
33A'-E	PACOIMA DAM	E									T	.10	.04	.30	.10	.31					.34	.67		.70	.14	.04								2.74
57B-E	OPID'S	E										.60	.92	.41	.81	.51					.48	2.31	.04	.70		.23	.06							7.07
85D	CAMP BALDY	E		T							.56	.31	.35	.30	1.09	.42					.40	1.48	T	.40	.34	.03	.12							5.80
106	WHITTIER	E										.01	.21	.11	.68	.06					.15	.69		.12	.03	.01								2.07
121	LANCASTER	B										.15	.41	.24	.42	.05	T					.04		.12	.05		.22							1.70
130B	SANDBERG'S	C			.11							.05	.47	.33	.21	.04					.10	.04		.13	.05	.04	.06							1.63
185	GLENDORA	E									.13	.14	.38	0	.36	.23	.01				.29	1.36	.01	.45	.06	.05								3.47
241B	LONG BEACH	A		.01							T	.04	.40	.13	.70	.09	.11				.01	.53	.06	T	.20	T								2.28
256B	POMONA	E										.10	.30		.37	.20					.29	1.36		.15	.06									2.83
283A	CRYSTAL LAKE	E		.01							.67	.18	.43	.36	.62	.46					.42	1.59		.55	.35	.10	.37	.07						6.18
321-E	PINE CANYON	C									T	.12	.72	.14	.38	.04					.10	.36		.41	.35	.03	.11	.01						2.77
425B-E	SAN GABRIEL #1	E									.33	.09	.39	.09	.32	.20					.32	1.97		.76	.20									4.61
440B	CHILAO	B									.17	.16	.58	.27	.46	.53	.05					.72	.06		.57		.70								4.27
478	VALYERMO	E									.04	.20	.61	.07	1.70	.03					.02				0	.05	.31	.11						3.14
577E	LOS ANGELES	F								T	.01	.05	.44	.37	.13	.03					.61	.39		.20	.01	.02	T							2.26
610B	PASADENA	E									.08	.04	.36	.21	.53	.21					.24	1.20		.47	.15	.03								3.52
634B	SANTA MONICA	D										.04	.16	.38	.27	.11					.19	1.01			0	.23								2.39

TABLE IV

SEASONAL 1948-49 DAILY RAINFALL FOR SELECTED STATIONS

RAINFALL RECORDS IN INCHES

FEBRUARY

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	TOTAL
6	TOPANGA	E			.47				.51				.14									T				.35		.06	.05		1.58
15	VAN NUYS	B			.02	.21	.02			.19				.06													.08		.15		.73
32C-E	NEWHALL	E		T	.06	T	.01		.13	.02			.08	.04								T				.33	T	.20	.03		.90
33A'-E	PACOIMA DAM	E			.22		T		.35				.34	.02								.02				.55	.42	.18	.26	.01	2.37
57B-E	OPID'S	E	T	T	.33				.39	.04			.45	.36												.66	.34	.36	.49	.04	3.46
85D	CAMP BALDY	E		T	.23				.42				.26	.37	T											.69	.60	.17	.53	.24	3.45
106	WHITTIER	E			.35		.03		.45				.22													.10		.20	.23		1.58
121	LANCASTER	B			T					.01			.12													.01			.40	.54
130B	SANDBERG'S	C		.03					.14	.01			.01	.18												.01		.05	.03		.46
185	GLENDORA	E			.33				.41				.40	.20												.52	.12	.42	.57	.35	3.32
241B	LONG BEACH	A			.01	.14	.01	.03	.01	.49				.10	.05											.07	.14		.30	.03	1.38
256B	POMONA	E			.35		T		.38	T			.18	.14								T					.21	.13	.32	.25	1.95
283A	CRYSTAL LAKE	E	0	.01	.18				.35	.03			.18	.63	.02											.80	.24	.18	.56	.13	3.31
321-E	PINE CANYON	C			.15				.07				.19	.01												.36	.06	.23	.12	.02	1.21
425B-E	SAN GABRIEL #1	E			.30	.02			.51	.02			.56	.26												.85	.26	.29	.52	.04	3.63
440B	CHILAO	B			0	.13				.22				.35												.30			.40	.14	1.54
478	VALYERMO	E							.02				.01															T	T		.03
577E	LOS ANGELES	F			.30		T		.43				.17		T							T				.18		.19	T		1.27
610B	PASADENA	E	T		.26		.05		.43				.22	.14												.31	.09	.30	.29	.02	2.11
634B	SANTA MONICA	D			.57				1.03				.16													.10	.22				2.08

MARCH

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
6	TOPANGA	E		T	.76	.32	.07		.01				.62								.20			.03	.04	.05	.05						T	2.15
15	VAN NUYS	B			.12		.15			.20			.37									.06		T			T			.01				.91
32C-E	NEWHALL	E		.50	.43	.29			.02				.53								.08			.01	T	T								1.86
33A'-E	PACOIMA DAM	E			.17	.32	.05		T				.47								.37	.01		T		.05	.04						T	1.48
57B-E	OPID'S	E		.05	.46	.61	.61						1.23								.55				.02	.06	.13				T	.15	3.87
85D	CAMP BALDY	E		T	.06	.05	.56			.08			.82								.51	.03		.02	.35	.09	.03				T	.46	3.05
106	WHITTIER	E			T	.58							.40								.11			T	.24	.02	.04							1.39
121	LANCASTER	B				T			.05				.02								T			.32		.05							.16	.60
130B	SANDBERG'S	C		.09	.14	.12	.01					.05	.42								.14	.31			.10	.04							.11	1.53
185	GLENDORA	E			.07	.30	.39		.10				.65								.23	.02								.05		T	.02	1.83
241B	LONG BEACH	A	T		T		.12						.45									.09			.01	T	.33							1.00
256B	POMONA	E			T		.40		.05				.57								.11	T		T	.13					.03			T	1.29
283A	CRYSTAL LAKE	E		.05	.31	.30	.63		T				.75								.43	.02		T	.22	.02	.06			.02	T	T	.60	3.41
321-E	PINE CANYON	C		.19	.78	.22	.05		.05	T			.75								.30	.08		.24	.19	.04						.05	.03	2.97
425B-E	SAN GABRIEL #1	E		T	.22	.41	.53		.08				.92								.36	.03		T	.02	T	.02			.04			.13	2.76
440B	CHILAO	B		.24			.53						.50									.24			.06		.29		T			.40	2.26
478	VALYERMO	E				.17															.02								T			.28	.47
577E	LOS ANGELES	F		.04		.50			T			.50	.22								.13			.03		.01			.01	T			1.44
610B	PASADENA	E		T	.05	.16	.29		.09				.81								.19	.02		T	.01	T	.07			T			.02	1.71
634B	SANTA MONICA	D			.23	.29			.48				.65								.15				.06	.01								1.86

APRIL

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL
6	TOPANGA	E																		.02													.02
15	VAN NUYS	B																		T	T												T
32C-E	NEWHALL	E						.02																									.02
33A'-E	PACOIMA DAM	E															.03			.03	.06												.12
57B-E	OPID'S	E																															0
85D	CAMP BALDY	E		.02				T											T														.02
106	WHITTIER	E																		.02											T		.02
121	LANCASTER	B						T																									T
130B	SANDBERG'S	C						.13																									.13
185	GLENDORA	E																		.06													.06
241B	LONG BEACH	A			T														T	T													T
256B	POMONA	E																	.02	T													.02
283A	CRYSTAL LAKE	E		T															T	T													T
321-E	PINE CANYON	C						.07																									.07
425B-E	SAN GABRIEL #1	E																			.01												.01
440B	CHILAO	B						T																									T
478	VALYERMO	E																															0
577E	LOS ANGELES	F		T				T								T	T		T	T							T			T	T		T
610B	PASADENA	E		T				T									.01			.06	.01												.08
634B	SANTA MONICA	D																															0

MAY

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
6	TOPANGA	E													T			.01	.16	.41	.39													.97
15	VAN NUYS	B													.01	.01	.02		.01	.09	.26	.01													.41
32C-E	NEWHALL	E																.03	.03	.28	.80	.01													1.15
33A'-E	PACOIMA DAM	E			.11										.05	.21	.07	.09	.17	.28	1.13	.03								T					2.14
57B-E	OPID'S	E														.16	.18	.03	07	.37	1.20	.04													2.05
85D	CAMP BALDY	E														.22	.15	.03	.11	.10	.70														1.31
106	WHITTIER	E														.07		.01	.09	.04	.56														.77
121	LANCASTER	B																	.07		.01														.08
130B	SANDBERG'S	C														.07	.01	.03		.25	.31														.67
185	GLENDORA	E														.06	.20	.25	.07	.15	.31														1.04
241B	LONG BEACH	A														T	.06	T	T	.13	.11	T													30
256B	POMONA	E													T	.01	.01	.02	.03	.05	.24	.01													.37
283A	CRYSTAL LAKE	E														.26	.05	.02			1.82														2.15
321-E	PINE CANYON	C														.03			.02	.10	.28														.43
425B-E	SAN GABRIEL #1	E				.01										.11	.08	.03	.22	.39	.39	T													1.23
440B	CHILAO	B														.11		.06	.05	.32	.50	.05													1.09
478	VALYERMO	E																	.08		.03														.11
577E	LOS ANGELES	F		T	T								T	T	T	.02	T	.04	.05	.22	.08							T	T	T					.41
610B	PASADENA	E														T	T	.01	.05	.20	.24	.69								T					1.19
634B	SANTA MONICA	D														T	T	T	.07	.17	.45														.69

TABLE IV

SEASONAL 1948-49 DAILY RAINFALL FOR SELECTED STATIONS

RAINFALL RECORDS IN INCHES

JUNE

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL
6	TOPANGA	E																															0
15	VAN NUYS	B																	T														T
32C-E	NEWHALL	E																						T									T
33A'-E	PACOIMA DAM	E																	.02	.01													.03
57B-E	OPID'S	E																															0
85D	CAMP BALDY	E																															0
106	WHITTIER	E																															0
121	LANCASTER	B																															0
130	SANDBERG'S	C																						.04									.04
185	GLENDORA	E																															0
241B	LONG BEACH	A																								T	T						T
256B	POMONA	E																															0
283A	CRYSTAL LAKE	E																															0
321-E	PINE CANYON	C																															0
425B-E	SAN GABRIEL #1	E																															0
440B	CHILAO	B																															0
478	VALYERMO	E																															0
577E	LOS ANGELES	F								T									T									T		T			T
610B	PASADENA	E																	T										T				T
634B	SANTA MONICA	D																															0

JULY

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
6	TOPANGA	E																																0
15	VAN NUYS	B																																0
32C-E	NEWHALL	E																																0
33A'-E	PACOIMA DAM	E																																0
57B-E	OPID'S	E																																0
85D	CAMP BALDY	E																																0
106	WHITTIER	E																																0
121	LANCASTER	B																																0
130	SANDBERG'S	C																																0
185	GLENDORA	E																																0
241B	LONG BEACH	A																															T	T
256B	POMONA	E																																0
283A	CRYSTAL LAKE	E																																0
321-E	PINE CANYON	C																																0
425B-E	SAN GABRIEL #1	E																																0
440B	CHILAO	B																																0
478	VALYERMO	E																																0
577E	LOS ANGELES	F	T																									T	-			T		T
610B	PASADENA	E																																0
634B	SANTA MONICA	D																																0

AUGUST

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
6	TOPANGA	E																																0
15	VAN NUYS	B																																0
32C-E	NEWHALL	E																					T											T
33A'-E	PACOIMA DAM	E									T																							T
57B-E	OPID'S	E																																0
85D	CAMP BALDY	E																																0
106	WHITTIER	E																																0
121	LANCASTER	B																						T										T
130	SANDBERG'S	C																				T												T
185	GLENDORA	E																																0
241B	LONG BEACH	A																						T										T
256B	POMONA	E																																0
283A	CRYSTAL LAKE	E																					T	T										T
321-E	PINE CANYON	C																																0
425B-E	SAN GABRIEL #1	E																																0
440B	CHILAO	B																																0
478	VALYERMO	E																																0
577E	LOS ANGELES	F								T	0													.01										.01
610B	PASADENA	E																																0
634B	SANTA MONICA	D																					T	T										T

SEPTEMBER

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL
6	TOPANGA	E																															0
15	VAN NUYS	B								T																							T
32C-E	NEWHALL	E																															0
33A'-E	PACOIMA DAM	E																															0
57B-E	OPID'S	E																															0
85D	CAMP BALDY	E																				.22	1.19										1.31
106	WHITTIER	E																															0
121	LANCASTER	B																															0
130	SANDBERG'S	C																															0
185	GLENDORA	E																															0
241B	LONG BEACH	A																															0
256B	POMONA	E																															0
283A	CRYSTAL LAKE	E								T	.03											.07	T	T									.10
321-E	PINE CANYON	C																				.04											.04
425B-E	SAN GABRIEL #1	E																															0
440B	CHILAO	B																															0
478	VALYERMO	E																				T											T
577E	LOS ANGELES	F								T	.01										T	T											.01
610B	PASADENA	E								T	T																						T
634B	SANTA MONICA	D																															0

LEGEND

* - - - - - INDICATES AMOUNT ESTIMATED FROM NEARBY STATION.

A - - - - - 7:00 A.M. GAGE READING

B - - - - - 8:00 A.M. GAGE READING

C - - - - - 4:00 P.M. GAGE READING

D - - - - - 4:30 P.M. GAGE READING

E - - - - - 5:00 P.M. GAGE READING

F - - - - - MIDNIGHT GAGE READING

DAYLIGHT SAVING TIME ENDED DECEMBER 31, 1948

NOTE: FOR SEASON TOTALS SEE TABLE VI.

TABLE V

SEASONAL 1947-48 MONTHLY RAINFALL SUMMARY

RAINFALL RECORDS IN INCHES

STA. NO.	STATION	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
2B	ESCONDIDO CANYON	.23	0	1.39	.02	1.14	4.02	1.48	0	.22	0	0	0	8.50
3B	SEMINOLE HOT SPRINGS	.02	0	1.19	0	2.93	5.18	1.89	.20	.12	0	0	0	11.53
5B	CALABASAS	.13	0	1.68	.02	1.68	2.72	1.22	0	.36	0	0	0	7.81
6	TOPANGA PATROL STATION	.14	0	1.95	.03	1.54	5.73	1.34	T	.19	0	0	0	10.92
7C	BEL-AIR BAY CLUB	.09	T	1.38	.08	.72	2.48**	1.05*	0	.22	T	T	0	6.02**
9	SEPULVEDA & CHASE - LARSON	.07	0	1.82	0	1.12	3.09	.80	0	.30	0	0	0	7.20
10	BEL-AIR HOTEL	.04	.07	1.52	.02	1.38	3.40	1.02	0	.28	0	0	0	7.73
11C	UPPER FRANKLIN RESERVOIR	.06	.04	1.92	0	1.50	4.14	.81	T	.31	0	0	0	8.78
12	FRANKLIN & MULHOLLAND PATROL #1	.05	.01	1.82	0	1.48	4.19	1.00	0	.33	0	0	0	8.88
13	NORTH HOLLYWOOD BLIX	.02	.13	1.70	0	1.63	3.23	.53	0	.16	0	0	0	7.40
14	ROSCOE - MERRILL	.03	T	2.07	0	1.19	2.97	.73	T	.26	0	0	0	7.25
15	VAN NUYS - WAREHOUSE	.10	T	1.69	0	1.28	3.64	.83	.01	.26	0	T	0	7.81
17	SEPULVEDA & MULHOLLAND	.08	0	1.58	0	1.46	3.91	1.08	0	.25	0	0	0	8.36
18	ADOHR DAIRY	.06	.01	1.63	0	1.07	3.21	.95	0	.31*	0	0	0	7.24**
20B	GIRARD RESERVOIR	.14	0	1.47	0	1.94	3.19	1.14	0	.38	0	0	0	8.26
21	BRANT RANCH - GIRARD	.28	0	1.43	0	1.45	2.37	.67	0	.37	0	0	0	6.57
23-E	CHATSWORTH RESERVOIR	.29	T	1.39	T	1.33	2.50	.96	T	.21	0	0	T	6.68
24D	CHATSWORTH	.20	0	1.20	0	1.15	2.97	1.35**	0	.18	0	0	0	7.05**
25B	NORTHRIDGE - ANDREWS	.24	.03	1.52	T	1.33	2.48	.81	T	.52	0	0	0	6.93
27B	PACOIMA - RADDATZ RANCH	.08	0	1.71	0	1.40	2.99	.60*	0*	.42*	0	0	0	7.20**
28B	SAN FERNANDO LEMON ASSOCIATION	.11*	T	1.64	0	1.33	2.80	.87	.02	.54	0	0	0	7.31**
29B	GRANADA PUMP PLANT	.17	.01	1.55	0	1.46	3.23	1.53	.07	.45	0	0	0	8.47
30	SYLMAR	.11	.02	1.54	0	1.43	3.23	1.34	.07	.43	0	0	0	8.17
31	ORCUTT RANCH - OAT MOUNTAIN	N.I.								N.I.	0	0	0	INC.
32C-E	NEWHALL - SOLEDAD DIVISION HEADQUARTERS	.03	T	1.57	0	1.59	2.97	1.33	T	.08	0	0	0	7.57
33A'-E	PACOIMA DAM	.12	.02	1.70	0	1.78	3.36	1.83	.17	.48	0	0	0	9.46
38	CHAPPEL RANCH - HANSEN HEIGHTS	0	0	1.30	T	1.19*	2.34	.96	0	.21	0	0	0	6.58**
39B	SUNSET DAM	.14	.11	2.01	.03	1.58	3.16	1.56	.08	.30	0	0	T	8.97
42	REDONDO CITY HALL	.25	0	1.18	.01	.79	1.80	.55	0	.07	0	0	0	4.65
43A	PALOS VERDES ESTATES - ADMINISTRATION BUILDING	.08	0	1.45	0	.95	1.52	.69	0	.05*	0	0	0	4.74**
43B	PALOS VERDES - GOLF CLUB	N.R.	N.R.	1.35	N.R.	N.R.	2.03	.79**	0	.03	N.R.	N.R.	N.R.	INC.
44	POINT VICENTE LIGHTHOUSE	.47	0	1.33	T	.55	1.34	.65	0	.05	0	0	0	4.39
46D-E	BIG TUJUNGA DAM	.08	0	2.86	0	3.38	4.07	2.38	0	.30	0	0	0	13.07
47A	CLEAR CREEK	T	T	3.22	0	3.36	4.63	4.01**	T	.30	0	0	0	15.52**
47C	CLEAR CREEK	.08	0	3.10	0	3.45	4.40	3.25	T	.34	0	0	0	14.62
48	OAK WILDE	.01*	0	2.86	0	2.69**	4.01	3.83	0	.54	0	0	0	13.94**
50B	LA CANADA - ARROYO SECO DIVISION HEADQUARTERS	.03	.10	2.12	T	2.08	3.57	1.64	.03	.29	0	0	0	9.86
51	FALLING SPRINGS (LA CIENEGA)	.33	.08	3.95	0	4.41	3.85	3.61	0	.38	0	0	0	16.61
52B	SWITZER'S CAMP '	T	.02*	3.08	0	3.15	4.00**	3.49	0	.28	0	0	0	14.02**
52C	WATERMAN GUARD STATION	T*	.02*	3.01	0*	3.59	4.29	3.84	.01	.18	0	0	0	14.94**
53A	SLEEPY HOLLOW RANCH (COLBY'S)	.16	0	3.51	0	3.48	3.63	3.16	T	.29	0	0	0	14.23
54	LOOMIS RANCH - ALDER CREEK	.42	T	2.95	0	2.70	2.81	2.58	T	.35	0	0	0	11.81
56	KAMP KOLE (VALLEY FORGE LODGE)	0	0	3.53**	0	4.87**	5.74	4.75**	0	.30	0	0	0	19.19**
57B-E	OPID'S - CAMP HI HILL	.04	.03	3.58	0	5.38	5.12	5.08	0	.29	0	0	0	19.52
58	STURTEVANT CAMP	.05*	.06*	2.98	0	4.97	5.25	5.14	0*	.55*	0*	0*	0*	19.00**
60A	HOEGEE'S - CAMP IVY	.06	.06	3.27	0	4.88	5.68	5.14	0	.59	0	0	0	19.68
62	BIG SANTA ANITA GUARD STATION	.02	.05	2.54	T	2.81	4.82	3.50	0	.43	0	0	0	14.17
63B-E	BIG SANTA ANITA DAM	.06	.01	1.95	0	2.30	4.12	3.28	.02	.50	0	0	0	12.24
66	SIERRA MADRE - PEGLER RANCH	0	0	2.33	0	1.85	3.92	2.94	.08*	.47*	0*	0*	0*	11.59**
67B	MONROVIA - CITY HALL	T	.02	2.22	T	1.75	3.20	2.60	T	.41	0	T	0	10.20
68B	SAWPIT DAM	.08	.04	2.54	.03	2.14	4.29	3.72	.03	.44	0	.02	0	13.33
69	SAWPIT CANYON (HOGBACK)	.10	T	2.99	.03	2.40	4.36	4.42	.04	.35	0	0	0	14.69
70	ROGER'S CANYON - DALTON	.08	.10	2.09	T	2.03	3.39	2.77	.04	.40	0	0	0	10.90
73	GLENDORA - ENGLEWILD RANCH	.02	.06	2.99	0	2.57	3.37	2.73	.03	.50	0	0	0	12.27
76B	SAN GABRIEL DAM #1 CAMP	T	T	2.55	.03	3.49	3.76	3.36	.01	.31	0	0	0	13.51
82D	TABLE MOUNTAIN	.20	.24	2.54	T	1.55	.92	1.09	.08	.54	0	0	T	7.16
83	BIG PINES RECREATION PARK	.33	.22	4.23	0	4.43	2.82	2.07	.15	.60	0	0	0	14.85
85D	CAMP BALDY GUARD STATION	.15	T	3.61	.01	5.75	4.42	4.59	.12	.65	0	0	T	19.30
87	SAN DIMAS GUARD STATION	0	.07	2.38	.01	3.58	3.84	2.61	.08	.29	0	0	0	12.86
89-E	SAN DIMAS DAM	0	.10	2.19	T	3.15	3.53	2.28	.03	.35	0	0	T	11.63
90	ELDER RANCH (BRYDON RANCH)	0	.09	2.26	.03	2.96	3.43	2.28	.09	.44	0	0	0	11.58
91	INDIAN HILL - CLAREMONT	0	.24	2.59	.02	2.35	3.18	2.47	.12	.59	0	0	0	11.56
92	CLAREMONT - POMONA COLLEGE	.01	.16	2.13	.02	2.00	3.01	2.23	.09	.49**	0*	0*	0	10.14**
93	CLAREMONT - FIRE STATION	T	.15	2.14	.02	1.97	2.91	2.34	.10	.49	0	0	0	10.12
94	CHARTER OAKS - FIELDS RANCH	0	.27	2.72	.18	2.28**	3.47**	2.24	0	.51	0	0	0	11.67**
95	SAN DIMAS - SAN JOSE DIVISION HEADQUARTERS	0	.01	2.37	0	2.25	3.50	1.93	.03	.44	0	0	0	10.53
96-E	PUDDINGSTONE DAM	0	.08	2.25	.04	2.46	2.98	1.92	.06	.52	0	0	0	10.31
98	AZUSA - HIBSCH	.01*	0	2.20	.01	2.03	2.86	2.68	0	.50	0	0	0	10.29
99	AZUSA - FOOTHILL RANCH	0	0	2.49	0	2.07	2.94	2.51	0	.42	0	0	0	10.43
101	WEST COVINA - HURST RANCH	.03	.07	2.52	0	1.68	2.93	1.67	0	.36	0	0	0	9.26
102B	WALNUT - SOUTH HILLS PATROL STATION	.13	.25	2.75	T	1.54	2.92	1.90	.01	.05	0	0	0	9.55
104	NORTH WHITTIER HEIGHTS - COLE RANCH	.11	.26	2.56	0	1.49	3.97	.59	0	.22	0	0	0	9.20
105	EAST WHITTIER - SHARPLESS RANCH	.09	.56	2.32	0	1.06	2.92	1.46	0	.32	0	0	0	8.73
106	WHITTIER - CITY HALL	.10	.28	2.12	0	1.10	3.07	1.67	T	.14	0	0	0	8.48
107B	DOWNEY - FIRE STATION	.07	.17	3.73	0	1.11	2.41	1.10	0	.03	0	0	0	8.62
108B	EL MONTE - FIRE STATION	.02	.24	3.03	0	1.61	2.72	1.97	0	.29	0	0	0	9.88
109C	WEST ARCADIA	.04	.22	2.72	0	1.29	4.19	2.26	0	.38	0	0	0	11.10
110	ALHAMBRA - CITY HALL	T	.14	2.90	T	1.41	4.12	2.11	0	.24	0	0	0	10.92
111	SOUTH PASADENA - CITY HALL	.02	.08	1.90	T	1.85	3.93	1.57	0	.34	0	0	0	9.69
114	ROSECRAN'S RANCH - GARDENA	.08*	0	1.65	.08	1.00	2.22	.69	0	.14*	0	0	0	5.86**
116B	INGLEWOOD - FIRE STATION #1	.23	.09	.96	.06	1.15	2.56	.59	0	.09	0	0	0	5.73
117B'	COMPTON - FIRE STATION	.08	0	2.11	.10	.91	2.08	.84	0	.15*	0	0	0	6.27**
118B	WILMINGTON	.27	0	2.50	T	.77	1.57	.85	0	.04	0	0	0	6.00
119D	SAWTELLE - SOLDIER'S HOME	.24	.02	.75	.15	1.95	2.86	.95	.02	.25	0	0	0	7.19
120	VINCENT PATROL STATION	.13	.03	1.94	0	1.61	1.52	.39	0	.09	0	0	0	5.71
121	LANCASTER - UNION HIGH SCHOOL	.11	T	1.57	0	.81	.78	.11	0	.14	0	0	0	3.52
122B	LEONIS VALLEY - RITTER RANCH	.10	.02	2.21	0	1.70	2.30	.50	0	.11	0	0	0	6.94
124B	BOUQUET CANYON RESERVOIR	.15	0	2.00	0	1.85	3.11	1.55	0	.06	0	0	0	8.72
125	SAN FRANCISQUITO CANYON POWER HOUSE #1	.15	.01	1.99	0	1.91	2.72	1.92	.08	.10	0	0	0	8.88
126	VENICE - CITY YARDS	.09	0	1.90	0	.96	2.57	.98	0	.18	0	0	0	6.68
127	DRY CANYON RESERVOIR	.13	0	1.50	0	1.16	1.90	.81	T	.03	0	0	0	5.53
128B	ELIZABETH LAKE CANYON - WARM SPRINGS CAMP	.01	0	1.53	0	2.90	4.53	2.64	.19	.08	0	0	0	11.88
130B	SANDBERG'S - QUAIL LAKE PATROL STATION	.05	.17	1.79	0	1.02	2.29	1.19	.59	.08	0	0	0	7.18
134	SAN DIMAS - STEVENS	0	.19	2.12	0	2.75	3.82	2.05	.07	.49	0	0	0	10.99
135	NORWALK	.02	.06	1.60	0	.91	1.88	1.03	0	.11	0	0	0	5.61
136B	HOLLYWOOD - CITY ENGINEER	.01	.08	1.67	0	1.55	3.29	.82	.01	.30	0	0	0	7.73
139	LOS ANGELES WATER DEPT. 2ND & BROADWAY	.07	.02	1.46	T	.99	2.97	.63	0	.15	0	0	0	6.29
140	SAWTELLE - CITY HALL, WEST LOS ANGELES	.07	.01	1.58	.25	1.09	3.09	.93	.01	.30	0	0	0	7.33
143	AZUSA - CITY PARK	.01	T	2.05	T	1.96	2.89	3.27	T	.47**	0	0	0	10.65**
144	SIERRA MADRE DAM	0	0	2.57	0	2.25	4.05	3.00	0	.73	0	0	0	12.60
150	MONROVIA FALLS	.04	T	2.54	.02	2.61	4.71	4.06	.04	.54	0	0	0	14.56
155B	LITTLE ROCK CREEK	.23	.11	2.06	0	1.69	1.86	.36	0	.41	0	0	0	6.72
156	LA MIRADA - STANDARD OIL CO.	.03	0	1.25	0	1.39	2.25	1.24	0	.04	0	0	0	6.20
157	EL SEGUNDO - STANDARD OIL CO.	.25	T	1.15	.06	1.14	2.21	.59	T	.01	0	0	0	5.41

TABLE V

SEASONAL 1947-48 MONTHLY RAINFALL SUMMARY

RAINFALL RECORDS IN INCHES

STA. NO.	STATION	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
158	TANBARK FLATS	0	.08	3.10	.04	4.02	4.01	3.72	.13	.73	0	0	0	15.83
167	ARCADIA PUMPING PLANT #1	T	0	2.09	.01	1.86	3.54	3.10	.08	.24	0	0	0	10.92
169	SIERRA MADRE PUMPING PLANT	0	0	2.28	0	1.84	3.58	2.59	0	.53	0	0	0	10.82
170B	POTRERO HEIGHTS	.08	.06	3.65	T	1.42	3.38	1.20	0	.27	0	0	0	10.06
171	CHAPMAN WELLS	.07	.08	2.49	.01	1.85	3.79	2.50	.04	.41	0	0	0	11.24
174	GLENDORA - WARREN	T	.08	3.01	.02	3.10	3.38	2.46	.05	.42	0	0	0	12.52
175B	ALTA CANYADA - LA CANADA IRR. DISTRICT	.01	0	2.44	0	2.41	3.74	1.99	.10	.38	0	0	0	11.07
176	RUBIO CANYON WATER COMPANY	T	.01	1.90	0	2.47	3.34	2.10	.05	.43	0	0	0	10.30
177C	LA CANADA - BRADFORD	0	.03	2.23	0	1.85	3.63	1.54	0	.30	0	0	0	9.58
178	AZUSA - GRIFFITH	.11	.11	2.51	.04	1.96	2.41	1.77	0	.36	0	0	0	9.27
179B	SIERRA MADRE - CARTER	T	.01	2.65	0	2.38	3.97	2.97	.05	.77	0	0	0	12.80
181B	BASSETT - CLIFFORD	.05	.01	2.93	.02	1.60	2.68	1.97	T	.28	0	T	0	9.54
182B	BALDWIN PARK	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	1.74	N.R.	N.R	N.R.	N.R.	N.R.	INC.
185	GLENDORA - WEST	.03*	.01	3.19	.02	2.78	3.21	2.50	T	.56	0	0	0	12.30**
188C	SAN DIMAS - MORRISON	0	.08	2.31	T	2.51	3.23	1.95	.04	.42	0	0	0	10.54
192B	BELL - FIRE STATION	.13	.10	1.90	0	.95	2.46	.96	0	.06	0	0	0	6.56
193	COVINA #2 - TEMPLE	.11	.12	3.95	.03	2.24	2.87	1.78	.02	.48	0	0	T	11.60
196B	LA VERNE - POLICE DEPARTMENT	T	.14	2.69	.06	2.52	2.84	2.00	.09	.55	0	0	0	10.89
198B	BRAND DEBRIS BASIN	.14	.40	1.54	0	1.29	3.41	1.12	.04	.27	0	0	0	8.21
199B	HUNTINGTON PARK - CITY YARD	.12	.04	1.40	T	.97	2.53	1.17	0	0	0	0	0	6.23
200	SAUGUS - SO. CALIF. EDISON CO. SUBSTATION	.09	0	1.31	0	1.49	2.18	1.11	T	.06	0	0	0	6.24
201	PUENTE HILLS - ALTA MIRA RANCH	.07	.34	2.48	0	1.27	3.47	2.44	0	.23	0	0	0	10.30
205	PUENTE - SO. CALIF. EDISON CO. SUBSTATION	.02	.35	2.19	0	1.62	3.25	1.97	0	.17	0	0	0	9.57
206	VALENCIA HEIGHTS	.03*	.07*	2.51	0	1.86	2.89	1.74	0	.36*	0	0	0	9.46**
208	ARTESIA - BARR LUMBER COMPANY	.06	.08	2.20	0	1.16	1.81	.95	0	.04	0	0	0	6.30
210B	BRAND PARK	.13	.44**	2.01	0	1.30	3.39	1.29	.05*	.30*	0	0	0	8.91**
213	LOS ANGELES - HANCOCK PARK	.08	.02	1.63	0	1.39	3.09	.76	0	.39	0	0	0	7.36
215B	BELLFLOWER - FIRE STATION	.01	.10	3.11	0	1.04	1.88	.92	0	.07	0	0	0	7.13
216	GLENDALE - JONES	.09	.09	1.68	T	1.63	3.59	.98	.01	.18	0	0	0	8.25
217	WATTS - JORDAN HIGH SCHOOL	T	T	1.52	T	.98	2.09	.70	0	.04	0	0	0	5.33
219	PACOIMA - WAREHOUSE CO. FORESTRY	.17	T	1.78	0	1.39	3.11	.35	0	.35	0	0	0	7.15
221B	PACOIMA WASH - DUCKWORTH RANCH	.05	.01	1.63	0	1.89	3.17	1.56	.14*	.42*	0	0	0	8.87**
222	LANKERSHIM GENERATING PLANT	.01	0	1.44	0	1.02	2.47	.39	T	.25	0	0	0	5.58
223B-E	BIG DALTON DAM	0	.02	2.96	0	3.40	3.90	3.70	.04	.58	0	0	0	14.60
224B	LONG BEACH - ALAMITOS LAND COMPANY	.10	0	1.40	0	1.14	1.28	.92	T	.28	0	0	0	5.12
225	MONTANA RANCH	.13	.04	2.37	0	.95	1.54	.76	0	.04	0	0	0	5.83
226	BURBANK - FIRE STATION	.08	.37	1.46	0	1.26	3.05	1.00	.05	.17	0	0	0	7.44
227B	SAN GABRIEL - GLEASON	.02*	.11*	2.66	.04	1.24	4.08	2.76	0	.33*	0	0	0	11.24**
228B	BEVERLY HILLS - CITY HALL	.06	.04	1.62	T	1.30	3.14	.97	0	.26	0	0	0	7.39
230C	LIVE OAK CANYON - ELDER	0	.40	2.28	0	2.35	3.09	2.32	.11	.48*	0	0	0	11.03**
234	COVINA - THORPE	0	0	2.25	0	1.70	3.45	1.76	0	.65	0	0	0	9.81
235B	HENNIGER FLATS	.03	.05	2.42	.01	3.05	3.92	3.60	.05	.39	0	0	0	13.52
236	SAN FERNANDO - MOLLIN GROVES	0	0	1.60	0	1.66	3.52	1.80**	.14	.42	0	0	T	9.14**
237B	STONE CANYON RESERVOIR	0	0	NO	RECORD									INC.
237A	STONE CANYON DAM	.03	.04	1.61	T	1.39	4.37	.63	0	.34	0	0	0	8.41
238	HOLLYWOOD DAM	.04	.02	1.73	0	1.23	3.37	.86	.02	.36	0	0	0	7.63
240B	LITTLE TUJUNGA CANYON - ODDOUS RANCH	.22	.18	2.20	0	2.63	3.34	1.74	0	.37	0	0	0	10.68
241B	LONG BEACH - VETERAN'S MEMORIAL BUILDING	.14	T	1.61	T	1.18	1.71	1.01	T	.22	T	0	0	5.87
246B	CULVER CITY - BUS YARD	.07	.03	1.47	.12	.80	2.83	.91	0	.20	0	0	0	6.43
250C	ACTON - OLIVE VIEW CAMP	0	0	1.65	0	1.77	1.92	.64	0	.20	0	0	0	6.18
251	LA CRESCENTA	.03	T	2.29	0	2.28	4.07	1.63	.04	.28	0	0	0	10.62
254	PUENTE - ROWLAND RANCH	.02*	.30	2.54	0	1.65*	3.68	1.95	0	.17*	0	0	0	10.31**
255A	MT. SAN ANTONIO COLLEGE - SPADRA	.10	.17	2.39	.03	1.68	3.14	2.41	.03	.21	0	0	0	10.16
256B	POMONA - FIRE STATION	T	.05	1.86	.03	1.95	2.55	1.96	.08	.20	0	0	0	8.68
257	GRIFFITH PARK NURSERY	.06	.21	1.51	0	1.79	3.69	1.06**	.02	.33	0	0	0	8.67**
258A	GRIFFITH PARK-TUNNEL	.06	.06	2.00	0	1.48	3.53	1.13	0	.35	0	0	0	8.61
258B	GRIFFITH PARK - SOUTH SLOPE, MOUNT HOLLYWOOD	.05	.07	1.95	0	1.57	3.47	1.22	0	.36	0	0	0	8.69
258C	GRIFFITH PARK - NORTH SLOPE, MOUNT HOLLYWOOD	.06	.09	2.02	0	1.63	3.62	1.27	0	.38	0	0	0	9.07
259C	CHATSWORTH PATROL STATION - TWIN LAKES	.39	0	1.23	0	1.52	3.32	2.06	0	.25	0	0	0	8.77
261-E	ACTON - MELLEN	.12	T	1.95	0	1.48	1.32	.56	.02	.27	0	0	0	5.72
263A	POMONA - FRATER	.05	.08	1.84	.10	1.85	2.46	1.92	.09	.20	0	0	0	8.59
265C-E	PUENTE HILLS - WEISEL RANCH	.02	.32	2.00	0	1.40	2.74	2.04	T	.16	0	0	0	8.68
266	LEFFINGWELL - EAST WHITTIER	0	.49*	2.15*	0	1.51	2.21	1.40**	0	0	0	0	0	7.76**
269A	DIAMOND BAR RANCH NO. 1	N.R.	N.R.	INC.	N	O		R	E	C	O	R	D	INC.
269B	DIAMOND BAR RANCH - HORSE CAMP	0	.29	1.68	0	1.79	2.84	2.28	.09	0	0	0	0	8.97
270	COUNTY FARM - RANCHO LOS AMIGOS	.13	0	2.58	0	.96	2.07	1.11	.02	.02	0	0	0	6.89
271	DOMINGUEZ HILLS	.23	.23	2.41	.10	.93	1.19	.69	0	.15	0	0	0	5.93
272	L. A. - HEADWORKS PUMPING PLANT	T	.03	1.36	0	1.08	3.74	1.07	0	.17	0	0	0	7.45
273C	SAN PEDRO HILLS - WALLACE	N.I.	N.I.	N.I.	N.I	N.I.	N.I.	INC.	0	.03	0	0	0	INC.
274	ACTON - HUBBARD	.19	.02	1.94	0	1.64	1.66	.59	0	.30	0	0	0	6.34
275	SAN MARINO - HUNTINGTON LIBRARY	.03	.25	2.42	.01	2.06	3.84	2.36	0	.44	0	0	0	11.41
277	SAWMILL MOUNTAIN RANCH	.02	.04	2.41	0	1.95	3.83	2.91	.16	.08	0	0	0	11.40
278B	L. A. - CLARK MEMORIAL LIBRARY	0	0	1.15	0	1.37	2.88	.73	0	.25	0	0	0	6.38
279A	PASADENA GLEN - KINNELOA RANCH	.03	T	1.82	.01	2.55	3.56	2.93	.07	.71	0	0	0	11.68
280B	FLINTRIDGE FIRE STATION	.02	.25	1.96	0	2.07	3.90	1.69	.05	.39	0	0	0	10.33
283A	CRYSTAL LAKE - EAST PINE FLATS	.49	.02	5.12	T	5.92	4.30	4.72	.04	.50	0	0	0	21.11
284	PLACERITA CANYON	.01	T	1.93	0	1.70	3.63	1.54	T	.11	0	0	0	8.92
285C	MOUNT ST. MARY'S COLLEGE	.21	.01	1.70	.04	1.31	4.58	1.29	0	.35	0	0	0	9.49
287	GLENDORA - CONSOLIDATED MUTUAL IRRIGATION CO.	.03	T	2.80	T	2.49	3.02	2.77	T	.47	0	0	0	11.58
289	LAGUNA-BELL - SO. CALIF. EDISON CO. SUBSTATION	.18	.15	3.13	0	1.28	2.48	1.18	0	.07	0	0	0	8.47
290	NEWMARK - SO. CALIF. EDISON CO. SUBSTATION	.11	0	2.75	0	1.15	2.68	1.91	0	.16	0	0	0	8.76
291	LOS ANGELES - 96TH & CENTRAL	.10	.04	1.56	0	.89	2.23	.81	0	.07	0	0	0	5.70
292B-E	ENCINO RESERVOIR	.16	T	1.71	0	1.48	3.89	1.03	T	.21	0	0	0	8.48
293	LOWER SAN FERNANDO RESERVOIR	.17	.03	1.47	T	1.63	3.19	1.33	.06	.56	0	0	0	8.44
294	SIERRA MADRE - MIRA MONTE PUMPING PLANT	0	0	2.48	0	2.17	3.70	2.70	0	.69	0	0	0	11.74
295F	GLENDALE - KENNEDY	.02	.10	1.74	0	1.61	3.84	.94	T	.21	0	0	0	8.46
298B	GORMAN (NEAR)	0	0	2.12	0	1.54	2.63	1.12	0	0	0	0	0	7.41
299C	LITTLE ROCK	.15	.03	1.89	0	1.02	1.59	.32	0	.32	0	0	0	5.32
300A	GARRAPATA CANYON - FAILOR CANYON	.10	.02	1.83	0	1.76	4.56	1.18	0	.20	0	0	0	9.65
303D	PASADENA - CAL TECH	.03*	.19	2.00	0	2.12	3.76	2.20	0	.27	0	0	0	10.57**
304	SAWPIT CANYON - DEER PARK	.13	.02	3.25	.02	3.13	5.03	5.19	.05	.57	0	0	0	17.39
305	ARROYO SEQUIT - MASON ESTATE	.33	T	1.36	DISCONTINUED									INC.
306C	TRANCAS BEACH	N.I.	N.I.	INC.	0	.86	3.06	1.27	0	.20	0	0	0	INC.
307	SNOW CREST CAMP	N.R.	N.R.	3.41	N.R.	INC.	3.82	3.88	N	O	R	E	C	O	R	D	INC.
308	KELLY'S KAMP	N O	R E C O R D											
311B	PASADENA - METEOROLOGICAL STATION	.14	.32	1.69	T	2.18	3.45	1.65	.03	.38	0	0	0	9.84
312	AZUSA PLANT - GLENDORA MUTUAL CONSOL. IRR. CO.	.02	T	2.14	T	2.35	3.34	2.92	T	.47*	0	0	0	11.24**
321-E	PINE CANYON PATROL STATION	.03	.03	1.46	0	2.07	3.54	1.59	.20	.05	0	0	0	8.97
322	MUNZ VALLEY RANCH	0	0	1.75	0	1.91	.97	.69	.14	.05	0	0	0	5.51
334B-E	SAN GABRIEL DAM NO. 2	.01	.01	3.16	T	4.19	4.16	4.63	T	.27	0	T	T	16.43
336	SILVER LAKE RESERVOIR	.05	.16	1.84	0	1.58	3.12	.84	0	.21	0	0	0	7.80
338A	MOUNT WILSON - OBSERVATORY	.19	T	3.50	T	5.09	4.98**	4.56	0	.41	0	0	0	18.73**
338B	MOUNT WILSON - AIRWAYS STATION	.31	.03	3.00	.03	4.16	4.73	4.34	T	.44	0	0	0	17.04
339	WALNUT FRUIT GROWERS ASSOCIATION	.10	0	2.56	0	1.57	2.92	2.07	0	.11	0	0	0	9.33
341	ALISO CANYON - BLUM RANCH	.12	.01	1.78	0	1.75	1.43	.52	0	.09	0	0	0	5.70
342	UPLAND	T	.06	2.35	.06	2.48	3.29	2.30	.10	.53	0	0	0	11.17

TABLE V

SEASONAL 1947-48 MONTHLY RAINFALL SUMMARY

RAINFALL RECORDS IN INCHES

STA. NO.	STATION	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
343B	RIVERA - TELEGRAPH ROAD	.09	.10	3.26	0	.97	2.80	1.53	0	.11	0	0	0	8.86
347-E	BALDWIN PARK EXPERIMENTAL STATION	.03	.14	2.71	.02	1.64	2.74	1.80	0	.42	0	T	0	9.50
349B	CAMP RINCON	T	T	2.49	T	3.67	4.03	3.22	T	.29	0	0	0	13.70
351D	PALMDALE	.13	T	1.65	0	1.39	1.51	.25	0	.21	0	0	0	5.14
352	LECHUZA PATROL STATION	.34	T	1.34	.04	1.43	5.41	2.62	.02	.09	0	0	0	11.29
353	DUARTE-MONROVIA CITRUS FRUIT ASSOCIATION	0	.11	2.67	0	2.07	3.12	2.79	0	.31	0	0	0	11.07
354D	CAMP BALDY - BOY'S CAMP	.15*	0	3.41**	0	6.46	4.16	4.47**	.01	.65	0	0	0	19.31**
355	LOS ANGELES JUNIOR COLLEGE	.05	.05	1.66	0	1.66	3.32	.98	0	.24	0	0	0	7.96
356	SPADRA - PACIFIC COLONY	.14	.10	1.73	.02	1.61	2.89	1.87	.04	.21	0	0	0	8.61
357	SAN FERNANDO POWER HOUSE NO. 3	.15	.02	2.67	0	1.42	3.21	1.71	.05	.32	0	0	0	9.55
362	EL MIRADOR RANCH	.06	.16	1.82	0	2.29	3.87	1.61	.03	.35	0	0	0	10.19
364	HAINES CANYON - LOWER	.10	T	2.47	0	2.16	3.89	2.09	.06	.35	0	0	0	11.12
367	HAINES CANYON - UPPER	.14	T	2.85	0	2.71	4.39	3.40	.07	.39	0	0	0	13.95
372	SAN FRANCISQUITO POWER HOUSE #2	.08	T	1.76	0	1.27	2.71	1.54	.02	.07	0	0	0	7.45
373	BRIGGS TERRACE - PICKEN'S CANYON	.04	0	2.50	0	2.26	4.22	2.04	.07	.46	0	0	0	11.59
375B	GRIFFITH PARK ZOO	.05	.03	1.57	0	1.55	3.92	1.04	T	.20	0	0	0	8.36
377D	LAKE SHERWOOD ESTATE	.13	0	1.23	0	1.18	3.75	1.33	0	0	0	0	0	7.62
379B	SAN GABRIEL - EAST FORK	.01	T	2.84	.02	3.67	3.79	3.31	.03	.42	0	0	0	14.09
380	EL SERENO	.04	.24	2.00	0	1.73	3.90	1.52	0	.20*	0	0	0	9.63**
381B	SANTA MONICA - OUTLOOK	.13	.03	1.47	.21	.83	2.58	.95	0	.19	0	0	T	6.39
384B	HIGHLAND PARK - SAN RAFAEL HILLS	.08	.03	1.82	0	1.80	3.60	1.29	.02	.38	0	0	0	9.02
386B	ZUMA CANYON - OAKLEY	.30	.02	1.43	0	1.91	6.10	2.75	0	.23	0	0	0	12.74
387B	COVINA - CITY SEWAGE DISPOSAL PLANT	.04	.16	2.78	.04	2.18	2.77	1.78	0	.41	0	0	0	10.16
388B	CLEARWATER - COUNTY FIRE STATION	T	T	2.39	0	.70	1.82	1.18	0	.01	0	0	0	6.10
389	GLENDORA - BROWN	.04	.05	2.67	.01	2.17	3.22	2.56	.02	.46	0	T	0	11.20
390B-E	MORRIS DAM	0	.01	2.28	0	2.53	4.06	3.64	.03	.36	0	0	0	12.91
391B	MONTEBELLO - FIRE DEPARTMENT	.05	.10	3.23	0	1.40	2.59	1.67	0	.12	0	0	0	9.16
394	HIGHLAND PARK - LINDSAY	.03	.11	1.84	T	1.63	3.65	1.18	T	.31	0	0	0	8.75
395	OLIVE VIEW SANITARIUM	.07	0	1.83	0	1.61	3.87	2.12	.51	.34	0	0	0	10.35
400	PASADENA - WASHINGTON AND PALM TERRACE	.08	.15	1.95	T	2.31	3.25	2.12	.04	.50	0	0	0	10.40
402C	CEDAR SPRINGS - STATE PRISON CAMP	.39	.10	4.58	0	6.68**	4.85	3.32	.10	.27	0	0	0	20.29**
404	GLENDALE - OPID	.04	.03	1.57	0	1.71	3.64	1.07	.02	.22	0	0	0	8.30
405	SOLEDAD CANYON - ECKLES	.05*	.08	2.09	0	2.41	2.70	1.04	T	.08	0	0	0	8.45**
406C	WEST AZUSA - AZUSA IRRIGATION CO. PLANT NO. 6	.08	.08	2.57	.03	1.83	2.71	2.31	0	.46	0	0	0	10.07
407	NEWHALL - U.S.F.S. HEADQUARTERS	T	.01	1.55	0	1.58	3.62	1.75	T	0	0	0	0	8.51
408	SOLEDAD CANYON - MITCHELL	N O		R	E	C	O	R	D	T	T	0	0	0	INC.
409	RIDGE ROUTE STATE HIGHWAY MAINTENANCE STATION	0	.05	1.37	0	1.21	2.67	1.41	.13	.20	0	0	0	7.04
410A	RIDGE ROUTE - PARADISE RANCH	0	0	1.77	0	2.15	3.93	2.39	.43	.16	0	0	0	10.83
411B	RIVERA - PICO - ROBINSON	.09	.21	3.07	0	1.15	2.85	1.68	0	.26	0	0	0	9.31
415	SIGNAL HILL - CITY HALL	.12	0	2.27	0	.85	1.41	.83	0	.23	0	0	0	5.71
416	ALTADENA - VENTURA STREET	.04	.06	2.12	0	2.57	3.57	1.88	.07	.40	0	0	0	10.71
417	SIERRA MADRE - LAMANDA PARK CITRUS ASSOC.	.11	.15	2.12	.01	2.01	3.54	2.43	.03	.38	0	0	0	10.78
419	SANTA CLARA RIDGE - MT. GLEASON	.15	.04	3.12	0	3.62	4.16	2.75	0	.50*	0	0	0	14.34**
420	ACTON - COLOMBO RANCH	.09	0	2.05	0	1.86	1.64	.78**	0	.25*	0	0	0	6.67**
421	LOPEZ CANYON BELOW MOUTH	.07	0	1.61	0	1.04	2.79	1.05	0	.54	0	0	0	7.10
422B	PACOIMA CANYON - WALSH RANCH	1.11	.04	2.15	0	2.98	4.15	2.49	.09	.49	0	0	0	13.50
423	ALISO CANYON - WAGON WHEEL RANCH	.25	T	3.87	0	2.94	3.96	1.36	T	.25	0	0	0	12.63
425B-E	SAN GABRIEL DAM NO. 1	T	T	2.47	T	3.16	4.25	3.70	T	.30	0	0	0	13.88
427	DOWNEY - JORDAN	.14	.12	3.45	0	1.03	2.04	1.03	T	.04	0	0	0	7.85
430	SAUGUS - STATE HIGHWAY MAINTENANCE STATION	0	0	1.07	0	1.60	2.12	.82	0	0	0	0	0	5.61
432	SANTA ANITA - FERN LODGE	0	.03	3.06	T	3.69	4.96	2.97	.01	.32	0	0	0	15.04
433	ALTADENA - FARNSWORTH PARK	0	.04	2.07	0	2.58	3.34	2.54	.08	.42	0	0	0	11.07
434	MALIBU DIVISION HEADQUARTERS	.01	0	1.11	0	1.62	3.61	1.21	0	.15*	0	0	0	7.71**
435	MONTE NIDO CANYON PATROL STATION	.07	0	1.60	.02	1.60	5.14	1.22	0	.29	0	0	0	9.94
436B	HANSEN DAM - OFFICE	.07	0	1.57	0	1.34	2.70	.69	0	.16	0	0	0	6.53
437	HAMILTON BOWL - LONG BEACH	.14	.02	2.19	0	1.08	1.34	.80	0	.24	0	0	0	5.81
440B	CHILAO - U.S.F.S. CAMP	.36	0	3.18	0	3.23	3.12	2.38	0	.24	0	0	0	12.51
441-E	PALMDALE - COUNTY ROAD MAINTENANCE YARD	.10	T	1.59	0	1.64	1.72	.26	0	.18	0	0	0	5.49
442	MESCAL CREEK - FT. TEJON ROAD	.29	.15	2.23	0	1.54	.83	.39	0	.30	0	0	0	5.73
443	LATIGO CANYON ROAD AT MULHOLLAND ROAD	.23	.01	1.38	.02	1.86	6.09	2.74	0	.04	0	0	0	12.37
444	ROLLING HILLS - PALOS VERDES HILLS	.22	0	1.91	T	1.10	1.74	1.16	0	.05	0	0	T	6.18
445B	LIVE OAK DAM	0	.38	2.76	0	3.24	3.53	2.21	0	.60	0	0	0	12.72
446	ALISO CANYON - SANTA SUSANA MOUNTAINS	.53	.20	1.28	0	.99	3.18	2.32	0	.28	0	0	0	8.78
447	LAS FLORES PATROL STATION	.12	T	1.75	.03	1.13	3.10	.88	.01	.22	0	0	0	7.24
449	EATON DAM	.03	.06	1.67	0	2.01	3.34	2.68	.02	.55	0	0	0	10.36
451B	CASTAIC PATROL STATION	.05	T	1.11	0	1.32	2.24	.86	.04	0	0	0	0	5.62
452	STUDIO CITY - THAYER	.05	T	1.73	0	1.52	3.97	.70	T	.30*	0	0	0	8.27**
453	DEVIL'S GATE DAM	.08	.36	1.57	0	2.38	3.32	1.49	.04	.28	0	0	0	9.52
454	LOS ANGELES - WOOD	.04	.01	1.37	T	1.27	3.14	.89	0	.33	0	0	0	7.05
455	LANCASTER - STATE HIGHWAY MAINTENANCE STATION	.17	T	1.63	0	.89	1.02	.17	0	.04	0	0	0	3.92
456	GOLDEN MESA DUDE RANCH - PIUTTE BUTTE	.05	.03	1.66	0	.85	.74	.16	0	.25	0	0	0	3.74
457B	LOS ANGELES - ZALVIDEA STREET	.06	.07	1.66	0	1.57	3.40	.74	.01	.28	0	0	0	7.79
458	ZUMA CANYON PATROL STATION	.12	.01	1.92	0	1.14	3.10	1.47	0	.08	0	0	0	7.24
460	PLEASANT VIEW MESA - MATAY	0	0	3.06	0	1.50	1.71**	1.30	0	.70	0	0	0	8.27**
461	BALDWIN HILLS - STANDARD OIL FIELD OFFICE	.13*	.07*	1.19	.16	1.33	2.80	.90	0	.09*	0	0	0	6.67**
462	HILLCREST COUNTRY CLUB	.04	.05	1.88	0	1.21	3.12	.86	0	.32	0	0	0	7.48
463	MAR VISTA - SOUTHERN CALIFORNIA WATER COMPANY	.10	.02	1.94	.19	.81	2.72	1.09	0	.33	0	0	0	7.20
464	TUJUNGA CANYON - HONOR CAMP NO. 5	.11	.02	2.90	0	3.18	3.84	2.82	0	.37	0	0	0	13.24
465B	SEPULVEDA DAM	.05	0	1.44	0	1.29	3.59	.73	0	.15	0	0	0	7.25
466B	PACOIMA CANYON - DUTCH LOUIE CANYON	.19	.03	2.59	0	2.88	3.48	2.81	.11	.57	0	0	0	12.66
468-E	PICKENS DEBRIS BASIN	.05	.02	2.31	0	2.30	3.70	1.41	.07	.35	0	0	0	10.21
470	TUJUNGA - MILL CREEK	.72	0	3.05	0	2.42	2.29	1.43	T	.30	0	0	0	10.21
471	LITTLE TUJUNGA - GOLD CREEK	.09*	.18*	2.26	0	2.70**	3.73	2.06	.02*	.30*	0	0	0	11.34**
473	AQUA DULCE CANYON - BLACKWELL RANCH	.07	0	1.88	0	1.39	1.88	.83	.01	.20	0	0	0	6.26
474	SOUTH GATE - POLICE DEPARTMENT	.09	.02	1.79	0	1.03	2.56	.93	0	.05*	0	0	0	6.47**
475	SAUGUS - NEWHALL LAND & FARMING COMPANY	.05	T	1.49	0	1.53	2.50	.90	0	.04	0	0	0	6.51
476B	TRIUNFO CANYON	T	0	1.22	0	1.60	3.57	1.62	0	0	0	0	0	8.01
477B	SANTA ANITA - SPRING CAMP	.18	.05	3.32	0	5.03	5.58	5.61	.01	.37	0	0	T	20.15
478	VALYERMO - U.S.F.S. HEADQUARTERS	.19	.07	2.73	0	1.57	1.23	.73	0	.33	0	0	0	6.85
479	ARCADIA - GONTER	.04*	.22*	2.62	0	1.73	2.83	2.18	.05	.34*	0	0	0	10.01**
482	LOS ANGELES - U.S.C.	.04	0	1.42	0	1.56	3.35	1.03	0	0	0	0	0	7.40
485	COVINA - BURCH	0	.16	2.43	0	2.17	2.49	1.90	0	.41	0	0	0	9.56
486	COLDWATER CANYON - WIDMAN RANCH	.27	.10	4.30	.07	4.64	3.93	2.98	.18	.76	0	0	0	17.23
487B	MALIBU BEACH AT WINTER CANYON	.05	0	1.56	.02	1.18	3.02	1.15	.02	.13	0	0	0	7.13
488	KAGLE CANYON PATROL STATION	T	T	1.81	0	1.68	2.88	1.20	0	.46	0	0	0	8.03
489	COLD CREEK - STUNT'S RANCH	.05	.01	1.77	.01	2.08	4.42	1.13	0	.18	0	0	0	9.65
490	LANCASTER - WILEY RANCH	.14	T	1.81	0	.95	.69	.13	0	.41	0	0	0	4.13
491	PACIFIC PALISADES	.07	.10	1.57	.17	.91	3.38	1.35	0	.52	0	0	0	8.07
492	CHILAO - STATE HIGHWAY MAINTENANCE STATION	.30	.10	2.89	0	3.11	2.76	2.59	T	.15	0	0	0	11.90
493	SAND CANYON - MAC MILLAN RANCH	N.R.	N.R.	1.95	N.R.	N.R.	N.R.	N.R.	.05	.13*	0	0	0	INC.
494	PICO - CATE	.14	.25	3.38	0	1.35	2.79	1.87	0	.25	0	0	0	10.03
495	L.A. - EIGHTH & FIGUEROA	.11	.02	1.74	0	1.24	3.66	.86	T	.15	T	0	0	7.78
497	CLAREMONT - SLAUGHTER	0	.46	2.52	0	2.69	3.27	2.06	.12	.47	0	0	0	11.59
498	ANGELES CREST HIGHWAY AT DARK CANYON TRAIL	.10	0	3.09	0	2.71	3.94	3.18	.05	.35	0	0	0	13.42
X-3A	RUSTIC CANYON FIRE AREA	.08*	.10*	1.53	0	1.48	4.52	1.70	0	.45*	0	0	0	9.86**
X-6	ENCINO NO. 2	.20	T	1.76	0	1.65	4.52	1.28	5	.25	0	0	0	9.66

TABLE V

SEASONAL 1947-48 MONTHLY RAINFALL SUMMARY

RAINFALL RECORDS IN INCHES

STA. NO.	STATION	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
508B	ARROYO SECO - RANGER STATION	.01	.01	2.32	T	2.29	3.66	1.87	.07	.37	0	0	0	10.60
517	ANDERSON RANCH - (BURKHART RANCH)	.29	.04	3.24	0	1.73	1.60	1.57	0	.50	0	0	0	8.97
529	CHINO - AMERICAN BEET SUGAR COMPANY	.06	.09	1.64	.02	2.08	2.09	1.75	T	.16	0	0	0	7.89
530	CONEJO RANCH	.10	0	1.11	0	1.34	2.37	.94	0	0	0	0	0	5.86
542	FAIRMONT	.02	T	1.87	T	2.33	2.70	1.57	.38	.10	0	0	0	8.97
551	HUENEME LIGHTHOUSE	.25	0	1.12	.04	.60	2.61	1.01	.02	.02	0	0	0	5.67
557	LA HABRA - CITRUS ASSOCIATION	.04	.10	1.40	T	1.16	2.00	1.59	T	.22	0	0	0	6.51
565B	LONG BEACH - CITY AUTOMATIC	.10	T	2.94	T	.71	1.16	.90	0	.25	T	0	0	6.06
566	LONG BEACH #1	.22	.01	2.03	.01	.90	1.96	1.21	.01	.34	T	0	0	6.69
571B	LONG BEACH #6	.16	T	1.50	T	.80	1.44	.95	T	.44	T	0	0	5.29
575B	LONG BEACH WEATHER BUREAU	.05	T	1.55	T	1.16	1.59	1.05	0	.22	0	0	0	5.62
577E	L.A.-U.S.W.B. - 6TH AND MAIN	.13	.02	1.47	T	1.25	3.25	.76	T	.12	0	0	T	7.00
577F	L.A.-U.S.W.B. - FEDERAL BUILDING	.14	.06	1.62	T	1.29	3.07	.78	T	.16	T	T	T	7.12
587	SAN ANTONIO CANYON - POWER HOUSE #1	.06	.04	2.97	.07	3.76	4.00	3.48	.12	.39	0	0	0	14.89
588	MOUNT LOWE	.20	0	2.56	0	2.95	0	8.61	0	.30	0	0	0	14.62
593B	NEWHALL RANCH	.13	T	.99	0	2.17	3.14	1.26	T	.15	0	0	0	7.84
594B	NEWHALL	T	T	1.37	0	1.66	2.91	1.32**	T	.04	0	0	0	7.30**
598	NEENACH	.01	.04	1.24	0	.73	1.30	.76	T	.07	0	0	0	4.15
610A	PASADENA - JONES	.01	.12	2.05	T	2.43	3.37	2.81	0	.64	0	0	0	11.43
610B	PASADENA - CITY HALL	.12	.27	1.81	.01	2.08	3.63	2.06	.02	.50	0	0	0	10.50
611	PASADENA - ALLEN	0	0	1.96	0	2.67	3.35	2.65	.04	.51	0	0	0	11.18
612	PASADENA - CHLORINE PLANT	.03	.01	2.27	T	2.41	3.67	1.95	.07	.42	0	0	0	10.83
613B	PASADENA - HURLBUT FIRE STATION	.07	.09	1.75	.01	1.85	3.77	1.78	.02	.40	0	0	0	9.74
617	POMONA - ADAMSON	T	.07	2.33	.06	1.93	2.91	2.05	.10	.33	0	0	0	9.78
619	SAN ANTONIO CANYON - SIERRA POWER HOUSE	.03	.06	3.48	.07	4.59	4.48	3.89	.25	.56	0	0	0	17.41
627	SAN GABRIEL CANYON POWER HOUSE	.11	.01	2.12	.02	1.98	3.27	2.81	T	.47	0	0	0	10.59
629C	SAN PEDRO U.S.W.B.	.16	.02	1.16	T	.80	1.34	1.26	T	.13	0	0	0	4.87
634B	SANTA MONICA - CITY HALL	.09	.02	1.44	.02	.75	2.57	1.15	0	.25	0	0	0	6.29
647G	SUNLAND - TUJUNGA - U.S.W.B.	.04	.01	1.83	.01	1.94	3.41	1.42	.02	.44	0	0	0	9.12
650B	UPLAND - BAIRD	T	.09	2.46	.06	2.41	4.31	2.48	.14	.43	0	0	0	12.38
660	OXNARD - U.S.W.B.	.23	T	1.19	.04	.80	2.69	1.10	.02	.02	0	0	0	6.09
662	LONG BEACH - 37TH AND GAVIOTA	.06	.02	2.22	.02	.76	1.45	1.74	.01	.12	T	0	0	6.40
666	LONG BEACH - SOUTH AND LEMON	.08	.04	2.13	.03	.77	1.44	1.10	.01	.05	T	0	0	5.65
671B	LOS ANGELES - WABASH - S.C.E. CO. SUBSTATION	.15	.12	1.53	0	1.25	3.65	1.11	0	.15	0	0	0	7.96
672	EAGLE ROCK - S.C.E. CO. SUBSTATION	.09	.21	1.86	0	2.00	3.57	1.29	.01	.33	0	0	0	9.36
673	SEAL BEACH GAS AND ELECTRIC PLANT	.10	.04	1.50	0	.68	1.44	1.11	T	.10	0	0	0	4.97
676	LOS ANGELES - WEST BOTH STREET	.18	.09	1.53	.07	1.43	2.51	.83	0	.14	0	0	0	6.78
677C	PASADENA - HOFFNER	.19	.27	1.87	T	2.05	3.80**	1.68	0	.31	0	0	0	10.17**
678	PASADENA - SHELDON RESERVOIR	.11	.35	1.96	T	2.46	4.18	1.74	.05	.43	0	0	0	11.28
679	PUENTE - NO. WHITTIER HEIGHTS CITRUS ASSOC.	.05	.21	2.35	0	1.59	3.33	2.04	0	.32	0	0	0	9.92
680	WESTWOOD - U.C.L.A.	.04	.13	1.50	.04	1.22	3.45	1.03	.01	.30	T	0	0	7.72
681A	SANTA ANITA GUARD STATION	.02	.01	2.62	0	2.13	3.92	2.97	.05*	.53	0	0	0	12.25**
683	SUNSET RIDGE GUARD STATION	.05	0	2.19**	0	2.67**	3.78**	2.47	.11	.59	0	0	0	12.06**
684	ARCADIA WAREHOUSE - U.S.F.S.	T	.04	2.22	T	1.64	3.48	2.44	T	.48	0	T	0	10.30
689B	SAN MARINO - COOPER	0	.11	2.49	0	1.63	4.09	2.14	0	.34	0	0	0	10.80
691	SAN ANTONIO SPREADING GROUNDS	.03	.09	2.87	.05	2.84	3.58	2.70	.14	.49	0	0	0	12.79
694B	TUJUNGA CANYON - U.S.F.S. GUARD STATION	.06	.02	1.95	0	2.07	2.40	1.39	.01	.24	0	0	0	8.14
695	TUJUNGA CANYON - VALHALLA RANCH	0	0	2.97	0	3.83	5.22	2.58	0	.49	0	0	0	15.09
696	PASADENA - GLEN	T	T	2.80	0	2.71	3.55	2.83	.07	.62	0	0	0	12.58
703	GLENDALE - MC INTYRE	.07	.15	1.69	0	1.74	3.47	1.06	.01	.22	0	0	0	8.41
705	ALDER CREEK - PARADISE RANCH	.09	.18	2.43	0	2.65	3.19	1.76	.02	.29	0	0	0	10.61
706	RIVERA - HADLEY RANCH	0	.24	3.70	0	1.31	2.88	1.70	0	.15	0	0	0	9.98
715	LOS ANGELES #2 - U.S.W.B. - P.O. TERMINAL BLDG.	.12	.05	1.96	T	1.35	3.48	.91	T	.13	0	0	T	8.00
716	L.A. WATER DEPARTMENT - DUCOMMUN STREET	.12	.05	1.78	0	1.23	3.44	.87	0	.13	0	0	0	7.62
718	THOUSAND OAKS	.13	0	1.04	.02	1.09	2.83	1.20	.01	0	0	0	0	6.32
719	DUARTE - MADDOCKS RANCH	0	.01	2.49	.04	2.15	3.21	2.19	0	.44	0	0	0	10.53
720	SIMI VALLEY - SMITH RANCH	.05	0	1.28*	0	1.35	3.49	1.47	0	0	0	0	0	7.64
723	STONE CANYON - SAN FERNANDO VALLEY	.05	T	1.59	0	1.28	4.25	1.03	.01	.24	0	0	0	8.45
724	BIG DALTON-MONROE CANYON FLUME X	0	.04	2.95	.13	3.41	3.96	4.06	.05	.59	0	0	0	15.19
725	BIRMINGHAM HOSPITAL	.06	0	1.44	0	1.04	2.24	.59	0	.10	0	0	0	5.47
726	ANGELES CREST GUARD STATION	.03	0	2.58	0	2.69	3.98	3.25	.10	.37	0	0	0	13.00
727	NEWCOMB PASS	.17*	0	2.84	0	5.04	6.13	5.20	0	.62	0	0	0	20.00**
728	PACOIMA CANYON - CITY ROAD GAGE	.18*	0	3.34	0	4.05	4.28	3.03	0	.63	0	0	0	15.51**
729	MAGIC MOUNTAIN RIDGE - INDIAN CANYON	.15*	0	2.49	0	4.49	3.78	3.40	0	.51	0	0	0	14.82**
730	MILLARD CANYON - DAWN MINE	0	0	2.67	0	2.88	4.14	3.50	0	.77	0	0	0	13.96
731	OAK GROVE HEADQUARTERS - U.S.F.S. FLOOD CONTROL	.01	0	2.20	T	2.35	4.05	1.64	.05	.33	0	0	0	10.63
732	ROBERT'S CANYON - SAN GABRIEL W. FORK DIVIDE	.18*	.05*	2.75	0	4.07	4.95	5.50	0	2.54	0	0	0	20.04**
733	ARROYO SECO - CLOUDBURST CANYON	0	0	2.03	0	5.04	4.54	4.93	0	.86	0	0	0	17.40
734	LOS ANGELES MUNICIPAL AIRPORT	.25	.03	.98	.15	1.00	2.24	.63	T	.04	T	T	T	5.32
735	BELL CANYON - PLATT RANCH	.17	0	1.31	0	1.39	2.15	.70	0	.20	0	0	0	5.92
737	UPPER SESPE CHORO GRANDE RANCH	.03	T	1.04	0	1.86	3.47	2.97	.42	.55	0	0	0	10.34
739	SANTA PAULA - LIMONEIRA RANCH	.12	T	1.20	T	.90	3.40	1.52	T	.02	0	0	0	7.16
740B	SAN DIMAS CANYON - FERN #2	.14	.10	3.53	.07	5.39	4.87	5.04	.35	.47	0	0	0	19.96
741	SAN DIMAS CANYON - UPPER EAST FORK	.14	.02	2.88	T	3.86	3.89	3.33	.10	.70	0	0	0	14.92
742B	SAN GABRIEL - FIRE STATION	.02	.11	2.73	.01	1.21	3.55	2.04	0	.23	0	0	0	9.90
746	MOHAVE - BACKUS RANCH	.08	T	1.34	0	.52	.84	.15	0	.54	0	0	0	3.47
747	SANDBERG - AIRWAYS STATION	.07	.15	1.07	0	.77	1.20	1.05	.08	.05	0	0	0	4.44
748	NEWHALL - C.A.A.A.C. STATION	T	T	1.92	T	1.43	2.96	.89	T	.10	0	0	T	7.30
749	BURBANK - AIRPORT	.04	.04	1.48	T	1.29	2.73	.75	.04	.22	T	T	T	6.59
750	PALMDALE - C.A.A.A.C. STATION	.06	0	1.65	0	.77	.94	.15	0	.16	0	0	0	3.73
751	TORRANCE - FIRE DEPARTMENT	.20	.04	1.50	.04	.89	1.14	.59	0	.06	0	0	.02	4.48
752	MONROVIA - GEARY	.01	.09	2.53	.02	1.67	3.46	2.88	.02	.45	0	T	0	11.13
754	LYON'S CANYON - NEWHALL	.04	.01	1.45	0	2.15	4.86	1.71	0	.07	0	0	0	10.29
755	GRIFFITH PARK - LITTLE CANYON	.07	.10	1.20	0	1.68	2.59	1.06	.01*	.25*	0	0	0	6.96**
756	GRIFFITH PARK - UPPER SPRING CANYON	0	.05	1.41	0	1.31	3.62	1.07	0	.36*	0	0	0	7.82**
757	GRIFFITH PARK - FERN DELL	0	.10	1.50	0	1.45	3.30	.85	0	.35*	0	0	0	7.55**
758	GRIFFITH PARK - LOWER SPRING CANYON	.05*	.03*	1.64	0	1.57	3.71	1.21	T	.20*	0	0	0	8.41**
759	HOLLYWOOD - COURTNEY AVENUE	0	0	1.25	0	1.06	3.38	.53	0	.34*	0	0	0	6.56**
760	STUDIO CITY - (MILLERS)	.04	0	1.58	0	1.60	3.97	.84	0	.30*	0	0	0	8.33**
761	STONE CANYON - (VALLEY SIDE)	.06*	0	1.87	0	1.51	4.57	1.14	0	.30*	0	0	0	9.45**
762	UPPER STONE CANYON	.05	0	1.43	0	1.60	4.56	.94	0	.29*	0	0	0	8.87**
763	STONE CANYON - FIRE ROAD #18	.05*	0	1.49	0	1.66	4.45	1.10	0	.29*	0	0	0	9.04**
764	STONE CANYON - RAIL LANE 2302	.05*	0	1.65	0	1.39	4.10	.96	0	.29*	0	0	0	8.44**
765	SEPULVEDA AND MULHOLLAND	.08*	0	1.55	0	1.61	4.53	1.19	0	.25*	0	0	0	9.21**
766	MANDEVILLE CANYON - FIRE ROAD #26	.13**	0	1.41	0	1.32	3.73	1.10	0	.25*	0	0	0	7.94**
767	MANDEVILLE CANYON ROAD #3351 (PARKER)	.13*	0	1.37	0	1.47	3.93	1.29	0	.25*	0	0	0	8.44**
768	SULLIVAN CANYON - FIRE ROAD #26	.13*	0	1.75	0	1.67	3.75	1.16	0	.25*	0	0	0	8.71**
769	SANTA YNEZ CANYON - TEMESCAL FIRE ROAD #30	.05	.04	1.63	0	1.32	4.49	1.16	0	.22*	0	0	0	8.91**
770	SANTA YNEZ - PASEO MIRAMAR	.15	0	1.55	0	1.02	2.86	1.06	0	.20*	0	0	0	6.84**
771	RUSTIC CANYON	.05	0	1.15	0	.87	3.23	1.07	0	.42*	0	0	0	6.79**
772	L.A. - ECHO PARK AND LUCRETIA	.06*	.20	1.35**	0	.64	2.85	.58	0	.28*	0	0	0	5.96**
773	LOS ANGELES - BOYLSTON HILL	0	0	1.42	0	1.49	D I S C O N T I N U E D							INC.
774	BARLOW SANITARIUM	NI	NI	INC.	0	1.05	3.33	.75	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
775	LOS ANGELES - 8TH AND CROCKER	.13*	.02*	1.48**	0	1.26	2.88	.84	0	.12*	0	0	0	6.73**
776	NICHOLS CANYON - WOODROW WILSON - MITCHELL)	.05*	.01	1.35	0	1.57	4.31	.66*	0	.32*	0	0	0	8.27**
777	KENTER CANYON - N. KENTER (TIEMAN)	.23*	.01*	1.86**	.10*	1.28	3.50	1.14*	0	.30*	0	0	0	8.42**

TABLE V

SEASONAL 1947-48 MONTHLY RAINFALL SUMMARY

RAINFALL RECORDS IN INCHES

STA. NO.	STATION	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
778	SEPULVEDA CANYON - BELLAGIO ROAD	.14*	.01*	1.58**	.06*	1.54	3.62	1.16*	0	.31*	0	0	0	8.42**
779	GRIFFITH PARK - NORTH CANYON	.02*	.07	1.57**	0	1.43	4.59	1.17	0	.20*	0	0	0	9.05**
780	GRIFFITH PARK - NORTH CANYON	.02*	.05	1.52**	0	1.42	4.32	1.12	0	.20*	0	0	0	8.65**
782	PASADENA - CHAPMAN RESERVOIR	N O T			I N S T A L L E D						0	0	0	INC.
1000	HUNT CANYON - BONES RANCH	.21	.07	2.39	0	1.76	2.00	.39	0	.20	0	0	0	7.02
1001	SAN GABRIEL - WEST FORK GUARD STATION	0	0	3.42	0	5.09	5.55	5.75	0	.86	0	0	0	20.67
1002	TUJUNGA - TANGUAY	.06	0	1.86	0	1.91	3.45	1.43	0	.25	0	0	0	8.96
1004	MALIBU CREEK - CRATER CAMP	0	.01	1.55	.04	1.54	5.59	1.33	0	.29*	0	0	0	10.35**
1005	MINT CANYON - THE OAKS	.12	T	1.99	0	1.21	2.25	.98	.02	.05	0	0	0	6.62
1006	SAN PEDRO CITY RESERVOIR	.29	0	2.49	0	.88	1.49	1.25	0	.04*	0	0	0	6.44**
1007	ANGELES CREST HIGHWAY - CAMP VALCREST	.31	T	3.07	0	5.30	2.90**	2.76**	0	.35	0	0	0	14.69**
1008-E	LA FRESA - SO. CALIF EDISON CO. SUBSTATION	.29	T	1.31	T	.85	1.73	.57	0	.23	0	0	0	4.98
1009	MINT CANYON - DYER	.16	0	1.74	0	1.54	2.03	1.00	0	.04	0	0	0	6.51
1010	PALMER CANYON - NUFER	0	0	2.83	0	3.65	3.94	3.56**	.13	.54	0	0	0	14.65**
1011	SAN PEDRO HILLS - SWAFFIELD	.57	0	2.90	.02	.90	2.06	1.35	0	.03*	0	0	0	7.83**
1012	CASTAIC JUNCTION	.10	T	1.13	T	1.39	2.17	.86	0	.04	0	0	0	5.69
1013	TUJUNGA CANYON ABOVE GOLD CANYON	.05	T	2.10	0	2.20	3.75	1.88	.01	.25	0	0	0	10.24
1014	RIO HONDO SPREADING GROUNDS	.03	.25	3.56	T	1.28**	2.45**	1.53	0	.15*	0	0	0	9.25**
1015	ALTADENA - FRISBEE	.01	.02	2.08	T	2.50	3.27	2.74	.03	.47	0	0	0	11.12
1016	PALO COMADO CANYON - AGOURA	N.I.	N.I.	N.I.	T	1.62	3.01	.72	0	.18	0	0	0	INC.
1017	LITTLE ROCK CREEK	N.I.	N.I.	N.I.	INC.	1.75*	2.03	.91**	0	0	0	0	0	INC.

LEGEND

* - - - - - - ESTIMATE FROM NEARBY STATION
** - - - - - PARTLY ESTIMATED
INC.- - - - - INCOMPLETE RECORD
N.I.- - - - - NOT INSTALLED
N.R.- - - - - NO RECORD

TABLE VI

SEASONAL 1948-49 MONTHLY RAINFALL SUMMARY

RAINFALL RECORDS IN INCHES

STA. NO.	STATION	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
2B	ESCONDIDO CANYON	.05	0	2.85	3.51	2.45	2.06**	.08	1.40	.07	0	0	0	12.47**
3B	SEMINOLE HOT SPRINGS	.08	0	4.10**	2.64	1.61	2.03	.10	1.06	0	0	.07	0	11.69**
5B	CALABASAS	.11	0	3.28	2.01	1.04	1.18	0	.52	0	0	0	0	8.14
6	TOPANGA PATROL STATION	.15	0	4.08	3.70	1.58	2.15	.02	.97	0	0	0	0	12.65
7C	BEL-AIR BAY CLUB	.10	0	2.45	2.98	2.00	1.35	.05	.61	0	T	T	0	9.54
9	SEPULVEDA AND CHASE - LARSON	.12	0	2.30	2.50	1.03	.72	0	.52	T	0	0	0	7.19
10	BEL-AIR HOTEL	.19	0	2.87	3.38	1.60	1.66	.10	.76	0	0	0	0	10.56
11C	UPPER FRANKLIN RESERVOIR	.20	0	3.02	3.25	1.18	1.47	.03	.63	T	T	0	0	9.78
12	FRANKLIN AND MULHOLLAND PATROL #1	.19	0	3.20**	2.92	1.27	1.47	0	.79	0	0	0	0	9.84**
13	NORTH HOLLYWOOD - BLIX	.18	0	2.78	1.95	1.04	1.09	.01	.63	0	0	0	0	7.68
14	ROSCOE - MERRILL	.20	0	2.69	1.90	1.22	1.08	T	1.10	0	0	0	T	8.19
15	VAN NUYS - WAREHOUSE	.19	0	2.86	2.07	.73	.91	T	.41	T	0	0	T	7.17
17	SEPULVEDA CANYON AT MULHOLLAND HIGHWAY	.19	0	3.88	2.87	.93	1.53	T	.63	0	0	0	0	10.03
18C	RESEDA	.15*	0	3.32	1.86**	.60	.81	0	.42	0	0	0	0	7.16**
20B	GIRARD RESERVOIR	.12	0	3.39	1.87	.84	1.18	.06	.58	0	0	0	0	8.04
21	BRANT RANCH - GIRARD	.10	0	2.79	1.90	.73	.82	0	.38	0	0	0	0	6.72
23-E	CHATSWORTH RESERVOIR	.06	0	2.70	1.87	.85	1.14	.01	.42	T	0	T	0	7.05
24D	CHATSWORTH	.10	0	2.74**	1.84**	1.26	1.68	0	.55	0	0	0	0	8.17**
25B	NORTHRIDGE - ANDREWS	.14	0	2.60	1.94	.82	.93	.02	.39	0	0	0	0	6.84
27B	PACOIMA - RADDATZ RANCH	.16	0	2.60	2.27	1.09	.81	.03	.81	0	0	0	0	7.77
28C	SAN FERNANDO - SMITH	.17	0	3.02	2.36	1.03	.83	.02	.79	T	0	0	0	8.22
29B	GRANADA PUMP PLANT (SUNSHINE RANCH)	.15	0	2.94	2.72**	1.48	1.16	.03	.70	.01	0	T	T	9.19**
30	SYLMAR	.19	0	3.07	2.82	1.42	1.26	.05	1.07	0	0	0	0	9.88
31	ORCUTT RANCH - OAT MOUNTAIN	.23	0	3.49	4.45**	2.97	3.15	0	2.30	0	0	0	0	16.59**
32C-E	NEWHALL - SOLEDAD DIVISION HEADQUARTERS	.12	0	3.04	2.41	.90	1.86	.02	1.15	T	0	T	0	9.50
33A*-E	PACOIMA DAM	.12	0	3.01	2.74	2.37	1.48	.12	2.14	.03	0	T	0	12.01
38	CHAPPEL'S RANCH	.62	N	O	R	E	C	O	R	D		N.I.	N.I.	INC.
39B	SUNSET DAM	.28	0	3.13	2.21	2.00	1.47	.09	1.89	.08	0	.01	0	11.16
42	REDONDO CITY HALL	.01	0	2.18	2.81	1.43	1.54	0	.75	0	0	.07	0	8.49
43A	PALOS VERDES ESTATES - ADMINISTRATION BLDG.	.01	0	2.36	2.37	1.35	1.35	0	.76	0	0	0	0	8.20
43B	PALOS VERDES - GOLF CLUB	.01*	0*	2.55	2.32	1.50	1.42	0	.86	0*	0*	0*	0*	8.66**
44	POINT VICENTE LIGHTHOUSE	T	0	2.37	2.08	1.31	1.30	.06	.51	0	0	0	0	7.63
46D-E	BIG TUJUNGA DAM	.30	0	4.17	3.24**	2.62	2.17	0	1.36	0	0	0	.27	14.13**
47A	CLEAR CREEK	.24	0	4.92	5.62	4.03**	3.16	0	2.50	0	0	T	.46	20.93**
47C	CLEAR CREEK	.28**	0	4.65	5.54**	3.83	2.88	0	2.16	0	0	0	.23	19.57**
48	OAK WILDE	.38	0	3.70	3.69	3.88	2.87*	.13	2.87	0	0	0	0	17.52**
50B	LA CANADA - ARROYO SECO DIVISION HEADQUARTERS	.21	0	2.96	3.30	2.11	1.93	.05	1.41	.01	0	0	0	11.98
51	FALLING SPRINGS (LA CIENEGA	.42	0	5.01	5.33	3.24	3.02	.06	2.41	.38	0	0	0	19.87
52B	SWITZER'S CAMP	.40	0	3.74	4.26	3.80	2.22	0	2.72	0	0	0	.14	17.28
52C	WATERMAN GUARD STATION	.40**	0	4.37	4.60**	3.25**	2.11	.03	2.47	0	0	0	.35	17.78**
53A	SLEEPY HOLLOW RANCH - (COLBY RANCH)	.35	0	4.16	4.08**	2.19	2.07	0	.59	0	0	T	.01	13.45**
54	LDOMIS RANCH - ALDER CREEK	.41	0	2.97	2.93	1.60	1.60	T	.58	0	0	T	.23	10.32
56	KAMP KOLE - (VALLEY FORGE LODGE)	.30	N.R.	N	O	T	I	N	S	T	A	L	L	E	D	INC.
57B-E	OPID'S - CAMP HI HILL	.33	0	6.24	7.07	3.46	3.87	0	2.05	0	0	0	0	23.02
58	STURTEVANT CAMP	.30*	0	5.11	6.56	4.50	3.98	.02	2.57	0*	0*	0*	0*	23.04**
60A	HOEGEE'S - CAMP IVY	.29	0	4.97	6.82	5.37	3.44	.15	2.69	0	0	0	0	23.73
62	BIG SANTA ANITA GUARD STATION	.55	0	2.33	N.R.	N.R.	N.R.	N.R.	1.79	N.R.	N.R.	N.R.	T	INC.
63B-E	BIG SANTA ANITA DAM	.35	0	3.09	3.95	3.54	2.25	.21	1.96	T	0	T	0	15.35
66	SIERRA MADRE (PEGLER RANCH)	.11	0	3.11	N.R.	N.R.	2.28	.09	N.R.	0	0	0	0	INC.
67B	MONROVIA - CITY HALL	.28	0	2.59	3.15	2.62	2.11	.14	.76	0	0	0	0	11.65
68B	SAWPIT DAM	.48	0	3.05	4.45	3.71	2.44	.32	2.24	.04	0	0	0	16.73
69	SAWPIT CANYON (HOGBACK)	.62	0	3.55	4.44	4.85	3.04	.26	2.38	.03	0	0	0	19.17
70	ROGER'S CANYON - DALTON	.66	0	3.31	3.86	3.18	2.33	.15	1.10	0	0	0	0	14.59
73	GLENDORA - ENGLEWILD RANCH	.89	0	3.84	3.78	3.13	2.15	.10	1.49	0	0	0	0	15.38
76B	SAN GABRIEL DAM NO. 1 CAMP	.31	0	3.33	4.47	3.03	2.40	0	.99	0	0	0	0	14.53
82D	TABLE MOUNTAIN	1.22	0	2.09	6.85	1.00	1.73	T	.11	T	T	T	T	13.00
83	BIG PINES RECREATION PARK	1.54	0	3.22	7.34	2.66	2.64	.18	.54	0	0	0	T	18.12
85D	CAMP BALDY GUARD STATION	1.30	0	4.04	5.80	3.45	3.05	.02	1.31	0	0	0	1.41	20.38
87	SAN DIMAS GUARD STATION	.41	T	4.06	4.77	3.26	2.21	T	1.46	0	0	0	T	16.17
87-E	SAN DIMAS DAM	.56	.02	3.72	4.87	3.32	2.05	.04	1.50	0	0	0	0	16.08
90	ELDER RANCH (BRYDON RANCH)	.55	T	3.47	4.23	3.13	1.92	.05	1.51	0	0	0	0	14.86
91	INDIAN HILL - CLAREMONT	1.60	.05	3.06	3.55	2.59	1.38	.05	1.48	0	0	0	0	13.76
92	CLAREMONT - POMONA COLLEGE	1.75	.01	2.91	3.72	2.49	1.19	.03	.79	0	0	0	0	12.89
93	CLAREMONT - FIRE STATION	1.43	.02	2.81	3.61	2.59	1.26	.04	.85	0	0	0	0	12.61
94	CHARTER OAKS - FIELD'S RANCH	.02*	.22	4.20	3.36	3.15	1.70	.32	.75	0	0	0	0	13.72**
95	SAN DIMAS - SAN JOSE DIVISION HEADQUARTERS	.68	T	2.74	3.09	3.04	1.46	0	.92	0	0	0	0	11.93
96-E	PUDDINGSTONE DAM	.40	.02	3.24	3.66	2.96	1.51	.04	.97	0	0	0	0	12.80
98	AZUSA - HIBSCH	.31	.03*	3.39	3.11	2.80	1.86	.14	.54	0	0	0	0	12.18**
99	AZUSA - FOOTHILL RANCH	.35	.04	3.81	3.11	2.96	1.74	.06	.77	0	0	0	0	12.84
101	WEST COVINA - HURST RANCH	.19	0	3.57	3.10	1.86	1.64	.03	.53	0	0	0	0	10.92
102B	WALNUT - SOUTH HILLS PATROL STATION	.23	0	3.15**	2.77	1.47	1.21	.01	.40	0	0	0	0	9.24**
104	NORTH WHITTIER - COLE RANCH	.08	0	3.18	3.43	2.26	1.39	0	.93	0	0	0	0	11.27
105	EAST WHITTIER - SHARPLESS RANCH	.07	0	2.79	2.26	1.73	1.44	.02	.96	0	0	0	0	9.27
106	WHITTIER CITY HALL	.04	0	2.66	2.07	1.58	1.39	.02	.77	0	0	0	0	8.53
107C	DOWNEY - FIRE STATION	.12	0	2.52	2.45	1.36	1.62**	0	.97	0	0	0	0	9.04**
108B	EL MONTE - FIRE STATION	.29	0	2.80	3.22	2.00	1.66	0	.36	0	0	0	0	10.33
109C	WEST ARCADIA	.40	0	2.81	3.01	2.02	1.77	.05	.58	0	0	0	0	10.64
110	ALHAMBRA - CITY HALL	.10	0	2.87	2.71	1.70	1.67	T	.92	0	0	0	0	9.97
111	SOUTH PASADENA - CITY HALL	.08	0	2.83	3.31	1.98	1.53	.01	1.10	0	0	0	0	10.84
114	ROSECRAN'S RANCH - GARDENA	N	O	R	E	C	O	R	D					INC.
116B	INGLEWOOD - FIRE STATION NO.1	.04	0	2.04	2.36	1.90	1.60	.01*	.40	0	0	0	0	8.35**
117B'	COMPTON - FIRE STATION	.03	0	2.65	2.29	1.36	1.34	0	.69	0	0	.04	0	8.40
118B	WILMINGTON	.07	0	2.54	2.90	1.13	1.67	0	.60	T	0	.03	0	8.94
119D	SAWTELLE - SOLDIER'S HOME	.09	0	2.39	3.27	1.98	1.65	.03	.59	0	0	T	0	10.00
120	VINCENT PATROL STATION	.33	0	1.40	1.76	.40	.65	T	.13	0	0	0	T	4.67
121	LANCASTER - UNION HIGH SCHOOL	.45	0	1.50	1.70	.54	.60	T	.08	0	0	T	0	4.87
122B	LEONIS VALLEY - RITTER RANCH	.28	0	2.85	3.61	.98	1.47	0	0	0	0	0	0	9.19
124B	BOUQUET CANYON RESERVOIR	.28	0	3.63	1.81	2.22	2.43	0	.57	0	0	0	.02	10.96
125	SAN FRANCISQUITO CANYON POWER HOUSE NO. 1	.18	0	3.04	1.81	2.31	2.51	.04	.86	0	0	0	T	10.75
126	VENICE - CITY YARDS	.05	0	2.26	2.49	1.96	1.34	0	.41	0	0	.04	0	8.55
127	DRY CANYON RESERVOIR	.07	0	1.95	1.65	1.59	1.27	.03	.81	T	0	T	0	7.37
128B	ELIZABETH LAKE CANYON - WARM SPRINGS CAMP	.07	0	3.68	2.69**	2.25	3.06**	.05	1.87	T	0	0	0	13.67**
130B	SANDBERG'S - QUAIL LAKE PATROL STATION	.03	.04	1.97	2.63**	.46	1.53	.13	.67	.04	0	T	0	7.50
134	SAN DIMAS - STEVENS	1.52	0	3.59	3.22	3.22	1.80	0	1.24	0	0	0	0	14.59
135	NORWALK	.08	0	2.91	2.06	1.37	1.20	0	.47	0	0	0	0	8.09
136B	HOLLYWOOD - CITY ENGINEER	.11	0	2.49	2.84	1.32	1.35	0	.58	0	0	0	0	8.69
139	LOS ANGELES WATER DEPARTMENT - 2ND & BROADWAY	.09	0	2.21	2.43	1.23	1.24	T	.48	0	T	T	T	7.68
140	SAWTELLE - CITY HALL, WEST LOS ANGELES	.12	0	2.39**	3.40	2.13	1.78	0	.57	0	0	0	0	10.39**
143	AZUSA - CITY PARK	.34	.03	3.14	2.88	2.79	1.77	.13	.68	0	0	0	0	11.76
144	SIERRA MADRE DAM	.27	0	3.45	3.51	3.25	2.20	.20	1.91	0	0	0	0	14.79
150	MONROVIA FALLS	.59	0	3.66	4.98	4.53	3.02	.26	2.53	.03	0	0	0	19.60
155B	LITTLE ROCK CREEK	.57	0	1.40	2.71	.13	.45	0	0	0	0	T	T	5.26
156	LA MIRADA - STANDARD OIL CO.	.05	0	2.80	1.81	1.58	1.18	T	.45	0	0	0	0	7.87
157B	EL SEGUNDO - STANDARD OIL CO.	.01	T	2.08	2.05	1.42	1.53	T	.44	0	0	.05	T	7.58

TABLE VI

SEASONAL 1948-49 MONTHLY RAINFALL SUMMARY

RAINFALL RECORDS IN INCHES

STA. NO.	STATION	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
158	TANBARK FLATS	.54	0	3.96	4.68	3.47	2.39	.09	1.81	0	0	0	T	16.94
167	ARCADIA PUMPING PLANT NO. 1	.23	T	3.05	3.11	2.33	2.29	.10	1.02*	0	0	0	T	12.13**
169	SIERRA MADRE PUMPING PLANT	.25	0	2.83	2.92	2.23	2.15	.11	1.27	0	0	0	0	11.76
170B	POTRERO HEIGHTS	.08	0	2.86	3.74	1.79	1.37	0	.75	0	0	0	0	10.59
171	CHAPMAN WELLS	.30	0	2.87	3.11	2.30	2.03	.05	1.09	0	0	0	0	11.75
172B	DUARTE	.30	.01	3.25	3.38	2.43	2.40	.17	.71	0	0	0	0	12.65
174	GLENDORA - WARREN	1.08	.04	4.13	3.74	3.25	1.79	.09	1.12	0	0	0	0	15.24
175B	ALTA CANYADA - LA CANADA IRR. DISTRICT	.27	0	3.16	3.86	2.80	2.69	.13	2.61	.05	0	0	0	15.57
176	RUBIO CANYON WATER COMPANY	.27	0	2.94	3.22	2.63	1.88	.08	1.58	.05	0	.02	0	12.67
177C	LA CANADA - BRADFORD	.28	0	2.78	3.28	2.20	1.99	.09	1.58	0	0	0	0	12.20
178	AZUSA - GRIFFITH	.32	.05	3.60	2.73	2.07	1.45	.02	.48	0	0	0	0	10.72
179C	SIERRA MADRE - CARTER	.28	.02	3.43	4.03	3.01	2.24	.26	2.14	.03	0	.02	.03	15.49
181B	BASSETT - CLIFFORD	.14	T	3.64	3.08	1.91	1.49	.01	.33	0	T	0	0	10.60
185	GLENDORA - WEST	.57	0	3.85	3.47	3.32	1.83	.06	1.04	0	0	0	0	14.14
188C	SAN DIMAS - MORRISON	1.46	.02	3.32	3.46	2.87	1.57	.08	.98	0	0	0*	0*	13.76**
192B	BELL FIRE STATION	.17	0	2.47	2.67	1.33	1.34	.02	.71	0	0	0	0	8.71
193	COVINA NO. 2 - TEMPLE	.33	.01	3.72	3.21	2.46	1.60	T	.54	0	0	0	0	11.87
196B	LA VERNE - POLICE DEPARTMENT	.76	.03	3.10	3.44	2.93	1.55	.09	.80	0	0	0	0	12.70
198B	BRAND DEBRIS BASIN	.14	0	2.32	1.75	1.37	1.31	.03	.71	T*	0*	T*	T	7.63**
199B	HUNTINGTON PARK - CITY YARD	.07	0	2.72	2.73	1.29	1.60	0	.49	0	0	0	.01	8.91
200	SAUGUS - SO. CALIF. EDISON CO. SUBSTATION	.08	0	2.00	2.01	.87	1.00	.06	.53	0	0	0	0	6.55
201	PUENTE HILLS - ALTA MIRA RANCH	.08	0	2.64	3.13	1.93	1.60	0	1.09	0	0	0	0	10.47
205	PUENTE - SO. CALIF. EDISON CO. SUBSTATION	.02	.01	2.91	3.10	1.72	1.26	0	.66	0	0	0	0	9.68
206	VALENCIA HEIGHTS	.25	0	3.37	3.18	1.90	1.59	0	.58	0	0	0	0	10.87
208	ARTESIA - BARR LUMBER COMPANY	.04	0	3.13	1.96	1.24	1.10	0	.32	0	0	0	0	7.79
210B	BRAND PARK	.20	0	2.73	2.37	1.54	1.48	.05	1.27	0	0	0	0	9.64
213B	LOS ANGELES - HANCOCK PARK	.12	0	2.39**	3.04	1.52	1.28	.01	.38	0	0	.01	0	8.75**
215B	BELLFLOWER - FIRE STATION	.08	0	3.21	2.39	1.33	1.05	.01	.56	0	0	0	0	8.63
216	GLENDALE - JONES	.13	0	2.39	2.89	1.45	1.66	T	.96	T	0	0	T	9.48
217	WATTS - JORDAN HIGH SCHOOL	N.R.	N.R.	N.R.	N.R.	N.R.	1.38	T	.60	NO RECORD				INC.
219	PACOIMA - WAREHOUSE CO. FORESTRY	.20	0	2.70	2.10	1.15	1.10	0	.84	0	0	0	0	8.09
221B	PACOIMA WASH - DUCKWORTH RANCH	NO RECORD					INC.	NO RECORD						INC.
222	LANKERSHIM GENERATING PLANT	.20	0	2.02	1.23	.80	.59	.01	.56	0	0	T	0	5.41
223B-E	BIG OALTON DAM	.53	.02	4.53	4.57	3.67	2.63	.13	2.34	.02	0	0	0	18.44
224B	LONG BEACH - ALAMITOS LAND COMPANY	.03	0	2.27	2.04**	1.21	.92**	0	.26	0	0	0	0	6.73**
225	MONTANA RANCH	.03	0	3.04	2.15	1.33	1.37	0	.42	0	0	0	0	8.34
226	BURBANK - FIRE STATION	.15	0	2.34	2.06	1.07	1.06	0	.86	0	0	0	0	7.54
227B	SAN GABRIEL - GLEASON	.10	0	2.75	3.23	1.44	1.69	0	.74	0	T	0	T	9.95
228B	BEVERLY HILLS - CITY HALL	.15	0	2.36	3.66	1.74	1.63	T	.46	0	0	0	0	10.00
230C	LIVE OAK CANYON - ELDER	1.34	0	3.13	3.42	3.05**	1.59**	0	1.20	0	0	0	0	13.73**
234	COVINA - THORPE	.32	T	3.22	4.20**	2.02	1.31	0	.51	0	0	T	0	11.58**
235B	HENNINGER FLATS	.30	0	3.47	3.98	3.67	2.42	.30	3.36	.08	0	0	0	17.58
236	SAN FERNANDO - MOLLIN GROVES	.25	0	3.71	2.77	NO RECORD								INC.
237A	STONE CANYON DAM	.28	T	3.18	2.79	1.36	1.66	.02	.92	0	0	0	0	10.21
237B	STONE CANYON RESERVOIR	0	0	2.94	3.53	.88	NO RECORD							INC.
238	HOLLYWOOD DAM	.15	0	2.56	2.91	1.36	1.63	.06	.79	.01	0	T	0	9.47
240A	LITTLE TUJUNGA CANYON - ODDOUS RANCH	.16	0	3.30	2.63	2.32	1.82	0	1.87*	0*	0*	0*	0*	12.10**
241B	LONG BEACH - VETERANS MEMORIAL BUILDING	.02	0	2.46	2.28	1.38	1.00	T	.30	T	T	T	0	7.44
246	CULVER CITY - BUS YARD	.07	T	2.08	2.55	1.96	1.11	T	.38	T	0	T	0	8.15
250C	ACTON - OLIVE VIEW CAMP	.25	0	1.53	1.51**	.19	.73	0	.09	0	0	0	0	4.30**
251	LA CRESCENTA	.36	0	3.66	3.52	2.27	2.79	.05	1.68	.04	0	T	0	14.37
254	PUENTE - ROWLAND RANCH	.02*	.01*	2.95	2.79	1.69	1.28	0	.62	0	0	0	0	9.36**
255A	MOUNT SAN ANTONIO COLLEGE - SPADRA	.40	.02	3.44	3.24	1.90	1.33	.01	.54	0	0	0	0	10.88
256B	POMONA - FIRE STATION	.55	.05	2.83	2.83	1.96	1.29	.02	.37	0	0	0	0	9.90
257	GRIFFITH PARK NURSERY	.12	0	2.89	3.14	1.57	1.67	0	.88	0	0	0	0	10.27
258A	GRIFFITH PARK TUNNEL	.15	0	2.69	2.70	1.51	1.75	0	.98	0	0	0	0	9.78
258B	GRIFFITH PARK - SOUTH SLOPE MOUNT HOLLYWOOD	.15	0	2.69	2.59	1.53	1.71	0	.99	0	0	0	0	9.66
258C	GRIFFITH PARK - NORTH SLOPE MOUNT HOLLYWOOD	.16	0	2.80	2.82	1.59	1.86	0	1.09	0	0	0	0	10.32
259C	CHATSWORTH PATROL STATION - TWIN LAKES	.13	0	2.77	2.75**	1.67	2.00	.02	.83	0	T	0	0	10.17**
261-E	ACTON - MELLEN	.19	0	2.02	1.68	.95	.87	T	.38	0	0	T	.05	6.14
263A	POMONA - FRATER	.70	.05	2.91	3.05	1.79	1.41	0	.34	0	0	0	0	10.25
265C-E	PUENTE HILLS - WEISEL RANCH	0	0	2.70	2.76	1.71	1.66	0	.52	0	0	0	0	9.35
266	LEFFINGWELL RANCH - EAST WHITTIER	.05	0	3.05	2.18	1.83	1.46	.04	.87	0	0	0	0	9.48
269A	DIAMOND BAR RANCH NO. 1	.24	0	2.92**	2.98	2.00	1.63	0	.49	0	0	0	0	10.26**
269B	DIAMOND BAR RANCH - HORSE CAMP	.13	0	2.95	3.05	2.16	1.78	.10	.48	0	0	0	0	10.65
270	COUNTY FARM - RANCHO LOS AMIGOS	.14	0	2.32	2.35	1.16	1.59	0	.96	0	0	0	0	8.52
271	DOMINGUEZ HILLS	.28	0	2.63	2.43	1.43	1.10	.02	.55	0	0	.01	0	8.45
272	L.A. - HEADWORKS PUMPING PLANT	.15	0	2.35	2.55	1.16	1.40	T	.71	0	0	T	0	8.32
273C	SAN PEDRO HILLS - WALLACE	.04	0	3.12	2.47**	1.97	1.89	0	.85	0	0	0	0	10.34**
274	ACTON - HUBBARD	.20	0	2.04**	1.26	.90	1.00	.02	.29	0	0	0	.01	5.72**
275	SAN MARINO - HUNTINGTON LIBRARY	.12	0	2.90	3.47	2.04	1.78	.01	0	0	0	0	.01	10.33
277	SAWMILL MOUNTAIN RANCH	.03	.04	2.47	3.25	1.29	3.40	.17	1.14	.02	0	0	T	11.81
278B	L.A. - CLARK MEMORIAL LIBRARY	.08	0	2.31**	3.14	1.53	1.16	0	.27	0	0	0	0	8.49**
279A	PASADENA GLEN - KINNELOA RANCH	.27	0	3.12	3.68	2.85	2.05	.20	2.17	.03	T	0	0	14.37
280B	FLINTRIDGE FIRE STATION	.15	0	3.03	3.20	2.29	1.77	.06	1.29	0	0	0	0	11.79
283A	CRYSTAL LAKE - EAST PINE FLATS	.59	0	5.41	6.18	3.31	3.41	T	2.15	0	0	T	.10	21.15
284	PLACERITA CANYON	.22	0	3.69	3.21	1.40	1.77	T	1.69	T	0	0	0	11.98
285C	MOUNT ST. MARY'S COLLEGE	.20	0	2.98	3.59	2.14	1.81	0	1.02	0	0	0	0	11.74
287	GLENDORA - MUTUAL CONSOLIDATED IRR. CO.	.44	.02	4.03	3.27	3.41	1.70	.10	.98	0	0	0	0	13.95
289	LAGUNA-BELL - SO. CALIF. EDISON CO. SUBSTA.	.02	0	2.65	2.63	1.43	1.20	T	.45	0	0	T	0	8.38
290	NEWMARK - SO. CALIF. EDISON CO. SUBSTATION	.20	0	2.66	2.85	1.54	1.65	0	.68	0	0	0	0	9.58
291	LOS ANGELES - 96TH AND CENTRAL	T	0	2.62	2.87	1.62	1.68	0	.46	0	0	..03*	T	9.28**
292-E	ENCINO RESERVOIR #1	.18	0	3.35	2.05	.52	.95	.02	.33	0	0	0	T	7.40
292B-E	ENCINO RESERVOIR #2	.19	0	3.70	2.39	.65	1.21	.02	.60	0	0	0	T	8.76
293	LOWER SAN FERNANDO RESERVOIR	.14	0	3.08	2.29	1.32	1.21	.02	.89	T	0	0	0	8.95
294	SIERRA MADRE - MIRA MONTE PUMPING PLANT	.24	0	3.20	3.48	3.08	2.16**	.15	1.68	0	0	0	0	13.99**
295F	GLENDALE - KENNEDY	.13	0	2.44	2.86	1.47	1.61	T	.95	T	0	T	0	9.46
298B	GORMAN - NEAR	0	0	1.75	1.45**	.59	2.39	.43	.97	0	0	0	T	7.58**
299C	LITTLE ROCK	.50	0	1.03	1.78	.12	.22	0	.17	0	0	0	0	3.82
303D	PASADENA - CAL TECH	.28	0	3.00	3.15	1.73	1.62	.02	1.12	0*	0*	0*	.01*	10.93**
304	SAWPIT CANYON - DEER PARK	.43	0	4.17	6.21	5.18	3.36	.28	2.93	.03	0	0	0	22.59
306C	TRANCAS BEACH	.05*	.03*	3.04	2.80	1.88	1.75	0	.71	.03	0	0	0	10.29**
311B	PASADENA - METEOROLOGICAL STATION	.48	0	2.83	3.35	2.19	1.86	.09	1.19	.01	0	T	T	12.00
312	AZUSA PLANT - GLENDORA MUT. CONSOL. IRR. CO.	.64	.01	3.31	3.04	2.99	1.90	.12	.67	0	0	0	0	12.68
321-E	PINE CANYON PATROL STATION	.27	T	2.61	2.77	1.21	2.97	.07	.43	0	0	0	.04	10.37
322	MUNZ VALLEY RANCH	.26	0	2.80	1.82	.32	.88	0	0	0	0	0	0	6.08
334B-E	SAN GABRIEL DAM NO. 2	.27	0	5.33	5.54	2.39	2.32	T	.92	T	T	T	.01	16.78
336-E	SILVER LAKE RESERVOIR	.08	0	2.49	2.56	1.10	1.01	T	.48	0	0	.01	0	7.73
338A	MOUNT WILSON - OBSERVATORY	.38	0	4.91	7.30	3.64	2.73	T	2.44	0	T	T	T	21.40
338B	MOUNT WILSON - AIRWAYS STATION	.42	0	4.85	7.19	3.68	2.95	T	2.92	0	0	T	.03	22.04
339	WALNUT FRUIT GROWERS ASSOCIATION	.21	0	3.04	2.61	1.62	1.63	0	.36	0	0	0	0	9.47
341	ALISO CANYON - BLUM RANCH	.34	0	1.69	1.53	.25	.71	0	.05	0	0	0	0	4.57
342	UPLAND - CADNUM	1.79	.06	3.19	3.72	2.98	1.60	.04	1.26	0	0	0	0	14.64

TABLE VI

SEASONAL 1948-49 MONTHLY RAINFALL SUMMARY

RAINFALL RECORDS IN INCHES

STA. NO.	STATION	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
343B	RIVERA - TELEGRAPH ROAD	.07	0	2.49	2.50	1.36	1.92	.02	.96*	0	0	0	0	9.32**
347-E	BALDWIN PARK EXPERIMENTAL STATION	.43	.03	3.39	3.10	2.71	1.40	.04	.44	0	0	0	0	11.54
349B	CAMP RINCON	.26	T	3.54	4.79	2.85	2.35	T	.91	0	0	0	0	14.70
351D	PALMDALE	.31	0	1.46	1.73	.50	.23	.02	.13	0	0	.06	0	4.44
352	LECHUZA PATROL STATION	.08	0	3.72	3.29	3.26	2.90	.05	1.74	.06	0	0	0	15.10
354C	CAMP BALDY - BOY'S CAMP	.86	0	3.71	6.17	3.71	2.73	0	1.95	0	0	0	.25	19.38
355	LOS ANGELES - JUNIOR COLLEGE	.10	0	2.66	2.62	1.34	1.17	0	.79	0	0	0	0	8.68
356B	SPAORA - PACIFIC COLONY	.35	.02	3.03	2.88	1.74	1.38	T	.40	0	0	0	0	9.80
357	SAN FERNANDO POWER HOUSE NO. 3	.17	0	3.01	2.83	1.48	1.33	.01	1.04	T	0	0	0	9.87
362	EL MIRADOR RANCH	.75	0	3.02	2.98**	2.23	1.94	.03	1.41	T	0	T	0	12.36**
364	HAINES CANYON - LOWER	.35	0	4.15	2.64	2.56	2.32	T	2.90	0	0	0	0	14.92
367	HAINES CANYON - UPPER	.45	0	4.32	3.40	3.42	2.67	.05	4.04	0	0	0	0	18.35
372	SAN FRANCISQUITO POWER HOUSE NO. 2	.09	0	2.62	1.85	2.03	2.11	.05	1.07	0	0	0	0	9.82
373	BRIGGS TERRACE - PICKENS CANYON	.38	0	3.58	3.76	2.77	3.06	.13	3.41	.06	T	0	0	17.15
375B	GRIFFITH PARK ZOO	.12	0	2.81**	2.96	1.56	1.66	0	.60	0	0	0	0	9.71**
377D	LAKE SHERWOOD ESTATES	.07	0	3.34	2.79	1.23	1.84	.02	.66	.01	0	0	0	9.96
379B	SAN GABRIEL - EAST FORK	.56	0	3.62	4.47	2.93	2.24	0	1.09	0	0	0	T	14.91
380	EL SERENO	.10	0	2.79	2.61	1.48	1.48	0	.83	0	0	0	0	9.29
381B	SANTA MONICA - OUTLOOK	.09	0	2.33	2.49	2.05	1.21	0	.64	0	0	T	0	8.81
384B	HIGHLAND PARK - SAN RAFAEL HILLS	.11	0	2.73	3.56	1.67	1.65	.03	1.15	.04	0	0	0	10.94
386B	ZUMA CANYON - OAKLEY	.09	.04	3.57	2.86	3.00	2.40	0	1.63	.17	0	.03	0	13.79
387B	COVINA - CITY SEWAGE DISPOSAL PLANT	.37	0	3.58	3.85	1.61	1.51	.02	.53	0	0	0	0	11.47
388B	CLEARWATER - CO. FIRE STATION	.05	0	3.04	1.80	1.50	1.37	0	.71	0	0	0	0	8.47
389	GLENDORA - BROWN	.56	T	3.55	3.38	3.27	1.91	.15	1.11	.01	T	T	T	13.94
390B-E	MORRIS DAM	.61	T	3.51	4.99	3.85	2.68	.05	1.53	T	0	0	0	17.22
391B	MONTEBELLO - FIRE DEPARTMENT	.09	0	2.82	2.63	1.45	1.22	0	.45	0	0	0	0	8.66
394	HIGHLAND PARK - LINDSAY	.10	0	2.58	3.41	1.37	1.39	T	1.01	0	0	T	0	9.86
395	OLIVE VIEW SANITARIUM	.25	0	3.37	3.50	1.66	1.65	0	1.68	0	0	0	0	12.11
402C	CEDAR SPRINGS - STATE PRISON CAMP	.74	0	5.83	11.35	3.40	3.25	0	1.29	0	0	0	.43	26.29
404	GLENDALE - OPID'S	.13	0	2.54	2.98	1.46	1.55	0	.93	.01	0	0	T*	9.60**
405	SOLEDAD CANYON - ECKLES	.18	0	2.94	3.15	.45	1.07	0	.35	0	0	0	0	8.14
406C	WEST AZUSA - AZUSA IRR. CO. PLANT NO. 6	.31	.06	3.65	3.05	2.24	1.65	.07	.58	0	0	0	0	11.61
407	NEWHALL - U.S.F.S. HEADQUARTERS	.16	0	3.26	3.21	1.20	2.05	0	1.52	0	0	0	0	11.40
408	SOLEDAD CANYON - MITCHELL	.15	0	2.68	N O			R	E C O		R D	O		INC.
409	RIDGE ROUTE STATE HIGHWAY MAINTENANCE STATION	0	T	3.88	1.56	.97	2.44	.19	.69	0	0	0	T	9.73
410A	RIDGE ROUTE - PARADISE RANCH	0	0	3.71	2.13**	1.95	3.21	.13	1.41	0	0	0	0	12.54**
411B	RIVERA - PICO - ROBINSON	.06	0	3.20	2.70	1.37	1.51	.02	.60	0	0	0	0	9.46
415	SIGNAL HILL - CITY HALL	.02	0	2.63	2.34	1.29	1.20	0	.52	0	0	0	0	8.00
416	ALTADENA - VENTURA STREET	.26	0	3.05	3.33	2.44	1.93	.09	1.72	0	0	.02	.02	12.86
417	SIERRA MADRE - LAMANDA PARK CITRUS ASSOC.	.62	0	2.83	2.92	2.13	1.67	.04	1.06	0	0	0	0	11.27
419	SANTA CLARA RIDGE - MT. GLEASON	.42	0	3.99	5.75	2.51	2.66	0	.53	0	0	0	.13	15.99
420A	ACTON - COLOMBO RANCH	.67	0	2.12	2.28	.29*	.79	0	0	0	0	0	0	6.15**
421B	LOPEZ CANYON BELOW MOUTH	.17	0	2.40	2.56	1.25	1.18	0	.96	0	0	0	0	8.52
422B	PACOIMA CANYON - WALSH RANCH	.19	0	4.01	3.82	3.27	2.32	.03	2.59	0	0*	0*	0*	16.23
423	ALISO CANYON - WAGON WHEEL RANCH	.50	0	3.28	4.46	1.64	2.00	T	.25	0	0	T	.17	12.30
425B-E	SAN GABRIEL DAM NO. 1	.36	0	3.50	4.61	3.63	2.76	.01	1.23	0	0	0	0	16.10
427	DOWNEY - JORDAN	.11	0	2.34	2.47	1.28	1.59	.01	.84	0	T	T	T	8.64
430	SAUGUS - STATE HIGHWAY MAINTENANCE STATION	.08	0	2.14	1.84	.97	1.03**	.02	1.06	0	0	0	0	7.14**
432	SANTA ANITA - FERN LODGE	.29	0	4.16	6.63	4.40	3.36	.04	1.78	0	0	0	0	20.66
433	ALTADENA - FARNSWORTH PARK	.18	0	3.12	3.48	2.99	2.03	.12	2.38	0	0	0	0	14.30
434	MALIBU DIVISION HEADQUARTERS	.08	0	2.95	2.29	.94	1.31	.01	.47	.01	0	0	0	8.07
435	MONTE NIDO CANYON PATROL STATION	.07	0	3.41	2.64	1.90	1.75	.04	1.18	.03	0	0	0	11.02
436B	HANSEN DAM - OFFICE	.15	0	2.15	1.60	.73	.70	.02	.43	0	0	0	0	5.78
437	HAMILTON BOWL - LONG BEACH	.04	.04	2.52	2.23	1.18	1.10	.03	.40	0	0	0	0	7.54
440B	CHILAO - U.S.F.S. CAMP	.37	0	3.81	4.27	1.54	2.26	T	1.09	0	0	0	0	13.34
441-E	PALMDALE - COUNTY ROAD MAINTENANCE YARD	.34	0	1.41	1.74	.36	.41	0	.07	0	0	.05	0	4.38
442	MESCAL CREEK - FORT TEJON ROAD	1.02	0	1.34	2.84	.10	.40	.02	.08	0	.18	0	.04	6.02
443	LATIGO CANYON ROAD AT MULHOLLAND DRIVE	.09	0	3.84	2.90	2.52	2.52	.04	1.56	.11	T	.02	0	13.60
444B	ROLLING HILLS - PALOS VERDES HILLS	T	0	3.49	3.26	1.70	1.32	0	.40	0	0	.09	0	10.26
445B	LIVE OAK DAM	.97	.04	3.54	3.57	3.30	1.96	.07	1.53	0	0	0	0	14.98
446	ALISO CANYON - SANTA SUSANA MOUNTAINS	.16	0	2.94**	3.43	2.23	2.13	.03	1.18	0	0	0	0	12.10**
447	LAS FLORES PATROL STATION	.08	0	2.65	3.01	2.07	1.33	.12	.78	0	0	.01	0	10.05
449	EATON DAM	.31	0	2.92	3.15	2.57	1.85	.11	1.43	.06	T	.01	.02	12.43
451B	CASTAIC PATROL STATION	T	0	2.32	1.95	1.19	1.31	.07	.49	0	0	0	0	7.33
452	STUDIO CITY - THAYER	.18	0	2.96	2.46	1.24	1.21	0	.65	0*	0*	0*	0*	8.70**
453	DEVIL'S GATE DAM	.33	0	2.94	3.17	2.20	1.79	.06	1.35	.03	0	0	.01	11.88
454	LOS ANGELES - WOOD	.11	0	2.21	3.63**	1.62	1.16**	0	.44	0	0	0	0	9.17**
455	LANCASTER - STATE HIGHWAY MAINTENANCE STATION	.46	0	1.61	2.51	.56	.60	0	.12	0	T	T	0	5.86
456	GOLDEN MESA OUDE RANCH - PIUTTE BUTTE	.87	0	.79	1.84	.57	.25	0	.12	0	T	.05	0	4.49
457B	LOS ANGELES - ZALVIDEA STREET	.11	T	2.46	2.61	1.27	1.14	0	.58	0	0	.02	0	8.19
458	ZUMA CANYON PATROL STATION	.05	.03	2.32	2.47	2.01	2.17	0	.87	0	0	0	0	9.92
460	PLEASANT VIEW MESA - MATAY	.73	0	1.57**	3.22*	N.R.	1.14**	N O		R E C O		R D		INC.
461	BALDWIN HILLS - STANDARD OIL FIELD OFFICE	.04*	0	2.10	2.53	2.10	1.48	0	.52	0	0	0	0	8.77
462	HILLCREST COUNTRY CLUB	.08	T	2.12	3.12	1.54**	1.24	0	.43	0	0	0	0	8.53**
463	MAR VISTA - SO. CALIF. WATER COMPANY	.07	0	1.86	2.77	2.33	1.35	0	.14	0	0	.01	0	8.43
464	TUJUNGA CANYON - HONOR CAMP NO. 5	.29	0	3.85	4.37**	2.64	2.22	0	1.58	0	0	0	.20	15.15**
465B	SEPULVEDA DAM	.13	0	2.31	1.47	.47	.65	T	.21	0	0	.05	T	5.29
466B	PACOIMA CANYON - OUTCH LOUIE CANYON	.22*	0	3.56	3.86	3.47	2.60	.10	3.00	0	0	0	0	16.81**
468-E	PICKENS DEBRIS BASIN	.37	0	2.98	3.63	2.38	2.48	.07	1.82	.05	0	0	0	13.78
469	LOS ANGELES - CRISLER	.13	0	2.50	2.84	1.54	1.39	T	.59	0	0	.06	T	9.05
470	TUJUNGA - MILL CREEK	.50	0	2.58	4.62	1.83	1.67	0	.50	0	0	0	.13	11.83
471	LITTLE TUJUNGA - GOLD CREEK	.21	0	N.R.	N.R.	N.R.	2.10	0	2.17	0	0	0	0	INC.
473	AQUA DULCE CANYON - BLACKWELL RANCH	.13	0	2.16	1.59	.77	1.06	T	.49	0	0	0	0	6.20
474	SOUTH GATE - POLICE DEPARTMENT	.11	0	2.69	2.66	1.48	1.52	0	.33	0	0	0	0	8.79
475	SAUGUS - NEWHALL LAND AND FARMING COMPANY	.08	0	2.28	1.82	1.00	1.37	.04	.89	0	0	0	0	7.48
476B	TRIUNFO CANYON	.06	0	2.86	2.28	.92	1.41	T	.56	0	0	T	0	8.09
477B	SANTA ANITA - SPRING CAMP	.43	0	5.73	7.44	3.99	2.97	0	2.48	0	0	0	0	23.04
478	VALYERMO - U.S.F.S. HEADQUARTERS	.74	0	1.70	3.14	.03	.47	0	.11	0	0	0	T	6.19
479	ARCADIA - GONTER	.29	0	2.37	D I S C O N T I N U E D									INC.
480B	TEMPLE CITY FIRE DEPARTMENT	.36*	0*	2.94	3.37	1.94	1.65	.01	.50	0	0	0	0	10.77**
482	LOS ANGELES - U.S.C.	.09	0	2.55	2.80	1.51	1.54	T	.50	0	0	.06	0	9.05
485	COVINA - BURCH	.40	.05	3.74	3.13	2.28	1.59	0	.58	0	0	0	0	11.77
486	COLDWATER CANYON - WIDMAN RANCH	.88	0	3.90	4.69	3.26	2.70	.13	1.98	T	0	T	.88	18.42
487B	MALIBU BEACH AT WINTER CANYON	.06	.02	2.82	2.39	1.89	N O T - I N S T A L L E D							INC.
488	EAGLE CANYON PATROL STATION	.17	0	2.29	2.04	1.46	1.47	.02	1.30	T	0	0	0	8.75
489	COLD CREEK - STUNT'S RANCH	.08	0	3.77	3.07	1.35**	1.93	.04	1.38	T	T	T	T	11.62**
490	LANCASTER - WILEY RANCH	.44	0	.66	1.47	.36	.24	0	.09	0	0	.05	0	3.31
491	PACIFIC PALISADES	.10	0	2.49	3.46	2.47	1.30	.05*	.81	0	0	0	0	10.68**
492	CHILAO - STATE HIGHWAY MAINTENANCE STATION	.29	0	3.79	4.03	1.60	2.24	0	.80	0*	0*	0*	0*	12.75
493	SAND CANYON - MAC MILLAN RANCH	.08	0	4.06	2.45*	1.25	1.97	.02	1.17	T*	0*	0*	0*	11.00**
494	PICO - CATE	.08	0	3.36	2.76	1.46	1.47	.02	.60	0	0	0	0	9.75

TABLE VI

SEASONAL 1948-49 MONTHLY RAINFALL SUMMARY

RAINFALL RECORDS IN INCHES

STA. NO.	STATION	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
495	L.A. - EIGHTH AND FIGUEROA	.11	T	2.58	2.67	1.60	1.54	.01	.63	0	0	.03	.01	9.18
497	CLAREMONT - SLAUGHTER	1.48	.05	3.09	3.56	3.04	1.63	.05	1.26	0	0	0	0	14.16
498	ANGELES CREST HIGHWAY AT DARK CANYON TRAIL	.45**	0	3.72	4.51	4.01	3.13	.16	3.16	0	0	0	.13	19.28**
X-3A	RUSTIC CANYON FIRE AREA	.05	0	2.94	3.69	1.95	2.10	0*	.83*	0*	0*	0*	0*	11.56**
X-6	ENCINO NO. 2	.19	0	4.19	2.82	.98	1.77	.04	1.14	0	0	0	T	11.13
508B	ARROYO SECO - RANGER STATION	.25	0	3.07	3.46	2.51	1.91	.06	2.06	0	0	0	0	13.32
517	ANDERSON RANCH (BURKHART RANCH)	.72	0	2.14	3.13	.18	1.14	0	.24	0	0	.07	.06	7.68
529	CHINO-AMERICAN BEET SUGAR COMPANY	.65	.03	2.85	2.62	1.46	1.38	0	.32	0	0	T	0	9.31
530	CONEJO RANCH	.08	0	2.65	1.29	.92	.90	.03	.44	0	0	0	0	6.31
542	FAIRMONT	.15	T	2.80	2.60	.80	1.92	.05	.22	T	.02	0	T	8.56
551	HUENEME LIGHTHOUSE	.05	0	1.78	1.37	1.34	1.53	.02	.37	.08	0	0	0	6.54
557	LA HABRA - CITRUS ASSOCIATION	.03	0	2.47	1.79	1.49	1.18	0	.45	0	0	0	0	7.41
565B	LONG BEACH - CITY AUTOMATIC	.02	0	2.46	2.19	1.00	1.21	T	.23	T	T	T	0	7.11
566	LONG BEACH NO. 1	.02	0	2.81	2.36	1.58	1.28	.03	.24	T	T	T	0	8.32
571B	LONG BEACH NO. 6	.03	0	2.13	2.18	1.43	1.10	T	.17	T	T	T	0	7.04
575B	LONG BEACH WEATHER BUREAU	.02	.01	2.66	2.04	1.29	1.15	T	.33	T	T	T	T	7.50
577E	L.A. - U.S.W.B. - 6TH AND MAIN STREETS	.08	T	2.25	2.26	1.27	1.44	T	.41	T	T	.01	.01	7.73
577F	L.A. - U.S.W.B. - FEDERAL BUILDING	.09	T	2.20	2.43	1.41	1.40	T	.46	T	T	.01	.01	8.01
587	SAN ANTONIO CANYON - POWER HOUSE NO. 1	.75	0	3.56	4.74	3.68	1.97	.05	1.55	0	0	0	0	16.30
588B	MOUNT LOWE	1.06*	0*	2.46*	3.48*	4.40*	3.00*	.85*	2.90*	0*	0*	0*	.03*	18.18*
593B	NEWHALL RANCH	.06	0	2.50	2.25	1.14	1.37	.08	.88	.03	0*	0*	0*	8.31**
594B	NEWHALL	.11	0	2.92	2.38	1.08	1.43	0	1.04	T*	0*	T*	0*	8.96**
598	NEENACH	.05	.07	1.42	1.28	.38	.83	.21	.14	.01	0	0	0	4.39
610A	PASADENA - JONES	.48	0	3.08	3.56	2.27	1.77	.12	1.35	0	0	0	0	12.63
610B	PASADENA - CITY HALL	.60	0	3.04	3.52	2.11	1.71	.08	1.19	T	0	0	T	12.25
611	PASADENA - ALLEN	.34	0	2.94	3.39	2.56	1.87	.10	1.55	.02	0	0	0	12.77
612B	PASADENA - CHLORINE PLANT	.24	0	3.04	3.35	2.53	1.87	.10	1.61	.05	0	0	0	12.79
613	PASADENA - HURLBUT FIRE STATION	.10	0	2.80	3.21	1.68	1.73	.05	1.08	.03	0	0	0	10.68
617	POMONA - ADAMSON	.53	.05	2.98	3.90	2.26	1.37	.07	.79	0	0	T	0	11.95
618	SANTA SUSANA - WOLFF RANCH	0	0	2.85	1.53	1.58	1.15	0	0	0	0	0	0	7.11
619	SAN ANTONIO CANYON - SIERRA POWER HOUSE	1.59	0	4.35	5.03	3.14	2.47	.03	1.28	0	0	0	0	17.89
627	SAN GABRIEL CANYON POWER HOUSE	.69	0	3.35	3.63	3.19	2.14	.19	1.06	T	0	T	T	14.25
629C	SAN PEDRO U.S.W.B.	.02	.02	1.93	2.72	1.65	.57	T	.46	T	0	0	0	7.37
634B	SANTA MONICA - CITY HALL	.06	0	2.18	2.39	2.08	1.86	0	.69	0	0	T	0	9.26
644	SOMIS - SNYDER RANCH	0	0	1.91	1.97	1.48	1.18	0	1.13	.02	0	0	0	7.69
647G	SUNLAND - TUJUNGA - U.S.W.B.	.19	0	3.81	2.89	2.02	1.63	.05	1.74	T	0	T	0	12.33
650B	UPLAND - BAIRD	1.30	.02	3.38	3.75	3.72	1.66	.09	1.69	T	0	T	T	15.61
656A	SUNLAND	.18	0	2.97	1.62	1.45	1.28	0	1.10	0	0	0	0	8.60
660	OXNARD	.10	0	2.19	1.71	1.32	1.18	.03	.84	.11	T	0	0	7.48
662	LONG BEACH - 37TH AND GAVIOTA	.03	0	3.06	2.67	1.48	1.04	.03	.41	T	T	T	0	8.72
666	LONG BEACH - SOUTH & LEMON	.05	0	2.81	2.34	1.48	1.04	.03	.45	T	T	T	0	8.20
671B	L.A.-WABASH - SO. CALIF. EDISON CO. SUBSTA.	.11	0	2.71	2.46	1.36	1.47	T	.80	0	0	0	0	8.91
672	EAGLE ROCK - SO. CALIF. EDISON CO. SUBSTA.	.22	0	2.81	3.28	1.59	1.91	.03	1.28	0	0	0	0	11.12
673	SEAL BEACH GAS AND ELECTRIC PLANT	.01	T	2.27	1.90	1.23	.86	0	.20	0	0	0	0	6.47
676	LOS ANGELES - WEST 80TH STREET	.04	T	2.63	2.84	1.92	1.97	T	.51	0	T	.06	T	9.97
677C	PASADENA - HOFFNER	.51	0	3.15	3.06	2.35	1.97	0	1.54	.02	0	0	0	12.60
678	PASADENA - SHELDON RESERVOIR	.41	0	3.08	3.15	2.26	1.91	.09	1.38	.04	0	0	0	12.32
679	PUENTE - NO. WHITTIER HEIGHTS CITRUS ASSOC.	.07	0	3.40	3.18	1.75	1.56	0	.67	0	0	0	0	10.63
680	WESTWOOD - U.C.L.A.	.20	T	2.87	3.61	1.94	2.03	.05	.82	T	T	.01	T	11.53
681A	SANTA ANITA PATROL STATION	.30	0	3.20	3.11**	2.57	2.25	.51	1.40	0	0	.02*	.03*	13.39**
683	SUNSET RIDGE GUARD STATION	.23	0	3.32	3.22	2.99	2.18	.15	2.47	.02	0	0	0	14.58
684	ARCADIA WAREHOUSE - U.S.F.S.	.41	0	2.83	3.22	2.22	2.23	.05	.76	0	0	0	0	11.72
689B	SAN MARINO - COOPER	.11	0	2.85	2.68	1.32	.92	0	1.21	0	0	0	0	9.09
691	SAN ANTONIA SPREADING GROUNDS	1.16	.02	3.13	3.56	3.35	1.72	.12	2.03	.01	0	0	0	15.10
694B	TUJUNGA CANYON - U.S.F.S. GUARD STATION	.16	0	3.61	NO RECORD									INC.
695	TUJUNGA CANYON - VALHALLA RANCH	.19	0	4.66	3.81**	2.72	2.51	0*	1.32	0	0	0	0	15.21**
696	PASADENA - GLEN	.23	0	3.34	3.86	3.13	2.19	.26	2.51	.09	0	0	0	15.61
703	GLENDALE - MC INTYRE	.13	0	2.59	3.10	1.44	1.40	0	.85	0	0	0	0	9.51
705	ALDER CREEK - PARADISE RANCH	.18	0	3.36	2.42	2.44	1.76	.05	1.92	0	0	0	0	12.13
706	RIVERA - HADLEY RANCH	NO RECORD											0	INC.
715	L.A. NO. 2 - U.S.W.B. P.O. TERMINAL BLDG.	.11	T	2.48	2.62	1.54	1.48	T	.57	T	T	.03	.01	8.84
716	L.A.W.D. - DUCOMMUN STREET	.09	0	2.39	2.22	1.44	1.43	0	.50	0	0	0	0	8.07
718	THOUSAND OAKS	.12	0	3.08	1.88	1.36	1.27	.05	.58	0	0	0	0	8.34
719	DUARTE - MADDOCKS RANCH	.56	0	3.29	3.32	2.78	2.38	.26	1.03	.02	0	0	0	13.64
720	SIMI VALLEY - SMITH RANCH	0	.06	3.08	2.19	1.83	1.73	.87	0	0	0*	0*	0*	9.76**
722B	BELLEVIEW - STRATMAN	.26*	0	2.51	2.53	.80	.69	0	0	0	0	0	0	6.79**
723	STONE CANYON - SAN FERNANDO VALLEY	.24	0	3.43	2.50	.97	1.36	.02	.78	0	0	0	0	9.30
724	BIG DALTON - MONROE CANYON FLUME X	.51	0	4.33	5.09	3.54	2.36	.15	2.10	0	0	0	0	18.08
725	BIRMINGHAM HOSPITAL	.11	0	2.59	1.50	.52	.48	0	.39	0	0	0	0	5.59
726	ANGELES CREST GUARD STATION	.39	0	3.54	4.13	3.84	2.83	.12	3.87	.04	0	.02	0	18.78
727	NEWCOMB PASS	.25	0	4.61	6.39	3.11	3.02	T	2.66	0	0	0	0	20.04
728	PACOIMA CANYON - CITY ROAD GAGE	.26	0	4.57	3.87	3.81	1.95	.02	2.32	0	0	0	0	16.80
729	MAGIC MOUNTAIN RIDGE - INDIAN CANYON	.25	0	3.74	4.64	2.35	1.52	.03	1.45	0	0	0	0	13.98
730	MILLARD CANYON - DAWN MINE	.42	0	3.64	4.26	3.66	2.52	.06	3.59	.05	0	0	0	18.20
731	OAK GROVE HEADQUARTERS - U.S.F.S. FLOOD CONTROL	.27	T	3.00	3.42	2.37	1.74	.04	1.70	.04	0	0	.01	12.59
732	ROBERT'S CANYON - SAN GABRIEL WEST FORK DIVIDE	.26	0	4.88	6.37	3.90	3.03	T	1.25	0	0	0	0	19.69
733	ARROYO SECO - CLOUDBURST CANYON	.37	0	5.44	4.32	3.43	1.44	T	2.36	0	0	0	0	17.36
734	LOS ANGELES - MUNICIPAL AIRPORT	.03	T	2.22	2.30	1.55	1.44	.01	.42	T	T	T	.01	7.98
735	BELL CANYON - PLATT RANCH	.06	0	2.34	1.49	.74	.78	0	.27	0	0	0	0	5.68
737	UPPER SESPE CHORO GRANDE RANCH	T	0	3.85	1.55	.92	3.38	.02	.98	.15	0	0	0	10.85
739	SANTA PAULA - LIMONEIRA RANCH	.01	0	2.41	1.84	1.16	1.51	.01	.96	.05	0	0	0	7.95
740B	SAN DIMAS CANYON - FERN #2	.67	0	5.04	7.40	3.26	2.37	.11	1.67	0	0	0	0	20.52
741	SAN DIMAS CANYON - UPPER EAST FORK	.54	0	3.75	4.88	3.29	1.97	.10	2.47	0	0	0	0	17.00
742B	SAN GABRIEL - FIRE DEPARTMENT	.13	0	2.90	3.23	1.69	1.72	.04	.68	0	T	0	T	10.39
746	MOHAVE - BACKUS RANCH	.04	T	.89	1.54	.45	.19	0	0	0	0	0	0	3.11
747	SANDBERG - AIRWAYS STATION	.03	.03	1.43	3.41	.46	1.41	.15	1.10	.02	T	.01	0	8.05
748	NEWHALL - C.A.A.A.C. STATION	.11	0	2.73	2.08	1.02	1.35	.02	.78	.02	T	0	0	8.11
749	BURBANK - U.S.W.B.	.13	T	2.52	1.81	1.16	.86	.03	.98	.02	T	T	T	7.51
750	PALMDALE - C.A.A.A.C. STATION	.34	0	.88	1.48	.18	.21	T	.04	0	0	T	T	3.13
751	TORRANCE - FIRE DEPARTMENT	.05	0	2.50	2.69**	1.14	1.26	T	.67	T	T	.20	T	8.51**
752	MONROVIA - GEARY	.37	.01	2.65	3.13	2.62	2.18	.12	.70	0	0	0	.01	11.79
754	LYON'S CANYON - NEWHALL	.15	0	3.84	3.59	1.17	1.90	.03	.88	T	0	0	0	11.56
755	GRIFFITH PARK - LITTLE CANYON	.12	0	2.50	2.53	1.53	1.45	0	.28	0*	0*	0*	0*	8.41**
756	GRIFFITH PARK - UPPER SPRING CANYON	0	0	2.52	2.52	1.43	1.50	0	1.00	0*	0*	0*	0*	8.97**
757	GRIFFITH PARK - FERN DELL	.02	0	2.33	1.87	.82	1.19	0	.60	0*	0*	0*	0*	6.83**
758	GRIFFITH PARK - LOWER SPRING CANYON	.13	0	2.56	2.94	1.55	1.62	0	.80	0*	0*	0*	0*	9.60**
759	HOLLYWOOD - COURTNEY AVENUE	.16	0	2.24	2.86	1.15	1.64	0	.90	0*	0*	0*	0*	8.95**
760	STUDIO CITY ((MILLERS)	.17	0	2.82	2.47	1.04	1.03	0	.60	0*	0*	0*	0*	8.13**
761	STONE CANYON (VALLEY SIDE)	.23	0	3.73	2.83	.95	1.64	0	.98	0*	0*	0*	0*	10.36**
762	UPPER STONE CANYON	.21	0	3.25	2.81	1.10	1.37	0	.88	0*	0*	0*	0*	9.62**
763	STONE CANYON - FIRE ROAD NO. 18	.16	0	3.25	3.25	1.14	1.98	0	1.05	0*	0	0*	0*	10.83**

TABLE VI

SEASONAL 1948-49 MONTHLY RAINFALL SUMMARY

RAINFALL RECORDS IN INCHES

STA. NO.	STATION	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAYP	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
764	STONE CANYON - RAIL LANE 2302	.20	0	3.04	3.54	1.16	1.75	0	.95	0*	0*	0*	0*	10.64
765	SEPULVEDA AND MULHOLLAND	.21	0	3.53	2.91	.88	1.65	0	1.04	0*	0*	0*	0*	10.22
766	MANDEVILLE CANYON - FIRE ROAD NO. 26	.15	0	3.65	2.49	.85	1.52	0	.95	0*	0*	0*	0*	9.61
767	MANDEVILLE CANYON - ROAD NO. 3351	.20	0	3.65	3.60	.92	2.32	0	1.29	0*	0*	0*	0*	11.98
768	SULLIVAN CANYON - FIRE ROAD NO. 26	.16	0	3.51	2.20	.75	1.59	0	.91	0*	0*	0*	0*	9.12
769	SANTA YNEZ CANYON - TEMESCAL FIRE ROAD NO. 30	.07	0	3.67	2.87	.97	1.77	0	1.14	0*	0*	0*	0*	10.29
770	SANTA YNEZ CANYON - PASEO MIRAMAR	.08	0	1.83	2.52	2.23	1.34	0	.82	0*	0*	0*	0*	8.82
771	RUSTIC CANYON	.10	0	2.23	3.05	2.04	1.14	0	.65	0*	0*	0*	0*	9.21
772	LOS ANGELES - ECHO PARK AND LUCRETIA	.10	0	1.83	2.15	.80	.91	0	.52	0*	0*	0*	0*	6.25
775	LOS ANGELES - 8TH AND CROCKER	.10	0	2.21	2.16	1.20	1.35	0	.50	0*	0*	0*	0*	7.52
776	NICHOLS CANYON - WOODROW WILSON	.21	0	2.96	3.17	.86	2.57	0	.38	0*	0*	0*	0*	10.15
777	KENTER CANYON - N. KENTER	.16	0	2.89	3.47	1.53	2.07	0	.68	0*	0*	0*	0*	10.80
778	SEPULVEDA CANYON - BELLAGIO ROAD	.18	0	2.85	3.42	1.27	2.20	0	2.05	0*	0*	0*	0*	11.97
779	GRIFFITH PARK - NORTH CANYON	.17	0	2.69	3.19	1.52	1.52	0	.80	0*	0*	0*	0*	9.89
780	GRIFFITH PARK - NORTH CANYON	.15	0	2.41	2.57	1.42	1.43	0	1.05	0*	0*	0*	0*	9.03
782	PASADENA - CHAPMAN RESERVOIR	.38	0	2.53	D	I	S	C	O	N	T	I	N	U	E	D			INC.
783	COON CANYON	.25	0	3.20	3.53	2.71	1.98	.07	2.16	.02	0	0	0	13.92
784	COON CANYON	.26	0	3.15	3.58	2.85	2.12	.10	2.56	T	0	0	0	14.62
785	COON CANYON	.27	0	3.35	3.64	3.14	2.21	.12	2.61	T	0	0	0	15.34
786	COON CANYON	.25	0	2.81	3.03	2.64	1.75	.11	2.27	T	0	0	0	12.86
787	COON CANYON	.29	0	2.75	3.40	2.81	1.91	.12	2.24	T	0	0	0	13.52
788	COON CANYON	.29	0	2.70	3.17	2.73	1.77	.07	2.13	T	0	0	0	12.86
789	EL PRIETO CANYON	.36	0	3.20	3.41	3.29	2.13**	.24	3.12	.01	0	0	0	15.76**
790	FILLMORE CITRUS ASSOCIATION	0	0	2.80	2.38	1.68	1.79	0	.99	.05	0	0	0	9.69**
791	SATICOY - CULBERTSON LEMON ASSOCIATION	0	0	2.12	1.51	1.19	1.05	0	.66	.05*	0	0	0	6.58
792	SANTA PAULA - COUNTY AGRICULTURE OFFICE	T	0	3.24	2.39	1.43	1.54	.07	1.06	.06	0	0	0	9.79
793	MARKHAM SADDLE	.43	0	3.62	5.65	3.20	1.50*	T	1.49	0	0	0	0	15.89**
794	LOWER FRANKLIN RESERVOIR	.14	0	2.81	3.00	1.41	1.91	.03	.69	0	0	T	0	9.99
795	PASADENA - JOURDAN	N.I.	N.I.	NIL.	2.95	2.31	2.51	.05	1.15	T	0	0	.01	INC.
796	FIRE STATION TOWER	0	0	1.22	1.93	1.06	.90	0	.55	0*	0*	0*	0*	5.66
797	DE SOTO RESERVOIR	.13	0	2.61	2.63	1.22	1.54	T	.50	0	0	0	0	8.63
798	MOLLIN RANCH - CHINO	N.R.	N.R.	2.64	4.61	2.39	N	O	R	E	C	O	R	D			INC.
799	BALDWIN HILLS RESERVOIR	.03	0	2.24	2.84	1.94	1.07	0	.36	0	0	0	T	8.48
1000	HUNT CANYON - BONES RANCH	.48	0	2.47	3.35**	.27	.99	0	.36	0	0	0	0	7.92**
1001	SAN GABRIEL - WEST FORK GUARD STATION	.06	0	5.85	6.96	3.38	3.88	0	1.41	0	0	0	0	21.54
1002	TUJUNGA - TANGUAY	.19	0	3.64	2.83	1.97	1.27	0	1.76	T	0	.01	0	11.67
1004	MALIBU CREEK - CRATER CAMP	.06	0	3.71	3.32	1.93	1.99	.04	1.22	.03*	0*	0*	0*	12.30
1005	MINT CANYON - THE OAKS	.08	0	2.32	1.66	1.59	1.61	0	.57	0	T	0	.17	8.00
1006	SAN PEDRO CITY RESERVOIR	T	0	2.30	2.68	1.54	1.29	0	.40	0	0	.03	0	8.24
1007	ANGELES CREST HIGHWAY - CAMP VALCREST	.47	0	4.50	4.90	1.61	1.46	0	.37	0	0	0	0	13.31
1008-E	LA FRESA - SO. CALIF. EDISON CO. SUBSTATION	T	0	2.59	2.99	1.41	1.29	0	.76	0	0	0	0	9.04
1009	MINT CANYON - DYER	.10	0	2.20	1.41	.67	.92	0	.66	0*	0*	0*	0*	5.96
1010B	PALMER CANYON - FORKS	1.63	0	3.74	4.64	3.88	2.19	.18	2.31	0	0	0	T	18.57
1011	SAN PEDRO HILLS - SWAFFIELD	.04	0	3.19	3.21	2.11	1.55	0	1.27	0	0	.05	0	11.42
1012	CASTAIC JUNCTION	.05	0	2.24	1.96	1.22	1.09	.07	.42	0	0	0	0	7.05
1013	TUJUNGA CANYON ABOVE GOLD CANYON	.16	0	4.10	2.05	2.21	1.46	0	1.90	0	0	0	0	11.88
1014	RIO HONDO SPREADING GROUNDS	.08	0	2.81	2.84	1.40	1.41	.09	.59	0	0	0	0	9.22
1015	ALTADENA	.28	0	2.87	3.33	2.44	D	I	S	C	O	N	T	I	N	U	E	D			INC.
1016	PALO COMADO CANYON - AGOURA	.06	0	2.59	1.77	1.00	1.19	.02	.53	T	0	0	0	7.16
1017	LITTLE ROCK CREEK	.56	0	1.45	2.88*	.19	.46	.24	.05	0	0*	T*	T*	5.83**
1018	OAT MOUNTAIN - DEVIL'S CANYON	.24*	0	3.71*	4.15*	3.27*	3.83*	0*	1.58*	0*	0*	0*	.02*	16.80
1019	SANTA SUSANA MTS. - SALT CANYON	.26*	0	3.13*	3.43*	.98	1.44*	0	.66	0	0	0	.01*	9.91
1020	PADUA HILLS PATROL STATION	1.40**	.01	3.21	4.27	3.25	1.71	.03	1.85	0*	0*	0*	T*	15.73**
1021	YERBA BUENA WATER TANK	.25*	0*	2.10*	3.94*	2.03*	1.30*	.03*	1.26*	0*	0*	0*	.04*	10.95
1022	HASLEY CANYON - WESTERN GULF OIL COMPANY	T*	0	2.86	2.49	1.55	1.58	.10	.57	0	0	0	0	9.15
1023	GARRAPATA CANYON - MC BRIDE	N.I.	N.I.	INC.	2.94**	.97**	1.64	N.R.	.95	N.R.	N.R.	N.R.	N.R.	INC.
1024	TOPANGA MINERAL SPRINGS	N.I.	N.I.	N.I.	N.I.	N.I.	INC.	N.R.	.70	N.R.	N.R.	N.R.	N.R.	INC.
1025	MALIBU BEACH - DUNNE	N.I.	N.I.	N.I.	N.I.	N.I.	INC.	N.R.	1.13	N.R.	N.R.	N.R.	N.R.	INC.
1026	SANTA ANITA ABOVE WINTER CREEK	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	.12	1.92	0	0	0	0*	INC.
1027	LITTLE TUJUNGA CANYON - COTTONWOOD GLEN	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	0	1.87	0	0	0	0	INC.

LEGEND

* - - - - - - ESTIMATE FROM NEARBY STATION
** - - - - - PARTLY ESTIMATED
INC.- - - - - INCOMPLETE RECORD
N.I.- - - - - NOT INSTALLED
N.R.- - - - NO RECORD

TABLE VII

RAIN GAGE STATION LOCATION

SEASON 1947 - 48

STA. NO.	TYPE GAGE	QUAD INDEX	ELEV. U.S.G.S.	NORTH LAT. ° ' "	WEST LONG. ° ' "	OBSERVER	LOCATION
2B	S	22-25	1050	34 02 55	118 46 25	COUNTY FORESTRY EMPLOYEES	UPPER ESCONDIDO CANYON
3B	S	34-09	975	34 06 20	118 47 30	J. K. WARD	SEMINOLE HOT SPRINGS - LA SIERRA CANYON AT CORNELL
5B	S	35-64	924	34 09 30	118 38 09	TOM FARMER	4803 EL CANON AVENUE, CALABASAS
6	SA	24-01	747	34 05 08	118 35 58	CAPTAIN BARTON	.5 MILES SOUTH OF TOPANGA POST OFFICE
7C	S	24-55	95	34 02 28	118 32 45	ROY KINMAN	BEL AIR BAY CLUB, ROOSEVELT HIGHWAY 16801
9	SP	48-37	815	34 13 34	118 28 03	ROBERT LARSON	8535 SEPULVEDA BOULEVARD, SAN FERNANDO VALLEY
*10	SA	25-51	540	34 05 11	118 26 45	FRED BANNASCH	701 STONE CANYON ROAD, WEST LOS ANGELES
11C	SP A	37-87	867	34 07 14	118 24 38	F. S. PAYNE	UPPER FRANKLIN RESERVOIR
12	S	37-86	1175	34 07 48	118 24 42	CITY FIREMEN	MULHOLLAND HIGHWAY AT FRANKLIN CANYON
13	S	38-34	593	34 09 47	118 22 17	KATIE BLIX	10834 EAST BLIX STREET, NORTH HOLLYWOOD
14	SP	49-46	1000	34 14 19	118 21 28	E. S. MERRILL	NEAR MOUTH OF LA TUNA CANYON
15	SP A	37-41	695	34 10 48	118 27 03	FRANK CARR	AETNA AND VESPER STREETS, VAN NUYS
17	S	37-07	1400	34 07 48	118 29 42	CITY FIREMEN	SEPULVEDA CANYON AT MULHOLLAND HIGHWAY
*18	S	36-73	815	34 09 56	118 31 38	E. M. SHERMAN	ADOHR DAIRY, VENTURA BOULEVARD, TARZANA
*20	S	35-84	986	34 09 07	118 36 35	L.A.W.D. EMPLOYEES	GIRARD RESERVOIR
21	S	36-02	876	34 10 16	118 35 56	CARL WYNINGER	WEST OF CONAGO AVENUE, NORTH OF VENTURA BOULEVARD, BRANT RANCH - GIRARD
23-E	SP AP	46-87	865	34 13 36	118 37 03	L.A.W.D. EMPLOYEES	EAST END CHATSWORTH RESERVOIR
24D	S	46-94	957	34 15 23	118 36 19	TRACY HUGHES	10202 TOPANGA CANYON ROAD
25B	SP	47-57	795	34 13 44	118 32 53	JACK ANDREWS	19055 WEST PARTHENIA STREET, NORTHRIDGE
*27B	S	48-64	939	34 15 23	118 26 09	GLEN C. RADDATZ	14163 VAN NUYS BOULEVARD, PACOIMA
*28B	SP	48-32	950	34 16 18	118 27 58	R. C. SMITH	11044 STRANWOOD, SAN FERNANDO
29B	S	47-81	1150	34 17 02	118 30 50	L.A.W.D. OPERATOR	MAYERLING STREET AT L.A.W.D. PUMP PLANT, GRANADA
30	SP	59-28	1250	34 18 37	118 28 17	W. C. SIMMONDS	SYLMAR OLIVE PACKING PLANT
31	S	58-27	2850	34 19 28	118 34 14	W. G. WILLET	ORCUTT RANCH, OAT MOUNTAIN
32C-E	S	58-61	1243	34 23 07	118 31 54	L.A. CO. FORESTRY EMPLOYEES	INLAND HIGHWAY, 1/4 MILE NORTH OF NEWHALL
33A'-E	S A	60-07	1500	34 19 48	118 23 59	L. L. MOORE	CARETAKER'S HOUSE, BELOW PACOIMA DAM
38	S	49-34	1060	34 15 13	118 21 44	SAM J. CHAPPEL	10100 HELEN STREET, ROSCOE
39B	8.81"	50-19	1610	34 12 18	118 17 05	FLOOD CONTROL EMPLOYEES	SUNSET DAM, BURBANK
42	8.81"	7-15	50	33 50 28	118 23 22	CITY CLERK	ROOF OF CITY HALL, REDONDO
43A	SP	7-19	300	33 48 00	118 23 20	S. F. BERGSTROM	75 MALAGO COVE PLAZA, PALOS VERDES ESTATES
*43B	SP	2-10	450	33 47 47	118 22 12	JACK CAGLEY	GOLF CLUB - PALOS VERDES ESTATES
44	S	1-85	125	33 44 30	118 24 38	JOE MAY	POINT VICENTE LIGHTHOUSE
46D-E	SA	51-10	2315	34 17 31	118 11 15	D. J. ROBERTSON	WEST OF SPILLWAY, BIG TUJUNGA DAM
47A	SA	51-22	3100	34 16 36	118 10 15	MRS. H. H. ROGERS	1.6 MILES UP CLEAR CREEK, FROM BIG TUJUNGA CANYON
47C	SA	51-22	3125	34 16 45	118 10 27	FLOOD CONTROL EMPLOYEES	CLEAR CREEK NEAR ANGELES FOREST HIGHWAY
48	S	51-15	1800	34 14 44	118 11 00	U.S.F.S. EMPLOYEES	OAK WILDE - ARROYO SECO
*50B	S	40-10	1155	34 11 48	118 11 03	L.A. CO. FORESTRY EMPLOYEES	2790 FOOTHILL BOULEVARD, FLINTRIDGE
*51	S	65-69	4010	34 18 06	117 50 20	MC CORD	FALLING SPRINGS CAMP (LITTLE CIENEGA) NORTH FORK, SAN GABRIEL CANYON
52B	S	51-44	3000	34 15 32	118 09 14	EDGAR SWANSON	SWITZERS CAMP, ARROYO SECO
*52C	SA	51-53	3290	34 18 04	118 08 37	W. JOHNSTON	WATERMAN GUARD STATION - ARROYO SECO
*53A	SA	62-89	3500	34 18 04	118 06 42	F. FOSTER	COLBY'S, COLDWATER CANYON, BIG TUJUNGA
54	SP A	63-55	4050	34 20 30	118 02 56	MRS. L. G. LOOMIS	NEAR JUNCTION NORTH AND MIDDLE FORKS, ALDER CREEK
*56	S	52-24	3450	34 15 13	118 04 28	GEORGE COMSTOCK	KAMP KOLE (VALLEY FORGE LODGE), WEST FORK OF SAN GABRIEL
57B-E	SP A	52-04	4250	34 15 13	118 05 50	J. G. VAUGHN	WEST FORK SAN GABRIEL RIVER, (CAMP SINGER), (OPID'S), CAMP HI-HILL
58	S	52-67	3225	34 13 15	118 02 19	VICKERY DAUGHERTY	STURTEVANT CAMP, BIG SANTA ANITA CANYON
60A	SA	52-69	2750	34 12 32	118 02 02	IVY HOLZER	CAMP IVY (HOEGEE'S) WINTER CREEK, SANTA ANITA CANYON
62	S	41-80	1950	34 11 28	118 01 05	U.S.F.S. EMPLOYEES	SANTA ANITA CANYON, 1/4 MILE BELOW JUNCTION WITH WINTER CREEK
63B-E	S	41-81	1400	34 11 04	118 01 00	K. A. SHIPLEY	CARETAKER'S HOUSE - SANTA ANITA DAM
*66	S	41-54	665	34 09 29	118 02 36	C. J. PEGLER	415 EAST LIVE OAK AVENUE, SIERRA MADRE
67B	S	41-95	600	34 08 57	118 00 02	A. A. BLAKSLEY	ROOF OF CITY HALL, MONROVIA
*68B	S	42-12	1378	34 10 35	117 59 15	R. E. WADDICOR	SAWPIT DAM
*69	S	42-31	2000	34 11 10	117 57 55	R. E. WADDICOR	UPPER SAWPIT CANYON, 0.5± MILE NORTHEAST OF SAWPIT DAM
70	SA	42-93	800	34 09 48	117 54 17	ROGER DALTON	MOUTH OF SAN GABRIEL CANYON
73	S	43-54	1200	34 09 22	117 50 53	O. H. ENGLEHART	MOUTH OF ENGLEWILDE CANYON, GLENDORA
76B	S	54-57	1500	34 13 33	117 50 48	GEORGE MIDDLETON	SAN GABRIEL DAM #1 CAMP
*82D	S	67-11	7500	34 22 53	117 41 05	F. A. GREELY	TOP OF TABLE MOUNTAIN
*83	SA	67-02	6860	34 22 45	117 41 28	HOWARD ROWE	BIG PINES RECREATION PARK
85D	SP A	56-46	4300	34 14 12	117 39 32	U.S.F.S. EMPLOYEES	U.S.F.S. GUARD STATION, CAMP BALDY
87	S AP	44-33	1500	34 09 56	117 46 02	U.S.F.S. EMPLOYEES	SAN DIMAS CANYON AT WEST FORK
89-E	S	44-24	1350	34 09 05	117 46 28	AL BLEEMERS	SAN DIMAS CANYON BELOW DAM AT CARETAKER'S HOUSE
90	S	44-44	1680	34 09 00	117 45 32	CHARLES S. ELDER	NORTH END OF BRYDON ROAD
91	S	44-87	1405	34 07 17	117 43 11	ROBERT BALCH	2945 INDIAN HILL ROAD, CLAREMONT
*92	SA	32-90	1190	34 05 52	117 42 34	E. B. WESTON	POMONA COLLEGE OBSERVATORY
*93	S	32-80	1165	34 05 47	117 42 59	PAUL GORDON	221 WEST SECOND STREET, CLAREMONT
94	S	31-60	805	34 06 00	117 50 02	WILL G. FIELDS	1331 COVINA BOULEVARD, SAN DIMAS
95	S	43-99	960	34 06 28	117 48 22	L.A. CO. FORESTRY EMPLOYEES	114 EAST FIRST STREET, SAN DIMAS
96-E	S	31-90	1030	34 05 30	117 48 24	F. A. POLLARD	PUDDINGSTONE DAM
98	SP	42-96	602	34 08 02	117 54 14	JOHN HIBSCH	325 FOOTHILL BOULEVARD, AZUSA
99	S	43-06	615	34 08 00	117 53 37	CHARLES STEWART	962 FOOTHILL BOULEVARD, AZUSA
101	S	30-53	358	34 03 51	117 57 00	HURST BROTHERS	SOUTHEAST CORNER MERCED & ORANGE STREETS, WEST COVINA
102B	S	31-29	488	34 00 14	117 52 13	L. A. CO. FORESTRY EMPLOYEES	4009 POMONA BOULEVARD, WALNUT, SOUTH HILLS PATROL STATION
*104	SP	30-09	600	34 00 23	117 59 46	JOHN THOMAS	SOUTH END OF 7TH AVENUE, NORTH WHITTIER HEIGHTS
105	S	16-64	215	33 57 33	118 01 49	PETER E. SHARPLES	1226 LAUREL AVENUE, WHITTIER
106	S	16-61	365	33 58 53	118 02 13	K. R. WARREN	CITY HALL ROOF, WHITTIER
*107B	S	15-65	118	33 56 33	118 08 10	CO. FIRE DEPARTMENT EMPLOYEES	224 WEST SECOND STREET, DOWNEY FIRE STATION
*108B	SA	29-62	301	34 04 27	118 02 08	MARTIN SORENSON	126 SOUTH TYLER AVENUE, EL MONTE FIRE STATION
109C	S	41-27	455	34 07 25	118 03 02	CARL RANDOLPH	538 NAOMI AVENUE, ARCADIA
110	S	28-70	485	34 05 40	118 07 43	J. W. CLAY	NORTHWEST CORNER OF SECOND & MAIN STREETS, CITY HALL, ALHAMBRA
111	SP	40-48	690	34 06 58	118 09 05	NORVAL B. KRUG	NORTHWEST CORNER MOUND & MISSION STREETS, CITY HALL, SOUTH PASADENA
114	S	14-09	64	33 54 07	118 17 29	M. T. KING	SOUTHEAST CORNER VERMONT & ROSECRANS, GARDENA
116B	SA	13-43	125	33 57 45	118 21 40	CITY FIREMEN	111 EAST QUEEN STREET, INGLEWOOD FIRE STATION
117B'	S	8-70	68	33 53 43	118 13 30	CHIEF D. S. WETHERBEE	FIRE STATION, COMPTON
118B	S	3-41	40	33 47 20	118 15 32	E. A. BISHOP	1251 BANNING BOULEVARD, WILMINGTON
119D	S	25-44	355	33 03 25	118 27 17	J. MC CARTHY	NATIONAL MILITARY HOME, SAWTELLE
120	S	74-51	3250	34 29 30	118 07 45	L. A. CO. FORESTRY EMPLOYEES	1533 SIERRA HIGHWAY, VINCENT PATROL STATION
121	S	112-79	2350	31 41 58	118 07 48	E. M. HUFF	UNION HIGH SCHOOL, LANCASTER
122B	S	98-49	3130	34 36 27	118 15 31	JOHN RITTER	SOUTH OF JUNCTION - GOODE HILL ROAD WITH ELIZABETH LAKE ROAD
*124B	SP AP	84-31	3000	34 35 10	118 21 40	R. W. MATHEWS	BOUQUET CANYON RESERVOIR
125	SP	83-40	2100	34 35 20	118 27 10	STATION OPERATOR	POWER PLANT #1, UPPER SAN FRANCISQUITO CANYON
*126	S	12-41	17	33 59 18	118 27 33	A. S. EDE	VENICE CITY YARDS
127	SP	70-71	1507	34 28 55	118 31 40	JIM RAY	DRY CANYON RESERVOIR
*128B	S	95-39	2075	34 36 28	118 33 40	W. A. DUGGER	ELIZABETH LAKE CANYON AT RADIUM HOT SPRINGS
130B	S	106-85	4025	34 44 37	118 42 43	JACK RIMMER	QUAIL LAKE, COUNTY PATROL STATION, SANDBERGS
134	S	44-07	1110	34 07 39	117 47 45	A. L. STEVENS	1/2 MILE NORTH OF FOOTHILL, 0.2 MILES WEST OF SAN DIMAS CN. RD., SAN DIMAS
*135	S	10-30	83	33 53 50	118 03 58	C. J. HARGITT	801 BLOOMFIELD, NORWALK
*136B	S	26-70	317	34 05 28	118 19 30	D. M. TRUE	6225 SANTA MONICA BOULEVARD, HOLLYWOOD
139	SP	27-54	385	34 03 08	118 14 48	J. JONES	SOUTHEAST CORNER SECOND & HILL STREETS, L.A.W.D. ROOF
*140	S	25-55	232	34 02 44	118 26 57	C. A. FETZER	1620 SOUTH PURDUE STREET, WEST LOS ANGELES CITY HALL
143	S	42-96	607	34 08 04	117 54 17	CORNELIUS SMITH	CITY HALL PARK, AZUSA
144	S	41-52	1100	34 10 34	118 02 32	B. F. MOBLEY	NEAR SIERRA MADRE DAM
*150	SA	42-11	1800	34 11 09	117 59 14	R. E. WADDICOR	MONROVIA CANYON FALLS
155B	S	87-79	3035	34 30 18	118 01 40	MARTY BRESLIN	LITTLE ROCK CREEK, 1.5 MILES BELOW DAM
156	SA	10-81	86	33 53 15	118 00 58	STANDARD OIL EMPLOYEES	CENTER STREET AND LEMONT AVENUE, LA MIRADA
*157	SP	12-88	135	33 54 55	118 25 10	LABORATORY EMPLOYEES	STANDARD OIL REFINERY, EL SEGUNDO
158	SP AP	55-49	2750	34 12 20	117 45 40	U.S.F.S. EMPLOYEES	WEST FORK SAN DIMAS CANYON, TANBARK FLATS

TABLE VII

RAIN GAGE STATION LOCATION

SEASON 1947-48

STA. NO.	TYPE GAGE	QUAD INDEX	ELEV. U.S.G.S.	NORTH LAT. ° ' "	WEST LONG. ° ' "	OBSERVER	LOCATION
167	SP	41-64	611	34 09 32	118 02 02	SCOTT M. LEE	89 ORANGE GROVE AVENUE, ARCADIA PUMP PLANT
*169	SP	41-63	700	34 09 49	118 02 23	B. F. MOBLEY	621 SIERRA MADRE AVENUE, SIERRA MADRE PUMP PLANT
170B	S	29-15	297	34 02 34	118 04 54	J. M. MALNERITCH	3651 WALNUT GROVE AVENUE, SAN GABRIEL
171	S	41-35	635	34 08 48	118 04 05	W. E. COMERFORD	75 SOUTH MICHILLINDA AVENUE, LAMANDA PARK
174	SP	43-86	1965	34 07 57	117 49 10	BERT WARREN	OLD FOOTHILL BOULEVARD 2.25 MILES EAST OF GLENDORA
175B	S	50-87	2020	34 13 40	118 12 42	J. M. HICKS	ALTA CANADA AND DEL ORO DRIVE, LA CANADA
176	SP	40-61	1125	34 10 55	118 08 16	D. H. STOTTS	583 SACRAMENTO STREET, ALTADENA
177C	S	51-09	1255	34 12 12	118 11 36	P. L. BRADFORD	4607 COMMONWEALTH AVENUE, LA CANADA
178	A	43-09	545	34 06 24	117 53 58	E. B. GRIFFITH	SOUTH OF BONITA AVENUE, WEST OF CERRITOS AVENUE, AZUSA
*179B	SP A	41-52	1125	34 10 22	118 02 46	PAUL N. CARTER	666 NORTH MOUNT WILSON TRAIL ROAD, SIERRA MADRE
181B	S	29-94	293	34 03 10	118 00 06	R. S. CLIFFORD	VALLEY BOULEVARD AT COVINA BOULEVARD, BASSETT
182B	S	30-41	377	34 05 08	117 57 39	C. P. SPEER	122 PALM AVENUE, BALDWIN PARK
185	S	43-46	822	34 08 23	117 52 33	L. M. WEST	460 EAST BENNETT STREET, GLENDORA
188C	S	44-08	1070	34 07 08	117 47 38	WAYNE E. MORRISON	1001 SAN DIMAS CANYON ROAD, SAN DIMAS
192B	8.81"	15-12	145	34 58 47	118 11 18	J. H. CARROLL	6320 PINE STREET, BELL
193	S	31-21	575	34 04 57	117 52 28	W. B. TEMPLE	748 PUENTE STREET, COVINA
196B	8.81"	44-29	1050	34 06 05	117 46 18	A. F. DOVE	2061 THIRD STREET, LA VERNE POLICE DEPARTMENT
198B	8.81"	39-21	890	34 11 04	118 16 34	FLOOD CONTROL EMPLOYEE	MOUTH OF BRAND CANYON
199B	S	14-81	175	33 59 21	118 13 06	WILL LOUGH	CITY YARD, 2886 SLAUSON AVENUE, HUNTINGTON PARK
*200	S	70-27	1093	34 25 23	118 34 32	A. T. BALDWIN	SO. CALIF. EDISON CO. SUBSTATION, 2.5 MILES WEST OF SAUGUS
201	SA	17-00	860	34 59 40	117 59 30	HARVEY LOWERY	3251 TURNBULL CANYON ROAD, PUENTE
205	SP	30-79	374	34 00 34	117 55 46	SO. CALIF. ED. CO. EMPLOYEES	SO. CALIF. ED. CO. SUBSTATION, VALLEY BLVD., 1.5 MILES EAST OF PUENTE
*206	S	30-94	467	34 03 19	117 54 25	P. R. JACKSON	2024 SOUTH AZUSA AVENUE, VALENCIA HEIGHTS, WEST COVINA
*208	S	10-14	49	33 52 35	118 04 52	ALBERT SHULTZ	BARR LUMBER COMPANY, 1804 PIONEER BOULEVARD, ARTESIA
210B	SA	39-21	1250	34 11 19	118 16 21	FLOOD CONTROL EMPLOYEE	SOUTHWEST SLOPE, 200 FEET ABOVE TANK, BRAND PARK
*213	SA	26-43	177	34 03 48	118 21 19	FLOOD CONTROL EMPLOYEE	HANCOCK PARK, 5801 WILSHIRE BOULEVARD, LOS ANGELES
*215B	S	9-71	73	33 52 56	118 07 29	CO. FIRE DEPT. EMPLOYEES	917 EAST FLOWER STREET, BELLFLOWER FIRE STATION
216	SP	39-43	620	34 09 55	118 15 01	J. E. JONES	318 EAST RANDOLPH STREET, GLENDALE
217	8.81"	14-75	110	33 56 37	118 13 45	J. S. CARVER	2265 EAST 103RD STREETS, WATTS
219	S	48-94	955	34 15 21	118 24 27	L. A. CO. FORESTRY EMPLOYEES	12605 OSBORNE AVENUE, PACOIMA
*221B	S	59-99	1375	34 18 32	118 24 20	RANCH FOREMAN	12500 NORTH MACLAY STREET, PACOIMA
222	SP	38-10	732	34 11 55	118 23 18	STATION OPERATOR	11845 VOSE STREET, NORTH HOLLYWOOD
223B-E	S AP	43-83	1575	34 10 13	117 48 30	PAUL KEISER	CARETAKER'S HOUSE BELOW BIG DALTON DAM
224B	S	4-03	150±	33 46 07	118 11 30	R. A. BIXBY	FIRST STREET, PINE AVENUE, LONG BEACH
*225	S	9-85	47	33 50 35	118 07 09	R. S. NERISON	MONTANA RANCH, 5812 ARBOR ROAD, SOUTHWEST OF ARTESIA
226	8.81"	38-91	665	34 10 55	118 18 24	F. OLCHVARY	125 EAST THIRD STREET, BURBANK FIRE STATION
227B	S	40-99	487	34 06 32	118 06 19	G. B. GLEASON	424 NORTH MILTON AVENUE, SAN GABRIEL
228B	AP	26-02	255	34 04 27	118 23 57	C. VALLE RIESTRA	CITY HALL ROOF, BEVERLY HILLS
230C	SP	44-68	1255	34 00 57	117 44 12	C. F. ELDER	4055 NORTH SAN ANTONIO AVENUE, NEAR THOMPSON CREEK
234	S	31-23	630	34 03 39	117 52 38	BEN F. THORPE	NEAR CAMERON AVENUE & BARRANCA STREET, WEST COVINA
235B	SP A	41-10	2550	34 11 36	118 05 20	L. A. CO. FORESTRY EMPLOYEES	HENNINGER FLATS
236	S	59-88	1455	34 19 12	118 24 59	K. RUST	MOLLIN GROVE (CRAIG RANCH), SAN FERNANDO, NORTH END HUBBARD AVENUE
237A	SP	37-49	725	34 06 25	118 27 13	L.A.W.D. EMPLOYEES	STONE CANYON RESERVOIR
237B	AP	37-49	725	34 06 23	118 27 17	L.A.W.D. EMPLOYEES	STONE CANYON RESERVOIR
238	SP	38-68	750	34 07 04	118 19 55	L.A.W.D. EMPLOYEES	HOLLYWOOD DAM
*240B	S	60-67	1875	34 19 04	118 20 02	J. ODDOUS	5.0 MILES UP LITTLE DALTON CN.FROM OLD FOOTHILL BOULEVARD
241B	S	4-03	68	33 46 12	118 11 35	C. C. BOWERS	VETERANS MEMORIAL BUILDING, LONG BEACH
246B	S	26-18	75	34 01 00	118 23 17	BUS DEPOT EMPLOYEE	CORNER JEFFERSON AND DUQUESNE STREETS, CULVER CITY
*250C	S	74-04	2550	34 27 02	118 11 52	L. M. LUGLAN	SOLEDAD AND ARRASTRE CANYON ROADS, ACTON
251	S	50-57	1565	34 13 28	118 14 24	L. M. DYSON	2908 FOOTHILL BOULEVARD, LA CRESCENTA
254	S	17-50	466	33 59 39	117 56 30	J. IRIATE	ROWLAND RANCH, PUENTE
255A	S	31-55	770	34 02 51	117 50 50	M. P. LOWE	SAN JOSE HILLS NEAR SPADRA, MT. SAN ANTONIO JUNIOR COLLEGE
*256B	S	32-44	882	34 03 26	117 45 04	CHIEF DAN ZANS	FIFTH AND THOMAS STREET, POMONA
257	SA	39-17	750	34 07 12	118 17 11	J. KLADLER	2650 NORTH COMMONWEALTH AVENUE, GRIFFITH PARK NURSERY
258A	S	38-97	1100	34 07 24	118 18 11	LOUIS STRAUSS	WEST OF TUNNEL, POINT OF RIDGE, GRIFFITH PARK
258B	S	39-07	1400	34 07 45	118 17 53	LOUIS STRAUSS	SOUTH SLOPE OF MOUNT HOLLYWOOD, GRIFFITH PARK
258C	S	39-06	1600	34 07 54	118 17 54	LOUIS STRAUSS	NORTH SLOPE OF MOUNT HOLLYWOOD, GRIFFITH PARK
259C	SA	46-92	1254	34 16 41	118 36 12	L. A. CO. FORESTRY EMPLOYEES	21880 MAYON DRIVE, COUNTY FOREST PATROL STATION, TWIN LAKES PARK
261-E	SA	73-30	3075	34 29 51	118 15 56	H. F. MELLEN	ESCONDIDO CANYON, NORTH BRANCH, 5.5 MILES NORTHWEST OF ACTON
263A	S	32-56	778	34 01 54	117 44 26	G. H. GRANT	2211 SOUTH TOWNE AVENUE, POMONA
265C-E	S	17-74	675	33 57 13	117 55 23	P. J. WEISEL JR.	ANAHEIM ROAD, 1 MILE NORTH OF WHITTIER BOULEVARD, PUENTE HILLS
*266	SP	17-06	353	33 56 25	117 59 35	C. A. HEWITT	1234 SANTA GERTRUDES AVENUE, WHITTIER
*269A	S	18-53	710	33 58 09	117 50 40	JOSE RODRIGUEZ	DIAMOND BAR RANCH #1, BREA CANYON ROAD
*269B	SP AP	18-62	760	35 58 42	117 49 53	ANGEL REYES	DIAMOND BAR RANCH, HORSE CAMP
270	S	15-46	104	33 56 17	118 09 22	CLYDE MORROW	COUNTY FARM #1, 12041 OLD RIVER SCHOOL ROAD, HONDO
271	S	8-63	195	33 51 37	118 14 01	J. J. QUIJADA	DOMINGUEZ HILLS, 18800 WILMINGTON BOULEVARD
272	S	38-94	473	34 09 21	118 18 20	O. J. SMITH	WEST OF NORTH ENTRANCE OF GRIFFITH PARK, NEAR LOS ANGELES RIVER
273C	S	2-12	1215	33 46 23	118 22 57	L. RUTH	RADIO ROAD, RADIO STATION W6AM, SAN PEDRO HILLS
274	SP	85-68	3250	34 30 50	118 14 10	MRS. A. S. HUBBARD	MINT CANYON ROAD JUST EAST OF SUMMIT
275	SP 3"	40-87	670	34 07 41	118 06 40	G. L. BROWN	HUNTINGTON ESTATES, SAN MARINO
277	S	108-17	3700	34 43 15	118 35 00	WYN SKELTON	SAWMILL MOUNTAIN RANCH, 8.9 MILES NORTHWEST OF LAKE HUGHES
278B	S	26-86	211	34 02 00	118 18 58	ZACK LIND	CLARK MEMORIAL LIBRARY, 2205 WEST ADAMS, LOS ANGELES
279A	SP	41-11	1325	34 10 50	118 05 04	ROSS M. LOCKHART	KINNELOA RANCH, PASADENA GLEN
280B	SA	40-01	1325	34 10 57	118 11 47	L. A. CO. FIRE DEPT. EMPLOYEES	1028 INVERNESS DRIVE, FLINTRIDGE FIRE STATION
283A	SA	65-67	5740	34 19 35	117 50 14	U.S.F.S. EMPLOYEES	CRYSTAL LAKE - EAST PINE FLAT
284	S	59-22	1480	34 22 38	118 28 42	D. F. POLLOCK	PLACERITA CANYON - GAFFER RANCH
285C	S	25-11	1025	34 05 10	118 28 57	MARTIN BULLINGER	MOUNT ST. MARY'S COLLEGE - SANTA MONICA MOUNTAINS
287	SP	43-36	782	34 08 22	117 51 54	H. C. WARREN	234 NORTH MICHIGAN AVENUE, GLENDORA
289	SP	15-52	140	33 58 38	118 08 45	S. C. EDISON CO. EMPLOYEES	6301 SOUTH GARFIELD AVENUE, BELL
290	S	28-75	375	34 02 45	118 07 43	S. C. EDISON CO. EMPLOYEES	LA MERCED HILLS - GARFIELD AVENUE AT S. C. EDISON CO. SUBSTATION
*291	SA	14-45	121	33 57 00	118 15 25	B. MONTGOMERY	96TH STREET AND CENTRAL AVENUE, LOS ANGELES
*292-E	S	36-85	1000	34 08 57	118 30 55	L. E. SWINNEY	ENCINO RESERVOIR 1 MILE SOUTHWEST OF ENCINO
293	SP	48-11	1150	34 17 18	118 28 54	L.A.W.D. EMPLOYEES	LOWER SAN FERNANDO RESERVOIR
294	SP	41-53	985	34 10 11	118 02 57	B. F. MOBLEY	MIRA MONTE AVENUE PUMP PLANT, SIERRA MADRE
295F	S	39-34	530	34 09 07	118 15 40	MAURICE KENNEDY	415 WEST LEXINGTON AVENUE, GLENDALE
298B	S	105-61	3650	34 47 18	118 49 54	DEWEY RALPHS	NEAR GORMAN
299C	S	88-26	2805	34 32 10	117 58 39	MRS. LENA SCHWAB	85TH STREET E. & AVENUE T 8. LITTLE ROCK
300A	S	36-08	1070	34 07 08	118 35 35	R. L. PELLER	GARRAPATA CANYON & FAILOR CANYON, TOPANGA
303D	SA	40-76	800	34 08 12	118 07 28	PROF. MICHAEL AND STUDENTS	CAL TECH CAMPUS, CORNER OF HILL AND CALIFORNIA, PASADENA
304	S	42-30	2725	34 11 39	117 57 50	R. E. WADDICOR	DEER PARK, 1½ MILES ABOVE SAWPIT DAM
305	S	21-01	1155	34 05 13	118 53 27	R. L. MASON	EAST FORK ARROYO SEQUIT, SOUTH OF MULHOLLAND ROAD
*306	S	21-56	8	34 01 50	118 50 32	TED BOHME	TRANCAS BEACH, 3732 ROOSEVELT HIGHWAY
*307	S	56-73	6500	34 16 05	117 37 35	U.S.F.S. EMPLOYEE	SNOW CREST, SAN ANTONIO CANYON
*308	SP	56-96	8300	34 13 50	117 36 22	H. S. DELKER	KELLY'S KAMP, 1½ MILES NORTHEAST OF ONTARIO PEAK
309	SP	45-05	1768	34 08 36	117 41 51	KENNETH B. FORBES	4064 PADUA AVENUE, PADUA HILLS
311B	SP AP	40-43	918	34 09 48	118 09 28	PASADENA WATER DEPT. EMPLOYEES	1083 MENTONE STREET, PASADENA
312	SP	42-85	675	34 08 51	117 54 55	PLANT OPERATOR	1 MILE NORTHWEST OF AZUSA
321-E	S	96-72	3275	34 40 27	118 25 49	L.A. COUNTY FORESTRY EMPLOYEES	PATROL STATION BETWEEN ELIZABETH AND HUGHES LAKES
322	S	110-48	2600	34 42 50	118 21 15	E. S. MUNZ	LANCASTER - BAILEY ROAD 14 MILES WEST OF LANCASTER
334B-E	S A	53-35	2330	34 14 37	117 57 37	FLOOD CONTROL EMPLOYEE	SAN GABRIEL DAM #2, WEST FORK - SAN GABRIEL CANYON
336-E	SP	39-39	455	34 06 08	118 15 54	RESERVOIR CARETAKER	SILVER LAKE RESERVOIR, LOS ANGELES
338A	S	52-47	5650	34 13 27	118 03 32	J. O. HICKOX	50 FEET SOUTH OF 60" TELESCOPE, MOUNT WILSON
338B	SP A	52-37	5709	34 13 36	118 03 57	O. H. BASORE	1/2 MILE WEST OF 60" TELESCOPE, MOUNT WILSON AIRWAY STATION
339	SP	31-49	533	34 00 13	117 51 11	PACKING HOUSE EMPLOYEE	1/2 MILE SOUTHEAST OF WALNUT, SOUTH SIDE U.P.R.R. TRACKS

TABLE VII

RAIN GAGE STATION LOCATION

SEASON 1947-48

STA. NO.	TYPE GAGE	QUAD INDEX	ELEV. U.S.G.S.	NORTH LAT. ° ' "	WEST LONG. ° ' "	OBSERVER	LOCATION
341	S	74-43	2900	34 27 51	118 09 25	GEORGE J. BLUM	ALISO CANYON - EAST OF ACTON
342	S	45-17	1550	34 07 13	117 40 48	R. C. CADNUM	1544 NORTH BENSON STREET, UPLAND
*343B	SP	16-04	144	33 57 12	118 05 48	F. C. COLLINS	2625 PASSONS BOULEVARD, RIVERA
*347-E	S	30-30	387	34 05 38	117 57 39	VARIOUS	SCOTT PLACE, 1 BLOCK WEST OF MAIN STREET, BALDWIN PARK
*349B	S	54-46	1530	34 14 20	117 51 36	MRS. C. M. SCHMIDT	CAMP RINCON, WEST FORK SAN GABRIEL CANYON
351D	SP	86-81	2648	34 34 51	118 06 52	H. P. SCHOELLER	AVENUE Q 7 BETWEEN EAST 8TH AND EAST 9TH STREETS, PALMDALE
352	SA	21-21	1530	34 04 50	118 52 38	L. A. CO. FORESTRY EMPLOYEES	LECHUZA PATROL STATION, 4 MILES FROM COAST ON DECKER ROAD
353	SP	42-26	458	34 07 58	117 58 43	E. S. HART	DUARTE ROAD AT BUENA VISTA STREET, DUARTE
*354D	S	56-27	4527	34 13 45	117 40 10	MR. HOLTZ	COW CANYON AND SAN ANTONIO CANYONS DIVIDE, 1½ MILES S.W. OF CAMP BALDY
355	S	27-01	335	34 05 21	118 17 34	J. F. BALL	LOS ANGELES CITY COLLEGE, 855 NORTH VERMONT AVENUE, LOS ANGELES
356B	SA	31-95	685	34 02 32	117 48 34	R. S. HUTCHISON	SPADRA STATE HOSPITAL
357	SP AP	59-08	1248	34 18 49	118 29 30	STATION OPERATOR	POWER HOUSE #3, UPPER SAN FERNANDO RESERVOIR
362	SP	40-23	1025	34 09 56	118 10 46	J. D. HOFFMAN	1475 EL MIRADOR DRIVE, PASADENA
364	SP	50-23	2450	34 15 50	118 16 13	FLOOD CONTROL EMPLOYEE	50 FEET EAST OF U.S.G.S. GAGING STATION, HAINES CREEK
367	SP A	50-42	3450	34 16 18	118 15 07	FLOOD CONTROL EMPLOYEE	AT UPPER FORK NEAR HEAD OF HAINES CANYON
372	SP A	82-76	1580	34 32 02	118 31 27	STATION OPERATOR	SAN FRANCISQUITO CANYON POWER HOUSE #2
373	SA	50-76	2310	34 14 16	118 13 42	L. R. BLEITZ	5613 CANYON SIDE DRIVE, BRIGGS TERRACE
375B	S	39-16	650	34 08 02	118 17 18	CHARLES H. ALLEN	GRIFFITH PARK ZOO, LOS ANGELES
*377D	SP	V-CO.	1075	34 09 00	118 53 35	T. E. MOODY	NORTH EDGE OF LAKE SHERWOOD - VENTURA COUNTY
379B	SA	54-96	1600	34 14 10	117 48 18	GEORGE MIDDLETON	EAST FORK, 2.7 MILES ABOVE FORKS, SAN GABRIEL RIVER
380	SA	28-11	553	34 04 54	118 11 02	GEORGE P. MORGAN	4566 BEDILLION STREET, EL SERENO
381B	S	25-08	100	34 01 06	118 29 50	PAUL F. KNIEF	1245 4TH STREET, SANTA MONICA
384B	S	40-26	825	34 06 43	118 12 02	F. B. LAVERTY	502 LAKEVIEW ROAD, PASADENA
*386B	SP 3"	21-71	1500	34 04 58	118 49 38	R. H. OAKLEY	DUME CANYON NORTHWEST OF VERA CANYON
387B	SP	31-01	508	34 05 02	117 53 57	W. A. POOLE	227 SOUTH HOLLENBECK AVENUE, COVINA
388B	S	9-40	71	33 53 30	118 09 33	L. A. CO. FIRE DEPT. EMPLOYEE	13548 SO. PARAMOUNT BOULEVARD, CLEARWATER
389	SP	43-35	825	34 08 49	117 52 04	FRANK H. BROWN	1000 FEET NORTH OF PENNSYLVANIA AND SIERRA MADRE AVENUES, GLENDORA
390B-E	SP	43-21	1210	34 11 12	117 52 43	FRED CHAPMAN	MORRIS DAM, SAN GABRIEL CANYON
391B	S	28-98	205	34 00 40	118 06 17	FIRE DEPARTMENT EMPLOYEES	140 NORTH SIXTH STREET, MONTEBELLO
394	S	40-28	620	34 07 06	118 10 40	MRS. ELISABETH S. STEVENS	6425 ELGIN STREET, HIGHLAND PARK
395	S	59-57	1425	34 19 31	118 26 56	R. N. LOOMIS	OLIVE VIEW SANITARIUM, SAN FERNANDO
402C	S	85-24	6665	34 21 18	117 52 32	H. D. JOHNSON	CEDAR SPRINGS PRISON CAMP, ANGELES CREST HIGHWAY
404	S	39-54	653	34 09 29	118 14 25	JOHN OPID	811 NORTH GLENDALE AVENUE, GLENDALE
405	S	73-06	2250	34 26 15	118 17 38	FRED ECKLES	11.7 MILES EAST OF SOLEMINT ON SOLEDAD CANYON ROAD
406C	S	42-88	505	34 06 53	117 54 58	OLIVER ENGLER	710 WEST BROADWAY, WEST AZUSA
407	S	58-82	1325	34 22 13	118 30 46	BERRIMAN, DISTRICT RANGER	1 MILE SOUTHEAST OF NEWHALL - U.S.F.S. DISTRICT HEADQUARTERS
408	S	71-58	1472	34 24 47	118 25 24	MRS. J. W. MITCHELL	0.4 MILE SOUTH OF SOLEDAD CANYON RD., 1.2 MI. W. OF JUNCTION SAND & SOLEDAD CYNS.
409	S	93-12	1425	34 40 34	118 46 53	APPERSON	18 MILES NORTH OF CASTAIC JUNCTION NEW RIDGE ROUTE
410A	S	81-13	2525	34 34 05	118 41 17	CAROLYN DURNFORD	7½ MILES NORTH OF CASTAIC, WEST SIDE OF HIGHWAY, NEW RIDGE ROUTE
*411B	SP	16-11	170	33 59 20	118 04 58	C. W. ROBINSON	700 SOUTH PASSONS BOULEVARD, RIVERA
415	SA	4-30	125	33 47 49	118 10 03	GEORGE I. OSBORNE	SIGNAL HILL CITY HALL
416	SP	40-40	1170	34 11 28	118 09 28	C. C. CURTIS	2665 LINCOLN AVENUE, ALTADENA
417	S	41-05	742	34 08 56	118 05 42	MR. LEAMAN	150 NORTH VINEDO STREET, LAMANDA PARK
*419	SA	61-92	5450	34 22 26	118 12 20	C. C. BREVIDORO	HEAD OF PACOIMA CANYON ON SANTA CLARA RIDGE, MT. GLEASON
420A	S	74-07	3100	34 25 20	118 11 52	C. C. BREVIDORO	3.3 MILES SOUTH OF ACTON ON MT. GLEASON TRUCK TRAIL
421B	SP	48-91	1178	34 17 03	118 24 28	WARD HINKLE	12559 FILMORE STREET, SAN FERNANDO VALLEY
422B	S	60-35	2200	34 20 50	118 21 53	B. K. WALSH	2½ MILES ABOVE PACOIMA DAM IN PACOIMA CANYON
423	S	75-08	3920	34 24 56	118 04 28	EARL W. SCRIBNER	ALISO CANYON, 1.1 MILES BY ROAD FROM ANGELES FOREST HIGHWAY
425B-E	SA	54-39	1481	34 12 19	117 51 40	FLOOD CONTROL EMPLOYEE	SAN GABRIEL DAM #1, NEAR SPILLWAY
427	S	15-64	127	33 57 28	118 08 12	L. W. JORDAN	7535 EAST FLORENCE AVENUE, DOWNEY
430	S	70-57	1176	34 25 17	118 32 26	MR. SOUTHARD	SAUGUS, AT STATE HIGHWAY MAINTENANCE DEPARTMENT
432	S	52-89	2035	34 12 27	118 01 03	F. W. BERRY	SANTA ANITA CANYON, FERN LODGE
433	SA	51-69	1710	34 12 07	118 07 53	A. L. GOLDENBERG	FARNSWORTH PARK, ALTADENA
434	SA	34-46	800	34 07 57	118 45 08	L. A. CO. FORESTRY EMPLOYEES	MALIBU HEADQUARTERS, 1 MILE SOUTH OF VENTURA BOULEVARD ON CORNELL ROAD
435	SA	23-12	600	34 04 40	118 41 23	L. A. CO. FORESTRY EMPLOYEES	MONTE NIDO PATROL STATION, COLD CREEK NEAR MALIBU CREEK
436B	AP	49-04	1005	34 15 27	118 23 36	U.S.E.D. EMPLOYEES	HANSEN DAM - OFFICE
437	S	4-30	40	33 47 27	118 10 08	J. C. VIDMAR	HAMILTON BOWL, LONG BEACH
440B	S	63-97	5250	34 19 37	118 00 17	ARTHUR H. MILLS	CHILAO, U.S.F.S. CAMP
441-E	S	86-82	2662	34 34 31	118 06 53	JAMES R. NELAN	PALMDALE, COUNTY ROAD DEPARTMENT, MAINTENANCE YARD
442	SP	78-53	3810	34 28 09	117 44 45	E. A. EBERLE	NEAR MESCAL CREEK ON FORT TEJON ROAD, NEAR LLANO
443	S	21-80	1725	34 05 50	118 48 55	W. A. BRANDENBERGER	JUNCTION LATIGO CANYON ROAD AND MULHOLLAND HIGHWAY
*444	SA	2-52	485	33 46 35	118 20 38	L. J. EAMOE	" ROLLING HILLS", PALOS VERDES HILLS
445B	SA	44-56	1510	34 08 02	117 44 38	FLOOD CONTROL EMPLOYEE	LIVE OAK DAM
446	SA	58-48	2367	34 19 00	118 33 27	CLARK MINER	5.5 MILES ABOVE DEVONSHIRE STREET IN ALISO CANYON
447	S	23-65	138	34 02 43	118 38 17	L. A. CO. FORESTRY EMPLOYEES	0.7 MILE FROM COAST IN LAS FLORES CANYON AT COUNTY FORESTRY PATROL STATION
449	8.81"	41-03	915	34 10 08	118 05 28	FLOOD CONTROL EMPLOYEE	EATON DAM, ALTADENA
451B	S	69-83	1066	34 27 52	118 36 57	L. A. CO. FORESTRY EMPLOYEES	PATROL STATION, CASTAIC
452	S	38-05	637	34 08 25	118 23 40	W. N. THAYER	3817 MOUND VIEW AVENUE, STUDIO CITY
453	8.81"	40-21	1094	34 11 07	118 10 30	FLOOD CONTROL EMPLOYEE	DEVIL'S GATE DAM, PASADENA
454	S	26-86	200	34 02 13	118 19 08	W. J. WOOD	2210 3RD AVENUE, LOS ANGELES
455	S	99-61	2395	34 40 57	118 08 03	L. R. POTTER	LANCASTER, STATE HIGH MAINTENANCE DEPARTMENT
*456	S	102-54	2680	34 39 02	117 50 55	B. J. FEURER	GOLDEN MESA DUDE RANCH, 22 MILES EAST, 3 MILES SOUTH OF LANCASTER
457B	S	27-32	400	34 04 17	118 16 04	S. M. HANCOCK	432 NORTH LAKE STREET, LOS ANGELES
458	S	22-08	115	34 01 10	118 47 46	L. A. CO. FORESTRY EMPLOYEES	ROOSEVELT HIGHWAY, EAST OF WALNUT CREEK, ZUMA PATROL STATION
460	S	76-65	4165	34 26 52	117 56 20	L. MATAY	PLEASANT VIEW MESA
461	SA	26-29	392	34 00 08	118 22 32	STANDARD OIL EMPLOYEES	1 MILE NORTH OF SLAUSON AVENUE, 1-1/8 MILE SOUTHEAST OF BALLONA CREEK
462	S	25-94	196	34 03 05	118 24 06	WILLIAM STEWART	HILLCREST COUNTRY CLUB, 10,000 PICO BOULEVARD, LOS ANGELES
*463	S	25-78	92	34 00 49	118 25 32	LEO MINNICK	11637 CHARNOCK ROAD, SOUTHERN CALIFORNIA WATER COMPANY, MAR VISTA
464	S	51-40	3300	34 17 59	118 09 35	W. J. PHILLIPS	COUNTY DETENTION CAMP #5, ANGELES FOREST HIGHWAY
465B	AP	37-33	675	34 09 48	118 27 59	U.S.E.D. EMPLOYEES	SEPULVEDA DAM
466B	SA	60-54	3225	34 21 07	118 20 38	FLOOD CONTROL EMPLOYEE	PACOIMA CANYON, DUTCH LOUIE CANYON
468-E	8.81" & S	50-77	1600	34 13 15	118 13 45	FLOOD CONTROL EMPLOYEE	PICKENS DEBRIS BASIN
470	SP AP	63-10	4600	34 23 19	118 05 26	FLOOD CONTROL EMPLOYEES	NEAR TIE CANYON DIVIDE, MILL CREEK, TUJUNGA
471	AP	60-98	2750	34 18 57	118 18 02	FLOOD CONTROL EMPLOYEES	GOLD CREEK TRUCK TRAIL, 1.2 MILES ABOVE WATTS RANCH, GOLD CR. LITTLE TUJUNGA
473	S	72-64	2050	34 27 24	118 19 59	H. A. BLACKWELL	AQUA DULCE CANYON
474	SP	14-94	127	33 57 35	118 12 32	CHIEF J. C. GUTTING	8437 VICTORIA AVENUE, POLICE DEPARTMENT, SOUTH GATE
475	SP	70-48	1134	34 25 04	118 33 23	H. METCHER	NEWHALL LAND AND FARMING COMPANY OFFICE, SAUGUS
476B	S	34-06	828	34 07 27	118 47 43	H. J. RUESS	RUESS RANCH, 1/2 MILE ABOVE LOBO CANYON IN TRIUNFO CANYON
477B	SA	53-18	4615	34 13 06	117 58 39	FLOOD CONTROL EMPLOYEE	SPRING CAMP AT HEAD OF EAST FORK - SANTA ANITA CREEK
478	SP	77-45	3715	34 26 44	117 51 02	U. S. FOREST RANGER	U.S.F.S. HEADQUARTERS, PEAR BLOSSOM HIGHWAY, VALYERMO
479	8.81"	41-78	367	34 06 50	118 01 32	R. H. GONTER	138 EAST LONGDEN AVENUE, ARCADIA
*482	S	27-17	404	34 01 15	118 17 17	R. M. FOX	920 WEST 36TH PLACE, LOS ANGELES, CIVIL ENGINEERING BLDG., U.S.C.
485	S	30-90	522	34 05 48	117 54 04	G. W. BURCH	743 WEST CYPRESS AVENUE, COVINA
486	SA	55-83	3865	34 15 49	117 42 38	J. W. WIDMAN	COLDWATER CANYON, 3.5 MILES ABOVE JUNCTION WITH CATTLE CANYON
487B	S	23-06	15	34 02 02	118 41 30	L. H. SAUTER	23728 ROOSEVELT HIGHWAY
*488	8.81"	49-20	1450	34 17 47	118 22 29	L. A. CO. FORESTRY EMPLOYEE	DEXTER PARK, KAGEL CANYON PATROL STATION
489	S	23-40	1318	34 05 39	118 39 23	J. H. STUNT	IN COLD CREEK CANYON, 3.2 MILES ABOVE MONTE NIDO PATROL STATION
490	S	101-42	2472	34 40 46	117 57 06	FLETCHER WILEY	¼ MI. N. OF TIERRA BONITA (AVE. K) ON W. SIDE OF 100TH ST. NEAR LANCASTER
491	S	24-75	313	34 02 47	118 31 28	OVERTON D. PETTIT	15224 SUNSET BOULEVARD, PACIFIC PALISADES
492	SA	63-98	5275	34 19 05	118 00 30	G. H. CUTTRISS	STATE HIGHWAY MAINTENANCE STATION NEAR CHILAO
493	SA	59-81	1780	34 23 15	118 24 42	A. R. WHITMEYER	2.7 MILES SOUTH OF SOLEDAD CANYON ROAD, 1/8 MI. WEST OF SAND CANYON ROAD
*494	S	29-19	181	34 00 13	118 05 08	IRA D. CATE	145 COLUMBIA AVENUE, PICO
495	SA	27-54	335	34 03 55	118 15 38	FLOOD CONTROL EMPLOYEES	751 SOUTH FIGUEROA STREET, LOS ANGELES
*497	SP 8.81"	44-67	1350	34 07 35	117 43 58	F. E. SLAUGHTER	4652 GLEN WAY, CLAREMONT
498	S	51-04	2800	34 15 30	118 11 45	FLOOD CONTROL EMPLOYEES	ANGELES CREST HIGHWAY AT DARK CANYON TRAIL
508B	S	51-39	1220	34 12 32	118 10 10	U. S. FOREST RANGER	ARROYO SECO CANYON AT EL PRIETO CANYON, U.S.F.S.
517	SA	77-18	4700	34 25 00	117 53 10	MRS. B. M. ANDERSEN	PALLETT CREEK, ANDERSEN RANCH (BURKHART RANCH)

TABLE VII

RAIN GAGE STATION LOCATION

SEASON 1947-48

STA. NO.	TYPE GAGE	QUAD INDEX	ELEV. U.S.G.S.	NORTH LAT. ° ' "	WEST LONG. ° ' "	OBSERVER	LOCATION
529	SP 3" S	S.B. CO.	720	34 00 35	117 41 14	HARRY ROBINSON	CENTRAL AND CHINO AVENUE, CHINO
530	SP	V-CO.	650	34 10 55	118 53 15	J. E. TRAYLOR	CONEJO RANCH, VENTURA COUNTY
534	SP 3"	V-CO.	530	34 24 03	118 54 09	RICHARD STEPHENS	FILLMORE, VENTURA COUNTY
542	SP	109-79	3050	34 42 15	118 25 40	L.A.W.D. EMPLOYEES	LOS ANGELES AQUEOUCT RESERVOIR, FAIRMONT
551	SP	V-CO.	10	34 08 38	119 12 38	U.S. LIGHTHOUSE SERVICE EMPL.	PORT HUENEME LIGHTHOUSE, VENTURA COUNTY
557	SP 3"	O-CO.	300	33 55 44	117 56 48	MR. BRAY	LA HABRA, CITRUS ASSOCIATION, 305 SOUTH HIATT STREET
565	AP	4-01	13	33 47 15	118 11 46	LONG BEACH CITY EMPLOYEES	16TH AND CHESTNUT AVENUE, LONG BEACH
566	SP	4-52	15	33 46 46	118 08 36	LONG BEACH CITY EMPLOYEES	10TH AND ROSWELL STREETS, LONG BEACH
571B	SP	4-53	15	33 45 41	118 08 30	LONG BEACH CITY EMPLOYEES	1ST AND PROSPECT STREETS, LONG BEACH
575B	SP	4-13	25	33 46 00	118 11 16	R. O. BALDWIN	ON ROOF OF CHAMBER OF COMMERCE BLDG., S.W. COR. ELM & OCEAN AVE. S. LONG BEACH
577E	AP	27-55	417	34 02 43	118 14 59	U.S.W.B. EMPLOYEES	CENTRAL BUILDING, 6TH AND MAIN STREETS, LOS ANGELES
577F	AP	27-54	548	34 03 19	118 14 26	U.S.W.B. EMPLOYEES	FEDERAL BUILDING, NORTH SPRING STREET, LOS ANGELES
587	SP	45-22	2500	34 10 22	117 40 40	SO. CALIF. EDISON CO. EMPL.	SOUTHERN CALIFORNIA EDISON COMPANY POWER HOUSE #1, MOUTH SAN ANTONIO CANYON
588B	S	51-87	4450	34 13 35	118 06 40	J. W. WURMSER	MOUNT LOWE IN GRAND CANYON
593B	SP	68-69	675	34 24 05	118 44 10	MR. MC GILL	NEWHALL RANCH, 3.1 MILES WEST OF LOS ANGELES - VENTURA COUNTY LINE
*594B	S	58-61	1241	34 22 58	118 32 02	A. B. THATCHER	1300 NEWHALL AVENUE, NEWHALL
598	SP	107-91	3000	34 47 00	118 36 30	U.S.W.B.	NEENACH, NEAR WEST END ON LANCASTER - BAILEY ROAD
610A	SP	40-73	980	34 10 04	118 07 21	MORRIS JONES	1250 NORTH HOLLISTON STREET, PASADENA
610B	SP	40-55	864	34 08 55	118 08 36	H. J. SIEVERT	CITY HALL, PASADENA
*611B	S	40-92	1052	34 10 34	118 06 23	W. ALLEN	1751 NORTH PEPPER DRIVE, ALTADENA
612	SP	51-39	1181	34 12 27	118 10 00	H. J. SIEVERT	CHLORINE PLANT, NEAR MOUTH ARROYO SECO CANYON
613B	SP	40-46	780	34 07 48	118 09 15	H. H. BURGESS	900 SOUTH PASADENA AVENUE, PASADENA
617	SP	32-23	870	34 04 03	117 46 23	J. E. ADAMSON	987 NORTH WEBER STREET, POMONA
618	SP 3"	V-CO.	980	34 16 43	118 43 18	J. M. FULLER	1 MILE WEST OF SANTA SUSANA, WOLFF RANCH, VENTURA COUNTY
619	SP	56-38	3200	34 12 50	117 40 10	SO. CALIF. EDISON CO. EMPL.	SIERRA POWER HOUSE, SAN ANTONIO CN, 5 MI. ABOVE 21ST STREET, UPLAND
627	SP	42-94	750	34 09 20	117 54 28	D. C. RUDDELL	MOUTH OF SAN GABRIEL CANYON
629C	SP	3-27	40	33 43 15	118 16 17	U.S.W.B.	WAREHOUSE #1, LOS ANGELES OUTER HARBOR
*634B	SP	25-08	88	34 00 40	118 29 28	MR. KOLESOFF	CITY HALL, SANTA MONICA
644	SP 3"	V-CO.	300	34 15 40	118 59 48	E. A. SNYDER JR.	SNYDER RANCH - SOMIS
647G	SP	50-03	1750	34 15 00	118 17 00	F. P. STEVENS	10600 MOUNTAIN AVENUE, TUJUNGA
650B	SP	45-25	1850	34 08 20	117 40 25	MR. BAIRD	1455 WEST 21ST STREET, UPLAND
660	SP	V-CO	49	34 11 26	119 10 27	U.S.W.B. EMPLOYEES	OXNARD, VENTURA COUNTY
662	SP	9-27	71	33 49 28	118 10 14	CITY OF LONG BEACH EMPLOYEES	37TH AND GAVIOTO STREET, LONG BEACH
666	SP	9-23	50	33 51 37	118 10 43	CITY OF LONG BEACH EMPLOYEES	SOUTH AND LEMON STREETS, LONG BEACH
671B	SP	27-94	325	34 03 16	118 12 13	SO. CALIF. EDISON CO. EMPL.	1006 NORTH BREED STREET, LOS ANGELES, S.C.E. CO. SUBSTATION
672	SP	40-14	1000	34 09 00	118 10 58	SO. CALIF. EDISON CO. EMPL.	7888 NORTH FIGUEROA STREET, EAGLE ROCK, S.C.E. CO. SUBSTATION
673	SP	4-85	15	33 44 42	118 06 43	STATION OPERATOR	SEAL BEACH, LOS ANGELES POWER PLANT, SAN GABRIEL RIVER AT OCEAN
676	SP 4½	13-93	173	33 58 01	118 18 24	H. F. PARKINSON	1727 WEST 80TH STREET, LOS ANGELES
*677C	SP	40-22	983	34 10 19	118 10 41	C. V. HOFFNER	1408 ONTARIO AVENUE, PASADENA
679	SP	40-32	1047	34 10 40	118 09 57	H. J. SIEVERT	SHELDON RESERVOIR, PASADENA
679	SP	30-27	310	34 01 15	117 58 37	H. I. MORRIS	533 9TH AVENUE, PUENTE, NORTH WHITTIER HEIGHTS CITRUS ASSOCIATION
680	SP	25-52	425	34 04 17	118 26 27	U.C.L.A. STUDENTS	U.C.L.A. CAMPUS, WESTWOOD
681A	SP	41-62	1052	34 10 20	118 01 54	U.S. FOREST EMPLOYEES	NORTH END SANTA ANITA AVENUE, ARCADIA
683	SP AP	51-58	2110	34 12 53	118 08 48	U.S.F.S. EMPLOYEES	SUNSET GUARD STATION BETWEEN MILLARD AND WEST RAVINE CANYONS
684	SP	41-65	518	34 08 47	118 01 58	U.S.F.S. EMPLOYEES	ARCADIA WAREHOUSE, U.S.F.S.
689B	SP 6"	40-68	608	34 06 59	118 08 03	CARL V. COOPER	2814 CARLARIS ROAD, SAN MARINO
691	8.81"	45-14	2090	34 09 20	117 40 55	R. L. THOMPSON	SAN ANTONIO SPREADING GROUNDS
694B	SP	50-10	1500	34 17 25	118 17 17	U.S.F.S. EMPLOYEES	2.6 MILES FROM FOOTHILL BLVD. AT TUJUNGA CANYON GUARD STATION
695	SP	50-60	1850	34 17 22	118 13 38	E. G. ULRICH	TUJUNGA CANYON 7 MILES ABOVE FOOTHILL BOULEVARD
696	SP	41-21	1400	34 10 54	118 04 42	ROBERT CASAMAJOR	PASADENA GLEN
703	SP	39-54	603	34 09 02	118 14 29	P. T. MC INTYRE	3515 NORTH ADAMS, GLENDALE
705	SP	60-87	2330	34 19 48	118 19 03	J. M. SHIFFER	CECIL B. DE MILLE RANCH, ALDER CREEK, LITTLE TUJUNGA CANYON
*706	SP	15-92	155	33 58 42	118 06 08	W. H. WILLIAMS	HADLEY RANCH, RIVERA
715	SP	27-64	280	34 03 00	118 14 00	U.S.W.B. EMPLOYEES	POST OFFICE TERMINAL BUILDING, LOS ANGELES
716	SP	27-64	295	34 03 10	118 14 13	P. MC INTYRE	410 DUCOMMUN STREET, LOS ANGELES
*718	SP	V-CO.	870	34 10 16	118 50 35	R. ROPER	THOUSAND OAKS, VENTURA COUNTY
719	S	42-54	785	34 09 01	117 56 47	G. L. NORTON	MADDOCKS RANCH, DUARTE
720	SP	V-CO.	1200	34 15 36	118 39 36	J. E. SMITH	EAST END SIMI VALLEY, VENTURA COUNTY
*722B	S	98-67	2740	34 37 46	118 13 51	A. E. STRATMAN	DEL SUR - AVE. N AND AVE. 60 W.
723	SP AP	37-46	835	34 08 23	118 27 33	L.A. CITY WATER DEPT. EMPL.	STONE CANYON SOUTH OF SHERMAN OAKS
724	SP AP	43-92	1775	34 10 37	117 48 29	U.S.F.S. EMPLOYEES	NEAR MOUTH OF MONROE CANYON, ABOVE BIG DALTON DAM
725	SP	36-90	722	34 11 17	118 30 20	U.S.E.D. EMPLOYEES	BIRMINGHAM HOSPITAL, NEAR VAN OWEN AND BALBOA
726	S AP	51-16	2300	34 14 00	118 10 30	FLOOD CONTROL EMPLOYEE	ANGELES CREST GUARD STATION AT FALLS CANYON, ARROYO SECO
727	SP	52-76	4160	34 14 00	118 01 40	U.S.F.S. EMPLOYEE	NEWCOMB PASS
728	SP	60-93	3000	34 21 40	118 18 28	U.S.F.S. EMPLOYEE	PACOIMA CANYON BETWEEN NEEL AND GOOSEBERRY CANYON
729	SP	61-10	4464	34 23 40	118 17 00	U.S.F.S. EMPLOYEE	SANTA CLARA DIVIDE AT JUNCTION OF INDIAN CANYON & SANTA CLARA TRACK TRAILS
730	SP	51-67	2800	34 13 30	118 07 50	U.S.F.S. EMPLOYEE	NEAR DOWN MINE, MILLARD CANYON, ARROYO SECO
731	SP	40-20	1100	34 11 50	118 10 10	U.S.F.S. EMPLOYEE	OAK GROVE PARK, PASADENA
732	S	53-77	4150	34 13 30	117 55 15	FLOOD CONTROL EMPLOYEE	ON DIVIDE BETWEEN ROGERS CANYON & W. FK. SAN GAB. AT TOOL CABIN NR. PINE MT.
733	S	51-94	5300	34 15 12	118 06 21	U.S.F.S. EMPLOYEE	1 MI. FROM RED BOX ON MT. DISAPPOINTMENT TRUCK TRAIL IN CLOUD BURST CANYON
734	SP	13-16	102	33 56 04	118 23 05	U.S.W.B. EMPLOYEE	MINES FIELD, 5901 W. IMPERIAL HIGHWAY, LOS ANGELES
735	AP	35-40	915	34 11 42	118 29 27	U.S.E.D. EMPLOYEE	PLATT RANCH, NEAR BELL CANYON
737	SP	V-CO.	4000	34 35 07	119 19 02	FRANK FELT	WHEELER SPRINGS, VENTURA COUNTY
739	SP	V-CO.	335	34 20 00	119 08 00	PACKING HOUSE SUPERINTENDENT	SANTA PAULA, VENTURA COUNTY
740B	AP	45-00	5200	34 12 00	117 41 45	U.S.F.S. EMPLOYEES	SAN DIMAS CANYON, FERN CANYON #2
741	AP	44-60	2750	34 11 45	117 44 28	U.S.F.S. EMPLOYEES	SAN DIMAS CANYON, UPPER EAST FORK
742B	SP	29-00	430	34 05 44	118 05 57	FIRE DEPARTMENT PERSONNEL	DEL MAR NEAR MISSION STREET, SAN GABRIEL
746	SP	K-CO.	2620	35 03 00	118 10 00	MR. BACKUS	7 MILES SOUTH OF MOHAVE, BACKUS RANCH
747	SP AP	106-75	4517	34 44 37	118 43 29	U.S.W.B. EMPLOYEES	SANDBERG AIRWAYS - TOP OF BALL MOUNTAIN
748	SP AP	58-50	1206	34 23 58	118 32 49	U.S.W.B. EMPLOYEES	NEWHALL AIRPORT
749	SP AP	38-50	699	34 12 00	118 20 56	U.S.W.B. EMPLOYEES	BURBANK AIRPORT
750	SP AP	100-18	2536	34 36 59	118 05 02	U.S.W.B. EMPLOYEES	PALMDALE AIRPORT
751	SP	7-86	80	33 50 00	118 18 58	FIRE DEPARTMENT PERSONNEL	TORRANCE FIRE DEPARTMENT
752	SP	41-95	503	34 08 49	118 00 17	J. E. GEARY	428 W. LEMON AVE., MONROVIA
754	S	58-33	1340	34 22 07	118 33 52	A. W. LYONS	BETWEEN FORKS IN LYONS CN., 0.3 MILES WEST OF HIGHWAY 99, NEAR NEWHALL
755	AP	39-17	900	34 07 34	118 17 03	L.A. CITY EMPLOYEES	GRIFFITH PARK, LITTLE CANYON
756	AP	39-06	1200	34 07 51	118 17 50	L.A. CITY EMPLOYEES	GRIFFITH PARK, UPPER SPRING CANYON
757	AP	38-97	800	34 07 16	118 18 22	L.A. CITY EMPLOYEES	GRIFFITH PARK, FERN DELL
758	AP	39-06	625	38 08 02	118 17 27	L.A. CITY EMPLOYEES	GRIFFITH PARK, LOWER SPRING CANYON
759	AP	38-49	422	34 06 10	118 21 23	L.A. CITY EMPLOYEES	1736 COURTNEY AVENUE, HOLLYWOOD
760	AP	37-95	680	34 08 29	118 24 26	L.A. CITY EMPLOYEES	3913 GOODLAND AVENUE, STUDIO CITY
761	SP	37-46	1190	34 08 02	118 27 32	L.A. CITY EMPLOYEES	STONE CANYON, VALLEY SIDE
762	AP	37-47	925	34 07 28	118 27 17	L.A. CITY EMPLOYEES	UPPER STONE CANYON
763	SP	37-38	1300	34 06 58	118 27 45	L.A. CITY EMPLOYEES	STONE CANYON - FIRE ROAD #18
764	SP	37-59	890	34 06 34	118 27 01	L.A. CITY EMPLOYEES	STONE CANYON - 2302 RAIL LANE
765	SP	37-06	1350	34 07 52	118 29 27	L.A. CITY EMPLOYEES	SEPULVEDA AND MULHOLLAND BOULEVARDS
766	AP	36-97	1625	34 07 38	118 30 03	L.A. CITY EMPLOYEES	MANDEVILLE CANYON, FIRE ROAD #26
767	SP	36-98	1225	34 07 12	118 30 12	L.A. CITY EMPLOYEES	#3351 MANDEVILLE CANYON ROAD
768	SP	36-87	1465	34 07 19	118 30 52	L.A. CITY EMPLOYEES	SULLIVAN CANYON - FIRE ROAD #26
769	AP	36-49	1980	34 06 32	118 33 31	L.A. CITY EMPLOYEES	SANTA YNEZ CANYON, TEMESCAL FIRE ROAD #30
770	AP	24-44	700	34 03 34	118 33 25	L.A. CITY EMPLOYEES	SANTA YNEZ CANYON - PASEO MIRAMAR
771	AP	24-94	265	34 03 06	118 30 32	L.A. CITY EMPLOYEES	RUSTIC CANYON
772	AP	27-41	475	34 05 00	118 15 11	L.A. CITY EMPLOYEES	ECHO PARK AND LUCRETIA, LOS ANGELES
773	AP	27-52	575	34 04 36	118 14 36	L.A. CITY EMPLOYEES	BOYSON HILL, LOS ANGELES
774	AP	27-52	423	34 04 28	118 14 48	L.A. CITY EMPLOYEES	BARLOW SANITARIUM, LOS ANGELES

TABLE VII

RAIN GAGE STATION LOCATION

SEASON 1947-48

STA. NO.	TYPE GAGE	QUAD INDEX	ELEV. U.S.G.S.	NORTH LAT. ° ' "	WEST LONG. ° ' "	OBSERVER	LOCATION
775	AP	27-55	249	34 02 23	118 14 46	L.A. CITY EMPLOYEES	8TH AND CROCKER, LOS ANGELES
776	SP	38-37	1025	34 07 18	118 21 46	L.A. CITY EMPLOYEES	NICHOLS CANYON NEAR MULHOLLAND HIGHWAY
777	SP	25-13	405	34 03 43	118 28 50	L.A. CITY EMPLOYEES	KENTER CANYON, WESTGATE HEIGHTS
778	SP	25-21	550	34 04 48	118 28 13	L.A. CITY EMPLOYEES	11805 BELLAGIO ROAD, SEPULVEDA CANYON
779	AP	39-05	625	34 08 50	118 17 50	L.A. CITY EMPLOYEES	GRIFFITH PARK, NORTH CANYON
780	AP	38-95	1025	34 08 33	118 18 08	L.A. CITY EMPLOYEES	GRIFFITH PARK, NORTH CANYON
781	SP	13-71	158	33 59 09	118 19 38	L.A. CITY EMPLOYEES	3200 - 59TH PLACE, LOS ANGELES
782	SP	41-25	697	34 08 58	118 04 44	W. C. BOLAND	CHAPMAN RESERVOIR, PASADENA
790	S	V-CO.	470	34 23 09	118 55 01	FILLMORE CIT. ASSOC. EMPLOYEES	FILLMORE CITRUS ASSOCIATION, V. CO. #129
791	S	V-CO.	150	34 16 09	119 08 08	CULBERTSON LEMON ASSOC. EMPL.	SATICOY, CULBERTSON LEMON ASSOCIATION, V. CO. #132
792	S	V-CO.	290	34 21 02	119 03 08	CO. AGRICULTURE OFFICE EMPL.	SANTA PAULA, COUNTY AGRICULTURE OFFICE, V. CO. #19
1000	S	87-38	3263	34 30 48	118 03 37	L. A. BONES	HUNT CANYON 1.0 MILE SOUTH OF FORT TEJON ROAD
1001	S	52-55	3070	34 14 40	118 03 00	U.S.F.S. EMPLOYEE	WEST FORK GUARD STATION, SAN GABRIEL CANYON
1002	S	50-03	1605	34 16 03	118 17 50	NORMAN TANGUAY	7618 LE BERTHON STREET, TUJUNGA
1004	S	23-02	470	34 04 47	118 41 57	RALPH ZIELKE	AT JUNCTION OF MALIBU CREEK AND COLD CREEK
1005	S	84-48	2350	34 30 47	118 21 31	R. E. TAGGART	MINT CANYON AND SPADE SPRING CANYON NEAR THE OAKS
1006	SA	3-05	150	33 44 37	118 17 47	SAN PEDRO CITY EMPLOYEES	FIRST AND MEYLER STREET, SAN PEDRO
*1007	S	64-25	5900	34 20 40	117 58 41	CLAUDE R. GRAFF	CAMP VALCREST, ANGELES CREST HIGHWAY, N.E. OF CHILAO
1008	SA	7-63	65	33 52 07	118 19 55	STATION OPERATORS	17680 YUKON AVENUE, S.C.E. CO. SUBSTATION, GARDENA
1009	S	71-86	1625	34 26 04	118 26 06	JAMES W. DYER	MINT CANYON, 1.7 MILES ABOVE SOLEDAD CANYON ROAD
*1010	SA	44-93	2175	34 09 39	117 42 07	W. F. NUFER	PALMER CANYON
1011	S	2-54	1275	32 45 28	118 20 57	ROLAND SWAFFIELD	SAN PEDRO HILLS, CREST ROAD AND PORTUGUESE BEND ROAD
*1012	S	69-96	1001	34 26 23	118 36 20	E. STECKI	CASTAIC JUNCTION
1013	SA	61-39	1650	34 18 00	118 16 06	FLOOD CONTROL EMPLOYEE	TUJUNGA CANYON ABOVE GOLD CANYON
1014	SA	15-90	159	33 59 26	118 06 34	FLOOD CONTROL EMPLOYEE	760 WEST WASHINGTON BOULEVARD, PICO
1015	S	40-92	962	34 10 22	118 06 03	B. FRISBEE	1530 HARDING AVENUE, ALTADENA
1016	S	34-63	1000	34 09 43	118 44 09	S. W. SWANSON	PALO COMADO CANYON, 1.7 MI. N. OF VENTURA BLVD., AGOURA
1017	SA	75-83	3330	34 27 51	118 01 09	FLOOD CONTROL EMPLOYEE	LITTLE ROCK CREEK ABOVE SANTIAGO CREEK
1018	S	57-96	3515	34 20 19	118 36 34	FLOOD CONTROL EMPLOYEE	SANTA SUSANA MTS., TOWSLEY CANYON AND DEVIL'S CANYON DIVIDE
1019	S	57-34	2850	34 21 26	118 39 42	FLOOD CONTROL EMPLOYEE	SANTA SUSANA MTS., MOTOR WAY AT SALT CANYON
X-3A	S	24-82	580	34 04 40	118 31 03	F. CHAPPELLET	2100 RUSTIC CANYON ROAD, RUSTIC CANYON
X-6	SA	36-86	1240	34 08 15	118 30 57	L. E. SWINNEY	.4 MILES SOUTH OF ENCINO RESERVOIR

LEGEND REGARDING GAGE TYPE AND OWNERSHIP

S - - - - - - STANDARD 8" GAGE UNLESS FOLLOWED BY NUMBER SHOWING DIAMETER, OWNED BY FLOOD CONTROL DISTRICT.
A - - - - - - FLOOD CONTROL DISTRICT AUTOMATIC GAGE.
SP - - - - - PRIVATE GAGE OF STANDARD TYPE 8" DIAMETER.
SP 6" - - - - PRIVATE GAGE OF STANDARD TYPE 6" DIAMETER.
SP 4¾" - - - PRIVATE GAGE OF STANDARD TYPE 4¾" DIAMETER.
SP 3" - - - PRIVATE GAGE OF STANDARD TYPE 3" DIAMETER.
8.8!" - - - USES GLASS GRADUATE WITH SPECIAL HENSON TYPE COLLECTOR RING. (8.81" DIAMETER)
AP - - - - PRIVATE AUTOMATIC GAGE.
-E - - - - INDICATES EVAPORATION PAN AT STATION.
* - - - - - INDICATES DEVIATION FROM 1947-48 TABLE AS SHOWN IN 1948-49 TABLE.

QUAD INDEX NUMBERS

THE "QUAD" INDEX NUMBERS ASSIGNED TO PRECIPITATION STATIONS SERVE AS A LOCATION GUIDE. THE PORTION OF THE INDEX NUMBER PRECEDING THE HYPYEN INDICATES THE NUMBER OF THE "SIX MINUTE" OR 1:24000 SCALE TOPOGRAPHIC QUADRANGLE AS PUBLISHED BY THE UNITED STATES GEOLOGICAL SURVEY. THESE "QUADS" HAVE BEEN NUMBERED FROM LEFT TO RIGHT BEGINNING WITH THE MOST SOUTH WESTERLY AND ENDING WITH THE MOST NORTH EASTERLY "QUAD" IN LOS ANGELES COUNTY. THE TWO DIGITS FOLLOWING THE HYPHEN INDICATE THE HORIZONTAL AND VERTICAL COORDINATES RESPECTIVELY OF EACH "QUAD". THE "QUADS" HAVE BEEN DIVIDED INTO TEN EQUAL DIVISIONS BOTH HORIZONTALLY AND VERTICALLY NUMBERED FROM 0 TO 9 READING FROM LEFT TO RIGHT AND TOP TO BOTTOM RESPECTIVELY.

TABLE VII

RAIN GAGE STATION LOCATION

SEASON 1948-49

STA. NO.	TYPE GAGE	QUAD INDEX	ELEV. U.S.G.S.	NORTH LAT. ° ' "	WEST LONG. ° ' "	OBSERVER	LOCATION
10	SA	25-51	540	34 05 11	118 26 45	ERNEST JOHNSON	701 STONE CANYON ROAD, WEST LOS ANGELES
18C	S	36-63	785	34 10 07	118 32 07	F. M. WINKLE	18448 VENTURA BOULEVARD, RESEDA
20B	S	35-94	986	34 09 07	118 36 36	L.A.W.D. EMPLOYEES	GIRARD RESERVOIR
27B	S	48-64	939	34 15 23	118 26 09	GLEN C. RADDATZ	14333 VAN NUYS BOULEVARD, PACOIMA
28C	P	48-22	950	34 16 17	118 28 13	R. C. SMITH	15530 MISSION BOULEVARD, SAN FERNANDO
43B	SP	2-20	450	33 47 47	118 22 12	JACK CAGLEY	GOLF CLUB PALOS VERDES ESTATES
50B	S	40-10	1155	34 11 48	118 11 03	L.A. CO. FORESTRY EMPLOYEES	352 FOOTHILL BOULEVARD, FLINTRIDGE
51	S	65-69	4010	34 18 06	117 50 20	EULA MOUNTAIN	FALLING SPRINGS CAMP (LITTLE CIENEGA) N. FORK, SAN GAB. CANYON
52C	SA	51-53	3290	34 18 04	118 08 37	ED BURNS	WATERMAN GUARD STATION, ARROYO SECO
53A	SA	62-89	3500	34 18 04	118 06 42	FRANCIS R. LA POINT	COLBY'S, COLDWATER CANYON, BIG TUJUNGA
56	S	52-24	3450	34 15 13	118 04 26	G. A. MOHRENSTRECHER	KAMP KOLE (VALLEY FORGE LODGE)
66	S	41-54	665	34 09 29	118 02 36	RICHARD E. LAWYER	415 EAST LIVE OAK AVENUE, SIERRA MADRE
68B	S	42-12	1378	34 10 35	117 59 15	F. D. KELLY	SAWPIT DAM
69	S	42-31	2000	34 11 10	117 57 55	F. D. KELLY	UPPER SAWPIT CANYON, 0.5± MILE NORTHEAST OF SAWPIT DAM
82D	S	67-11	7500	34 22 53	117 41 05	M. G. UTTER	TOP OF TABLE MOUNTAIN
83-E	SA	67-12	6860	34 22 45	117 41 28	HOWARD ROWE	BIG PINES RECREATION PARK
92	SA	32-90	1190	34 05 52	117 42 34	DR. WHITNEY	POMONA COLLEGE OBSERVATORY
93	8.81"	32-80	1165	34 05 47	117 43 47	CHARLES STARCHER	221 WEST SECOND STREET, CLAREMONT
104	SP	30-09	600	34 00 23	117 59 46	JOHN THOMAS	14570 - 7TH AVENUE, NORTH WHITTIER HEIGHTS
107C	8.81"	15-66	116	33 56 18	118 08 03	CO. FIRE DEPARTMENT EMPLOYEES	11435 DOWNEY AVENUE, DOWNEY
108B	SA	29-62	301	34 04 27	118 02 08	CHALMER WIRE	126 SOUTH TYLER AVENUE, EL MONTE FIRE STATION
124B	SP AP	84-31	3000	34 35 10	118 21 40	SCHRODER	BOUQUET CANYON RESERVOIR
126	S	12-41	17	33 59 18	188 27 33	C. HENRY	VENICE CITY YARDS
128B	S	95-39	2075	34 36 28	118 33 40	H. L. CALVIRD	ELIZABETH LAKE CANYON AT RADIUM HOT SPRINGS
135	S	10-30	83	33 53 50	118 03 58	CARMEN PEREZ	12450 MAPLEDALE STREET, NORWALK
136B	S	26-70	317	34 05 28	118 19 30	H. P. LARSON	6225 SANTA MONICA BOULEVARD, HOLLYWOOD
140	S	25-55	232	34 02 44	118 26 57	I. P. MILLER	1620 SOUTH PURDUE STREET, WEST LOS ANGELES CITY HALL
150	SA	42-11	1800	34 11 09	117 59 14	F. D. KELLY	MONROVIA CANYON FALLS
157B	S AP	12-88	150	33 54 57	118 25 10	LABORATORY EMPLOYEES	STANDARD OIL REFINERY, EL SEGUNDO
169	SP	41-63	700	34 09 49	118 02 23	B. F. MOBLEY	621 EAST SIERRA MADRE AVENUE, SIERRA MADRE PUMP PLANT
172B	SP	42-35	548	34 08 28	117 58 04	J. S. BLAIN	1101 SOUTH OAK STREET, DUARTE
179	SP A	41-42	1220	34 10 23	118 03 34	PAUL N. CARTER	700 NORTH LIMA STREET, SIERRA MADRE
200	S	70-27	1093	34 25 23	118 34 32	ROY GALLIAN	SO. CALIF. EDISON CO. SUBSTATION 2.5 MI. WEST OF SAUGUS
206	S	30-94	467	34 03 19	117 54 25	P. R. JACKSON	1126 S. AZUSA AVE., VALENCIA HEIGHTS, WEST COVINA
208	S	10-14	49	33 51 35	118 04 52	ALBERT SHULTZ	BARR LUMBER CO., 18810 PIONEER BOULEVARD, ARTESIA
213B	SA	26-43	175	34 03 48	118 21 19	FLOOD CONTROL EMPLOYEE	HANCOCK PARK, 5801 WILSHIRE BOULEVARD, LOS ANGELES
215B	S	9-71	73	33 52 56	118 07 29	CO. FIRE DEPARTMENT EMPLOYEES	9817 EAST FLOWER AVENUE, BELLFLOWER FIRE STATION
217	8.81"	14-75	110	33 56 37	118 13 45	R. W. MERRICK	2265 EAST 103RD STREETS, WATTS
221B	S	59-99	1375	34 18 32	118 24 20	RANCH FOREMAN	DUCKWORTH RANCH, 12500 NO. MACLAY STREET, PACOIMA
225	S	9-85	47	33 50 35	118 07 09	P. LUCAS	MONTANA RANCH, 5812 ARBOR ROAD, SOUTHEAST OF ARTESIA
240B	S	60-67	1875	34 19 04	118 20 02	FRANK SHUBERT	5.0 MILES UP TUJUNGA CANYON FROM OLD FOOTHILL BOULEVARD
250C	S	74-04	2550	34 27 02	118 11 52	ISABEL ROTH	SOLEDAD AND ARRASTRE CANYON ROADS, ACTON
256B	S	32-44	882	34 03 26	117 45 04	M. M. KERSLAKE	FIFTH AND THOMAS STREET, POMONA
266	SP	17-06	353	33 56 25	117 59 35	STEPHENSON	1234 SANTA GERTRUDES AVENUE, WHITTIER
269A	S	18-53	710	33 58 09	117 50 40	E. K. HAYS	DIAMOND BAR RANCH #1, BREA CANYON ROAD
291	SA	14-45	121	33 57 00	118 15 25	W. L. HOWELL	96TH STREET AND CENTRAL AVENUE, LOS ANGELES
292B-E	S	36-85	1000	34 08 57	118 30 55	H. MC CAULEY	ENCINO RESERVOIR, 1 MILE SOUTH OF ENCINO
304	S	42-30	2725	34 11 39	117 57 50	F. D. KELLY	DEER PARK, 1½ MILES ABOVE SAWPIT DAM
306C	S	21-56	8	34 01 50	118 50 32	TED BOHME	TRANCAS BEACH, 30732 ROOSEVELT HIGHWAY
307	S	56-73	6500	34 16 05	117 37 35	U.S.F.S. EMPLOYEE	SNOW CREST, SAN ANTONIO CANYON
308	SP	56-96	8300	34 13 50	117 36 22	WILLIAM CHRISTIANSON	KELLY'S KAMP, 1½ MILES NORTHEAST OF ONTARIO PEAK
343B	SP	16-04	144	33 57 12	118 05 48	F. C. COLLINS	8705 PASSONS BOULEVARD, RIVERA
347-E	S	30-30	387	34 05 38	117 57 39	FLOOD CONTROL EMPLOYEES	SCOTT PLACE, 1 BLOCK WEST OF MAIN STREET, BALDWIN PARK
349B	S	54-46	1530	34 14 20	117 51 36	FLOYD ARNOLD	CAMP RINCON, WEST FORK SAN GABRIEL CANYON
354D	S	56-27	4527	34 13 45	117 40 10	TED PEZMAN	COW CANYON AND SAN ANTONIO CANYONS DIVIDE, 1¼ MI. S.W. CAMP BALDY
377F	SP	33-04	1075	34 09 00	118 53 59	R. ROPER	NORTH EDGE OF LAKE SHERWOOD, VENTURA COUNTY
386B	SP 3" & S	21-71	1500	34 04 58	118 49 38	R. H. OAKLEY	DUME CANYON NORTHWEST OF VERA CANYON
388B	S	9-40	71	33 53 30	118 09 33	L.A. CO. FIRE DEPT. EMPLOYEE	15548 SOUTH PARAMOUNT BOULEVARD, CLEARWATER
411B	SP	16-11	170	33 59 20	118 04 58	C. W. ROBINSON	6004 SOUTH PASSONS BOULEVARD, RIVERA
419	SP A	61-92	5450	34 22 26	118 12 20	C. C. BREVIDORO	HEAD OF PACOIMA CANYON ON SANTA CLARA RIDGE, MT. GLEASON
444	SA	2-52	485	33 46 35	118 20 38	W. R. LA FLANNE	"ROLLING HILLS", PALOS VERDES HILLS
463	S	25-78	92	34 00 49	118 25 32	A. CURR	11637 CHARNOCK ROAD, SO. CALIF. WATER CO., MAR VISTA
480B	S	41-49	404	34 06 32	118 03 27	CO. FIRE DEPARTMENT EMPLOYEES	206 NORTH KAFFMAN AT L.A. CO. FIRE STATION
482	S	27-17	208	34 01 15	118 17 17	D. M. WILSON	920 WEST 36TH PLACE, LOS ANGELES CIVIL ENGINEERING BLDG., U.S.C.
488	S	49-20	1450	34 17 47	118 22 29	L.A. CO. FORESTRY EMPLOYEE	DEXTER PARK, KAGEL CANYON PATROL STATION
494	S	29-19	181	34 00 13	118 05 08	IRA D. CATE	4901 COLUMBIA AVENUE, PICO
529	SP 3", S	S.B. CO.	720	34 00 35	117 41 14	HARRY ROBINSON	CENTRAL AND CHINO AVENUE, CHINO
594B	S	58-61	1241	34 22 58	118 32 02	R. WOODS	1300 NEWHALL AVENUE, NEWHALL
611B	S	40-92	1052	34 10 37	118 06 22	W. ALLEN	1830 NORTH PEPPER DRIVE, ALTADENA
634B	SP	25-08	88	34 00 40	118 29 28	T. M. DONAHUE	CITY HALL, SANTA MONICA
656A	S	49-83	1265	34 16 03	118 19 11	MELVIN OVERHOLSER	8625 WENTWORTH, SUNLAND
677C	SP	40-22	983	34 10 19	118 10 41	C. V. HOFFNER	1333 LIDA STREET, PASADENA
706	S	15-92	155	33 58 42	118 06 08	W. H. WILLIAMS	HADLEY RANCH, RIVERA
718	SP	V-CO.	870	34 10 16	118 50 35	ERNEST J. ZIEHMER	THOUSAND OAKS, VENTURA COUNTY
722B	S	98-67	2740	34 37 46	118 13 51	A. E. STRATMAN	AVENUE N, AND AVENUE 60 W., DEL SUR
783	SP AP	51-28	1268	34 12 45	118 10 14	U.S.F.S. EMPLOYEES	MOUTH OF COON CANYON IN ARROYO SECO
784	SP	51-38	1575	34 12 56	118 10 10	U.S.F.S. EMPLOYEES	¼ MILE ABOVE MOUTH OF COON CANYON IN ARROYO SECO
785	SP	51-38	1707	34 13 03	118 10 05	U.S.F.S. EMPLOYEES	.4 MILE ABOVE MOUTH OF COON CANYON IN ARROYO SECO
786	SP	51-37	2207	34 13 08	118 09 50	U.S.F.S. EMPLOYEES	¾ MILE ABOVE MOUTH OF COON CANYON IN ARROYO SECO
787	SP	51-38	22	34 13 09	118 09 51	U.S.F.S. EMPLOYEES	.6 MILE ABOVE MOUTH OF COON CYN. ON E. SLOPE IN ARROYO SECO
788	SP	51-38	1825	34 13 00	118 09 58	U.S.F.S. EMPLOYEES	.4 MILE ABOVE MOUTH OF COON CANYON IN ARROYO SECO
789	SP	51-47	2035	34 13 17	118 09 19	U.S.F.S. EMPLOYEES	2.6 MILES NORTHWEST OF INTERSECTION CHEMY TRAIL & LOMA ALTA DR., ALTADENA
793	SP	51-96	5300	34 14 20	118 06 30	U.S.F.S. EMPLOYEES	MARKHAM SADDLE, MT. WILSON
794	SP	25-80	585	34 05 43	118 24 42	L.A.W.D. EMPLOYEES	LOWER FRANKLIN RESERVOIR, SAWTELLE
797	SP	47-12	1127	34 16 19	118 35 12	L.A.W.D. EMPLOYEES	NO. END OF DE SOTO STREET, NO OF CHATSWORTH
798	SP	S.B. CO.					WOODWARD, CHINO
799	SP	26-39				L.A.W.D. EMPLOYEES	BALDWIN HILLS RESERVOIR, BALDWIN HILLS
1007	S	64-25	5900	34 20 40	117 58 41	CARL R. ERICSON	CAMP VALCREST, ANGELES CREST HIGHWAY, N.E. OF CHILAO
1010	SA	44-93	2175	34 09 39	117 42 07	JERRY W. LYTTON	PALMER CANYON
1012	S	69-96	1001	34 26 23	118 36 20	B. T. DUBY	CASTAIC JUNCTION
1020	S	45-05	1810	34 08 54	117 41 53	U.S.F.S. EMPLOYEES	PADUA HILLS PATROL STA. NR. JUNCT. BALDY RD. & PADUA AVENUE, CLAREMONT
1021	S	61-14	4500	34 21 03	118 16 53	FLOOD CONTROL EMPLOYEE	YERBA BUENA WATER TANK ON DIVIDE BETWEEN S. FK. OF PACOIMA CYN. & SLAUGHTER CYN.
1022	S	69-12	1710	34 28 45	118 41 06	WESTERN GULF OIL CO. EMPLOYEE	HASLEY CANYON, 5 MI. ABOVE JUNCTION WITH CASTAIC CREEK
1023	S	36-26	1415	34 08 01	118 34 37	R. Y. MC BRIDE	GARRAPATA CANYON .45 MI. S. OF MULHOLLAND HWY. ON SANTA MARIA RD.
1024	S	36-07	1090	34 07 27	118 35 28	DR. C. A. GUSTAVUS	TOPANGA MINERAL SPRINGS IN HORSESHOE CANYON
1025	S	22-86	160	34 02 02	118 42 43	AMANDA DUFF DUNNE	24701 PACIFIC COAST HWY. ON E. SIDE OF PUERCO CANYON
1026	S	52-89	1825	34 12 09	118 01 03	ROBERT E. GICK	SANTA ANITA CANYON .2 MI. ABOVE WINTER CREEK
1027	S	60-59	1440	34 18 24	118 20 45	FRANK SHUBERT	LITTLE TUJUNGA CANYON AT COTTONWOOD GLEN

NOTE: RAINFALL STATION LOCATIONS FOR SEASON 1948-49 WERE IDENTICAL WITH SEASON 1947-48 EXCEPT AS SHOWN ON PAGE 33.

LEGEND: SAME AS 1947-48 TABLE

TABLE VIII

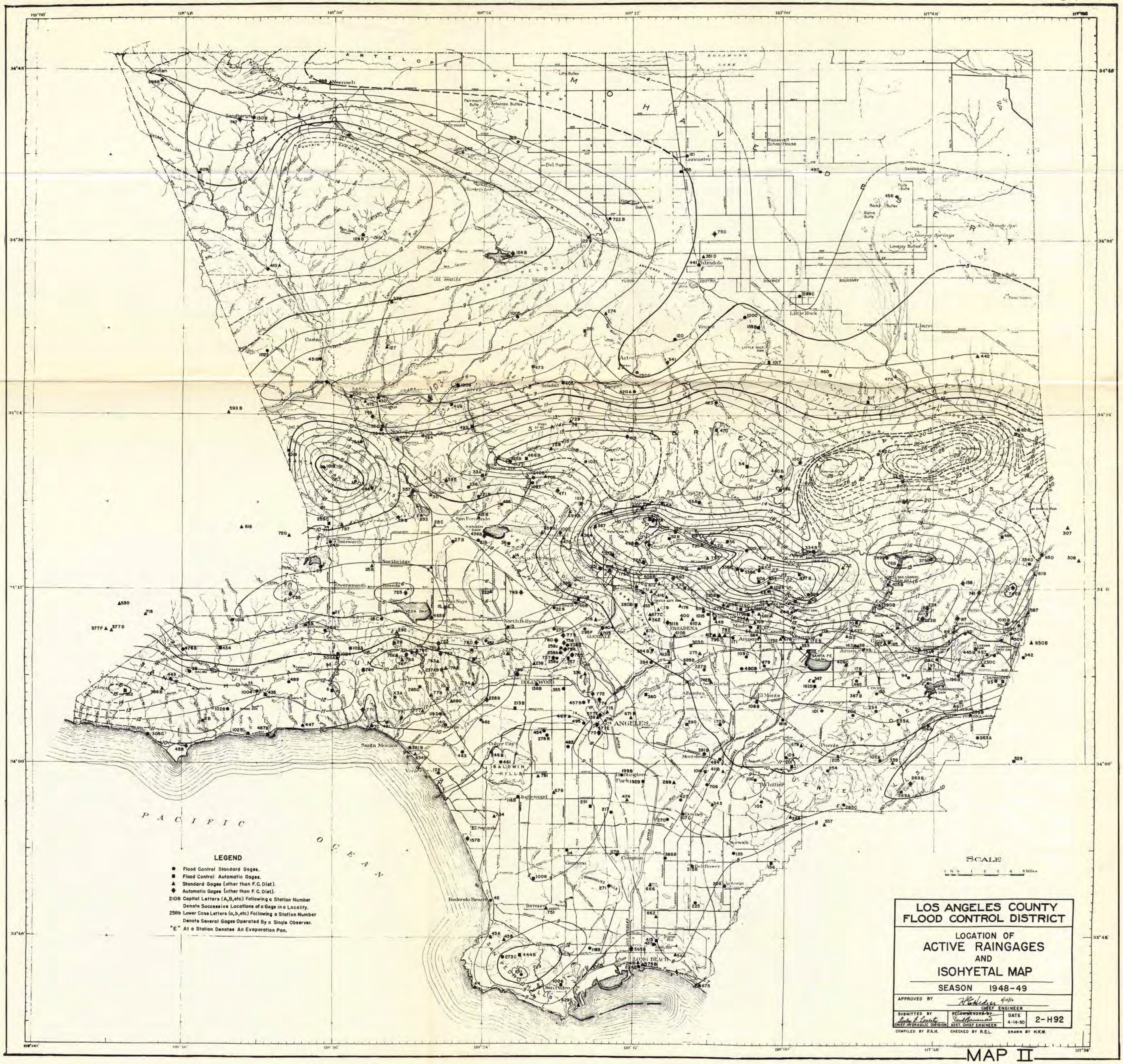
SEASONAL RAINFALL INDICES
FOR
SELECTED AREAS IN LOS ANGELES COUNTY

SEASON	"A" COASTAL PLAIN	"B" SAN FERNANDO VALLEY	"C" SAN GABRIEL VALLEY	"D" SAN GABRIEL MOUNTAINS	"E" SANTA MONICA MOUNTAINS	"F" SIERRA PELONA	"G" DESERT	COUNTY INDEX*
1872-73	94	94	77	79	93	85	77	84
74	152	152	149	150	148	150	149	150
75	119	119	81	86	119	100	82	97
76	165	165	122	128	165	143	123	140
77	34	27	27	25	33	17	17	23
78	135	122	136	123	129	63	63	99
79	72	56	72	68	66	37	37	54
80	123	107	124	122	120	120	131	123
81	78	66	77	73	76	58	61	68
82	61	57	66	66	63	77	79	70
1882-83	69	61	74	68	70	54	45	60
84	232	216	236	242	230	259	283	251
85	56	55	56	56	57	50	55	54
86	145	140	128	139	151	167	194	159
87	83	83	78	85	83	106	123	98
88	101	81	121	116	104	106	109	107
89	124	122	127	130	125	132	141	131
90	164	198	191	201	144	222	230	203
91	91	77	103	98	98	91	97	94
92	76	61	80	77	70	70	71	73
1892-93	155	136	151	146	132	124	122	136
94	48	38	55	50	46	46	48	48
95	104	110	120	119	101	90	59	94
96	59	51	53	53	55	50	106	66
97	121	111	107	107	109	101	57	96
98	49	41	56	45	42	23	34	39
99	44	27	43	31	37	28	33	34
00	60	51	55	56	58	47	82	61
01	103	104	113	101	100	109	95	103
02	70	57	63	62	71	53	60	61
1902-03	138	118	118	115	127	108	116	118
04	56	51	55	54	58	45	38	49
05	121	132	125	119	125	135	129	127
06	139	118	124	126	122	110	118	122
07	127	143	138	137	148	164	156	147
08	86	90	91	92	89	95	96	92
09	118	106	122	111	113	93	81	101
10	83	74	88	86	83	105	107	94
11	110	118	123	133	117	148	118	126
12	59	85	74	78	71	80	68	73
1912-13	74	86	74	78	73	86	75	78
14	143	161	160	160	146	151	142	150
15	132	129	118	110	132	155	134	132
16	137	126	137	138	131	115	107	124
17	93	92	93	90	93	80	66	83
18	93	111	89	103	111	106	95	100
19	69	69	67	70	78	67	72	70
20	74	79	90	93	76	81	77	81
21	96	106	97	97	97	90	83	92
22	122	138	134	172	119	157	127	142
1922-23	71	71	75	83	70	83	72	76
24	46	48	53	53	44	45	58	51
25	54	60	63	63	53	54	52	56
26	89	118	107	114	95	112	102	105
27	108	125	122	106	104	109	110	110
28	81	69	73	61	62	60	62	66
29	75	72	76	67	74	68	62	69
30	72	76	76	74	73	75	90	78
31	80	91	79	76	92	100	111	92
32	109	122	110	115	109	125	142	122
1932-33	73	76	67	65	74	79	73	73
34	75	94	97	73	91	63	43	68
35	131	122	122	121	118	130	149	131
36	76	78	76	70	87	71	48	68
37	142	143	143	140	149	144	136	141
38	141	148	144	155	152	147	143	147
39	122	118	99	101	114	120	136	118
40	92	96	78	73	99	76	76	81
41	219	235	199	183	227	225	224	215
42	82	77	69	70	80	81	88	80
1942-43	118	148	144	154	140	149	160	148
44	126	140	113	137	136	157	221	158
45	90	88	88	93	87	84	95	90
46	80	81	80	91	82	99	88	88
47	91	86	89	98	84	93	91	92
48	46	45	53	51	48	50	58	51
49	59	50	60	57	53	54	60	57
75 YEAR NORMAL RAINFALL	14.52	17.14	19.33	28.16	19.74	16.31	7.50	16.64
1947-48 RAINFALL	6.68	7.71	10.24	14.36	9.48	8.16	4.35	8.49
1948-49 RAINFALL	8.57	8.57	11.60	16.05	10.46	8.81	4.50	9.48
AREA IN SQUARE MILES	597	272	303	748	224	855	953	3952

* INDICATES WEIGHTED AVERAGE INDEX OF AREAS.


LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
LOCATION OF
ACTIVE RAINGAGES
AND
ISOHYETAL MAP
SEASON 1947-48
APPROVED BY H.E. Hedger 4/14/50
CHIEF ENGINEER
SUBMITTED BY Finley B. Laverty
CHIEF, HYDRAULIC DIVISION
RECOMMENDED BY Paul Baumann
ASST. CHIEF ENGINEER
DATE 4-14-50
2-H91
COMPILED BY R.E.L.
CHECKED BY R.E.L.
DRAWN BY HKW
LEGEND
Flood Control Standard Gages.
Flood Control Automatic Gages.
Standard Gages (other than F.C. Dist.).
Automatic Gages (other than F.C. Dist.).
210B Capital Letters (A,B,etc.) Following a Station Number Denote Successive Locations of a Gage in a Locality.
258b 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 Pan.
SCALE
5 Miles
PACIFIC OCEAN
ANTELOPE VALLEY
MOHAVE DESERT
ROSAMOND LAKE
SIERRA PELONA
PORTAL RIDGE
SAN GABRIEL MOUNTAINS
SANTA SUSANA MOUNTAINS
SANTA MONICA MOUNTAINS
SAN JOSE HILLS
PUENTE HILLS
SAN PEDRO HILLS
BALDWIN HILLS
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT BOUNDARY
Gorman
Neenach
Sandbergs
Fairmont
Del Sur
Lancaster
Palmdale
Little Rock
Llano
Vincent
Acton
Castaic
Saugus
Newhall
Sylmar
San Fernando
Chatsworth
Northridge
Owensmouth
Reseda
Van Nuys
North Hollywood
Burbank
Glendale
Sunland
Tujunga
Pasadena
Sierra Madre
Arcadia
Monrovia
Azusa
Glendora
San Dimas
La Verne
Claremont
Pomona
Covina
El Monte
Alhambra
San Gabriel
Puente
Whittier
Montebello
Hollywood
LOS ANGELES
Santa Monica
Sawtelle
Venice
Culver City
Inglewood
El Segundo
Huntington Park
Downey
Norwalk
Bellflower
Artesia
Compton
Gardena
Torrance
Redondo Beach
San Pedro
LONG BEACH
SEPULVEDA DAM
HANSEN DAM
SANTA FE DAM
PUDDINGSTONE DAM
SAN GABRIEL DAM No 1
SAN GABRIEL DAM No 2
MORRIS DAM
BIG TUJUNGA DAM
DEVILS GATE DAM
PACOIMA DAM
LITTLE ROCK DAM
119°00'
118°48'
118°36'
118°24'
118°12'
118°00'
117°48'
117°36'
34°48'
34°36'
34°24'
34°12'
34°00'
33°48'

MAP I


LEGEND
Flood Control Standard Gages.
Flood Control Automatic Gages.
Standard Gages (other than F.C. Dist.).
Automatic Gages (other than F.C. Dist.).
210B Capital Letters (A,B,etc) Following a Station Number Denote Successive Locations of a Gage in a Locality.
258b Lower Case Letters (a,b,etc) Following a Station Number Denote Several Gages Operated By a Single Observer.
"E" At a Station Denotes An Evaporation Pan.
PACIFIC OCEAN
SCALE
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
LOCATION OF ACTIVE RAINGAGES AND ISOHYETAL MAP
SEASON 1948-49
APPROVED BY
CHIEF ENGINEER
SUBMITTED BY
CHIEF, HYDRAULIC DIVISION
RECOMMENDED BY
ASST. CHIEF ENGINEER
DATE 4-14-50
2-H92
COMPILED BY P.A.H.
CHECKED BY R.E.L.
DRAWN BY H.K.M.

MAP II

EVAPORATION RECORDS

EVAPORATION

FOREWORD

This report contains monthly and seasonal data for all active stations reporting to the District during the 1947-48 and 1948-49 seasons. Past records of inactive stations are available in the District's files. Past records of active stations are available in the District's files and were also published in the District's 1945-46 and 1946-47 Biennial Report on Hydrologic Data.

SUMMARY OF SEASONAL EVAPORATION

The following tabulation indicates the maximum and minimum rates of evaporation in inches at District stations for the seasons 1947-48 and 1948-49.

	1947-48	1948-49
Maximum Seasonal Amt. - Big Tujunga Dam	86.93	85.84
Maximum Monthly Amt. - Palmdale	13.09 in July	12.45 in July
Maximum Monthly Amt. - Big Tujunga Dam		12.45 in Aug.
Minimum Seasonal Amt. - Puente Hills	30.26	29.91
Minimum Monthly Amt. - Opid's (Camp Hi Hill)	0.14*	0.34**

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 IX presents monthly and seasonal evaporation data for all active stations during the seasons 1947-48 and 1948-49.

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

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

LOCATION AND NUMBER OF STATIONS

The District received records each month from 23 evaporation stations in 1947-48 and 22 evaporation stations in 1948-49, of which the District maintained 18. Thirteen of these stations are at the largest reservoirs; the remaining stations are distributed throughout the District.

*WATER SURFACE OF PAN FROZEN FOR 21 DAYS.
**WATER SURFACE OF PAN FROZEN FOR 19 DAYS.

San Gabriel Dams No. 1 and No. 2 and Encino Reservoir are equipped with both land and lake pans.

LENGTH OF RECORD

The first pan was installed at Santa Anita Dam in March 1929. By October 1932, the District was maintaining 26 evaporation stations throughout the County. The number of stations has varied slightly since 1932 due to lack of cooperative observers, insufficient readings, and for various other reasons.

The District has 19 stations with records from 14 to 20 years in length.

EQUIPMENT

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

Starting October 1, 1946, all District land pans were equipped with evaporation reducer screens; this tends to reduce the pan evaporation to the equivalent of lake evaporation, thus eliminating the use of conversion factors. The reducer screen is made of one-quarter inch hardware cloth and rests horizontally one and one-half inches below the top of the pan and one and one-half inches above the water surface.

The lake pans in use at San Gabriel Dam 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 pan is floated on suitable rigging and is submerged to make the reservoir surface and water level in the pan and the water temperatures practically identical. San Gabriel Dam No. 1 is also equipped with an additional lake pan 36 inches square by 18 inches deep, for comparative purposes.

The Los Angeles City Bureau of Water Works and Supply maintains the following stations and furnishes the District with records:

Location	Type of Pan
Encino Reservoir	F.C. District Land Pan
Encino Reservoir	U.S.W.B. Type A Land Pan
Encino Reservoir	30-inch Square Lake Pan
Van Nuys Warehouse	U.S.W.B. Type A Land Pan
Lower San Fernando Reservoir	U.S.W.B. Type A Land Pan
Silver Lake Reservoir	U.S.W.B. Type A Land Pan on raft

The Metropolitan Water District maintains six-foot and four-foot diameter land pans at Morris Dam from which the District receives records.

The Baldwin Park Experimental Station, which is cooperatively maintained by several agencies including the District, is equipped with the following instruments: An eight-inch standard rain gage, maximum and minimum thermometers, hygrothermograph, anemometer, four-foot diameter evaporation pan of the United States Weather Bureau type, six-foot diameter evaporation pan, two-foot diameter evaporation pan, and a District two-foot diameter screened evaporation pan.

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

TABLE IX

EVAPORATION RECORDS IN INCHES

SEASONS 1947-48, 1948-49

1947-48

STA. NO.	STATION	TYPE GAGE	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
15	VAN NUYS	L-A48	2.34	1.91	1.36	1.37	1.84	2.50	4.23	5.33	5.22	7.10	DISCONTINUED		INC.
23	CHATSWORTH	L-24S	4.39	4.58	3.52	4.35	3.28	3.73	4.30	6.08	6.10	8.00	7.70	7.48	63.51
32C	NEWHALL	L-24S	4.04	2.78	1.86	2.65	2.46	2.86	3.90	5.98	6.14	8.02	7.69	6.57	54.95
33A'	PACOIMA DAM	L-24S	5.86	5.94	5.06	6.52	4.69	4.96	4.60	5.92	5.08	8.62	8.70 ·	9.46	75.41
46D	BIG TUJUNGA DAM	L-24S	7.48	6.20	4.13	5.70	3.65	3.98	4.88	6.98	7.50	12.28	12.65	11.50	86.93
57B	CAMP SINGER (OPID'S)	L-24S	2.42	1.18	.57#	.78#	.14#	.63	2.02	4.17	4.96	7.34	7.68	5.94	37.83#
63B	BIG SANTA ANITA DAM	L-24S	3.88	4.20	3.50	4.78	3.29	2.94	3.11	3.76	3.39	5.76	5.30	5.14	49.05
89	SAN DIMAS DAM	L-24S	2.18	2.32	1.76	3.95	1.98**	1.98	2.34**	3.69	5.24	7.66	7.71	7.12	47.93**
96	PUDDINGSTONE DAM	L-24S	4.28	3.52	2.80	3.22	2.83	2.73	3.16	4.87	4.96	7.44	6.39	5.98	52.18
223B	BIG DALTON DAM	L-24S	4.17	3.78	2.94	3.20	2.83	2.10	3.12	3.74	4.32	6.70	7.49	6.89	51.28
261	ACTON - MELLEN	L-24S	5.50	3.98	2.83	3.98	3.07	3.47	5.10	7.21	7.84	11.64	11.18	9.26	75.06
265C	PUENTE HILLS - WEISEL RANCH	L-24S	2.05	1.42	.84	1.44	1.21	1.82	2.29	3.09	3.54	4.67	4.14	3.75	30.26
292	ENCINO RESERVOIR - F.C.	L-24S	4.55	3.76	2.72	3.04	2.84	3.58	4.48	6.15	6.12	8.55	7.80	7.76	61.35
	" "	L-A48	5.68	4.79	3.58	4.28	3.89	4.25	6.28	7.04	7.43	10.58	10.94	9.40	78.14
	" "	F-36	4.94	4.28	2.87	3.40	3.10	3.51	4.92	6.39	6.52	9.17	8.65	7.86	65.61
293	LOWER SAN FERNANDO RESERVOIR	L-A48	5.99	6.80	5.94	7.39	4.97	5.41	6.21	8.67	6.92	10.26	9.51	9.50	87.57
321	PINE CANYON PATROL STATION - CO. FORESTRY	L-24S	5.70	3.91	2.78	3.42	2.96	3.65	4.26	7.50	8.50	10.71	10.20	8.94	72.53
334	SAN GABRIEL DAM #2	L-24S	4.67	3.20	2.06	2.99	2.52	2.66	3.56	5.36	6.23	10.10	10.00	9.10	62.45
	SAN GABRIEL DAM #2	F-30	NOT	IN	OPERATION				INCOMPLETE						INC.
336	SILVER LAKE RESERVOIR	L-A48	4.27	4.42	3.14	3.12	3.40	3.65	4.41	5.88	5.42	6.84	6.37	5.32	56.24
347	BALDWIN PARK EXPERIMENTAL STA.-U.S.W.B.	L-A48	3.69	3.15	2.25	2.16	2.98	3.67	6.27	5.99	6.27	7.96	7.60	6.07	58.06
	" " "	L-72	3.25	2.75	1.94	1.76	2.21	3.15	4.47	5.47	5.64	6.95	6.76	5.47	49.82
	" " " - F.C.	L-24S	3.21	2.64	1.66	1.64	2.11	3.06	4.46	5.88	5.83	7.70	7.32	5.86	51.37
	" " "	L-24	3.90	3.35	2.31	2.10	2.55	3.50	5.04	6.57	6.45	8.40	7.96	6.39	58.52
390B	MORRIS DAM	L-72	4.42	3.50	2.24	2.90	2.41	2.83	3.76	5.38	6.16	8.54	8.06	7.22	57.42
	" "	L-A48	4.54	3.62	2.41	3.35	2.77	3.23	4.34	5.81	6.55	9.30	8.83	7.87	62.62
425B	SAN GABRIEL DAM #1	L-24	7.72	6.10	3.97	5.41	3.94	4.44	5.24	7.66	7.62	11.78	11.34	11.51	86.73
	" " " "	F-30	6.80	5.78	3.37	3.76	2.58	3.33	4.11	6.20	6.34	9.88	9.70	9.00**	70.85**
	" " " "	L-24S	5.92	4.78	3.15	4.26	2.98	3.28	4.24	6.14	6.27	9.74	9.43	9.36	69.55
	" " " "	F-36	6.94	5.90	3.59	4.00	2.58	3.45	4.27	6.52	6.49	10.15	10.28	9.67**	73.84**
441	PALMDALE - CO. ROAD MAINTENANCE YARD	L-24S	6.18	2.91	1.71	2.76	3.11	3.79	6.34	8.15	10.53	13.09	12.28	10.00	80.85
468	PICKENS DEBRIS BASIN	L-24S	3.90	3.84	2.17	2.89	2.57	2.33	3.90	4.94	5.02	7.62	6.75	6.50	52.43
1008	LA FRESA - SO. CALIF. EDISON COMPANY	L-24S	3.12	2.36	1.46	1.32	2.08	2.48	3.80	5.00	5.14	6.39**	5.89	4.66	43.70**

1948-49

23	CHATSWORTH	L-24S	4.48	5.88	2.16	2.72	1.98	2.70	4.95	5.54	7.33	7.72	8.25	7.43	61.14
32C	NEWHALL	L-24S	3.60	3.17	1.41	1.38	1.34	2.20**	4.10	4.54	6.74	7.92	7.54	5.96	49.90**
33A'	PACOIMA DAM	L-24S	6.12	8.70	4.18	3.66	3.22	3.36	5.21	5.10	6.33	6.96	8.51	8.97	70.32
46D	BIG TUJUNGA DAM	L-24S	7.68	7.48	3.24	2.60	2.44	3.14	6.68	7.21	9.70	11.25	12.45	11.97	85.84
57B	CAMP SINGER (OPID'S)	L-24S	2.57	2.10	.34#	FROZEN	FROZEN	.85#	3.94	4.42	5.92	7.71	7.43	6.78	42.06#
63B	BIG SANTA ANITA DAM	L-24S	3.63	4.48	2.70	2.00#	1.71	2.36	3.90	3.35	4.54	4.87	5.95	5.90	45.39#
89	SAN DIMAS DAM	L-24S	4.44	3.88	1.44	.88	1.06	1.97	3.50	4.17	6.18	7.48	7.69	6.23	48.92
96	PUDDINGSTONE DAM	L-24S	4.00	4.21	2.33	2.05	1.40	2.18	3.42	4.20	5.86	6.14	6.61	5.88	48.28
223B	BIG DALTON DAM	L-24S	3.40	2.92	.98	1.18	1.38	1.37	3.38	3.38	5.93	7.05	6.80	6.72	44.49
261	ACTON - MELLEN	L-24S	5.53	5.02	2.67	1.12#	2.12	3.05	5.35	6.92	8.93	10.48	10.23	8.87	70.29#
265C	PUENTE HILLS - WEISEL RANCH	L-24S	1.97	1.72	1.12	.74	.83	1.79	2.46	2.67	3.73	4.59	4.46	3.83	29.91
292	ENCINO RESERVOIR - F.C.	L-24S	4.62	4.53	2.32	1.68	1.98	2.92	5.15	5.68	7.60	8.45	8.85	7.70	61.48
	" " - U.S.W.B.	L-A48	5.95	6.18	3.00	2.19	2.52	3.88	6.62	6.95	8.40	9.87	10.16	9.08	74.80
	" " - LAKE	F-36	5.00	5.62	2.26	2.14	1.86	3.11	5.42	6.14	7.45	8.37	9.08	8.07	64.52
293	LOWER SAN FERNANDO RESERVOIR	L-A48	5.82	9.95	3.95	3.69	3.30	4.08	7.52	7.76	9.09	10.23	8.34	7.62	81.35
321	PINE CANYON PATROL STATION - CO. FORESTRY	L-24S	5.40	4.42	2.02	1.56	1.68	2.87	6.01	6.87	9.17	11.10	9.91	8.10	69.11
334	SAN GABRIEL DAM #2	L-24S	5.42	4.62	1.58	1.04#	1.36	2.82	4.90	5.50	8.13	10.13	9.94	10.02	65.46#
	SAN GABRIEL DAM #2	F-30	N.R.	N.R.	N.R.	INC.	1.07	2.72	4.42	5.42	7.36	8.94	8.76	INC.	INC.
336	SILVER LAKE RESERVOIR	L-A48	3.91	4.28	2.46	3.16	2.50	3.61	4.29	4.59	5.80	6.02	5.52	4.58	50.72
347	BALDWIN PARK EXPERIMENTAL STA. - U.S.W.B.	L-A48	3.66	3.30	2.15	1.76#	1.94	3.48	4.45	5.29	7.00	7.90	8.12	6.37	55.42#
	" " " "	L-72	3.07	2.75	1.71	1.78	1.41	3.36	3.63	4.50	6.29	6.95	7.21	5.58	48.24#
	" " " "	L-24S	3.37	2.88	1.39	1.42#	1.21	2.64	3.90	4.94	6.83	7.82	7.97	6.30	50.67#
	" " " "	L-24	3.36	3.09	1.94	2.01	1.45	3.08	4.14	4.94	6.69	8.10	8.57	6.50	53.87
390B	MORRIS DAM	L-72	4.26	3.86	1.86	1.76	1.54	2.66	4.48	5.04	7.27	8.28	8.40	7.44	56.85
	" "	L-A48	4.55	4.21	1.93	1.79	1.79	2.95	5.15	5.57	7.81	9.17	9.22	7.67**	61.81**
425B	SAN GABRIEL DAM #1	L-24	7.12**	6.58	3.06	2.42	2.37	3.71	6.13	6.82	9.33	11.01	11.81	11.48	61.84**
	" " "	F-30	5.29	4.77	2.30	1.87	1.65	3.02	4.86	5.64	7.60	9.20	9.94	9.06	65.20
	" " "	L-24S	5.56	5.34	2.48	1.96	1.78	3.06	5.08	5.66	7.81	9.06	9.56	8.97	66.32
	" " "	F-36	5.54	5.04	2.44	2.02	1.84	3.26	5.12	5.88	7.85	9.62	10.45	9.59	68.65
441	PALMDALE - CO. ROAD MAINTENANCE YARD	L-24S	6.06	4.92	2.33	.52#	2.11	4.66	7.25	8.64	11.48	12.45	12.40	9.52	82.34#
468	PICKENS DEBRIS BASIN	L-24S	3.94	3.88	1.56**	1.36**	1.38	1.74	3.69	4.64	6.11	7.08	7.23	6.26	48.87**
1008	LA FRESA - SO. CALIF. EDISON COMPANY	L-24S	3.12	2.83	1.26	1.36	1.50	2.22	3.43	3.92	4.31	4.74	5.03	4.14	37.86

LEGEND

L-24	LAND PAN 24" IN DIAMETER
L-24S	LAND PAN 24" IN DIAMETER SCREENED
L-A48	LAND PAN 48" IN DIAMETER, U.S.W.B. TYPE A
L-72	LAND PAN 72" IN DIAMETER
F-30	FLOATING PAN 30" SQUARE
F-36	FLOATING PAN 36" SQUARE, U.S.G.S. TYPE
*	ESTIMATED
**	PARTLY ESTIMATED
#	RECORDS INCOMPLETE, PARTLY FROZEN
INC.	INCOMPLETE RECORD
N.R.	NO RECORD

RUNOFF RECORDS

RUNOFF

FOREWORD

This is the seventeenth annual or biennial report on runoff published since the inception of the Hydraulic Division (formerly the "Hydrographic Department") in April 1927*. These reports cover 22 years of records on various streams and channels throughout the District.

VALUE OF RECORDS

Runoff records furnish the basic data necessary for:

1. Design of adequate channels and storm drains.
2. Design and operation of dams, debris basins and spreading grounds.
3. Determination of the available water supply and conservation thereof by ground water replenishment.
4. Determination of the quantity of industrial and natural waste.

SUMMARY

Runoff during the 1947-48 and 1948-49 seasons was again below normal throughout the District, the latter being the fifth consecutive dry season.

Peak flows for the seasons were unusually low with no storm being of sufficient magnitude to warrant special mention.

EXTENT AND METHOD OF COLLECTING AND PRESENTING DATA

I. Drainage Areas and Stations

The Flood Control District operated 73 recording stream flow stations during the 1947-48 and 1948-49 seasons. These stations were distributed throughout the County as follows:

Drainage Area	No. of Stations
Los Angeles River	25
San Gabriel River	20
Rio Hondo	17
Ballona Creek	2
Santa Monica Mountains - Coastal	3
Santa Clara River	4
San Antonio Creek	1
Antelope Valley	1
Total	73

The locations of all stations are shown on Map III, page 49.

*RECORDS PRIOR TO 1927 ON SOME STREAMS ARE AVAILABLE IN EITHER THE OFFICE OF THE U.S.G.S. WATER RESOURCES BRANCH OR IN THE OFFICE OF THE STATE DIVISION OF WATER RESOURCES. REFERENCE TO THESE RECORDS, IF AVAILABLE, CAN BE FOUND UNDER "STATION DESCRIPTIONS" HEREIN PUBLISHED.

II. Types of Channels

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

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

III. Types of Recorders Used

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

Type	No. in Use	Time Duration
Au	19	Continuous
H.C.F.*	40	Continuous
Stevens (Type A)	5	Continuous
Stevens (Type L)	10	Weekly or Daily
Rational (Horizontal)	7	Weekly
Friez	1	Continuous
Lietz	1	Weekly
Total	83	

The total number of recorders shown include those used at regular stations, timing stations, and experimental locations.

IV. Records of Recording Streamflow Stations

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

(1) Station Descriptions which present pertinent data regarding location, drainage areas, channels, controls, regulations, diversions, available records, extremes of discharge, accuracy of records and operation.
(2) Lists of Measurements for all actual meter measurements, together with observed water stage, areas of cross section, and mean velocities. These lists include 1750 measurements taken by the District during 1947-48 and 1712 taken during 1948-49 at 73 recorder stations.

*THE H.C.F. RECORDER WAS DESIGNED AND DEVELOPED IN THE DISTRICT'S HYDRAULIC DIVISION INSTRUMENT SECTION TO FURNISH A MEDIUM COST, ACCURATE AND DEPENDABLE CONTINUOUS WATER-STAGE RECORDER.

(3) Mean daily runoff tabulations which show the mean daily runoff in second-feet; total monthly and yearly runoff in second-foot days and acre feet.

(4) Hydrographs showing a curve of instantaneous rate of flow versus time for the larger storms of the period. In general, the storm producing the peak flow of the season at the station was selected. However, the storm producing the peak flow at the maximum number of stations on a major river system was selected for all such stations.

V. United States Geological Survey, Water Resources Branch Records

Included in this report, as additional information, are the records of the thirteen permanent streamflow recording stations owned and operated in this District by the United States Geological Survey, Water Resources Branch. The flood Control District cooperates with the U.S.G.S. by taking streamflow measurements at these stations. During the seasons covered by this report, 306 such measurements were taken. The U.S.G.S., in turn, publishes the records of 23 District stations in their Water Supply Papers for Pacific Slope Basins in California.

VI. Staff Gage Station Measurements

Records of 1262 measurements taken at various staff stations are also included herein. The measurements are correlated with the water stage at an established metering section. Included in this type of record are the measurements of "Rising Water at Whittier Narrows" which are taken weekly at established staff gage stations. A graph of "Rising Water" showing mean monthly flow fluctuation for a period of 27 years is included on page 275.

VII. Miscellaneous Station Measurements

In various drainage areas throughout the County, 861 miscellaneous measurements were taken. These data were collected for specific purposes at irregular intervals and are insufficient to determine mean daily flow. They are listed and published by drainage areas.

VIII. Percolation Data

Numerous sets of percolation measurements were taken on selected reaches of three streams. These are tabulated by streams.

IX. Summary of Seasonal Discharge

Table XI, page 282, presents a complete summary of the seasonal runoff in acre feet, maximum, minimun and mean daily flows in cubic feet per second and the season's peak discharge with date of occurrence.

X. Limitations

Occasionally, incomplete recorder records occur at certain stations. Flows for periods of incomplete record were estimated by various methods. In general, estimates were made by comparison with other flow records and rainfall or by interpolation between known or measured values.

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

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

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

RESPONSIBILITY

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

District	Name
1	G. H. Middleton, assisted by G. R. Spangler and C. E. Crowell*.
2	C. L. Brewster** and F. E. Stunden, assisted by L. R. Dal Corso*.
2A	R. A. Waddicor, assisted by J. F. Payne.
3	T. E. Moon, assisted by J. S. Miranda* and R. Gutierrez*.
4	E. S. Bonadiman, assisted by A. W. Johnson*.
5	C. E. Bollinger, assisted by J. Paull and R. Lynn
6	S. E. Blakely, assisted by J. A. Ocampo*, W. J. Schumaker*, and B. Johnson*.
7 & 8	L. J. Turner, assisted by J. H. Lang, A. Kasimoff and M. V. Pardieck*.
9 & 10	J. W. Luce, assisted by F. E. Wright*.

*OPERATION AND MAINTENANCE DIVISION PERSONNEL.
**RETIRED ON FEBRUARY 29, 1948; SUCCEEDED BY MR. STUNDEN.

The field work and compilation of the records was under the immediate supervision of H. A. van der Goot. Preparation of the report for 1947-48 and 1948-49 was under the immediate supervision of R. E. Lindsay assisted by G. P. Brown and J. H. Lang.

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

COOPERATION

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

LEGEND

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

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

Prefix E - indicates stations owned and operated by the Corps of Engineers, Department of the Army.

Prefix U - indicates stations owned and operated by the U.S.G.S., Water Resources Branch.

Prefix P - indicates stations owned and operated by the District, formerly operated by the Pasadena Water Department.

Prefix L - indicates a station owned and operated by the District, 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 a recorder station.

Suffix S - indicates a staff gage station.

Suffix B or C - indicates that the station has been moved. B represents second location, C a third location, etc.

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

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

These letters are placed in the discharge column; letters not used if the estimated portion of the record represents less than 10% of the mean daily flow or if the total flow is estimated at .05 c.f.s. or less.

Zero gage height elevations shown in the station descriptions are based on U.S.G.S. mean sea level datum.

ACCURACY

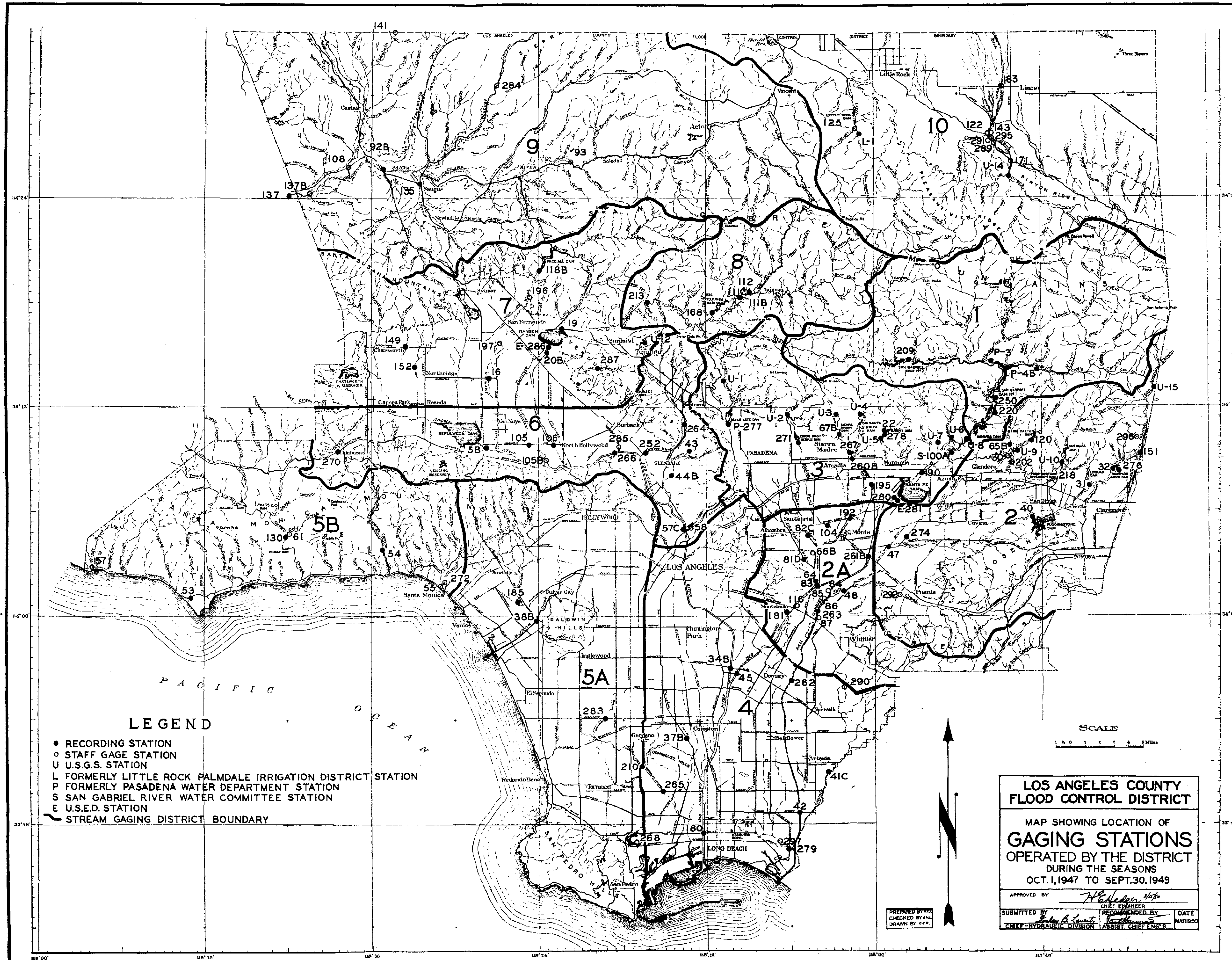
The legend used in plotting the hydrographs has the following significance:

The solid line indicates the portion of the hydrograph lying below the maximum meter measurement taken during the period of the storm, unless the control was stable and the stage discharge relation was well defined by other higher measurements.

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

The dotted line indicates estimated flow for periods when the water stage record was considered unreliable due to recorder failure or when the stage discharge relation failed due to extreme or undetermined shift.

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%.


LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
MAP SHOWING LOCATION OF
GAGING STATIONS
OPERATED BY THE DISTRICT
DURING THE SEASONS
OCT. 1, 1947 TO SEPT. 30, 1949
APPROVED BY
CHIEF ENGINEER
SUBMITTED BY
CHIEF - HYDRAULIC DIVISION
RECOMMENDED BY
ASSIST. CHIEF ENG'R.
DATE
MAR1950
PREPARED BY
CHECKED BY
DRAWN BY
SCALE
5 Miles
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 RIVER WATER COMMITTEE STATION
E U.S.E.D. STATION
STREAM GAGING DISTRICT BOUNDARY
PACIFIC OCEAN
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT BOUNDARY
LOS ANGELES
PASADENA
GLENDALE
HOLLYWOOD
LONG BEACH
Santa Monica
Venice
Inglewood
El Segundo
Redondo Beach
Torrance
Gardena
Compton
San Pedro
Burbank
North Hollywood
Van Nuys
San Fernando
Chatsworth
Northridge
Reseda
Canoga Park
Calabasas
Saugus
Newhall
Castaic
Acton
Vincent
Little Rock
Llano
Sierra Madre
Arcadia
Monrovia
Azusa
Glendora
Covina
San Dimas
La Verne
Claremont
Pomona
Puente
Whittier
El Monte
San Gabriel
Alhambra
Montebello
Downey
Norwalk
Bellflower
Artesia
Huntington Park
Culver City
Sawtelle
SEPULVEDA DAM
HANSEN DAM
SANTA FE DAM
PUDDINGSTONE DAM
SAN GABRIEL DAM No 1
SAN GABRIEL DAM No 2
SANTA SUSANA MOUNTAINS
SIERRA PELONA
SAN GABRIEL MOUNTAINS
SANTA MONICA MOUNTAINS
SAN JOSE HILLS
PUENTE HILLS
BALDWIN HILLS
SAN PEDRO HILLS
PLEASANT VIEW RIDGE
PINYON RIDGE
1
2
2A
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'

MAP III

STATION F81D-R

ALHAMBRA WASH near Short Street

LOCATION: WATER-STAGE RECORDER, LAT. 34°03'22", LONG. 118°05'11", ON THE LEFT (EAST) SIDE OF CHANNEL ABOUT 250 FEET ABOVE SHORT STREET AND 2650 FEET BELOW GARVEY AVENUE. ELEVATION OF ZERO GAGE HEIGHT 243.74 FEET.

ABANDONED STATION F81-R, F81B-R, AND F81C-R WERE 2650 FEET, 4050 FEET, AND 1750 FEET, RESPECTIVELY, UPSTREAM FROM STATION F81D-R.

DRAINAGE AREA: 14.5 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - CONCRETE 40 FEET WIDE BY 12.7 FEET DEEP TO BOTTOM OF INVERT WITH 0.5 FOOT FILLETS AT VERTICAL SIDE WALLS. CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM FOOTBRIDGE AT STATION.

RECORDER: INSTALLED SEPTEMBER 2, 1936 OVER A 3.25 FT. X 4.0 FT. CONCRETE STILLING WELL. AN H.C.F. RECORDER WAS IN SERVICE FROM OCTOBER 1,1947 TO SEPTEMBER 30, 1949.

REGULATION: NONE.

DIVERSIONS: NONE.

RECORDS AVAILABLE:
AT STATION F81-R: JANUARY 14, 1930 TO SEPTEMBER 30, 1934.
AT STATION F81B-R: OCTOBER 1, 1934 TO FEBRUARY 25, 1935.
AT STATION F81C-R: FEBRUARY 25, 1935 TO APRIL 27, 1936.
AT STATION F81B-R: APRIL 27, 1936 TO MAY 22, 1936.
AT STATION F81D-R: SEPTEMBER 2, 1936 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:
1947-1948
MAXIMUM 2670 SECOND-FEET, MARCH 24.
MINIMUM 0.03 SECOND-FOOT AT VARIOUS TIMES.
1948-1949
MAXIMUM 758 SECOND-FEET, DECEMBER 17.
MINIMUM 0.1 SECOND-FOOT AT VARIOUS TIMES.
1929-1949 (STATIONS F81-R, F81B-R, F81C-R, F81D-R)
MAXIMUM 4,890 SECOND-FEET, JANUARY 1, 1934.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD. FLOWS OCCASIONALLY ESTIMATED DURING LOW FLOWS.

OPERATION: LOCATED, OPERATED AND RECORDER HOUSE CONSTRUCTED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT; THE STILLING WELL AND COMMUNICATION CHANNEL WERE CONSTRUCTED BY THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY.

F. C. Dist. Form 52 4-46

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 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.1	0.4	21	0.4	0.6	1.6	1.1	0.4	4.5	0.6	0.6	0.4
2	1.1	0.4	1.6	0.9	0.6	1.6	1.8	0.3	6.7	0.9	1.1	0.4
3	0.9	0.4	0.9	0.6	0.9	1.1	17.8	0.3	0.9	0.9	1.1	0.4
4	0.9	0.3	91	0.6	0.4	0.9	2.3	0.3	0.6	0.4	1.4	0.4
5	0.6	0.3	95	0.6	103	0.2	4.3	0.3	0.9	0.9	1.6	0.4
6	0.6	0.3	2.1	0.9	20	0.2	4.7	0.3	0.6	0.6	1.1	0.4
7	0.6	0.2	0.6	0.9	0.3	0.2	0.2	0.4	0.4	0.6	1.1	0.3
8	0.9	0.2	0.4	0.6	0.3	0.4	0.2	0.9	0.3	0.6	1.1	0.3
9	1.1	0.2	0.4	0.6	0.1	0.4	0.1	0.4	0.3	0.9	1.4	0.3
10	1.1	0.2	0.4	0.4	0.4	0.6	27	0.4	0.3	0.6	1.1	0.3
11	1.1	0.2	0.6	0.4	0.6	0.4	0.2	0.3	0.3	0.9	0.9	0.3
12	0.9	0.3	0.6	0.4	3.2	0.3	0.2	0.4	0.2	0.9	0.9	0.4
13	0.4	0.6	0.6	0.4	0.1	61	0.2	0.4	0.3	0.9	1.1	0.4
14	0.4	0.6	0.6	0.4	0.1	16.1	0.3	0.4	0.3	0.9	0.9	0.6
15	0.4	0.9	1.1	0.4	0.1	1.4	0.2	0.4	0.4	0.6	0.9	0.6
16	0.4	1.1	0.9	0.9	8.0	13.0	0.2	0.4	0.4	a 0.3	0.9	0.6
17	0.6	1.1	1.3	0.6	0.1	57	0.2	0.4	0.4	0.3	0.6	0.4
18	0.4	1.4	0.6	0.6	0.3	0.9	0.2	1.1	0.4	0.3	0.9	0.9
19	0.4	1.6	0.4	0.4	0.6	17.0	0.3	1.4	0.4	0.3	0.9	0.4
20	0.4	1.4	0.3	0.6	0.6	0.4	0.3	0.9	0.4	0.3	0.9	0.4
21	0.4	1.6	0.4	0.6	0.6	0.6	0.4	0.9	0.6	0.3	1.1	0.4
22	0.4	3.4	0.4	0.6	0.9	0.4	0.9	0.3	0.9	0.3	0.9	0.4
23	0.4	0.4	0.4	0.4	0.3	0.6	0.3	0.3	0.6	0.3	1.4	a 0.4
24	0.4	0.3	0.3	0.6	0.3	155	0.4	0.6	0.6	0.3	1.1	0.9
25	0.4	0.3	0.4	0.9	0.4	0.9	0.4	0.9	0.6	0.3	1.1	1.1
26	0.4	0.4	0.4	0.6	0.4	0.6	0.4	1.1	0.6	0.3	1.4	0.9
27	0.4	0.4	0.4	0.6	4.7	0.6	0.4	1.4	0.6	a 0.3	1.6	0.6
28	0.4	0.4	0.4	0.4	5.3	0.9	75	1.4	0.6	0.4	1.4	0.9
29	0.4	0.6	0.4	0.4	1.8	0.4	5.8	0.4	0.6	0.6	a 1.1	0.9
30	0.4	0.6	0.3	0.6		0.3	0.9	0.9	0.6	0.6	0.9	1.1
31	0.4		0.3	0.6		0.9		1.1		0.9	a 0.6	
	18.7	20.5	2245	17.9	155.0	335.9	146.7	19.4	25.3	17.3	33.1	16.2
MEAN	0.60	0.68	7.24	0.58	5.34	10.8	4.89	0.63	0.84	0.56	1.07	0.54
ACRE-FEET	37.	40.	445.	36.	307.	666.	291.	38.	50.	34.	66.	32.

Remarks:

YEAR OR PERIOD MEAN 2.82
ACRE-FEET 2,040

F. C. Dist. Form 52 4-48

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

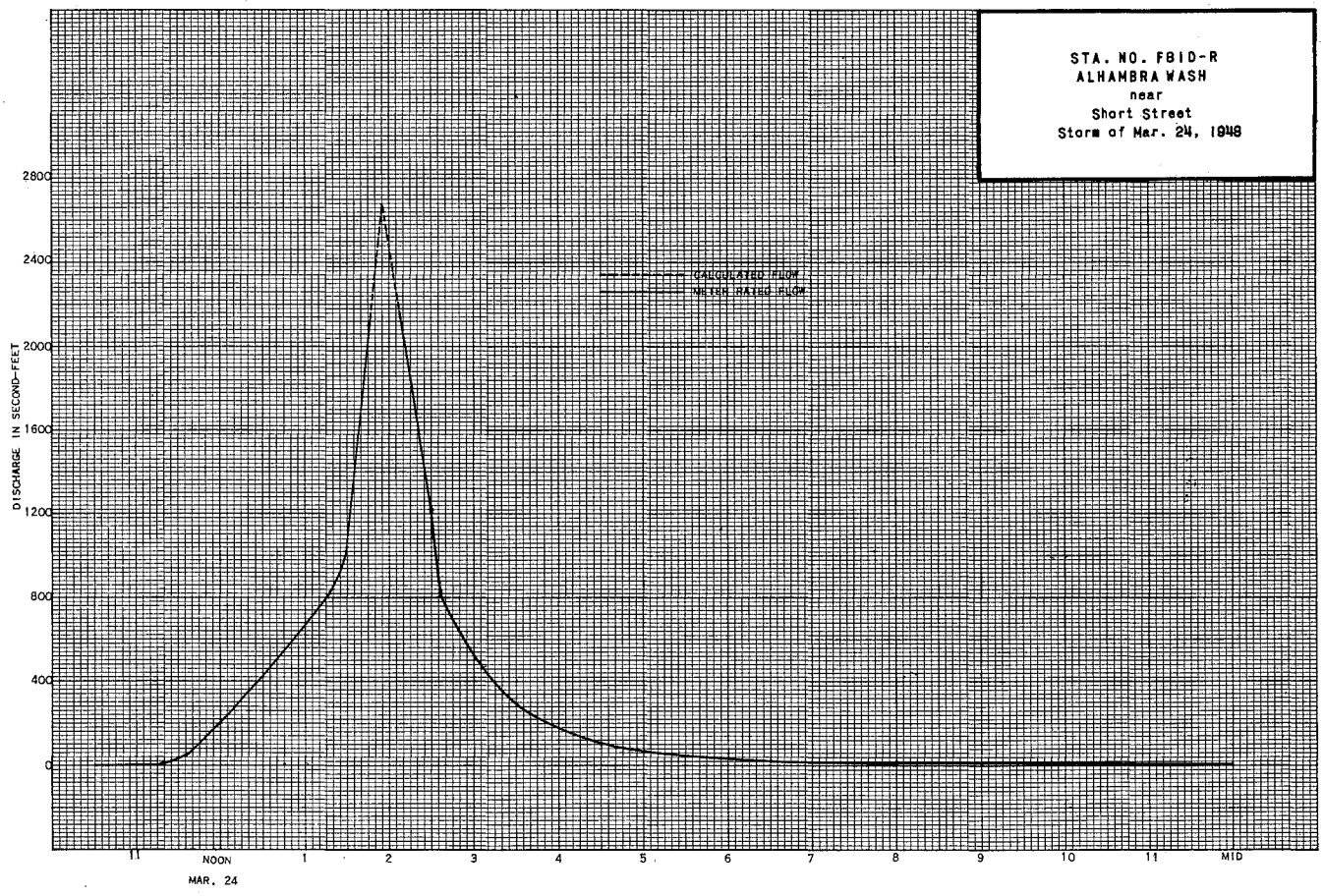
Sta. No. F81D-R

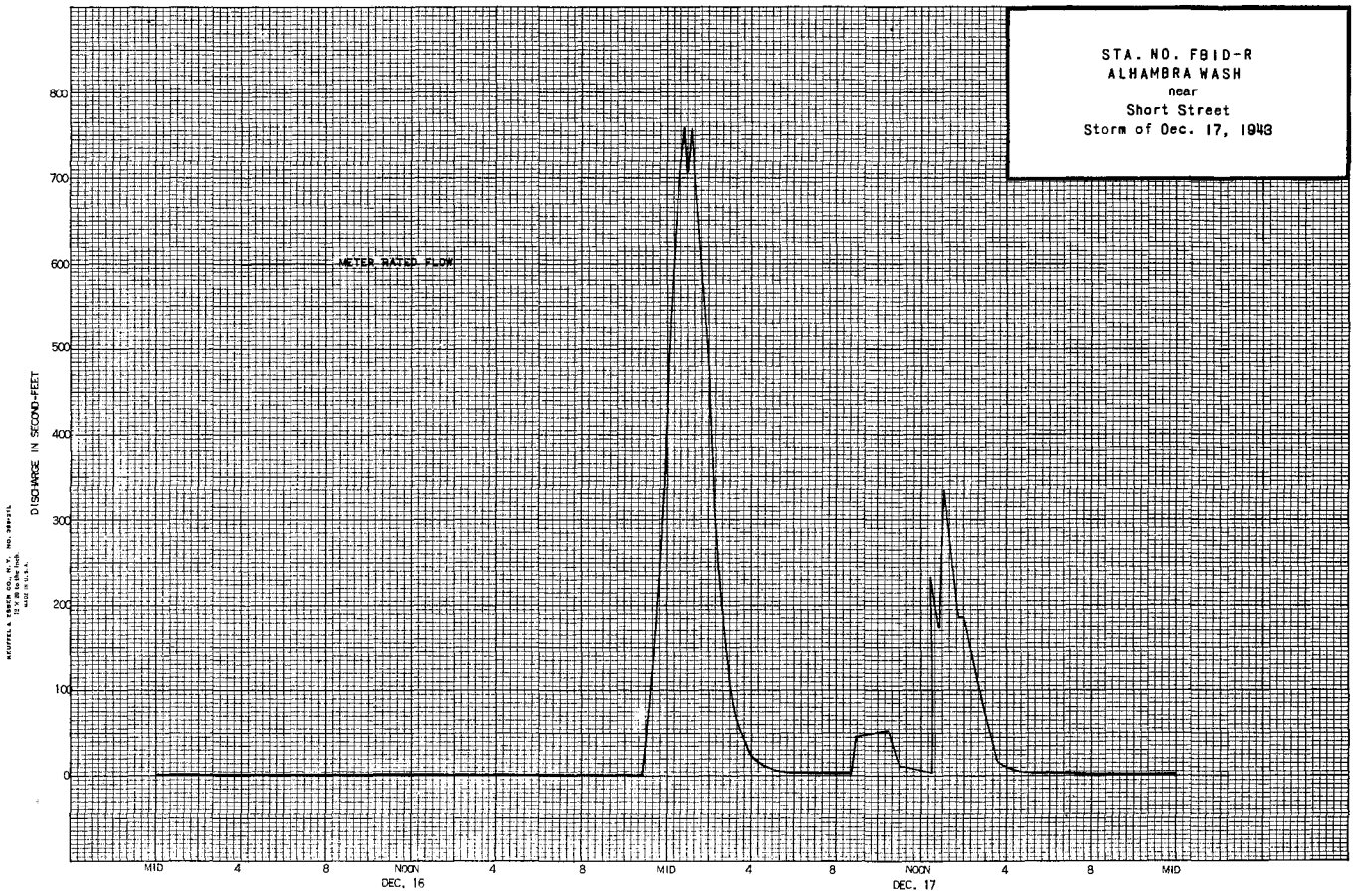
Daily discharge, in second-feet of ALHAMBRA WASH near Short Street for the year ending September 30, 19 49

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.4	0.4	0.9	1.1	0.6	1.4	0.4	0.6	0.4	0.9	0.4	0.4
2	0.9	0.6	0.9	0.9	1.1	1.4	0.4	0.6	0.4	0.9	0.4	0.4
3	0.4	0.6	13.5	0.6	17.0	1.1	0.4	0.9	0.4	0.6	0.3	0.6
4	0.6	0.6	1.1	1.1	1.8	34	0.4	1.1	0.3	0.4	0.3	0.6
5	0.6	0.4	1.1	0.9	1.1	2.1	0.4	1.1	0.3	0.4	0.3	0.9
6	0.9	0.3	1.1	1.4	0.4	0.9	0.3	0.9	0.4	0.4	0.4	0.6
7	0.9	0.3	1.1	1.4	34	4.5	0.4	0.6	0.6	0.4	0.4	0.4
8	0.9	0.3	0.9	1.4	2.3	0.9	0.4	0.6	0.6	0.4	0.6	0.4
9	1.1	0.3	0.6	4.0	1.6	0.6	0.4	0.6	0.6	0.6	0.6	0.6
10	1.1	0.3	0.4	1.4	1.4	24	0.3	0.9	1.4	0.6	0.6	0.6
11	1.4	0.3	0.9	30	17.8	37	0.3	0.9	2.1	0.4	0.6	0.9
12	1.1	0.4	0.9	34	1.4	1.1	0.3	1.1	2.8	0.4	0.6	0.9
13	1.1	0.4	0.9	17.3	1.1	0.9	0.4	1.1	2.8	0.4	0.6	0.9
14	1.1	0.4	1.4	4.0	1.4	0.9	0.4	1.4	4.0	0.4	0.4	0.9
15	1.1	0.9	1.4	0.4	1.4	0.6	0.6	1.4	1.4	0.4	0.6	0.9
16	1.1	1.4	11.8	0.2	1.4	0.4	1.1	1.1	0.9	0.6	0.6	0.9
17	1.1	1.8	9.5	0.3	0.9	0.4	0.9	5.5	0.9	0.4	0.4	0.9
18	1.8	1.6	1.1	0.3	0.9	0.4	0.9	8.9	0.9	0.3	0.4	0.6
19	1.6	1.4	0.9	62	0.9	8.5	1.1	39	0.6	0.4	0.6	0.4
20	1.1	1.4	1.1	58	0.9	1.6	0.9	1.8	0.6	0.4	0.6	0.4
21	1.1	0.6	1.1	1.6	1.1	0.4	0.6	0.6	0.4	0.4	0.6	0.6
22	1.1	1.4	18.5	28	0.4	0.4	0.4	0.6	0.4	0.6	0.4	0.6
23	0.9	1.4	1.1	5.9	0.6	0.4	0.4	0.6	0.4	0.6	0.4	0.6
24	0.9	1.4	1.1	1.4	17.0	0.9	0.4	0.6	0.6	0.6	0.4	0.4
25	0.9	0.9	1.1	1.1	1.8	1.4	0.4	0.4	1.6	0.6	0.4	0.4
26	0.6	1.4	49	1.1	28	0.9	0.6	0.4	a 1.4	0.4	0.4	a 0.4
27	1.4	0.6	37	0.9	3.4	0.6	0.6	0.4	a 1.1	0.4	0.3	a 0.4
28	1.1	0.6	1.4	0.9	1.1	0.6	0.6	0.6	a 0.9	0.4	0.3	0.6
29	1.1	0.3	1.4	0.4		0.6	0.6	0.4	0.9	0.4	0.3	0.6
30	9.4	0.6	1.4	0.6		0.4	0.6	0.4	0.9	0.6	0.3	0.6
31	0.4		1.1	0.6		0.4		0.4		0.6	0.4	
	40.2	23.3	251.2	263.2	142.8	129.7	15.9	75.5	31.0	15.3	13.9	18.4
MEAN	1.30	0.78	8.10	8.49	5.10	4.18	0.53	2.43	1.03	0.49	0.45	0.61
ACRE-FEET	80.	46.	498.	522.	283.	257.	32.	150.	61.	30.	28.	36.

Remarks:

YEAR OR PERIOD MEAN 2.80
ACRE-FEET 2020.





STATION F152-R

ALISO WASH at Nordhoff Street

LOCATION: WATER-STAGE RECORDER, LAT. 34°14'08", LONG. 118°32'52" ON THE CENTER PIER DOWNSTREAM SIDE OF THE HIGHWAY BRIDGE AT NORDHOFF STREET ABOUT ONE MILE NORTHWEST OF NORTHRIDGE AND 3600 FEET WEST OF RESEDA AVENUE. ELEVATION OF ZERO GAGE HEIGHT, 816.12 FEET.

DRAINAGE AREA: 7.61 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - TRAPEZOIDAL SECTION IN CLAY AND SAND; 45 FOOT BOTTOM WIDTH WITH PIPE AND WIRE AT TOE OF SLOPE. CONTROL - CHANNEL FORMS CONTROL. A STABILIZER 153 FEET DOWNSTREAM MAY ACT AS A CONTROL DURING HIGH FLOWS.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM UPSTREAM SIDE OF HIGHWAY BRIDGE.

RECORDER: INSTALLED NOVEMBER 3, 1939, OVER AND 18-INCH CORRUGATED IRON PIPE STILLING WELL. REMOVED FOR BRIDGE REMOVAL AND CHANNEL CONSTRUCTION JULY 15, 1947 AND REINSTALLED AUGUST 31, 1948. AN H.C.F. RECORDER WAS IN SERVICE FROM AUGUST 31, 1948 TO SEPTEMBER 30, 1949.

REGULATION AND/OR DIVERSIONS: NONE.

RECORDS AVAILABLE: NOVEMBER 3, 1939 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:

1947-1948
NO FLOW DURING THIS PERIOD.

1948-1949
MAXIMUM 51 SECOND-FEET, DECEMBER 26.
MINIMUM NO FLOW MOST OF YEAR.

1939-1949
MAXIMUM DISCHARGE NOT DETERMINED, FEBRUARY 20, 1941.
MAXIMUM 1,750 SECOND-FEET, JANUARY 22, 1943.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

DISCHARGE MEASUREMENTS OF ALISO WASH

AT NEAR Nordhoff Street DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH. OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
93	12-17	0755 / 0801	TURNER	6.0	0.98	1.33	1.69	1.3		.5	5	0	FC43
94	1-20	0805 / 0811	"	13.0	2.70	1.81	1.74	4.9		SURF.	7	0	"
95	1-22	1622 / 1625	TURNER - RILEY	3.4	0.32	1.12	1.54	0.36		.5	4	0	"
96	3-3	1332 / 1335	TURNER	2.0	0.11	0.64	1.50	0.07		.5	3	0	"
97	4-14	1445 / 1448	"	2.4	0.51	1.73	1.58	0.88		.5	3	0	"
98	9-8	1315 / 1318	"	1.2	0.21	0.86	1.73	0.18		.5	3	0	"

F. C. Dist. Form 32 4-48

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

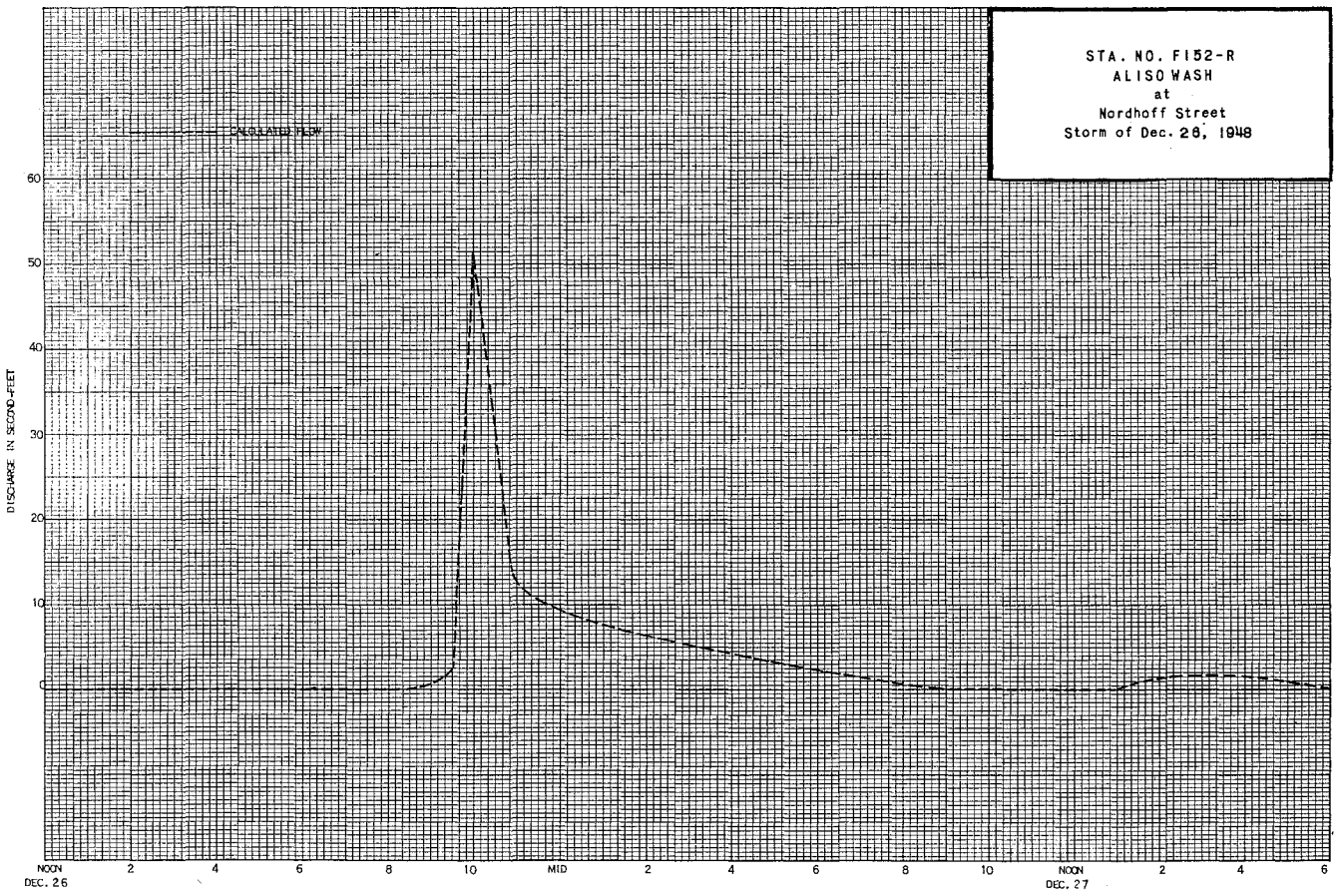
Sta. No. F152-R

Daily discharge, in second-feet of ALISO WASH at Nordhoff Street, for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.2	0	0	0	0	0	0	0	0	0	0
2	0.1	+	+	0	0	0	0	0	0	0	0	0
3	+	+	+	0	0	0.3	0	0	0	0	0	0
4	+	+	0	0	0	0.1	0	0	0	0	0	0
5	0.1	0.1	0	0	0	0	+	0	0	0	0	0
6	0.1	+	+	0	0	0	+	0	0	0	0	0
7	+	+	0	0	+	0	+	0	0	0	0	0
8	0.1	+	0	0	0	0	+	0	0	0	0	0
9	+	+	0	0	0	0	+	0	0	0	0	0.9
10	+	0.1	0.1	0	0	0.2	+	0	0	0	0	0.5
11	+	+	+	0	+	1.5	+	0	0	0	0	+
12	+	+	0	0	0	0	0	0	0	0	0	+
13	+	0.3	+	0	0	0	+	+	0	0	0	+
14	+	0	+	0	0	0	0.1	0	0	0	0	+
15	+	+	0.2	0	0	0	0.1	0	0	0	0	+
16	0.1	0.2	1.0	0	0	0	0.1	0	0	0	0	+
17	+	0	2.7	0	0	0	+	+	0	0	0	0.1
18	0	+	b 0	0	0	0	0.4	0	0	0	0	0.1
19	+	+	0	0.4	0	0	0.2	0	0	0	0	+
20	0	+	0	1.4	0	0	+	0	0	0	0	+
21	+	0	0	0	0	0	+	0	0	0	0	+
22	0.1	0	b 0	0.1	0	0	0.1	0	0	0	0	+
23	+	0.1	0	0	0	0	+	0	0	0	0	+
24	+	+	0	0	0.1	0	+	0	0	0	0	+
25	+	0	0	0	0	0	+	0	0	0	0	+
26	0	+	2.4	0	0.2	0	+	0	0	0	0	+
27	+	0.1	2.0	0	0.1	0	0.8	0	0	0	0	+
28	+	0.2	0	0	+	0	1.0	0	0	0	0	+
29	+	0	0	0		0	0.5	0	0	0	0	+
30	+	0	0	0		0	0	0	0	0	0	+
31	+		0	0		0		0		0	0	
	0.7	1.3	8.4	1.9	0.4	2.1	3.3	+	0	0	0	1.6
MEAN	.023	.043	0.27	.061	.014	.068	0.11	+	0	0	0	0.05
ACRE-FEET	1.4	2.6	17.	3.8	0.8	4.2	6.5	+	0	0	0	3.2

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

YEAR OR PERIOD MEAN 0.05
ACRE-FEET 40.



STATION U1-R

ARROYO SECO above Mouth of Canyon

LOCATION: WATER-STAGE RECORDER AND BROAD-CRESTED WEIR CONTROL. LAT. 34°13'20" LONG. 118°10'40", NEAR NORTH LINE OF SEC. 31, T. 2 N., R. 12 W., 1.5 MI. UPSTREAM FROM MILLARD CANYON AND 5.5 MILES NORTHWEST OF PASADENA. ALTITUDE OF GAGE ABOUT 1,400 FEET.

DRAINAGE AREA: 16.4 SQUARE MILES.

RECORDS AVAILABLE: DECEMBER 1910 TO SEPTEMBER 1949.

AVERAGE DISCHARGE: 32 YEARS (1913-15, 1916-48) - 10.4 SECOND-FEET.
33 " " " " 49 - 10.2 SECOND-FEET.

EXTREMES:
1947-1948
MAXIMUM DISCHARGE 45 SECOND-FEET APRIL 29. (GAGE HEIGHT 1.84 FEET).
MINIMUM DAILY 0.1 SECOND-FOOT, SEPTEMBER 3 TO 11.
1948-1949
MAXIMUM DISCHARGE 35 SECOND-FEET JANUARY 20. (GAGE HEIGHT 1.60 FEET).
MINIMUM DAILY DISCHARGE 0.1 SECOND-FOOT SEVERAL DAYS IN SEPTEMBER.
1910-1949
MAXIMUM DISCHARGE 8,620 SECOND-FEET MARCH 2, 1938 BY SLOPE-AREA METHOD.
PRACTICALLY NO FLOW FOR SEVERAL MONTHS IN MOST YEARS.

REMARKS: RECORDS GOOD, EXCEPT FOR THOSE DAYS OF DOUBTFUL GAGE HEIGHT RECORD, WHICH ARE FAIR. NO DIVERSIONS ABOVE STATION. MINOR REGULATION AT DEBRIS DAM 1.5 MILES UPSTREAM.

COOPERATION: RECORDS FURNISHED BY THE UNITED STATES GEOLOGICAL SURVEY.

DISCHARGE MEASUREMENTS OF ARROYO SECO

~~AT~~ NEAR above Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN	END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	S. MT. DISCHARGE TOTAL	METER NO.
1655	10-1			U.S.G.S.	1.4	0.49	1.33	0.57	0.65		.6	7	0	
1656	10-1	0940	0945	MOON	1.4	0.51	1.24	0.57	0.63		.5	3	0	FC22
1657	10-7			U.S.G.S.	1.5	0.52	1.40	0.58	0.73		.6	8	0	
1658	10-20			"	1.2	0.49	1.29	0.58	0.63		.6	6	0	
1659	10-29			"	1.8	0.66	1.14	0.60	0.75		.6	7	0	
1660	11-3			"	1.7	0.64	1.12	0.59	0.72		.6	6	0	
1661	11-21			"	2.0	0.82	0.98	0.60	0.80		.6	8	0	
1662	12-1			"	2.1	0.80	1.41	0.64	1.13		.5	6	0	
1663	12-5			"	8.7	6.1	1.16	1.04	7.1		.6	18	-.01	
1664	12-16			"	2.0	0.94	1.57	0.67	1.48		.6	8	0	
1665	1-2			"	2.0	1.06	1.42	0.70	1.50		.6	10	0	
1666	1-15			"	2.0	0.97	1.49	0.75	1.45		.6	7	0	
1667	1-21			"	1.9	0.95	1.49	0.75	1.42		.6	8	0	
1668	2-2			"	1.9	0.91	1.43	0.76	1.30		.6	8	0	
1669	2-5			"	3.15	1.44	3.05	0.99	4.39		.5	8	C	
1670	2-6			"	3.3	2.05	4.24	1.22	8.7		.6	10	0	
1671	2-18			"	1.9	1.08	1.92	0.86	2.07		.6	8	0	
1672	3-1			"	1.8	1.06	2.11	0.97	2.24		.6	7	0	
1673	3-17			"	3.1	1.63	3.31	1.20	5.4		.6	7	0	
1674	3-17			"	3.2	1.68	3.21	1.20	5.4		.6	7	0	
1675	3-25			"	13.0	11.2	1.06	1.37	11.9		.6	12	0	
1676	4-1			"	2.9	1.08	2.81	.88	3.02		.6	6	0	
1677	4-13			"	4.7	3.09	0.99	0.96	3.06		.6	14	0	
1678	4-27			"	3.0	1.77	0.98	0.95	1.73		.6	12	0	
1679	5-3			"	3.2	2.46	1.47	0.83	3.61		.6	13	0	
1680	5-18			"	3.1	1.90	0.77	0.72	1.47		.6	12	0	
1681	6-1			"	3.1	1.96	0.76	0.74	1.50		.6	12	.01	
1682	6-18			"	2.8	0.63	2.20	0.70	1.39		.5	8	0	
1683	7-1			"	1.4	0.69	1.48	0.63	1.02		.6	6	0	
1684	7-15			"	1.4	0.54	1.02	0.59	0.55		.6	7	0	
1685	7-29			"	1.4	0.56	0.75	0.57	0.42		.6	7	0	
1686	8-5			"	1.4	0.53	0.74	0.57	0.39		.6	8	0	
1687	8-20			"	1.7	0.65	0.46	0.57	0.30		.6	9	0	
1688	9-1			"	1.7	0.66	0.44	0.55	0.29		.6	9	0	
1689	9-16			"	1.7	0.63	0.40	0.55	0.25		.6	8	0	

DISCHARGE MEASUREMENTS OF ARROYO SECO

~~AT~~ NEAR above Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN	END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	S. MT. DISCHARGE TOTAL	METER NO.
1690	10-1			U.S.G.S.	1.7	.67	.43	.55	.29		.6	7	0	
1691	10-13			"	1.8	.60	.50	.55	.30		.6	7	0	
1692	11-1			"	1.8	.77	.48	.55	.37		.5	10	0	
1693	11-22			"	1.8	.82	.38	.54	.31		.6	9	0	
1694	12-1			"	1.8	.84	.44	.56	.37		.6	9	0	
1695	12-15			"	1.8	.92	5.96	.56	.55		.6	9	0	
1696	12-31			"	5.5	2.08	.66	.61 .67	1.37		.5	11	0	
1697	1-20			"	12.9	14.8	1.41	1.78 1.34	20.9		.6	13	-.03	
1698	2-1			"	9.0	4.91	.44	.72	2.17		.5 .6	18	0	
1699	2-11			"	8.6	3.76	.51	.74	1.91		.6	28	0	
1700	2-27	1450	1502	MOON	18.	10.	1.64	1.26	16.4		.6 .5	9	0	FC22
1701	3-1			U.S.G.S.	10.	9.34	.78	.94	7.28		.6	21	0	
1702	3-16			"	10.	8.69	.54	.99	4.68		.6	20	0	
1703	4-1			"	10.2	8.38	.35	1.05	2.90		.6	19	0	
1704	4-13			"	10.	7.92	.28	.95 .87	2.20		.6	20	0	
1705	5-2			"	2.0	1.25	1.51	.80	1.89		.6	9	0	
1706	5-18			"	9.9	7.43	.31	.86	2.28		.6	25	0	
1707	6-1			"	9.9	8.7	.25	.77	1.67		.6	19	0	
1708	6-14			"	5.8	3.26	.36	.74	1.17		.6	12	0	
1709	7-1			"	5.4	2.55	.29	.57	.73		.5 .6	11	0	
1710	7-18			"	1.7	.724	.45	.55	.328		.5	16	0	
1711	8-1			"	1.7	.719	.32	.53	.228		.5	18	0	
1712	8-16			"	1.7	.742	.32	.54	.235		.5 .6	15	0	
1713	9-1			"	1.75	.676	.21	.52	.140		.5	15	0	
1714	9-1			"				.52	.106	FLUME			0	
1715	9-14			"	1.70	.795	.35	.55	.279		.6	15	0	

F. C. Dist. Form 52 4-48

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U1-R

Daily discharge, in second-feet of ARROYO SECO above Mouth of Canyon, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.7	0.7	1.0	1.5	1.2	2.2	3.1	5.6	1.5	1.0	0.4	0.2
2	0.7	0.7	1.0	1.5	1.2	2.2	3.6	4.6	1.5	0.9	0.4	0.2
3	0.7	0.7	0.9	1.5	1.2	2.2	5.0	3.6	1.5	0.9	0.4	0.1
4	0.7	0.7	1.3	1.5	1.2	2.2	3.8	2.7	1.7	0.9	0.4	0.1
5	0.7	0.7	8.6	1.5	7.3	2.2	3.3	2.4	1.7	0.8	0.4	0.1
6	0.7	0.7	5.4	1.5	8.7	2.2	3.1	2.1	1.7	0.7	0.4	0.1
7	0.8	0.7	2.4	1.5	4.3	2.4	2.9	2.1	1.5	0.7	0.4	0.1
8	0.8	0.7	1.8	1.5	2.7	2.6	2.7	2.0	1.4	0.6	0.4	0.1
9	0.8	0.8	1.7	1.5	2.4	2.7	2.7	1.8	1.4	0.6	0.4	0.1
10	0.8	0.8	1.7	1.5	2.2	2.9	4.8	1.8	1.4	0.5	0.4	0.1
11	0.8	0.8	1.7	1.5	2.2	2.9	3.6	1.8	1.4	0.5	0.4	0.1
12	0.8	0.7	1.5	1.5	2.1	2.9	3.1	1.7	1.4	0.5	0.4	0.2
13	0.8	0.7	1.5	1.5	2.0	4.7	2.7	1.5	1.4	0.5	0.4	0.2
14	0.8	0.8	1.5	1.5	2.0	9.1	2.7	1.4	1.4	0.5	0.4	0.2
15	0.8	0.8	1.5	1.5	2.0	6.4	2.6	1.4	1.4	0.5	0.4	0.2
16	0.8	0.8	1.5	1.4	2.0	3.4	2.4	1.4	1.4	0.5	0.4	0.2
17	0.7	0.8	1.5	1.4	2.0	5.8	2.2	1.5	1.4	0.5	0.3	0.2
18	0.7	0.8	1.5	1.4	2.1	6.4	2.2	1.5	1.2	0.5	0.3	0.2
19	0.6	0.8	1.5	1.4	2.1	4.6	2.6	1.7	1.2	0.5	0.3	0.2
20	0.6	0.8	1.5	1.4	2.2	4.6	2.6	1.7	1.2	0.5	0.3	0.2
21	0.6	0.8	1.5	1.4	2.2	3.8	2.7	1.8	1.2	0.5	0.3	0.3
22	0.6	0.8	1.4	1.4	2.2	3.3	2.9	1.8	1.2	0.4	0.3	0.3
23	0.6	0.8	1.4	1.4	2.1	2.9	2.6	1.8	1.2	0.4	0.3	0.3
24	0.6	0.8	1.4	1.4	2.1	5.9	2.2	1.8	1.2	0.4	0.3	0.3
25	0.6	0.8	1.2	1.2	2.0	11	2.0	1.8	1.1	0.4	0.3	0.3
26	0.6	0.8	1.2	1.2	2.0	9.0	1.8	1.8	1.1	0.4	0.3	0.3
27	0.6	0.8	1.2	1.2	2.0	4.7	1.7	1.8	1.0	0.4	0.3	0.2
28	0.6	0.8	1.4	1.2	2.4	3.6	3.2	1.7	1.0	0.4	0.3	0.2
29	0.7	0.8	1.4	1.2	2.4	3.4	32	1.5	1.0	0.4	0.3	0.2
30	0.8	0.9	1.4	1.2		3.3	8.5	1.5	1.0	0.4	0.2	0.2
31	0.8		1.5	1.2		3.1		1.5		0.4	0.2	
	21.9	23.1	56.0	43.5	72.5	128.6	121.3	63.1	39.7	17.1	10.7	5.7
MEAN	0.71	0.77	1.81	1.40	2.50	4.15	4.04	2.04	1.32	0.55	0.35	0.19
ACRE-FEET	43	46	111	86	144	255	241	125	79	34	21	11

Remarks:

YEAR OR PERIOD MEAN 1.65
ACRE-FEET 1,200

F. C. Dist. Form 52 4-48

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U1-R

Daily discharge, in second-feet of Arroyo Seco above Mouth of Canyon, for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.3	0.4	1.2	2.2	7.2	3.0	1.8	1.7	0.8	0.3	0.2
2	0.2	0.3	0.4	1.2	2.1	6.5	3.0	1.9	1.9	0.7	0.2	0.2
3	0.2	0.3	0.4	1.1	2.1	6.7	2.9	2.1	1.9	0.7	0.2	0.2
4	0.2	0.3	0.5	1.2	1.9	7.3	2.3	1.9	1.9	0.7	0.2	0.2
5	0.2	0.3	0.5	1.2	1.9	11	2.3	1.7	1.8	0.7	0.3	0.2
6	0.2	0.3	0.4	1.1	1.9	8.9	2.3	1.6	2.1	0.7	0.3	0.2
7	0.2	0.3	0.4	1.0	2.3	8.0	2.3	1.6	1.9	0.7	0.3	0.1
8	0.2	0.3	0.4	1.0	2.6	7.5	2.3	1.7	1.9	0.5	0.3	0.2
9	0.3	0.3	0.4	1.6	2.2	7.2	2.3	1.9	1.9	0.6	0.3	0.2
10	0.3	0.3	0.4	1.7	1.9	7.2	2.3	1.9	1.8	0.6	0.3	0.2
11	0.3	0.3	0.4	2.1	2.8	13	2.3	1.9	1.7	0.6	0.3	0.2
12	0.3	0.3	0.5	2.3	5.2	7.5	2.3	1.9	1.7	0.5	0.3	0.3
13	0.3	0.3	0.6	2.5	4.1	5.5	2.2	2.1	1.6	0.4	0.3	0.2
14	0.3	0.3	0.6	2.6	3.5	4.9	2.5	2.2	1.3	0.4	0.3	0.2
15	0.3	0.3	0.6	2.6	3.0	4.7	2.5	2.1	1.2	0.4	0.3	0.2
16	0.3	0.3	0.7	3.1	2.6	4.7	2.4	2.1	1.0	0.4	0.3	0.2
17	0.3	0.3	2.2	3.1	2.6	4.7	2.3	2.1	0.9	0.4	0.3	0.2
18	0.3	0.4	1.4	3.3	2.5	4.9	2.3	2.5	0.8	0.3	0.2	0.2
19	0.3	0.3	1.3	3.9	2.5	5.9	2.5	12	0.7	0.3	0.2	0.2
20	0.3	0.3	1.6	2.2	2.5	7.0	2.2	5.6	0.6	0.3	0.2	0.2
21	0.3	0.3	1.6	9.3	2.5	4.9	1.9	3.1	0.5	0.3	0.2	0.2
22	0.3	0.3	1.6	5.5	2.3	4.5	1.7	2.3	0.5	0.3	0.2	0.1
23	0.3	0.3	1.6	5.5	2.2	4.1	1.7	1.8	0.6	0.3	0.2	0.1
24	0.2	0.4	1.4	4.3	3.6	4.3	1.6	1.4	0.7	0.3	0.2	0.1
25	0.3	0.4	1.4	3.9	5.8	4.3	1.4	1.3	0.7	0.3	0.2	0.1
26	0.3	0.4	1.4	3.3	5.6	3.9	1.4	1.3	0.8	0.4	0.2	0.2
27	0.3	0.4	1.7	3.0	14	3.7	1.6	1.3	0.9	0.3	0.2	0.2
28	0.4	0.4	1.6	2.6	9.4	3.5	1.6	1.4	0.9	0.4	0.2	0.2
29	0.4	0.4	1.4	2.3		3.0	1.6	1.4	0.9	0.4	0.2	0.1
30	0.4	0.4	1.4	2.2		3.0	1.7	1.4	0.8	0.4	0.2	0.1
31	0.4		1.4	2.2		3.1		1.6		0.3	0.2	
	8.8	9.8	30.6	103.9	97.8	182.6	64.7	70.9	37.6	14.4	7.6	5.4
MEAN	0.28	0.33	0.99	3.35	3.49	5.89	2.16	2.29	1.25	0.46	0.25	0.18
ACRE-FEET	17.	19.	61.	206.	194.	362.	128.	141.	75.	29.	15.	11.

Remarks:

YEAR OR PERIOD MEAN 1.74
ACRE-FEET 1,260

STATION P277-R
ARROYO SECO below Devil's Gate Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°10'53", LONG. 118°10'21" ON THE LEFT (EAST) SIDE OF THE CHANNEL ABOUT 0.5 MILE BELOW DEVIL'S GATE DAM AND ABOUT 0.5 MILE ABOVE WASHINGTON STREET, PASADENA. ELEVATION OF GAGE ABOUT 926 FEET.

DRAINAGE AREA: 32.6 SQUARE MILES.

CHANNEL AND CONTROL: NATURAL CHANNEL OF ROCK AND SAND FROM DEVIL'S GATE DAM TO THE STATION AT INTAKE STRUCTURE TO IMPROVED CHANNEL WHERE AN OGEE SECTION 80.2 FEET WIDE AND 18 FEET HIGH WITH A RECTANGULAR BROAD-CRESTED WEIR 14.2 FEET WIDE AND 2.0 FEET HIGH FORMS THE CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM WASHINGTON STREET BRIDGE ABOUT 0.5 MILE BELOW STATION.

RECORDER: INSTALLED NOVEMBER 30, 1942, OVER A 32-INCH DIAMETER STILLING WELL. AN H.C.F. RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: FLOW REGULATED BY DEVIL'S GATE DAM AND PASADENA WATER DEPARTMENT'S GATED DIVERSION INTO CHANNEL ABOVE STATION.

DIVERSIONS: PASADENA WATER DEPARTMENT DIVERTS FLOW APPROXIMATELY TWO MILES ABOVE DEVIL'S GATE DAM FOR DOMESTIC USE. FLOW MAY BE DIVERTED TO CHANNEL BETWEEN DEVIL'S GATE DAM AND STATION FROM PASADENA WATER DEPARTMENT TUNNEL.

RECORDS AVAILABLE: NOVEMBER 30, 1942 TO SEPTEMBER 30, 1949. RECORDS PRIOR TO NOVEMBER 30, 1942 ARE AVAILABLE AT THE PASADENA WATER DEPARTMENT.

EXTREMES OF DISCHARGE:

1947-1948
MAXIMUM 1.6 SECOND-FEET SEVERAL DAYS IN APRIL.
MINIMUM NO FLOW MOST OF YEAR.

1948-1949
MAXIMUM 1.7 SECOND-FEET JUNE 13.
MINIMUM NO FLOW MOST OF YEAR.

1942-1949
MAXIMUM 5640 SECOND-FEET, JANUARY 23, 1943.
MINIMUM NO FLOW.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE PASADENA WATER DEPARTMENT JANUARY 1940. THE OPERATION TAKEN OVER BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT NOVEMBER 30, 1942, IN COOPERATION WITH THE PASADENA WATER DEPARTMENT

DISCHARGE MEASUREMENTS OF ARROYO SECO

~~AT~~ NEAR below Devil's Gate Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
235	4-6	1417 / 1420	MOON	2.5	0.77	2.08	0.07	1.6		.5	3	0	FC22
236	4-8	1600 / 1605	"	2.5	0.75	2.13	0.07	1.6		.5	3	0	"
237	4-14	0904 / 0909	"	2.5	0.75	2.13	0.07	1.6		.5	3	0	"
238	8-25	0830 / 0835	"	1.5	0.11	0.91		0.10		.5	4		"
239	9-2	1115 / 1118	MOON - LYNN	1.0	0.03	0.67		0.02		FLOAT	2		"

DISCHARGE MEASUREMENTS OF ARROYO SECO

~~AT~~ NEAR below Devil's Gate Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
240	6-3	1650 / 1655	MOON	2.5	0.18	2.16	0.07	0.39		SURF.	4	0	FC22
241	6-7	0936 / 0940	"	3.0	0.52	1.62	0.08	0.84		.5	5	0	"
242	6-9	1140 / 1145	"	3.0	0.50	1.64	0.08	0.82		.5	4	0	"

F. C. Dist. Form 52 2-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. P277-R

Daily discharge, in second-feet of ARROYO SECO below Devil's Gate Dam, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0.1	0	0	0	0	0
4	0	0	0	0	0	0	0.2	0	0	0	0	0
5	0	0	0	0	0	0	0.7	0	0	0	0	0
6	0	0	0	0	0	0	1.6	0	0	0	0	0
7	0	0	0	0	0	0	1.6	0	0	0	0	0
8	0	0	0	0	0	0	1.6	0	0	0	0	0
9	0	0	0	0	0	0	1.6	0	0	0	0	0
10	0	0	0	0	0	0	1.6	0	0	0	0	0
11	0	0	0	0	0	0	1.6	0	0	0	0	0
12	0	0	0	0	0	0	1.6	0	0	0	0	0
13	0	0	0	0	0	0	1.6	0	0	0	0	0
14	0	0	0	0	0	0	1.6	0	0	0	0.1	0
15	0	0	0	0	0	0	1.6	0	0	0	0.1	0
16	0	0	0	0	0	0	1.6	0	0	0	0.1	0
17	0	0	0	0	0	0	1.6	0	0	0	0.1	0
18	0	0	0	0	0	0	1.6	0	0	0	0.1	0
19	0	0	0	0	0	0	1.6	0	0	0	0.1	0
20	0	0	0	0	0	0	0.5	0	0	0	0.1	0
21	0	0	0	0	0	0	0.1	0	0	0	0.1	0
22	0	0	0	0	0	0	0.1	0	0	0	0.1	0
23	0	0	0	0	0	0	0.1	0	0	0	0.1	0
24	0	0	0	0	0	0	0.1	0	0	0	0.1	0
25	0	0	0	0	0	0	0	0	0	0	0.1	0
26	0	0	0	0	0	0	0	0	0	0	0.1	0
27	0	0	0	0	0	0	0	0	0	0	0.1	0
28	0	0	0	0	0	0	0	0	0	0	0.1	0
29	0	0	0	0	0	0	0	0	0	0	0.1	0
30	0	0	0	0		0	0	0	0	0	0.1	0
31	0		0	0		0		0		0	0.1	
	0	0	0	0	0	0	24.3	0	0	0	1.8	0
MEAN	0	0	0	0	0	0	0.81	0	0	0	0.06	0
ACRE-FEET	0	0	0	0	0	0	48.	0	0	0	3.6	0

Remarks:

YEAR OR PERIOD MEAN 0.07
ACRE-FEET 52.

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. P277-R

Daily discharge, in second-feet of ARROYO SECO below Devil's Gate Dam, for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0.4	0	0	0
4	0	0	0	0	0	0	0	0	d 0.5	0	0	0
5	0	0	0	0	0	0	0	0	d 0.6	0	0	0
6	0	0	0	0	0	0	0	0	d 0.7	0	0	0
7	0	0	0	0	0	0	0	0	0.8	0	0	0
8	0	0	0	0	0	0	0	0	d 0.8	0	0	0
9	0	0	0	0	0	0	0	0	0.8	0	0	0
10	0	0	0	0	0	0	0	0	d 0.8	0	0	0
11	0	0	0	0	0	0	0	0	1.0	0	0	0
12	0	0	0	0	0	0	0	0	1.2	0	0	0
13	0	0	0	0	0	0	0	0	d 1.3	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	0	0	0	0	0	0	8.9	0	0	0
MEAN	0	0	0	0	0	0	0	0	0.30	0	0	0
ACRE-FEET	0	0	0	0	0	0	0	0	18.	0	0	0

Remarks:

YEAR OR PERIOD MEAN .024
ACRE-FEET 18.

STATION F38B-R

BALLONA CREEK at Sawtelle Boulevard

LOCATION: WATER-STAGE RECORDER, LAT. 38°59'48", LONG. 118°24'07", ON THE DOWNSTREAM SIDE OF SAWTELLE BOULEVARD BRIDGE, ABOUT 1.5 MILES SOUTH OF CULVER CITY. ELEVATION OF ZERO GAGE HEIGHT, 11.26 FEET. FORMER STATION F38-R WAS AT CENTINELA BOULEVARD, 1 MILE DOWNSTREAM.

DRAINAGE AREA: 111 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - HEAVY ADOBE OVERLAID WITH COARSE GRAVEL AND SAND, WITH ROCK-PAVED LEVEES ON A 3 TO 1 SLOPE. CONTROL - A CONCRETE STABILIZER WAS INSTALLED DECEMBER 23, 1946 ABOUT 30 FEET BELOW STATION.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM CABLE CAR 300 FEET ABOVE STATION.

RECORDER: INSTALLED AT STATION F38-R FEBRUARY 27, 1928. RECORDER REMOVED APRIL 27, 1936. INSTALLED AT STATION F38B-R MAY 14, 1936 OVER AN 18-INCH DIAMETER CORRUGATED IRON PIPE STILLING WELL. AN AU CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: STONE CANYON RESERVOIR, UPPER AND LOWER FRANKLIN CANYON RESERVOIRS, HOLLYWOOD RESERVOIR AND SILVER LAKE RESERVOIR.

DIVERSIONS: SOME SMALL PUMPING DIVERSIONS FOR IRRIGATION.

RECORDS AVAILABLE: AT STATION F38-R - FEBRUARY 27, 1828 TO APRIL 27, 1936. AT STATION F38B-R - MAY 14, 1936 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:

1947-1948
MAXIMUM 1271O SECOND-FEET, MARCH 24.
MINIMUM 0.7 SECOND-FEET MAY 19 AND JULY 24.

1948-1949
MAXIMUM 5740 SECOND-FEET, FEBRUARY 7.
MINIMUM PLUS FLOW ON OCTOBER 7.

1928-1949 (STATIONS F38-R AND F38B-R)
MAXIMUM 19,000 SECOND-FEET, MARCH 2, 1938.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD.

OPERATION: LOCATED AND CONSTRUCTED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT AND OPERATED IN COOPERATION WITH THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY AND WITH THE U.S.G.S. WATER RESOURCES BRANCH.

DISCHARGE MEASUREMENTS OF BALLONA CREEK

AT NEAR Sawtelle Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 1948

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
980	10-2	0918 / 0926	BOLLINGER	5.5	4.41	1.04	1.90	4.6		.6	7	0	FC6
981	10-9	0858 / 0906	"	5.5	4.81	1.52	1.94	7.3		.6	7	0	"
982	10-16	0958 / 1005	"	6.0	4.78	1.09	1.89	5.2		.6	8	0	"
983	10-23	1118 / 1126	"	6.0	4.78	1.00	1.90	4.8		.6	7	0	"
984	10-30	1038 / 1045	"	5.5	4.91	1.40	1.93	6.9		.6	7	0	"
985	11-6	0914 / 0921	"	5.2	4.62	1.34	1.92	6.2		.6	6	0	"
986	11-13	1439 / 1446	"	5.8	4.84	1.14	1.89	5.5		.6	8	0	"
987	11-20	0924 / 0935	"	6.0	5.17	1.12	1.90	5.8		.6	9	0	"
988	12-1	1418 / 1433	"	31.0	23.0	1.54	2.10	35.4		.6	13	0	"
989	12-4	1040 / 1108	"	89.0	273.	2.97	4.47	811.		.6	13	-1.02	"
990	12-5	0143 / 0204	BOLLINGER - PAULL	90.0	291.	4.84	5.38	1410.		.6	12	-0.85	"
991	12-11	1605 / 1613	BOLLINGER	7.4	7.67	1.88	1.94	14.4		.6	8	+0.01	"
992	12-18	1512 / 1520	"	6.7	5.08	1.26	1.85	6.4		.6	8	0	"
993	12-26	1052 / 1100	"	6.2	3.45	0.87	1.81	3.0		.6	7	0	"
994	12-31	1453 / 1503	"	6.7	4.96	0.79	1.82	3.9		.6	8	0	"
995	1-8	0934 / 0945	"	8.7	9.70	0.88	1.88	8.5		.6	10	0	"
996	1-15	1000 / 1010	"	6.5	4.49	0.82	1.85	3.7		.6	6	0	"
997	1-22	0955 / 1005	"	6.0	4.90	0.84	1.88	4.1		.6	10	0	"
998	1-29	1000 / 1011	"	6.5	4.70	0.87	1.87	4.1		.6	12	0	"
999	2-5	0800 / 0830	BOLLINGER - PAULL	75.0	170.	3.21	3.75	546.		.6	13	-0.45	"
1000	2-6	0940 / 0956	"	75.0	141.	2.72	3.27	383.		.6	13	-0.16	"
1001	2-13	1118 / 1125	BOLLINGER	6.5	5.79	0.52	1.84	3.0		.6	7	0	"
1002	2-19	0950 / 0959	"	5.5	1.62	1.92	1.83	3.1		.6	7	0	"
1003	2-26	0905 / 0915	"	7.5	2.80	1.46	1.86	4.1		.6	8	-0.01	"
1004	3-4	1602 / 1612	"	12.0	6.96	0.67	1.88	4.7		.6	11	0	"
1005	3-11	1140 / 1146	"	5.8	2.81	0.71	1.82	2.0		.6	7	-.01	"
1006	3-17	0305 / 0335	BOLLINGER - PAULL	85.0	286.	5.94	5.80	1700.		.6	16	-1.27	"
1007	3-17	1326 / 1336	"	7.0	8.02	2.04	1.99	16.4		.6	8	-0.01	"
1008	3-18	1610 / 1616	BOLLINGER	8.5	10.3	0.67	1.88	6.9		.6	8	0	"
1009	3-25	1133 / 1143	"	17.0	8.07	1.24	1.90	10.0		.6	10	0	"
1010	4-1	1100 / 1108	"	7.5	2.27	1.01	1.80	2.3		.6	6	0	"
1011	4-8	1038 / 1048	"	14.0	6.58	0.70	1.86	4.6		.6	8	0	"
1012	4-13	0953 / 1000	"	12.0	3.48	0.86	1.85	3.0		.6	8	0	"
1013	4-22	0956 / 1006	"	12.5	4.73	1.12	1.90	5.3		.6	12	0	"
1014	4-29	0930 / 0940	"	13.0	10.3	1.55	1.96	16.0		.6	10	0	"
1015	5-6	0945 / 0954	"	7.9	3.05	1.21	1.84	3.7		.6	8	0	"
1016	5-13	0921 / 0933	"	10.6	3.70	1.22	1.87	4.5		.6	11	0	"
1017	5-20	0950 / 1000	"	11.0	4.14	1.40	1.91	5.8		.6	10	0	"
1018	5-27	1010 / 1017	"	9.5	2.89	0.76	1.84	2.2		.6	9	0	"
1019	6-2	0658 / 0718	"	90.0	164.	2.42	2.92	397.		.6	10	-0.09	"
1020	6-4	1120 / 1130	"	7.5	7.64	0.58	1.87	4.4		.6	8	0	"
1021	6-10	1422 / 1438	"	10.0	4.27	1.12	1.89	4.8		.6	9	0	"
1022	6-17	0935 / 0947	"	9.5	3.85	1.06	1.87	4.1		.6	8	0	"
1023	6-24	0949 / 1000	"	15.0	7.04	0.81	1.90	5.7		.6	13	0	"
1024	6-30	1210 / 1220	"	10.0	4.51	0.73	1.88	3.3		.6	10	0	"
1025	7-8	0950 / 1000	"	10.5	6.27	0.78	1.93	4.9		.6	10	0	"
1026	7-14	1230 / 1240	BLAKELY	15.0	6.27	0.67	1.94	5.5		.6	9	0	FC35
1027	7-21	1215 / 1223	"	10.6	7.37	0.79	1.92	5.1		.6	7	0	"
1028	7-28	1230 / 1236	"	12.0	5.74	0.45	1.88	2.6		.6 / .5	7	0	"
1029	8-5	1117 / 1124	BOLLINGER	11.7	7.34	0.76	1.95	5.6		.6	9	0	FC6
1030	8-12	0915 / 0924	"	10.5	4.26	0.61	1.91	2.6		.6	9	0	"
1031	8-19	0953 / 1004	"	13.0	7.15	0.69	1.90	4.9		.6	11	0	"
1032	8-26	1122 / 1137	"	13.5	10.3	0.66	1.95	6.8		.6	12	0	"
1033	9-2	1043 / 1057	"	12.5	8.30	0.82	1.95	6.8		.6	13	0	"
1034	9-8	1045 / 1100	"	11.0	6.69	0.67	1.93	4.5		.6	11	0	"
1035	9-15	1030 / 1039	"	12.0	6.77	0.69	1.88	4.7		.6	9	0	"
1036	9-23	1113 / 1125	"	11.5	5.53	0.60	1.86	3.3		.6	11	0	"
1037	9-30	1228 / 1238	"	8.5	3.81	0.94	1.88	3.6		.6	8	0	"

DISCHARGE MEASUREMENTS OF BALLONA CREEK

AT Sawtelle Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 1949

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1038	10-7	1008 / 1020	BOLLINGER	10.5	7.67	0.64	1.91	4.9		.6	10	0	FC6
1039	10-14	0920 / 0933	"	12.0	8.56	0.62	1.90	5.3		.6	11	0	"
1040	10-18	0715 / 0732	"	21.5	40.8	1.61	2.32	65.7		.6	10	-.01	"
1041	10-21	1454 / 1503	"	7.1	6.44	1.37	1.92	8.8		.6	8	0	"
1042	10-28	1618 / 1628	"	5.7	5.91	1.29	1.92	7.6		.6	8	+.01	"
1043	11-4	1413 / 1423	"	10.5	5.34	0.96	1.69	5.1		.6	11	0	"
1044	11-12	1613 / 1625	"	12.5	14.1	0.96	2.00	13.5		.6	12	0	"
1045	11-18	1613 / 1626	"	11.5	10.4	0.78	1.95	8.1		.6	11	0	"
1046	11-24	1127 / 1140	"	7.0	7.09	0.81	1.91	5.7		.6	9	0	"
1047	12-2	1427 / 1437	"	7.0	6.04	0.56	1.87	3.4		.6	7	0	"
1048	12-9	1613 / 1625	"	10.0	10.7	0.82	1.94	8.9		.6	10	0	"
1049	12-9	1630 / 1642	"	10.0	7.79	1.13	1.94	8.8		.6	10	0	"
1050	12-16	1210 / 1218	"	9.0	3.57	1.29	1.89	4.6		.6	8	0	"
1051	12-23	1240 / 1256	"	9.6	12.3	0.80	1.92	9.9		.6	10	0	"
1052	12-26	2213 / 2250	"	91.0	351.	5.58	6.58	1960.		.6	14	-1.03	"
1053	12-27	1102 / 1124	"	71.0	175.	2.24	3.26	392.		.6	11	-.08	"
1054	12-30	1015 / 1026	"	12.2	10.9	0.45	1.85	4.9		.6	10	+.01	"
1055	1-6	1238 / 1248	"	8.5	5.76	1.18	1.89	6.8		.6	8	0	"
1056	1-12, 13	2348 / 0008	BOLLINGER - DIAS	80.6	232.	4.70	5.05	1090.		.6	14	-.56	"
1057	1-13	0708 / 0720	" "	76.0	168.	3.46	4.01	577		.6	13	-.07	"
1058	1-19	2215 / 2247	" "	92.0	340.	6.59	6.58	2240.		.6	19	+.20	"
1059	1-20	1402 / 1423	DIAS - BOLLINGER	28.0	40.3	1.40	2.32	56.6		.6	16	-.05	"
1060	1-22	1440 / 1518	" "	87.5	299.	6.22	5.85	1860.		.6	17	+.90	"
1061	1-22	1543 / 1611	" "	82.0	252.	5.36	5.39	1350.		.6	17	+1.05	"
1062	1-27	1033 / 1044	BOLLINGER	7.7	4.85	0.87	1.86	4.2		.6	8	-.01	"
1063	2-3	1010 / 1038	BOLLINGER - DIAS	93.0	380.	7.16	6.85	2720.		.6	15	+.90	"
1064	2-3	1057 / 1116	" "	94.0	387.	6.18	7.19	2390.		.6	17	-.68	"
1065	2-3	1210 / 1226	DIAS - BOLLINGER	78.0	188.	3.70	4.43	695.		.6	14	-.40	"
1066	2-7	1022 / 1024	BOLLINGER - DIAS	113.0	698.	8.12	10.35	5670.		FLOATS 5		0	"
1067	2-7	1044 / 1101	DIAS - BOLLINGER	104.0	433.	7.11	8.30	3080.		.6	15	+1.19	FC6
1068	2-10	1005 / 1018	BOLLINGER	4.5	2.18	2.06	1.85	4.5		.6	8	0	"
1069	2-17	1535 / 1545	DIAS - BOLLINGER	8.2	5.50	1.02	1.87	5.6		.6	11	0	"
1070	2-24	1323 / 1338	" "	78.0	194.	3.54	4.24	687.		.6	12	0.18	"
1071	3-3	0958 / 1014	BOLLINGER	16.5	19.8	0.87	2.00	17.3		.6	13	-.01	"
1072	3-4	1547 / 1604	DIAS - BOLLINGER	81.0	235.	4.68	5.02	1100.		.6	12	+0.48	"
1073	3-10	0927 / 0938	" "	6.7	3.14	0.96	1.84	3.0		.6	7	+0.01	"
1074	3-10,11	2340 / 0008	" "	97.0	461.	6.98	7.56	3220.		.6	13	+0.78	"
1075	3-17	1730 / 1743	BOLLINGER	15.2	7.57	0.83	1.89	6.3		.6	11	+0.01	"
1076	3-24	1330 / 1342	"	8.2	3.92	0.87	1.84	3.4		.6	9	0	"
1077	3-31	1350 / 1400	"	7.5	3.51	0.63	1.84	2.2		.6	8	0	"
1078	4-7	1055 / 1105	"	7.6	3.70	0.51	1.82	1.9		.6	8	0	"
1079	4-14	1314 / 1324	BOLLINGER - LANG	8.0	3.97	0.73	1.77	2.9		.6	8	0	"
1080	4-18	1348 / 1400	BOLLINGER	8.0	4.47	0.87	1.83	3.9		.6	8	0	"
1081	4-21	1538 / 1550	"	8.5	5.96	1.33	1.27	7.9		.6	9	0	"
1082	4-28	0935 / 0948	"	8.0	4.49	0.78	0.92	3.5		.6	8	0	"
1083	5-5	1325 / 1336	"	7.8	4.55	0.90	0.94	4.1		.6	8	+0.02	"
1084	5-11	1640 / 1648	"	8.0	5.15	1.09	1.16	5.6		.6	8	0	"
1085	5-18	1640 / 1650	"	7.5	5.51	1.42	1.44	7.8		.6	7	0	"
1086	5-19	1557 / 1612	"	21.0	52.8	1.08	2.35	56.8		.6	11	-0.01	"
1087	5-25	1048 / 1056	BLAKELY	10.3	8.79	0.67	1.21	5.9		.6	6	0	FC35
1088	6-2	1050 / 1100	BOLLINGER	8.0	4.49	0.82	1.16	3.7		.6	8	0	FC6
1089	6-9	1640 / 1652	"	7.5	6.44	1.32	1.87	8.5		.6	8	+0.01	"
1090	6-16	1338 / 1350	"	8.5	4.85	1.13	1.84	5.5		.6	8	0	"
1091	6-23	1627 / 1642	"	9.5	6.59	1.40	1.99	9.2		.6	9	0	"
1092	6-30	1407 / 1420	"	8.2	5.00	0.96	1.55	4.8		.6	8	0	"
1093	7-7	1105 / 1117	"	6.2	5.34	1.05	1.86	5.6		.6	7	0	"
1094	7-14	1132 / 1136	BLAKELY	8.5	5.36	0.91	1.87	4.9		.6	5	0	FC35
1095	7-20	1158 / 1205	"	7.0	5.27	1.08	1.86	5.7		.6	7	0	"
1096	7-28	1400 / 1412	BOLLINGER	8.5	8.72	0.41	1.81	3.6		.6	9	0	FC6
1097	8-4	1643 / 1655	"	11.5	14.8	0.59	1.80	8.8		.6	9	0	"
1098	8-11	1035 / 1048	"	5.4	3.85	0.73	1.38	2.8		.6	8	0	"
1099	8-18	1458 / 1515	"	5.5	6.12	1.14	1.87	7.0		.6	11	0	"
2000	8-25	1032 / 1040	"	6.0	5.18	0.98	1.82	5.1		.6	6	0	"
2001	9-1	1508 / 1520	"	5.1	4.70	0.85	1.80	4.0		.6	9	0	"
2002	9-8	0900 / 0910	"	5.0	5.11	1.21	1.85	6.2		.6	8	0	"
2003	9-14	1510 / 1518	"	5.0	3.81	0.68	1.57	2.6		.6	7	0	"
2004	9-22	1115 / 1127	BOLLINGER - REINHARD	5.5	5.15	0.97	1.66	5.0		.6	9	0	"
2005	9-29	1123 / 1136	BOLLINGER	4.5	4.04	0.97	1.80	3.9		.6	8	0	"

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F388-R

Daily discharge, in second-feet of BALLONA CREEK at Sawtelle Boulevard for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.0	8.0	68	6.3	4.9	4.9	7.0	5.6	14	9.0	5.6	9.0
2	5.6	5.6	10	7.0	4.9	4.2	8.9	4.2	118	6.3	8.0	11
3	7.0	7.0	10	8.0	5.6	4.2	6.1	4.9	7.0	6.3	8.0	12
4	6.3	8.0	384	4.2	6.3	3.5	4.2	7.0	8.0	7.0	8.0	7.0
5	4.9	7.0	406	5.6	577	6.3	11	8.0	6.3	6.3	4.9	5.6
6	7.0	7.0	79	6.3	261	5.6	54	10	6.3	8.0	7.0	6.3
7	10	8.0	4.2	8.0	9.0	3.5	8.0	8.0	7.0	6.3	5.6	6.3
8	9.0	10	5.6	8.0	5.6	4.9	8.0	5.6	6.3	8.0	3.5	6.3
9	10	7.0	4.9	7.0	4.9	5.6	7.0	7.0	5.6	12	8.0	9.0
10	10	8.0	4.9	7.0	4.9	5.6	4.7	8.0	6.3	12	6.3	5.6
11	11	8.0	10	5.6	4.2	4.9	5.6	8.0	8.0	9.0	5.6	4.9
12	7.0	12	8.0	8.0	4.9	6.3	3.5	6.3	7.0	18	3.5	5.6
13	9.0	10	10	5.6	5.6	389	4.9	8.0	6.3	16	4.9	7.0
14	8.0	10	9.0	4.9	6.3	76	4.9	6.3	8.0	11	4.2	8.0
15	11	8.0	7.0	5.6	6.3	10	6.3	5.6	7.0	11	4.2	8.0
16	8.0	7.0	6.3	6.3	6.3	26	6.3	4.2	7.0	12	7.0	8.0
17	11	8.0	6.3	7.0	9.0	539	6.3	6.3	8.0	12	7.0	7.0
18	7.0	7.0	6.3	4.9	7.0	7.0	5.6	8.0	7.0	10	8.0	7.0
19	5.6	6.3	5.6	7.0	5.6	94	5.6	4.2	6.3	16	6.3	6.3
20	8.0	6.3	8.9	7.0	6.3	9.0	7.0	4.9	4.9	7.0	9.0	9.0
21	8.0	6.3	16	6.3	6.3	5.6	12	4.9	5.6	6.3	6.3	8.0
22	8.0	15	7.0	4.9	6.3	a 4.2	9.0	7.0	8.0	5.6	3.5	6.3
23	8.0	4.2	8.0	7.0	9.0	a 3.5	5.6	4.2	8.0	6.3	6.3	8.0
24	9.0	6.3	6.3	6.3	8.0	1000	5.6	5.6	8.0	4.2	5.6	13
25	7.0	6.3	5.6	4.2	8.0	13	5.6	7.0	7.0	5.6	5.6	11
26	6.3	6.3	6.3	11	5.6	8.0	7.0	6.3	6.3	11	7.0	9.0
27	8.0	4.9	6.3	4.9	5.6	6.3	6.3	6.3	7.0	6.3	6.3	11
28	8.0	6.3	5.6	4.9	22	6.3	131	8.0	11	7.0	8.0	13
29	8.0	9.0	7.0	5.6	4.9	6.3	52	6.3	13	8.0	5.6	9.0
30	10	4.2	6.3	5.6		7.0	7.0	5.6	8.0	9.0	6.3	7.0
31	9.0		5.6	5.6		6.3		4.9		7.0	9.0	
	253.7	227.0	1134.0	195.6	10213	2276.0	5132	196.2	3362	2795	1941	2442
MEAN	8.18	7.57	36.6	6.31	35.2	73.4	17.1	6.33	11.2	9.02	6.26	8.14
ACRE-FEET	503.	450.	2250.	388.	2030.	4510.	1020.	389.	667.	554.	385.	484.

Remarks:

YEAR OR PERIOD MEAN 18.8
ACRE-FEET 13,630

F. C. Dist. Form 82 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

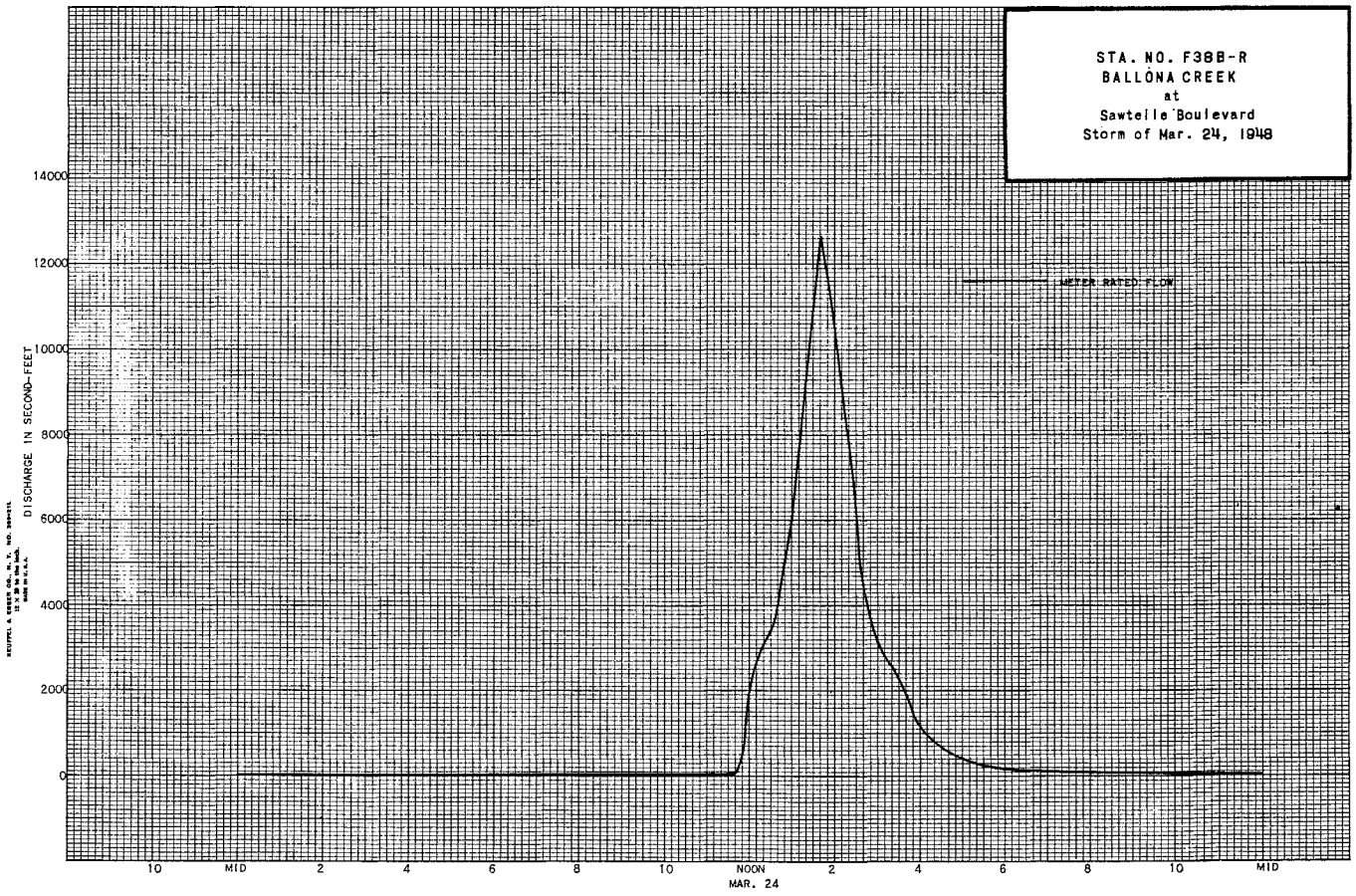
Sta. No. F38B-R

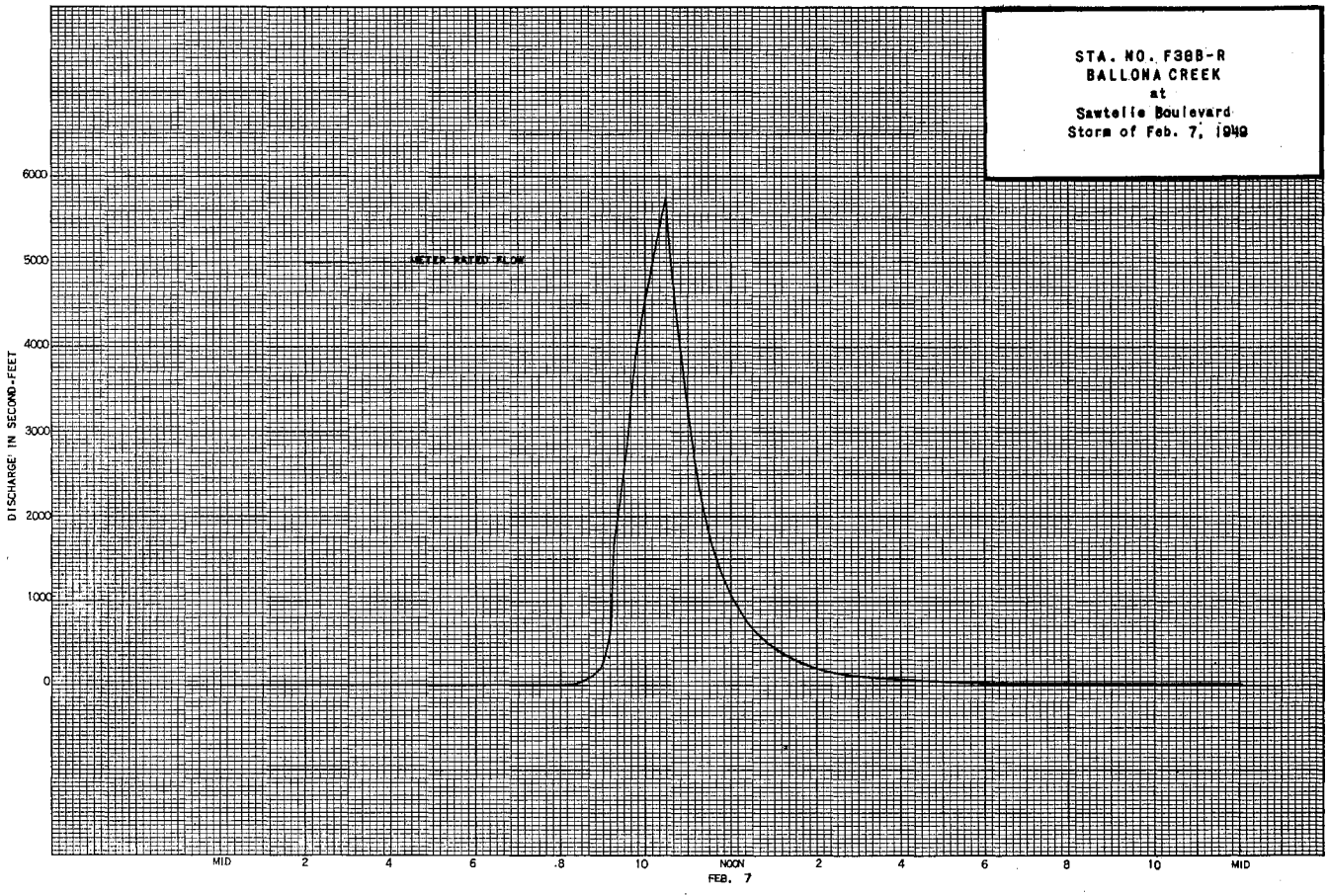
Daily discharge, in second-feet of BALLONA CREEK at Sawtelle Boulevard, for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.0	7.0	8.0	6.6	7.8	5.6	5.6	4.4	6.8	9.1	8.4	5.5
2	8.0	7.0	7.0	5.6	6.3	7.0	7.0	6.4	7.0	11.0	8.8	4.8
3	6.3	6.3	33	4.9	262	31	5.6	4.4	8.0	9.7	6.6	5.3
4	a 7.1	6.3	9.0	5.6	7.0	195	7.8	5.3	8.8	8.8	5.5	5.1
5	a 6.2	8.0	7.0	5.6	6.3	15	7.8	6.2	11	8.8	7.3	4.6
6	a 6.2	7.0	6.3	5.6	4.2	4.9	7.8	5.3	12	8.0	5.5	5.7
7	6.9	6.3	7.0	7.0	452	36	6.3	4.8	12	5.1	6.8	7.0
8	5.6	6.3	10	7.0	8.5	7.0	6.3	3.9	11	7.0	12	7.7
9	5.6	8.0	10	7.0	7.0	7.0	5.6	5.5	7.7	6.8	11	7.3
10	4.9	6.3	8.0	20	5.6	292	4.9	5.9	8.8	6.4	10	8.0
11	9.0	5.6	7.0	311	87	233	7.0	6.4	8.2	8.0	10	6.4
12	7.0	8.0	5.6	201	9.2	4.9	7.0	6.4	7.0	6.8	13	7.3
13	7.0	6.3	6.3	215	4.9	4.2	2.8	6.4	7.5	6.8	11	7.3
14	7.0	5.6	10	38	5.6	4.2	4.2	4.3	7.5	6.6	8.8	5.4
15	6.3	6.3	6.3	7.8	6.3	4.2	6.3	5.7	8.2	7.5	9.7	5.7
16	5.6	6.3	191	4.9	6.3	6.3	5.6	12	6.6	7.0	11	6.6
17	8.0	5.6	668	6.3	4.2	4.9	4.9	36	6.6	6.2	8.4	7.5
18	29	7.0	7.0	7.0	6.3	5.6	6.4	92	6.8	6.8	7.3	7.0
19	9.0	9.7	4.2	534	4.2	53	4.3	106	5.7	7.0	6.8	7.7
20	10	4.9	7.0	550	3.5	5.6	3.4	24	7.0	7.0	6.2	8.2
21	9.0	2.8	7.0	11	5.6	4.9	5.3	13	7.5	6.6	4.3	8.6
22	6.3	4.9	68	184	4.9	4.9	6.8	11	8.0	6.6	9.5	9.1
23	7.0	5.6	13	11	5.6	12	5.9	12	9.1	5.9	6.6	7.7
24	5.6	5.6	7.0	14	90	7.8	5.1	12	9.4	5.1	5.9	6.8
25	7.0	5.6	6.3	6.3	6.3	7.8	6.6	13	11	5.3	5.5	5.7
26	7.0	7.0	336	7.0	100	4.9	6.4	16	12	5.3	4.2	6.4
27	9.0	5.6	256	5.6	15	4.2	6.4	23	11	5.5	4.0	4.8
28	10	5.6	12	5.6	4.2	5.6	5.5	17	12	4.6	3.8	4.6
29	8.0	8.0	7.8	5.6		5.6	5.5	11	12	5.7	4.4	4.2
30	8.0	8.0	6.3	5.6		4.2	4.8	14	12	6.2	5.1	4.2
31	6.3		7.0	6.3		4.9		11		6.2	6.6	
	244.9	192.5	1744.1	2211.9	1135.8	993.2	174.9	504.3	268.2	213.4	234.0	192.2
MEAN	7.90	6.42	56.3	71.4	40.6	32.0	5.83	16.3	8.94	6.88	7.55	6.41
ACRE-FEET	486.	382.	3460.	4390.	2250.	1970.	347.	1000.	532.	423.	464.	381.

Remarks:

YEAR OR PERIOD MEAN 22.2
ACRE-FEET 16090.





STATION F120-R
BIG DALTON CREEK below Big Dalton Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°10'12", LONG. 117°48'33", ON THE LEFT (SOUTHEAST) BANK ABOUT 200 FEET BELOW THE OLD TOE WALL ON THE DOWNSTREAM SIDE OF BIG DALTON DAM AND ABOUT 5 MILES NORTHEAST OF GLENDORA. ELEVATION OF ZERO GAGE HEIGHT, 1539.63 FEET. STATION MOVED ABOUT 200 FEET DOWNSTREAM ON DECEMBER 23, 1946.

DRAINAGE AREA: 4.8 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - GRAVEL AND ROCK LINED WITH WILLOWS. CONTROL - CONCRETE BROAD-CRESTED WEIR COMPLETED DECEMBER 23, 1946.

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. REINSTALLED OVER A 4 FT. X 4 FT. CONCRETE WELL DECEMBER 23, 1946. AN H.C.F. RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: 4.5 SQUARE MILES REGULATED BY BIG DALTON DAM. 0.8 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, 1949.

EXTREMES OF DISCHARGE:

1947-1948
MAXIMUM 20 SECOND-FEET, FEBRUARY 5.
MINIMUM NO FLOW MOST OF YEAR

1948-1949
MAXIMUM 25 SECOND-FEET, DECEMBER 18
MINIMUM NO FLOW MOST OF YEAR

1940-1949
MAXIMUM 111 SECOND-FEET, MARCH 4, 1943.
MINIMUM NO FLOW PART OF EACH YEAR.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

DISCHARGE MEASUREMENTS OF BIG DALTON CREEK

~~NEAR~~ Below Big Dalton Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
254	12-23	1013 / 1025	BREWSTER	5.5	1.93	4.35	0.75	8.4		.6	5	0	FC12
255	12-23	1205 / 1215	"	5.0	1.58	5.57	0.75	8.8		.6	5	0	"
256	12-23	1315 / 1325	"	5.5	1.94	3.04	0.66	5.9		.6	5	0	"

DISCHARGE MEASUREMENTS OF BIG DALTON CREEK

~~NEAR~~ below Big Dalton Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
257	12-17	1525 / 1530	STUNDEN - WILLUT	2.5	0.25	2.60		0.65		.5	3		FC36
258	1-13	1430 / 1432	STUNDEN	0.50	0.02	0.50	2.02	0.01	FLOATS		1	0	
259	1-26	1010 / 1012	"	0.70	0.04	1.00	1.97	0.04		.5	1	0	FC36
260	2-3	1510 / 1513	"	0.50	0.02	0.50	1.96	0.01	SURF.		1	0	"
261	3-3	0914 / 0916	"	0.40	0.03	0.33	1.85	0.01	"		1	0	"
262	3-10	1020 / 1023	"	0.40	0.04	0.75		0.03	"		1		"
263	3-16	1450 / 1452	"	0.50	0.02	1.00		0.02	FLOATS		1		
264	9-15	0850 / 0905	"	4.5	1.44	5.14		7.4		.5	5	0	FC36
265	9-16	1057 / 1108	"	6.0	2.36	2.96	0.80	7.0		.5 .6	10	0	"
266	9-19	1325 / 1340	"	6.5	2.39	2.76	0.75	6.6		.6	12		"
267	9-21	1040 / 1050	"	1.7	0.86	6.74	0.63	5.8		.6	04	-.01	"
268	9-21	1108 / 1123	"	5.5	1.91	2.88	0.62	5.5		.5 .6	10	0	"

F. C. Dist. Form 93 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F120-R

Daily discharge, in second-feet of BIG DALTON CREEK below Big Dalton Dam, for the year ending September 30, 19 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0.4	0	0	0	0	0	0	0	0	0
5	0	0	0	0	d 2.6	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0.8	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	2.2	0	0	0	0	0	0	0	0	0
23	0	0	1.7	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	+	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	+	0	0	0	0	0
29	0	0	0	0	0	0	+	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	5.1	0	2.6			0	0	0	0	0
MEAN	0	0	0.16	0	0.09	+	+	0	0	0	0	0
ACRE-FEET	0	0	10.1	0	5.2	+	+	0	0	0	0	0

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

YEAR OR PERIOD MEAN 0.02
ACRE-FEET 15.

F. C. Dist. Form 93 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F120R

Daily discharge, in second-feet of BIG DALTON CREEK below Big Dalton Dam, for the year ending September 30, 19 49

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	b 0.05	d 0.02	d 0.01	0	0	0	0	0	0
2	0	0	0	0.05	d 0.01	d 0.01	0	0	0	0	0	0
3	0	0	0	0.04	0.01	0.01	0	0	0	0	0	0
4	0	0	0	0.04	d 0.01	d 0.01	0	0	0	0	0	0
5	0	0	0	0.03	0.01	0.01	0	0	0	0	0	0
6	0	0	0	0.03	0.01	0.02	0	0	0	0	0	0
7	0	0	0	0.02	0.01	0.02	0	0	0	0	0	0
8	0	0	0	0.02	0.01	0.03	0	0	0	0	0	0
9	0	0	0	0.02	0.01	d 0.03	0	0	0	0	0	0
10	0	0	0	0.01	d +	0.03	0	0	0	0	0	0
11	0	0	0	0.01	+	d 0.03	0	0	0	0	0	0
12	0	0	0	b 0.01	+	0.03	0	0	0	0	0	0
13	0	0	0	0.01	+	0.03	0	0	0	0	0	0
14	0	0	0	d 0.01	+	0.02	0	0	0	0	0	0
15	0	0	0	0.01	+	d 0.02	0	0	0	0	0	5.2
16	0	0	b 0.5	0.01	e +	0.02	0	0	0	0	0	7.4
17	0	0	0.1	0.01	+	d 0.02	0	0	0	0	0	7.4
18	0	0	0.1	0.02	+	0.02	0	0	0	0	0	7.4
19	0	0	0.1	0.02	+	0.01	0	0	0	0	0	7.0
20	0	0	0.1	0.02	+	d 0.01	0	0	0	0	0	6.3
21	0	0	0.1	0.03	+	+	0	0	0	0	0	5.8
22	0	0	0.1	0.03	+	+	0	0	0	0	0	1.8
23	0	0	0.1	0.03	+	e +	0	0	0	0	0	+
24	0	0	0.1	0.04	+	+	0	0	0	0	0	+
25	0	0	0.1	d 0.04	+	+	0	0	0	0	0	0
26	0	0	0.1	0.04	0.01	+	0	0	0	0	0	0
27	0	0	0.1	d 0.04	0.01	+	0	0	0	0	0	0
28	0	0	0.1	0.04	0.01	+	0	0	0	0	0	0
29	0	0	0.1	0.03		+	0	0	0	0	0	0
30	0	0	0.1	0.03		+	0	0	0	0	0	0
31	0		b 0.1	d 0.02		+		0		0	0	
	0	0	2.0	0.81	0.13	0.39	0	0	0	0	0	48.3
MEAN	0	0	0.65	.026	.005	.013	0	0	0	0	0	1.61
ACRE-FEET	0	0	4.0	1.6	0.3	0.8	0	0	0	0	0	96.

Remarks: + = less than 0.01 c.f.s.

YEAR OR PERIOD MEAN 0.14
ACRE-FEET 103.

STATION U9-R

BIG DALTON CREEK near Mouth of Canyon

LOCATION: WATER-STAGE RECORDER AND BROAD-CRESTED WEIR CONTROL, LAT. 34°09'25", LONG. 117°49'55", IN CENTER OF SEC. 21, T. 1 N., R. 9 W., 0.2 MILE UPSTREAM FROM MOUTH OF CANYON AND 2.5 MILES NORTHEAST OF GLENDORA. ALTITUDE OF GAGE ABOUT 1,170.0 FEET.

DRAINAGE AREA: 7.5 SQUARE MILES.

RECORDS AVAILABLE: DECEMBER 1919 TO SEPTEMBER 1949.

AVERAGE DISCHARGE: 28 YEARS (1920-1948) 1.22 SECOND-FEET.
29 " " 49 1.19 " "

EXTREMES:

1947-1948
MAXIMUM DISCHARGE 23 SECOND-FEET FEBRUARY 5. (GAGE HEIGHT 1.17 FEET). NO FLOW FOR SEVERAL MONTHS.

1948-1949
MAXIMUM DISCHARGE 11 SECOND-FEET SEPTEMBER 16 (GAGE HEIGHT 0.86 FEET). NO FLOW FOR SEVERAL MONTHS.

1919-1949
MAXIMUM DISCHARGE ABOUT 850 SECOND-FEET MARCH 2, 1938, FROM RECORD OF RELEASE FROM BIG DALTON RESERVOIR. NO FLOW FOR SEVERAL MONTHS OF EACH YEAR.

REMARKS: 1947-1948 RECORDS GOOD EXCEPT DURING PERIODS OF NO GAGE HEIGHT RECORD WHICH ARE FAIR. 1948-1949 RECORDS FAIR. REGULATION AT BIG DALTON FLOOD CONTROL DAM. GLENDORA IRRIGATION COMPANY DIVERTED 1.5 MILES ABOVE STATION. 1947-1948 DIVERSION, 0.0 ACRE FEET. 1948-1949 DIVERSION, 0.0 ACRE FEET.

COOPERATION: RECORDS FURNISHED BY THE UNITED STATES GEOLOGICAL SURVEY, WITH THE EXCEPTION OF 48 DISCHARGE MEASUREMENTS FURNISHED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY.

DISCHARGE MEASUREMENTS OF BIG DALTON CREEK

AT OR NEAR Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	D. INT. CHANGE TOTAL	METER NO.
1045	12-10	1020 / 1024	BREWSTER	0.5	0.12	0.33	0.01	0.04		.6	1		FC12
1046	12-17	1004 / 1009	"	0.5	0.10	0.50	0.03	0.05		.6	1		"
1047	12-23		U.S.G.S.				0.03	0.033		VOL.			
1048	12-26	1204 / 1205	BREWSTER	0.5	0.10	0.30	0.03	0.03		.6	1		FC12
1049	1-2	1210 / 1215	"	0.5	0.10	0.20	0.02	0.02		.6	1		"
1050	1-7	0858 / 0902	"	0.5	0.11	0.18	0.02	0.02		.6	1		"
1051	1-16		U.S.G.S.				-.01	0.0001		EST.			
1052	1-21	0912 / 0915	EREWSTER	0.5	0.06	0.17	0.01	0.01		FLOAT	1		
1053	1-28	0910 / 0915	STUNDEN	0.5	0.06	0.17	0.00	0.01		FLOAT	1		
1054	2-3		U.S.G.S.				0.01	0.002		EST.			
1055	2-4	0925 / 0930	EREWSTER	0.5	0.06	0.17	0.00	0.01		FLOAT			
1056	2-11	1050 / 1055	"	0.5	0.11	0.91	0.08	0.10		.6	1		FC12
1057	2-18	1005 / 1010	"	0.5	0.10	0.70	0.05	0.07		.6	1		"
1058	2-25	1000 / 1005	STUNDEN - BREWSTER	0.5	0.11	0.64	0.05	0.07		.6	1		FC36
1059	3-2		U.S.G.S.	0.5	0.06	0.67	0.05	0.04		.5	3		
1060	3-3	0850 / 0855	STUNDEN	0.5	0.06	0.83	0.05	0.05		SURF.	1		FC36
1061	3-10	0912 / 0915	"	0.5	0.10	0.50	0.05	0.05		SURF.	1		"
1062	3-17	0930 / 0935	"	0.80	0.14	1.07	0.13	0.15		.5	1		"
1063	3-24	0951 / 0956	"	0.80	0.10	1.00	0.09	0.10		SURF.	1		"
1064	3-31	1105 / 1110	"	0.70	0.10	1.10	0.09	0.11		.5	1		"
1065	4-6		U.S.G.S.	1.6	0.34	0.97	0.20	0.33		.5	4		
1066	4-7	0940 / 0945	STUNDEN	0.70	0.15	1.73	0.20	0.26		.5	1		FC36
1067	4-14	1322 / 1325	"	0.50	0.08	1.12	0.10	0.09		.5	1		"
1068	4-22	1445 / 1450	"	0.50	0.10	1.20	0.08	0.12		.5	1		"
1069	4-29	1450 / 1455	"	0.5	0.05	0.60	0.06	0.03		.5	1		"
1070	5-6	0925 / 0928	"	0.5	0.25	0.80	0.07	0.02		FLOAT	1		"
1071	5-13	0845 / 0850	"	0.50	0.025	0.80	0.06	0.02		FLOAT	1		"
1072	5-18		U.S.G.S.				0.02	0.02		VOL.	0		
1073	5-20	1410 / 1412	STUNDEN	0.50	0.015	0.67	0.03	0.01		FLOAT	1		
1074	5-25		U.S.G.S.			0.01	0.004			EST.			
1075	5-27	0830 / 0835	STUNDEN	0.50	0.01	1.00	0.02	0.01		FLOAT	1		

DISCHARGE MEASUREMENTS OF DALTON CREEK

AT OR NEAR Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	D. INT. CHANGE TOTAL	METER NO.
1076	12-20		U.S.G.S.				0.02	0.003		EST.			
1077	1-13	1410 / 1415	STUNDEN	0.60	0.06	0.83	.10	.05		.5	1	0	FC36
1078	1-17		U.S.G.S.	1.2	.14	.36	.06	.050		.5	4	0	
1079	1-20	0956 / 1000	STUNDEN	2.0	.79	1.52	.56	1.2		.5	4	0	FC36
1080	1-26	1035 / 1038	"	1.5	.26	.65	.15	.17		.5	3	0	"
1081	1-31		U.S.G.S.	1.6	.17	.47	.11	.084		.5	4	0	
1082	2-3	1446 / 1449	STUNDEN	1.0	.14	1.07	.16	.15		.5	1	0	FC36
1083	2-10	1532 / 1533	"	.5	.03	1.67	.09	.05		FLOATS	2	0	
1084	2-12		U.S.G.S.	2.1	.33	.88	.18	.29		.5	10	0	
1085	2-16	0935 / 0938	STUNDEN	.5	.05	1.00	.12	.05		.5	1	0	FC36
1086	2-16		U.S.G.S.	1.0	.14	.65	.11	.12		.5	4	0	
1087	2-23	1050 / 1054	STUNDEN	.5	.04	.75	.09	.03		FLOATS	1	0	
1088	3-2		U.S.G.S.	1.8	.15	.80	.15	.12		.5	4	0	
1089	3-3	0855 / 0900	STUNDEN	1.0	.17	1.12	.17	.19		.5	2	0	FC36
1090	3-10	0920 / 0925	"	1.0	.24	1.17	.17	.28		.5	2	0	"
1091	3-11	0433 / 0436	STUNDEN - WILLUT	2.0	.60	1.20	.38	.72		.5	4	0	"
1092	3-16	1430 / 1433	STUNDEN	.8	.13	.92	.10	.12		.5	1	0	"
1093	3-23	1035 / 1038	"	.6	.07	1.28	.12	.09		.5	1	0	"
1094	3-31	0655 / 0658	"	.5	.05	.80	.07	.04		.5	1	0	"
1095	4-13		U.S.G.S.	.8	.08	.75	.24	.06		.5	3	0	
1096	4-14	0920 / 0923	STUNDEN	.5	.08	1.00	.08	.08		.5	1	0	FC36
1097	4-17	1440 / 1443	"	.5	.03	1.00	.08	.03		FLOATS	1	0	
1098	4-21	0840 / 0843	"	.5	.10	.60	.08	.08		.5	1	0	"
1099	4-28	0905 / 0908	"	.5	.05	.60	.04	.03		.5	1	0	"
1100	5-5	0800 / 0803	"	.5	.06	.50	.04	.03		FLOATS	1	0	
1101	5-9		U.S.G.S.	.5	.03	.40	.03	.012		.5	4	0	
1102	5-12	1645 / 1648	STUNDEN	.5	.06	.50	.03	.03		FLOATS	1	0	
1103	5-19	0920 / 0923	"	.5	.03	1.00	.03	.03		.5	1	0	"
1104	9-16	1545 / 1558	STUNDEN - KASIMOFF	6.0	2.52	2.81	.75	7.1		.5 / .6	7	0	"
1105	9-19	1545 / 1600	STUNDEN	5.0	2.66	2.40	.76	6.4		.5 / .6	8	0	"
1106	9-21	1305 / 1315	"	4.5	2.75	2.22	.68	6.1		.5 / .6	9	0	"
1107	9-22	1538 / 1547	STUNDEN - LINDSAY	3.0	0.61	0.43	.18	.26		.6	6	0	"
1108	9-26		U.S.G.S.				.01	.03		EST.			

P. C. Dist. Form 88 4-48

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U8-R

Daily discharge, in second-feet of BIG DALTON CREEK near Mouth of Canyon, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0.02	0	0.05	0.1	0.03	0.01	0	0	0
2	0	0	0	0.02	0	0.05	0.1	0.03	0.01	0	0	0
3	0	0	0	0.02	0	0.05	0.3	0.03	0.01	0	0	0
4	0	0	0	0.02	0	0.04	0.3	0.03	0.01	0	0	0
5	0	0	0.04	0	1.6	0.04	0.2	0.03	0.01	0	0	0
6	0	0	0.04	0	0.3	0.04	0.3	0.03	0	0	0	0
7	0	0	0.04	0	0.2	0.04	0.3	0.03	0	0	0	0
8	0	0	0.04	0	0.1	0.04	0.2	0.03	0	0	0	0
9	0	0	0.04	0	0.1	0.03	0.2	0.03	0	0	0	0
10	0	0	0.04	0	0.1	0.03	0.2	0.03	0	0	0	0
11	0	0	0.04	0	0.1	0.03	0.1	0.02	0	0	0	0
12	0	0	0.04	0	0.1	0.03	0.1	0.02	0	0	0	0
13	0	0	0.04	0	0.1	0.07	0.1	0.02	0	0	0	0
14	0	0	0.04	0	0.08	0.07	0.1	0.02	0	0	0	0
15	0	0	0.04	0	0.08	0.1	0.07	0.02	0	0	0	0
16	0	0	0.04	0	0.08	0.1	0.07	0.02	0	0	0	0
17	0	0	0.04	0	0.08	0.2	0.07	0.02	0	0	0	0
18	0	0	0.04	0	0.07	0.1	0.07	0.02	0	0	0	0
19	0	0	0.6	0	0.07	0.2	0.07	0.02	0	0	0	0
20	0	0	0.05	0	0.07	0.2	0.07	0.02	0	0	0	0
21	0	0	0.05	0	0.07	0.1	0.07	0.01	0	0	0	0
22	0	0	1.8	0	0.07	0.1	0.07	0.01	0	0	0	0
23	0	0	1.3	0	0.07	0.1	0.07	0.01	0	0	0	0
24	0	0	0.04	0	0.07	0.3	0.07	0.01	0	0	0	0
25	0	0	0.04	0	0.07	0.2	0.07	0.01	0	0	0	0
26	0	0	0.04	0	0.05	0.1	0.07	0.01	0	0	0	0
27	0	0	0	0	0.05	0.1	0.07	0.01	0	0	0	0
28	0	0	0	0	0.05	0.1	0.2	0.01	0	0	0	0
29	0	0	0	0	0.05	0.1	0.05	0.01	0	0	0	0
30	0	0	0.03	0		0.1	0.05	0.01	0	0	0	0
31	0		0.03	0		0.1		0.01		0	0	
	0		4.54		3.78		3.81		0.05		0	
		0		0.08		2.91		0.61		0		0
MEAN	0	0	.146	.003	.130	.094	.127	.020	.002	0	0	0
ACRE-FEET	0	0	9.0	0.2	7.5	5.8	7.6	1.2	0.1	0	0	0

Remarks:

YEAR OR PERIOD MEAN 0.043
ACRE-FEET 31

P. C. Dist. Form 88 4-48

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U9-R

Daily discharge, in second-feet of Big Dalton Creek near Mouth of Canyon, for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0.1	0.1	0.03	0.03	0	0	0	0
2	0	0	0	0	0.1	0.2	0.03	0.03	0	0	0	0
3	0	0	0	0	0.1	0.2	0.03	0.03	0	0	0	0
4	0	0	0	0	0.1	0.3	0.03	0.03	0	0	0	0
5	0	0	0	0	0.1	0.3	0.03	0.03	0	0	0	0
6	0	0	0	0	0.1	0.2	0.03	0.03	0	0	0	0
7	0	0	0	0	0.1	0.3	0.03	0.03	0	0	0	0
8	0	0	0	0	0.1	0.3	0.03	0.03	0	0	0	0
9	0	0	0	0	0.1	0.3	0.03	0.03	0	0	0	0
10	0	0	0	0	0.1	0.3	0.03	0.03	0	0	0	0
11	0	0	0	0.05	0.2	0.4	0.03	0.03	0	0	0	0
12	0	0	0	0.05	0.3	0.3	0.03	0.03	0	0	0	0
13	0	0	0	0.05	0.2	0.2	0.03	0.03	0	0	0	0
14	0	0	0	0.05	0.2	0.2	0.07	0.03	0	0	0	0
15	0	0	0	0.05	0.2	0.2	0.07	0.03	0	0	0	3.0
16	0	0	0	0.05	0.1	0.2	0.07	0.03	0	0	0	7.0
17	0	0	0	0.05	0.1	0.1	0.07	0.03	0	0	0	7.4
18	0	0	0	0.05	0.1	0.1	0.07	0.03	0	0	0	7.1
19	0	0	0	0.1	0.1	0.2	0.07	0.03	0	0	0	6.1
20	0	0	0	0.6	0.1	0.1	0.07	0.03	0	0	0	6.1
21	0	0	0	0.2	0.1	0.1	0.07	0.03	0	0	0	6.1
22	0	0	0	0.3	0.1	0.1	0.07	0	0	0	0	2.3
23	0	0	0	0.3	0.1	0.1	0.04	0	0	0	0	0.1
24	0	0	0	0.2	0.1	0.1	0.04	0	0	0	0	0.04
25	0	0	0	0.2	0.1	0.1	0.04	0	0	0	0	0.04
26	0	0.1	0	0.2	0.2	0.1	0.04	0	0	0	0	0.04
27	0	0	0.2	0.2	0.2	0.04	0.04	0	0	0	0	0.04
28	0	0	0.01	0.1	0.2	0.04	0.04	0	0	0	0	0
29	0	0	0.01	0.2		0.04	0.04	0	0	0	0	0
30	0	0	0.01	0.1		0.04	0.04	0	0	0	0	0
31	0		0.01	0.1		0.04		0		0	0	
	0		0.34		3.7		1.34		0		0	
		0		3.2		5.30		0.63		0		4.536
MEAN	0	0	.011	0.10	0.13	0.17	.045	0.02	0	0	0	1.51
ACRE-FEET	0	0	0.7	6.3	7.3	11.	2.7	1.2	0	0	0	90.

Remarks:

YEAR OR PERIOD MEAN 0.164
ACRE-FEET 119.

STATION F274-R
DALTON WASH at Merced Avenue

LOCATION: WATER-STAGE RECORDER, LAT. 34°04'28", LONG. 117°57'48", ON THE LEFT (EAST) BANK AND ON THE DOWNSTREAM SIDE OF THE MERCED AVENUE BRIDGE, ABOUT ONE-HALF MILE ABOVE THE JUNCTION WITH WALNUT WASH AND ABOUT ONE MILE SOUTH OF BALDWIN PARK. ELEVATION OF ZERO GAGE HEIGHT, 345.27 FEET.

DRAINAGE AREA: 28 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - PIPE AND WIRE SIDES, BOTTOM EARTH, SAND AND GRAVEL COVERED WITH WEEDS AND GRASS DURING SUMMER MONTHS. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM UPSTREAM SIDE OF BRIDGE.

RECORDER: INSTALLED NOVEMBER 11, 1940 OVER A 24-INCH DIAMETER IRON PIPE STILLING WELL. AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

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 COMPANY DIVERTS FLOW FROM BOTH BIG AND LITTLE DALTON CANYONS.

RECORDS AVAILABLE: NOVEMBER 11, 1940 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:

1947-1948
MAXIMUM 149 SECOND-FEET, DECEMBER 5.
MINIMUM NO FLOW MOST OF YEAR.

1948-1949
MAXIMUM 181 SECOND-FEET, DECEMBER 17.
MINIMUM NO FLOW MOST OF YEAR.

1940-1949
MAXIMUM 2650 SECOND-FEET, FEBRUARY 22, 1944.
MINIMUM NO FLOW PART OF EACH YEAR.

ACCURACY: GOOD.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

DISCHARGE MEASUREMENTS OF DALTON WASH

AT ~~NEAR~~ Merced Avenue DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
173	2-5	0955 / 1010	BREWSTER - STUNDEN	20.0	8.38	1.58	2.12	13.3		.6	6	-.04	FC12
174	2-5	1500 / 1510	" "	26.0	14.6	2.58	2.37	37.7		.6	7	+.04	"
175	3-24	1715 / 1730	STUNDEN	27.0	14.6	3.26	2.40	47.9		.6	8	-.06	FC36

DISCHARGE MEASUREMENTS OF DALTON WASH

AT ~~NEAR~~ Merced Avenue DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
176	12-17	1627 / 1637	STUNDEN - WILLUT	36.5	31.5	4.19	3.05	132.		.6	9	-.14	FC36
177	1-20	0825 / 0834	" "	22.0	4.83	1.03	2.04	5.0		.5	7	+.02	"
178	1-20	1245 / 1250	" "	8.5	2.43	1.36	1.98	3.3		.5	5	-.01	"
179	2-26	2100 / 2108	" "	21.5	4.12	1.00	1.99	4.1		.5	6	-.05	"
180	3-1	1040 / 1045	STUNDEN	TWO CHANNELS			1.84	0.99		.5	8	0	"
181	3-11	0316 / 0324	"	26.0	7.90	1.89	2.29	14.9		.6	8	-.02	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F274-R

Daily discharge, in second-feet of DALTON WASH at Merced Avenue, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0.1	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	1.4	0	0	0	0	0
4	0	0	0.6	0	0	0	0	0	0	0	0	0
5	0	0	20	0	15.2	0	0	0	0	0	0	0
6	0	0	0.1	0	0.5	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0.1	0	0	0	0	0	0	0
18	0	0	0	0	0.8	0	0	0	0	0	0	0
19	0	0	0	0	0	1.4	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	8.4	0	0	0	0	0	0
25	0	0	0	0	0	+	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	20.8	0	16.6	9.8	1.4	0	0	0	0	0
MEAN	0	0	0.67	0	0.57	0.32	0.05	0	0	0	0	0
ACRE-FEET	0	0	41.	0	33.	19.	2.8	0	0	0	0	0

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

YEAR OR PERIOD MEAN 0.13
ACRE-FEET 96.

F. C. Dist. Form 52 4-48

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

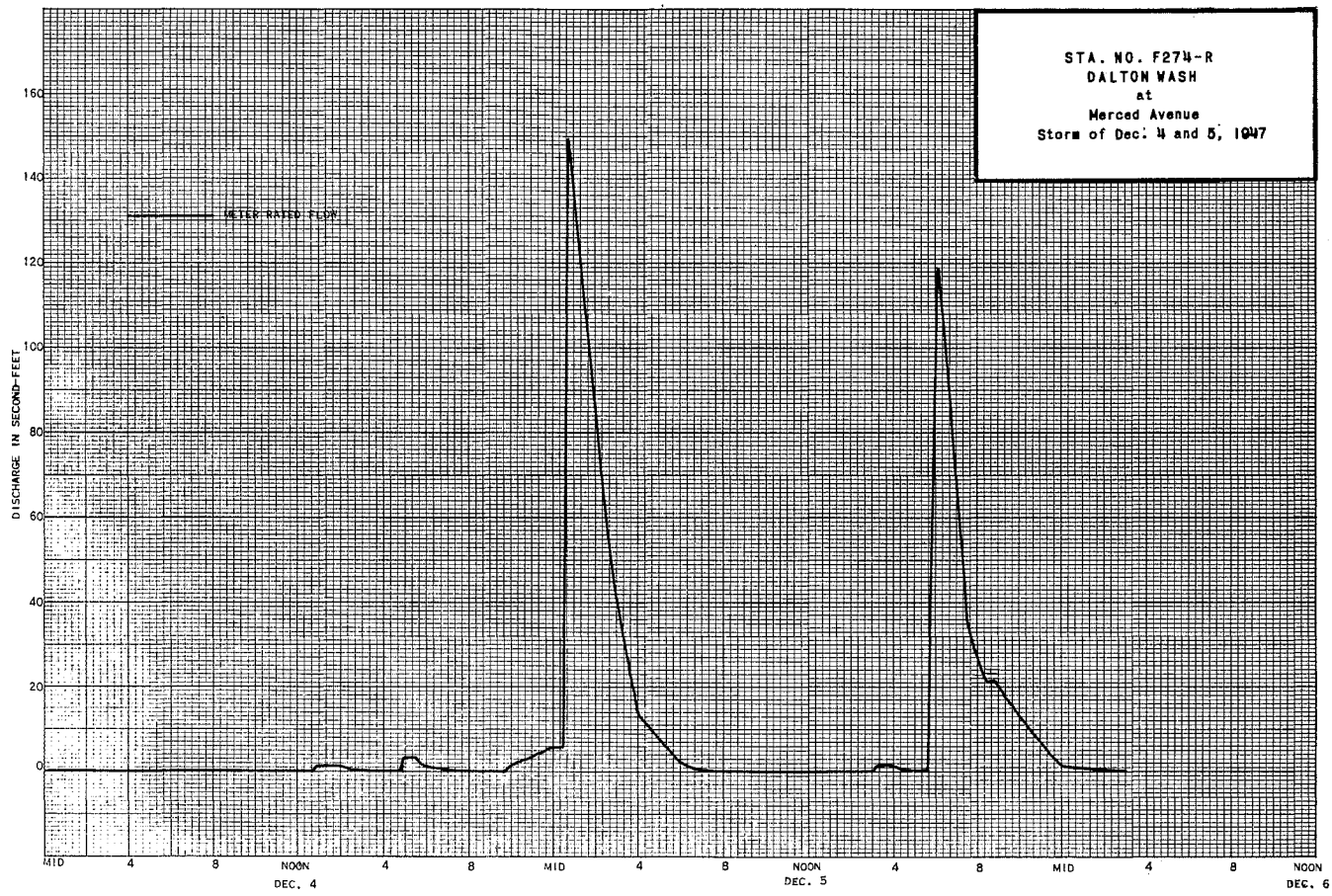
Sta. No. F274-R

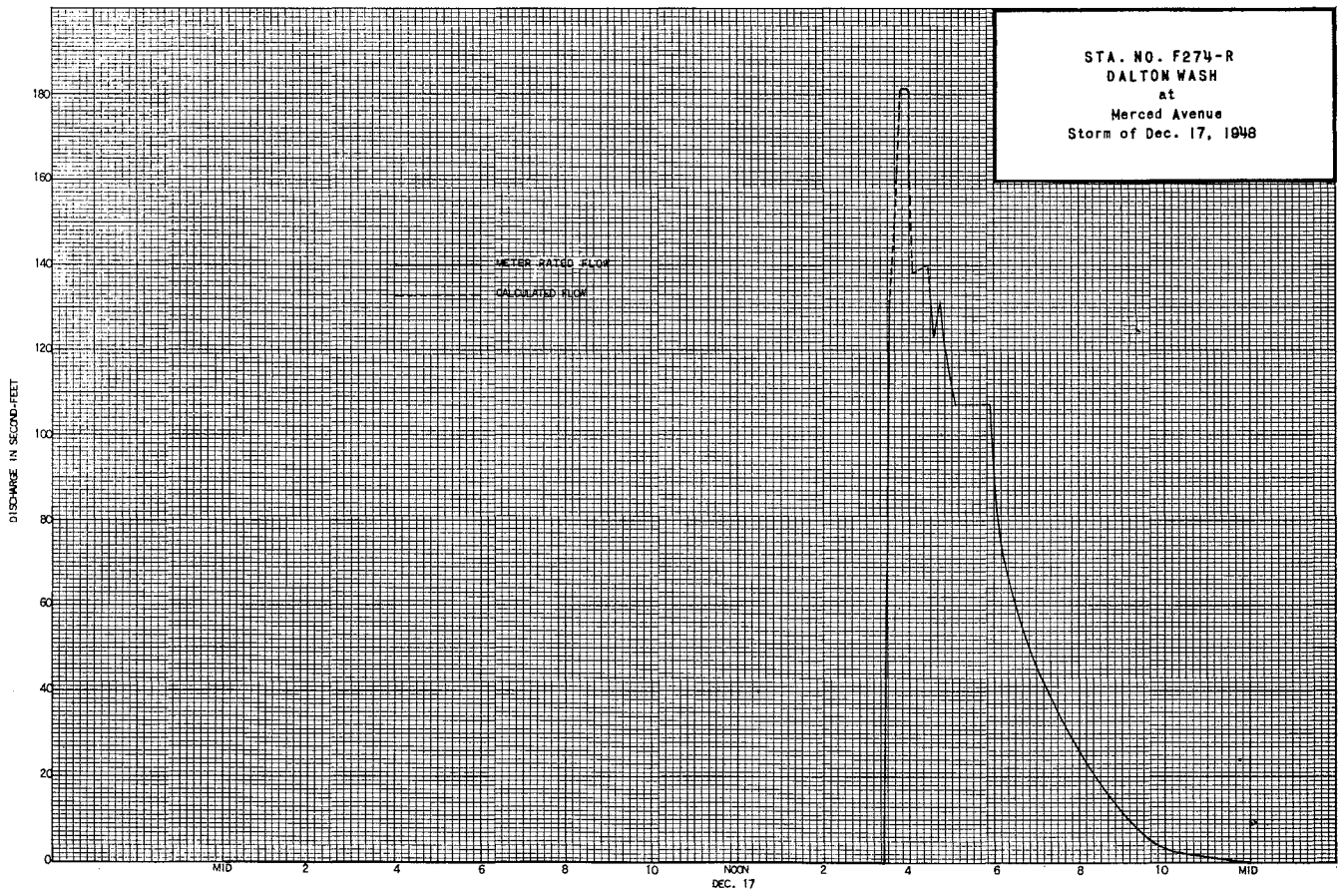
Daily discharge, in second-feet of DALTON WASH at Merced Avenue, for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	1.3	0	0	0	0	0	0
2	0	0	0	0	0	0.8	0	0	0	0	0	0
3	0	0	0	0	0	1.4	0	0	0	0	0	0
4	0	0	0	0	0	5.9	0	0	0	0	0	0
5	0	0	0	0	0	0.1	0.5	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	1.0	1.9	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	1.9	0	0	0	0	0	0	0	0	0
18	0	0	+	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	6.4	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	1.7	0	0	0	0	0	0	0	0
23	0	0	0	+	0	+	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0.8	0	0	0	0	0	0	0
27	0	0	3.6	0	2.0	0	0	0	0	0	0	0
28	0	0	0	0	2.2	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	22.6	8.1	6.0	11.4	0.5	0	0	0	0	0
MEAN	0	0	0.73	0.26	0.21	0.37	0.02	0	0	0	0	0
ACRE-FEET	0	0	45.	16.	12.	23.	1.0	0	0	0	0	0

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

YEAR OR PERIOD MEAN 0.13
ACRE-FEET 97.


STA. NO. F274-R
DALTON WASH
at
Merced Avenue
Storm of Dec. 4 and 5, 1947
METER RATED FLOW
DISCHARGE IN SECOND-FEET
0
20
40
60
80
100
120
140
160
MID
4
8
NOON
DEC. 4
DEC. 5
DEC. 6


STA. NO. F274-R
DALTON WASH
at
Merced Avenue
Storm of Dec. 17, 1948
METER RATED FLOW
CALCULATED FLOW
DISCHARGE IN SECOND-FEET
0
20
40
60
80
100
120
140
160
180
MID
2
4
6
8
10
NOON
DEC. 17

STATION F111C-R

BIG TUJUNGA CREEK below Mill Creek

LOCATION: WATER-STAGE RECORDER, LAT. 34°18'33", LONG. 118°08'40", ON LEFT BANK (EAST) ABOUT 500 FEET BELOW JUNCTION WITH MILL CREEK. ELEVATION OF GAGE ABOUT 2650 FEET. FORMER STATIONS F111-R AND F111B-R ARE LOCATED ABOUT 1.3 MILES DOWNSTREAM.

DRAINAGE AREA: 64.9 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - GRAVEL AND BOULDERS. BED ROCK CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM CABLE CAR AT STATION.

RECORDER: INSTALLED JANUARY 16, 1948. AN AU CONTINUOUS RECORDER WAS IN SERVICE FROM JANUARY 16, 1948 TO MAY 2, 1949. A STEVENS A35 WAS IN SERVICE FROM MAY 2, 1949 TO SEPTEMBER 30, 1949.

REGULATIONS: NONE.

DIVERSIONS: NONE.

RECORDS AVAILABLE:
AT STATION F111-R - NOVEMBER 30, 1930 TO AUGUST 17, 1932.
AT STATION F111B-R - SEPTEMBER 15, 1932 TO SEPTEMBER 30, 1949.
AT STATION F111C-R - JANUARY 16, 1948 TO SEPTEMBER 30, 1949.
WHEN SUFFICIENT OVERLAPPING RECORDS HAVE BEEN OBTAINED, STATION F111B-R WILL BE ABANDONED.

EXTREMES OF DISCHARGE:
1947-1948
MAXIMUM NOT DETERMINED.
MINIMUM 0.1 SECOND-FOOT SEVERAL MONTHS
1948-1949
MAXIMUM 13 SECOND-FEET MARCH 4.
MINIMUM PLUS FLOW SEVERAL MONTHS.
1930-1949 (STATIONS F111-R, F111B-R AND F111C-R)
MAXIMUM DISCHARGE NOT DETERMINED MARCH 2, 1938.
MAXIMUM DISCHARGE OF RECORD 14,800 SECOND-FEET, JANUARY 23, 1943.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE U.S.G.S. WATER RESOURCES BRANCH.

DISCHARGE MEASUREMENTS OF BIG TUJUNGA CREEK

AT ~~NEAR~~ below Mill Creek DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1	10-28	1430 / 1435	TURNER	2.1	0.97	0.94		0.91		.6	3		FC43
2	11-12	1440 / 1446	"	2.2	1.07	1.12		1.2		.6	3		"
3	11-19	1045 / 1050	"	3.5	1.20	1.00		1.2		.5	4		"
4	11-26	1255 / 1305	TURNER-VAN DER GOOT	3.3	1.03	1.15		1.2		.6	5		"
5	12-3	1120 / 1130	TURNER	4.5	1.45	1.03		1.5		.6	5		"
6	12-10	1450 / 1456	"	5.0	1.92	1.09		2.2		.6	5		"
7	12-17	1024 / 1030	"	4.1	1.60	1.19		1.9		.6	5		"
8	12-23	1059 / 1105	"	4.1	1.56	1.22		1.9		.6	5		"
9	12-30	1420 / 1426	"	4.1	1.57	1.21		1.9		.6	5		"
10	1-7	0955 / 1001	"	4.0	1.62	1.23		2.0		.6	5		"
11	1-14	1330 / 1336	"	4.0	1.58	1.27		2.0		.6	5		"
12	1-21	1005 / 1014	"	4.0	1.64	1.22	4.61	2.0		.6	5	0	FC28
13	1-28	1454 / 1500	"	4.0	1.61	1.18	4.61	1.9		.6	5	0	"
14	2-4	1429 / 1435	"	4.1	1.67	1.26	4.62	2.1		.6	5	0	"
15	2-6	1155 / 1201	"	8.0	4.14	1.88	5.04	7.8		.6	8	0	"
16	2-10	1514 / 1520	"	5.0	2.38	1.72	4.82	4.1		.6	6	0	"
17	2-18	1040 / 1046	"	4.2	2.65	1.70	4.78	4.5		.6	4	0	"
18	2-25	1420 / 1426	"	4.2	2.22	1.44	4.70	3.2		.6	4	0	"
19	3-3	1030 / 1036	"	4.2	2.27	1.41	4.59	3.2		.6	4	0	"
20	3-10	1430 / 1436	"	4.2	2.24	1.25	4.57	2.8		.6	4	0	"
21	3-18	1344 / 1350	"	5.0	2.97	1.75	4.76	5.2		.6	5	0	"
22	3-24	1450 / 1500	"	TWO CHANNELS			5.02	9.4		.6	8	+.02	"
23	4-2	1344 / 1350	"	6.0	3.50	1.49	4.73	5.2		.6	6	0	FC44
24	4-7	1454 / 1500	"	4.6	2.81	1.85	4.72	5.2		.6	5	0	"
25	4-14	1026 / 1032	TURNER - SILL	4.5	2.60	1.69	5.44	4.4		.6	5	0	"
26	4-21	1351 / 1400	TURNER	3.8	2.15	1.67	5.41	3.6		.6	5	0	"
27	4-28	1050 / 1056	"	3.8	2.09	1.58	5.42	3.3		.6	5	0	"
28	5-5	1514 / 1520	"	4.5	2.64	1.74	5.01	4.6		.6	5	0	"
29	5-12	1040 / 1049	"	4.2	2.50	1.52	4.96	3.8		.6	5	0	"
30	5-19	1331 / 1340	"	4.3	2.16	1.44	4.88	3.1		.6	5	0	FC43
31	5-19	1340 / 1349	"	4.3	2.16	1.39	4.88	3.0		.6	5	0	FC44
32	5-26	1054 / 1100	"	4.3	2.06	1.26	4.81	2.6		.6	5	0	"
33	6-2	1021 / 1030	"	4.3	2.13	1.41	4.90	3.0		.6	5	0	"
34	6-9	0950 / 0956	"	4.3	1.78	1.01	4.73	1.8		.6	5	0	"
35	6-16	1304 / 1310	"	4.3	1.57	0.64	4.60	1.0		.5	5	0	"
36	6-24	1310 / 1316	"	3.2	1.12	0.71	4.63	0.80		.5	5	0	"
37	6-30	1033 / 1036	"	3.2	1.00	0.43	4.68	0.43		.5	5	0	"
38	7-8	0937 / 0940	"	2.0	0.58	0.55		0.31		.5	3		"
39	7-14	1032 / 1035	"	1.2	0.32	0.44		0.14		.5	2		"
40	7-21	1440	"					0.05		VOL.			
41	7-29	1155	"					0.06		"			
42	8-5	0920	"					0.06		"			
43	8-12	0930						0.09		"			
44	8-18	1330						0.05		"			
45	8-26	1000	"					0.10		"			
46	9-2	1005	"					0.07		"			
47	9-8	1050	"					0.08		"			
48	9-15	0950	"					0.07		"			
49	9-22	1020	"					0.11		"			
50	9-29	0955	"					0.20		"			

DISCHARGE MEASUREMENTS OF BIG TUJUNGA CREEK

~~AT~~ NEAR below Mill Creek DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
51	10-6	0930	TURNER - VAN DER GOOT				4.77	0.38		VOL.		0	
52	10-13	1024 / 1030	TURNER	1.8	0.50	0.78	4.84	0.39		.5	4	0	FC44
53	10-18	1346 / 1352	LYNN - TURNER	2.2	0.84	0.95	4.31	0.80		.5	5	0	"
54	10-21	1024 / 1030	KASIMOFF - TURNER	2.2	0.72	0.62	4.25	0.45		.5	4	0	"
55	10-28	1030 / 1036	TURNER	2.2	0.65	0.86	4.28	0.56		.5	4	0	FC43
56	11-4	1330 / 1336	TURNER - PAYNE	2.2	0.72	0.93	4.28	0.67		.5	3	0	FC44
57	11-10	1025 / 1031	TURNER	2.2	0.74	0.78	4.28	0.58		.5	4	0	"
58	11-18	1000 / 1006	"	2.2	0.80	0.86	4.30	0.69		.5	4	0	"
59	11-24	1014 / 1020	"	2.2	0.82	0.90	4.31	0.74		.5	4	0	"
60	12-2	1030 / 1036	"	2.2	0.85	0.94	4.33	0.80		.5	4	0	"
61	12-9	1300 / 1306	"	2.2	0.83	1.17	4.35	0.97		.5	4	0	"
62	12-15	1100 / 1106	"	2.2	0.86	1.15	4.35	0.99		.5	4	0	"
63	12-22	1024 / 1030	"	2.3	1.22	1.23	4.38	1.5		.6	4	0	"
64	12-23	0113 / 0124	KASIMOFF - ROGERS	7.0	1.28	0.94	4.41	1.2		.6	7	0	FC47
65	12-29	1004 / 1010	TURNER	2.3	1.29	1.63	4.44	2.1		.6	4	0	FC44
66	1-4	1300 / 1306	"	2.3	1.13	1.33	4.37	1.5		.6	4	0	"
67	1-12	1325 / 1331	TURNER - WILLUT	2.3	1.27	1.42	4.41	1.8		.6	4	0	"
68	1-20	0051 / 0117	KASIMOFF - BROWN	8.5	3.38	1.69	4.76	5.7		.6	10	+ .05	FC47
69	1-20	1120 / 1131	" "	10.0	4.87	1.74	4.99	8.5		.6	8	-.02	"
70	1-20	1615 / 1626	" "	9.0	4.40	1.70	4.95	7.5		.6	8	-.01	FC44
71	1-22	2039 / 2052	" "	8.5	2.68	1.68	4.70	4.5		.6	9	0	"
72	1-23	0917 / 0930	" "	7.5	2.16	1.53	4.64	3.3		.6	9	0	"
73	1-27	1014 / 1020	TURNER	4.5	2.25	1.29	4.49	2.9		.6	5	0	"
74	2-1	1319 / 1325	"	4.3	2.00	1.10	4.44	2.2		.6	5	0	"
75	2-9	0924 / 0930	"	4.5	2.24	1.20	4.49	2.7		.6	5	0	"
76	2-16	0950 / 0956	"	4.5	2.39	1.38	4.52	3.3		.6	5	0	"
77	2-23	1334 / 1340	"	4.7	2.70	1.52	4.58	4.1		.6	6	0	"
78	3-1	1355 / 1404	"	4.7	3.10	1.80	4.70	5.6		.6	6	0	"
79	3-4	2246 / 2303	KASIMOFF - BLAKE	10.8	5.92	1.77	5.04	10.5		.6	10	0	"
80	3-5	0059 / 0111	" "	10.8	6.02	1.83	5.08	11.0		.6	10	0	"
81	3-5	0937 / 0945	" "	11.0	6.10	1.70	5.09	10.4		.6	11	-.01	"
82	3-5	1211 / 1224	"	10.8	5.82	1.75	5.03	10.2		.6	10	0	"
83	3-9	0940 / 0949	TURNER	5.5	3.36	1.70	4.89	5.7		.6	6	0	"
84	3-11	0715 / 0728	KASIMOFF - BLAKE	10.8	5.98	1.74	5.04	10.4		.6	11	0	"
85	3-11	1225 / 1238	" "	10.8	6.08	1.97	4.99	12.0		.6	11	+.01	"
86	3-11	1245 / 1306	"	27.0	20.8	0.56	4.99	11.6		.6	14	0	"
87	3-16	1251 / 1300	TURNER	5.5	4.15	1.83	4.90	7.6		.6	6	0	"
88	3-23	1020 / 1029	DIAS - TURNER	5.5	3.77	1.64	4.86	6.2		.6	7	0	"
89	3-30	0924 / 0930	TURNER	5.5	3.30	1.36	4.82	4.5		.6	7	0	"
90	4-6	0955 / 1004	"	5.5	3.31	1.33	4.80	4.4		.6	7	0	"
91	4-13	1000 / 1009	"	5.5	3.27	1.10	4.78	3.6		.6	7	0	"
92	4-19	1420 / 1429	"	5.5	3.19	1.19	4.78	3.8		.6	7	0	"
93	4-27	1324 / 1330	"	4.6	2.39	0.92	4.72	2.2		.6	6	0	"
94	5-4	0940 / 0946	"	4.7	2.49	0.92	4.71	2.3		.6	6	0	"
95	5-11	0930 / 0936	"	4.7	2.34	0.73	4.68	1.7		.6	6	0	"
96	5-17	1000 / 1006	"	5.2	2.72	0.99	4.73	2.7		.6	6	0	"
97	5-19	1340 / 1346	"	5.2	3.12	1.41	4.82	4.4		.6	5	0	"
98	5-25	1230 / 1236	"	3.0	1.50	0.73	4.62	1.1		.6	5	0	FC43
99	6-1	1000 / 1006	"	2.7	1.35	0.89	4.62	1.2		.6	4	0	FC44
100	6-8	1045 / 1051	"	1.8	0.72	0.60	4.78	0.43		.6	3	0	"
101	6-14	1155 / 1201	"	1.8	0.67	0.37	4.73	0.25		.5	3	0	FC43
102	6-22	1000 / 1003	"	1.7	0.59	0.31	4.71	0.18		.5	3	0	FC44
103	6-29	0920 / 0926	"	1.8	0.64	0.56	4.73	0.36		.5	3	0	"
104	7-6	1015	"				4.46	0.09		VOL.			
105	7-13	0940	"				4.32	0.06		"			
106	7-20	1030	"				4.20	0.04		"			
107	7-27	1100	"				4.37	0.09		"			
108	8-3	0750	"				4.22	0.06		"			
109	8-10	0940	"				4.40	0.09		"			
110	8-18	1100	"				4.28	0.05		"			
111	8-24	0930	"				4.30	0.07		"			
112	8-31	1030	"				4.27	0.05		"			
113	9-7	1000	"				4.26	0.06		"			
114	9-14	1132	"				4.33	0.06		"			
115	9-22	1105	KASIMOFF				4.39	0.07		"			
116	9-29	1109	"				4.39	0.07		"			

F. C. Dist. Form 53 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

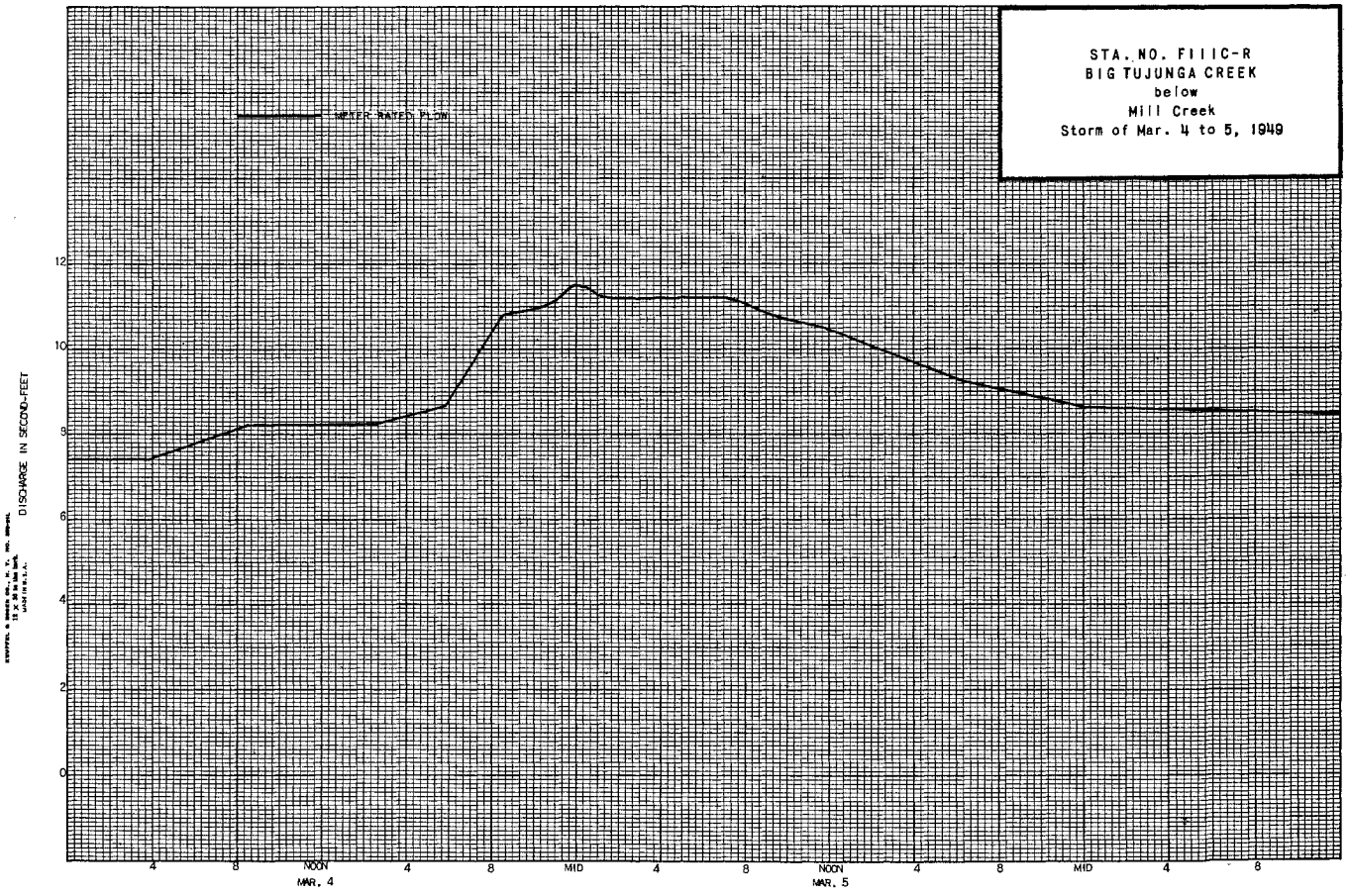
Sta. No. F111C-R

Daily discharge, in second-feet of BIG TUJUNGA CREEK below Mill Creek, for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	0.6	0.8	1.7	2.5	5.6	4.8	2.1	1.1	d 0.1	d 0.1	d +
2	0.3	0.6	0.8	1.6	2.7	5.6	4.7	2.1	1.0	0.1	+	+
3	0.3	0.6	1.2	1.6	2.7	6.9	4.7	2.1	0.8	0.1	+	+
4	0.3	0.6	1.3	1.5	2.7	8.6	4.6	2.0	0.7	0.1	+	+
5	0.4	0.6	0.8	1.6	2.7	10	4.4	1.8	0.6	0.1	+	+
6	0.4	0.6	0.9	1.6	2.6	8.2	4.4	1.6	0.5	0.1	+	+
7	0.4	0.6	0.9	1.6	3.3	6.9	4.2	1.6	0.4	0.1	+	+
8	0.4	0.6	0.9	1.6	3.3	6.1	4.1	1.5	0.4	0.1	+	+
9	0.4	0.6	1.0	1.8	2.7	5.8	4.0	1.5	0.4	+	+	+
10	0.4	0.6	1.0	1.8	2.6	5.8	3.8	1.6	0.3	+	+	+
11	0.4	0.6	1.0	2.1	3.9	11	3.7	a 1.6	0.3	+	+	+
12	0.4	0.6	1.0	1.9	4.8	10	3.6	1.4	0.3	+	+	+
13	0.4	0.6	1.0	2.0	3.7	8.9	3.6	1.3	0.3	+	+	+
14	0.4	0.6	1.0	2.2	3.1	8.2	3.6	1.6	0.2	+	+	+
15	0.4	0.7	1.0	2.0	3.2	7.8	3.7	2.1	0.2	+	+	+
16	0.4	0.7	1.1	1.9	3.2	7.4	3.6	a 2.5	0.2	+	+	+
17	0.4	0.7	4.2	1.8	3.3	7.2	3.6	2.7	0.2	+	+	+
18	0.7	0.7	1.7	1.8	3.4	6.9	3.7	2.8	0.2	+	+	+
19	0.6	0.7	1.4	2.6	3.6	6.9	3.7	4.1	0.2	+	+	+
20	0.5	0.7	1.4	7.7	4.0	6.9	3.6	3.6	0.2	+	+	+
21	0.4	0.7	1.3	4.6	4.0	6.5	3.2	2.7	0.2	+	+	+
22	0.4	0.7	1.6	4.0	4.0	6.1	2.9	2.0	0.1	+	+	+
23	0.4	0.7	1.6	3.1	4.1	6.1	2.7	1.6	d 0.1	+	+	+
24	0.4	0.8	1.4	2.6	5.2	5.8	2.5	1.3	0.1	+	+	+
25	0.4	0.8	1.4	2.6	7.2	5.8	2.4	1.0	0.1	+	+	+
26	0.4	0.8	1.9	2.8	7.5	5.3	2.2	1.0	0.1	+	+	+
27	0.4	0.8	5.5	2.8	8.4	5.2	2.2	1.0	0.3	0.1	+	+
28	0.6	0.8	2.8	2.8	6.7	5.0	2.2	1.0	0.4	0.1	+	+
29	0.6	0.8	2.0	2.5		4.7	2.2	1.1	0.4	0.1	+	+
30	0.6	0.8	1.9	2.5		4.6	2.1	1.2	d 0.3	0.1	+	d +
31	0.6		1.8	2.6		4.7		1.1		d 0.1	d +	
	13.4	20.3	47.6	75.3	111.1	210.5	104.7	56.6	10.6	1.3	0.1	
MEAN	0.43	0.68	1.54	2.43	3.97	6.79	3.49	1.83	0.35	0.04	+	+
ACRE-FEET	27.	40.	94.	149.	220.	418.	208.	112.	21.	2.6	0.2	+

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

YEAR OR PERIOD MEAN 1.78
ACRE-FEET 1290.



STATION F111B-R

BIG TUJUNGA CREEK above Edison Road

LOCATION: WATER-STAGE RECORDER, LAT. 34°18'18", LONG. 118°09'32", ON THE RIGHT (NORTHWEST) BANK 400 FEET ABOVE CROSSING OF EDISON ROAD, ABOUT 4 MILES UPSTREAM FROM BIG TUJUNGA DAM. ELEVATION OF GAGE ABOUT 2410 FEET. FORMER STATION F111-R WAS ABOUT 300 FEET DOWNSTREAM.

DRAINAGE AREA: 67 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - GRAVEL AND BOULDERS. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM CABLE CAR AT STATION.

RECORDER: INSTALLED ON NOVEMBER 30, 1930 AT STATION F111-R; REMOVED AUGUST 17, 1932. INSTALLED ON SEPTEMBER 15, 1932 AT STATION F111B-R OVER A 24-INCH DIAMETER CORRUGATED IRON PIPE STILLING WELL. AN AU CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: NONE.

DIVERSIONS: NONE.

RECORDS AVAILABLE:
AT STATION F111-R - NOVEMBER 30, 1930 TO AUGUST 17, 1932.
AT STATION F111B-R - SEPTEMBER 15, 1932 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:
1947-48
MAXIMUM 140 SECOND-FEET, APRIL 29.
MINIMUM 0.04 SECOND-FOOT, AUGUST 29.
1948-1949
MAXIMUM 16 SECOND-FEET, JANUARY 20.
MINIMUM PLUS FLOW SEVERAL MONTHS.
1930-1949 (STATIONS F111-R AND F111B-R).
MAXIMUM DISCHARGE NOT DETERMINED MARCH 2, 1938.
MAXIMUM DISCHARGE OF RECORD, 14,800 SECOND-FEET, JANUARY 23, 1943.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE U.S.G.S. WATER RESOURCES BRANCH.

DISCHARGE MEASUREMENTS OF BIG TUJUNGA CREEK near above Edison Road DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
505	10-9	0935 / 0950	STUNDEN	3.5	1.01	1.09	5.91	1.1		.5	5	0	FC40
506	10-28	1115 / 1125	TURNER	3.5	1.02	1.08	5.95	1.1		.5	5	0	"
507	11-12	1020 / 1025	"	3.6	1.30	1.08	6.00	1.4		.5	5	0	"
508	11-26	0953 / 1003	TURNER-VAN DER GOOT	3.5	1.40	1.07	6.04	1.5		.6	5	0	"
509	12-10	1030 / 1040	TURNER	4.8	2.38	1.22	6.06	2.9		.5	5	0	"
510	12-16	1140 / 1146	"	4.8	2.29	1.14	6.04	2.6		.6	5	0	"
511	12-30	1035 / 1041	"	4.7	2.26	1.11	6.04	2.5		.6	5	0	"
512	1-14	1025 / 1031	"	4.7	2.26	1.11	6.04	2.5		.6	5	0	"
513	1-28	1040 / 1046	"	4.7	2.25	1.16	6.04	2.6		.6	5	0	"
514	2-10	1045 / 1057	"	10.5	7.61	0.78	6.20	5.9		.6	11	0	"
515	2-25	1020 / 1026	"	6.4	4.43	0.84	6.12	3.7		.6	7	0	"
516	3-10	1024 / 1033	"	6.1	4.11	0.83	6.10	3.4		.6	6	0	"
517	3-24	1031 / 1040	"	7.1	5.61	0.96	6.16	5.4		.6	7	0	"
518	4-7	1030 / 1042	"	6.3	5.26	1.10	6.21	5.8		.6	7	0	"
519	4-21	1040 / 1049	"	6.1	4.45	0.88	6.15	3.9		.6	7	0	"
520	5-5	1100 / 1112	"	6.2	5.38	1.06	6.18	5.7		.6	7	0	"
521	5-19	0944 / 0956	"	6.1	4.35	0.80		3.5		.6	7		FC43
522	5-19	0956 / 1008	"	6.1	4.35	0.78	6.08	3.4		.6	7	0	"
523	6-16	1003 / 1012	"	3.1	1.69	0.71	5.92	1.2		.6	5	0	"
524	7-21	1005 / 1008	"	1.5	0.31	0.48	5.79	0.15		.5	3	0	FC40
525	8-18	0930 / 0933	"	1.5	0.31	0.35	5.79	0.11		.5	3	0	FC43

DISCHARGE MEASUREMENTS OF BIG TUJUNGA CREEK near above Edison Road DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
526	10-6	1124 / 1130	TURNER	2.1	0.52	0.67	5.68	0.45		.6	4	0	FC43
527	11-4	1035 / 1038	"	2.9	0.91	0.97	5.98	0.88		.5	4	0	"
528	12-9	1035 / 1041	"	4.7	2.06	0.68	6.03	1.4		.6	6	0	FC40
529	1-4	1000 / 1006	"	5.0	2.59	0.81	6.02	2.1		.6	6	0	"
530	2-1	1051 / 1100	"	6.5	4.13	0.70	6.09	2.9		.6	7	0	"
531	3-1	0940 / 0952	"	18.0	8.43	0.78	6.23	6.6		.6	10	0	"
532	3-5	1545 / 1602	KASIMOFF - BLAKE	21.5	11.4	0.79	6.36	9.0		.6	13	-.01	"
533	3-16	0955 / 1010	TURNER	18.0	10.2	0.76	6.28	7.8		.6	12	0	"
534	4-19	1010 / 1019	"	7.0	4.85	0.78	6.16	3.8		.6	7	0	"
535	5-25	0854 / 0900	"	4.3	2.45	0.65	5.99	1.6		.6	5	0	FC43
536	6-14	0940 / 0946	"	2.7	0.78	0.45	5.84	0.35		.5	5	0	"
537	8-18	0824 / 0825	"	0.6	0.16	0.81	5.80	0.13		.5	1	0	"
538	9-14	0858 / 1000	TURNER - KASIMOFF	0.6	0.14	0.71	5.85	0.10		.5	1	0	FC40

F. C. Dist. Form 52 4-46

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, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	1.2	1.9	2.6	2.7	3.8	5.8	9.0	3.2	d 0.5	0.1	0.1
2	0.7	1.2	2.0	2.6	2.9	3.8	5.8	7.4	3.8	0.4	0.1	0.1
3	0.7	1.1	1.8	2.6	3.1	3.6	6.6	6.4	3.4	d 0.4	0.1	0.1
4	0.6	1.2	5.2	2.6	3.1	3.6	6.6	5.6	3.1	0.3	0.1	0.1
5	0.7	1.2	10	2.6	18	3.4	6.1	5.4	2.9	0.3	0.1	0.1
6	0.8	1.1	5.4	2.6	13	3.4	6.1	4.6	2.6	0.3	0.1	0.1
7	0.9	1.2	3.9	2.6	7.0	3.4	5.8	4.6	2.3	d 0.3	0.1	0.1
8	1.1	1.2	3.4	2.6	5.6	3.4	5.6	4.4	2.0	d 0.3	0.1	0.1
9	1.1	1.4	3.1	2.6	5.4	3.6	5.6	4.4	1.9	0.2	0.1	0.1
10	1.2	1.2	2.9	2.6	5.4	3.4	5.6	4.4	1.8	0.2	0.1	0.1
11	1.2	1.2	2.7	2.6	4.8	3.2	5.4	4.1	1.9	0.2	0.1	0.1
12	1.1	1.4	2.6	2.6	4.4	3.2	5.1	3.9	1.8	0.2	0.1	0.1
13	1.2	1.4	2.6	2.6	4.1	5.5	4.8	3.6	1.6	0.1	0.1	0.1
14	1.5	1.4	2.6	2.6	4.1	9.4	4.8	3.4	1.5	0.1	0.1	0.1
15	1.4	1.4	2.6	2.6	4.1	7.4	4.8	3.2	1.4	0.1	0.1	0.1
16	1.2	1.5	2.6	2.4	4.1	6.1	4.6	2.9	1.2	0.1	0.1	0.1
17	1.1	1.5	2.6	2.4	4.1	9.4	4.4	2.7	1.1	0.1	0.1	0.1
18	1.1	1.5	2.6	2.4	4.6	7.4	4.1	2.9	1.1	0.1	0.1	0.1
19	1.0	1.5	2.6	2.4	4.6	6.6	3.9	3.4	1.0	0.1	0.1	0.1
20	1.0	1.4	2.6	2.4	4.4	7.0	3.9	3.4	1.0	0.1	0.1	0.1
21	1.0	1.4	2.6	2.4	4.1	6.1	3.9	3.4	1.0	0.1	0.1	0.1
22	1.1	1.5	2.6	2.4	3.9	5.8	4.1	3.1	1.2	0.1	0.1	0.2
23	1.2	1.5	2.6	2.6	3.9	5.6	3.9	2.7	1.1	0.1	0.1	0.4
24	1.1	1.5	2.6	2.6	3.8	12	3.8	2.7	1.0	0.1	0.1	0.4
25	1.1	1.5	2.6	2.6	3.6	13	3.6	2.7	0.9	0.1	0.1	0.4
26	1.0	1.5	2.6	2.6	3.6	9.0	3.4	2.7	0.8	0.1	0.1	0.4
27	1.0	1.5	2.6	2.6	3.8	7.4	3.2	2.9	0.8	0.1	0.1	0.3
28	1.1	1.5	2.6	2.6	3.8	7.0	9.1	3.1	0.7	0.1	0.1	0.3
29	1.4	1.5	2.6	2.6	3.9	7.0	4.9	2.9	d 0.6	0.1	0.1	0.2
30	1.5	1.5	2.6	2.6		6.6	13	2.9	d 0.5	0.1	0.1	0.2
31	1.4		2.6	2.7		6.1		2.9		0.1	0.1	
	33.1	41.1	94.3	79.3	143.9	186.2	202.4	121.7	49.2	5.5	3.1	4.9
MEAN	1.07	1.37	3.04	2.56	4.96	6.01	6.75	3.92	1.64	0.18	0.10	0.16
ACRE-FEET	66.	82.	187.	157.	285.	369.	401.	241.	98.	11.	6.1	9.7

Remarks:

YEAR OR PERIOD MEAN 2.64
ACRE-FEET 1910.

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

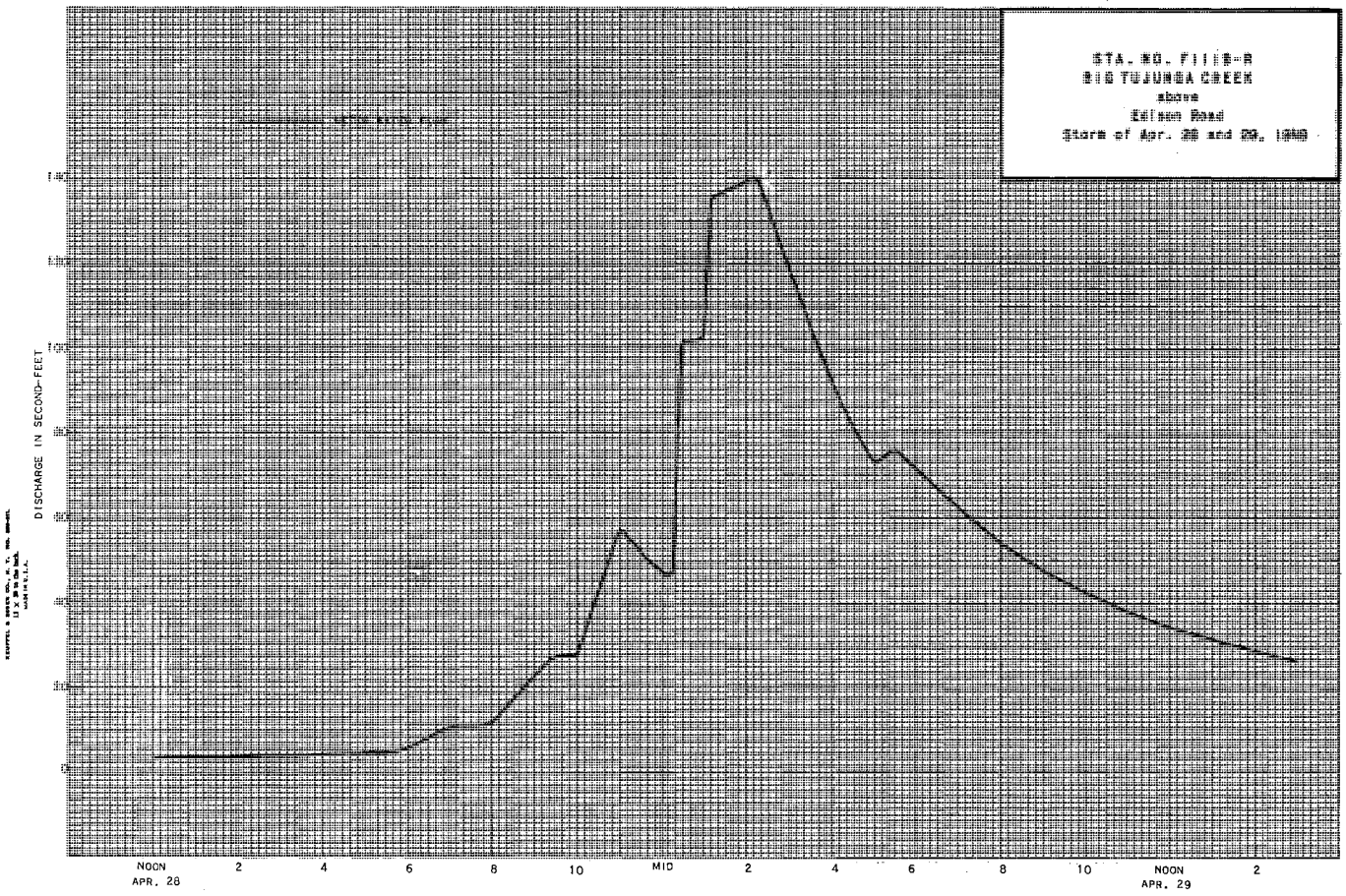
Sta. No. F111B-R

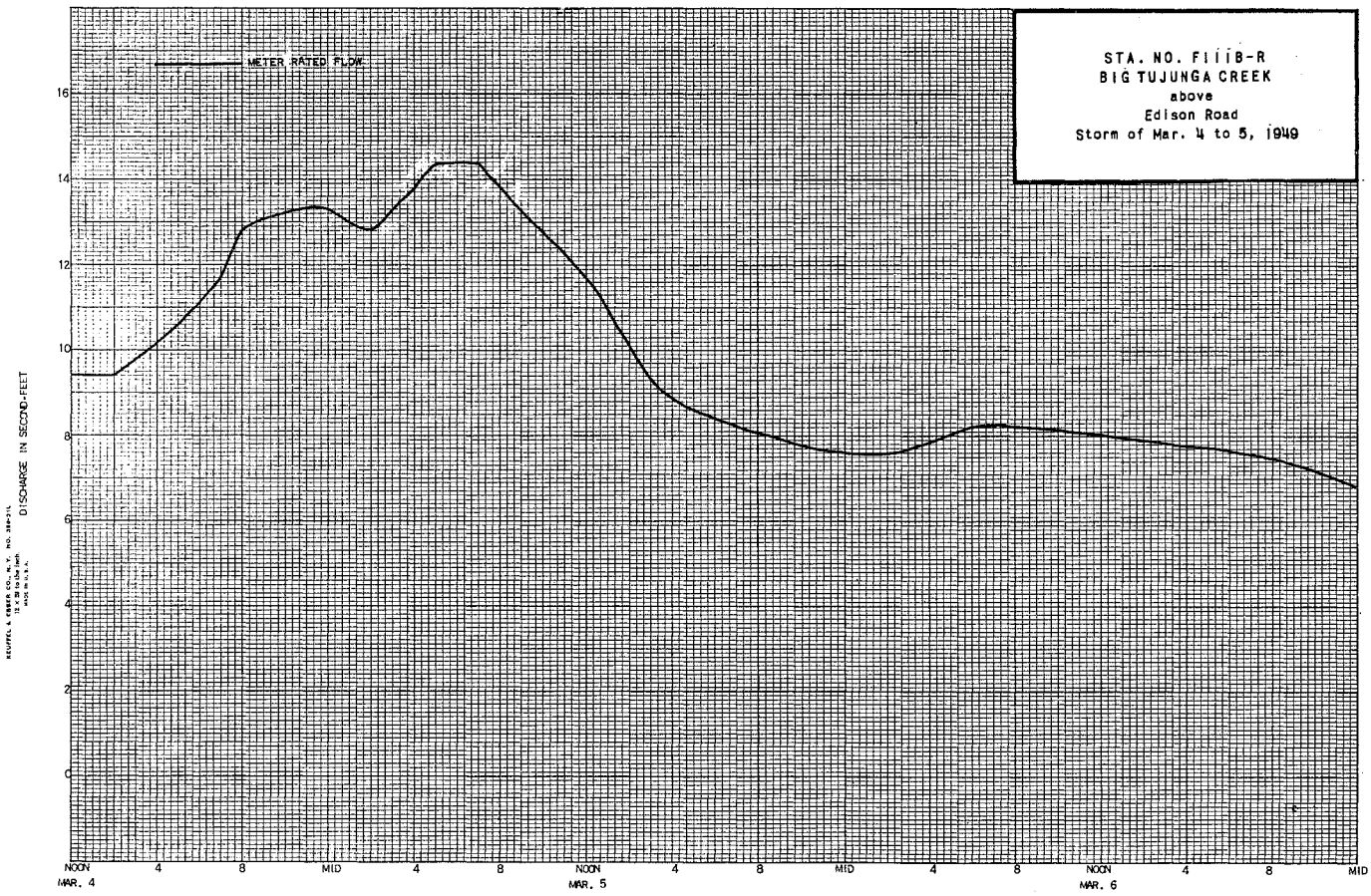
Daily discharge, in second-feet of Big Tujunga Creek above Edison Road, for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.8	1.2	2.3	3.1	6.6	5.4	2.6	1.5	0.2	0.1	d +
2	0.2	0.8	1.2	2.3	3.1	7.0	5.1	2.6	1.2	0.2	0.1	+
3	0.2	0.8	2.0	2.3	3.2	8.2	4.6	2.6	1.0	0.1	0.1	+
4	0.3	0.8	2.1	a 2.0	3.2	10	4.4	2.6	1.0	0.1	d 0.1	+
5	0.4	0.7	1.4	2.1	3.2	11	4.4	2.4	0.9	0.1	0.1	+
6	0.5	0.7	1.4	2.1	3.4	7.8	4.4	2.1	0.8	0.1	0.1	+
7	a 0.5	0.7	1.4	2.1	3.9	6.6	4.4	2.1	0.8	0.1	0.1	+
8	0.5	0.7	1.4	2.1	3.9	6.1	4.1	2.1	0.7	0.1	d 0.1	d +
9	0.6	0.8	1.4	2.4	3.4	5.8	4.1	2.3	0.6	0.1	a 0.1	+
10	0.6	0.8	1.4	2.4	3.2	6.0	3.9	2.4	0.5	0.1	0.1	+
11	a 0.6	0.8	1.4	2.8	4.4	11	3.9	2.3	0.5	0.1	0.1	+
12	0.6	0.8	1.5	2.5	5.4	9.8	3.8	2.1	0.5	0.1	0.1	+
13	0.7	0.9	1.5	2.6	4.1	9.0	3.8	2.0	0.5	0.1	0.1	0.1
14	0.7	0.9	1.6	2.9	3.8	8.2	3.6	2.3	0.4	0.1	0.1	0.1
15	0.7	0.8	1.8	2.6	3.6	7.8	3.6	2.7	0.3	0.1	0.1	0.1
16	0.6	0.8	2.0	2.5	3.8	7.8	3.6	3.1	0.2	0.1	0.1	0.1
17	0.6	0.8	5.8	2.4	3.8	7.4	3.6	3.2	0.3	+	a 0.1	0.1
18	1.0	0.8	2.3	2.4	3.8	7.0	3.6	3.4	0.4	+	0.1	0.1
19	0.9	0.8	1.8	3.4	3.9	7.4	3.8	4.8	0.6	+	0.1	0.1
20	0.8	0.9	1.5	10	4.4	7.8	3.6	3.6	0.5	+	0.1	0.1
21	0.6	0.9	1.4	6.2	4.4	6.4	3.4	2.7	0.3	+	+	0.1
22	0.6	1.0	1.8	5.3	4.4	6.1	3.2	2.3	0.2	+	0.1	0.1
23	0.6	1.0	1.8	4.1	4.6	5.8	3.1	2.0	0.1	+	0.1	0.1
24	0.6	1.0	1.6	3.4	6.1	5.6	2.9	1.8	0.1	+	0.1	0.1
25	0.6	1.0	1.5	3.4	8.2	5.8	3.1	1.5	0.1	0.1	+	0.1
26	0.6	1.1	2.5	3.7	8.6	5.6	3.1	1.2	0.2	0.1	+	0.1
27	0.6	1.1	5.8	3.7	9.4	5.4	3.1	1.1	0.4	0.1	+	0.1
28	0.8	1.1	3.4	3.7	7.8	5.1	2.9	1.2	0.6	0.1	+	0.1
29	0.9	1.2	2.7	3.3		5.1	2.9	1.6	0.6	0.1	0.1	0.1
30	0.9	1.2	2.4	3.3		4.8	2.7	1.8	0.4	0.1	+	0.1
31	0.8		2.3	a 3.4		5.4		1.8		0.1	+	
	18.8	26.5	63.3	99.7	128.1	219.4	112.1	72.3	16.2	2.5	2.4	1.8
MEAN	0.61	0.88	2.04	3.22	4.58	7.08	3.74	2.33	0.54	0.08	0.08	0.06
ACRE-FEET	37.	53.	126.	198.	254.	435.	222.	143.	32.	5.0	4.8	3.6

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

YEAR OR PERIOD MEAN 2.09
ACRE-FEET 1510.


STA. NO. F111B-R
BIG TUJUNGA CREEK
above
Edison Road
Storm of Apr. 28 and 29, 1949
METER RATED FLOW
DISCHARGE IN SECOND-FEET
NOON
APR. 28
2
4
6
8
10
MID
2
4
6
8
10
NOON
APR. 29
2


STA. NO. F111B-R
BIG TUJUNGA CREEK
above
Edison Road
Storm of Mar. 4 to 5, 1949
METER RATED FLOW
DISCHARGE IN SECOND-FEET
0
2
4
6
8
10
12
14
16
NOON
MAR. 4
4
8
MID
4
8
NOON
MAR. 5
4
8
MID
4
8
NOON
MAR. 6
4
8
MID

STATION F168-R

BIG TUJUNGA CREEK below Big Tujunga Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°17'20", LONG. 118°11'38", ON THE RIGHT (NORTHWEST) BANK, 2800 FEET BELOW BIG TUJUNGA DAM AND ABOUT 12 MILES NORTHEAST OF SUNLAND. ELEVATION OF ZERO GAGE HEIGHT, 1063.34 FEET.

DRAINAGE AREA: 82.7 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, 1947 TO SEPTEMBER 30, 1949.

REGULATION: FLOW REGULATED BY BIG TUJUNGA DAM.

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, 1949.

EXTREMES OF DISCHARGE:

1947-1948
MAXIMUM 54 SECOND-FEET JULY 15.
MINIMUM 0.4 SECOND-FOOT, SEPTEMBER 14.

1948-1949
MAXIMUM 4.5 SECOND-FEET, AUGUST 31.
MINIMUM PLUS FLOW SEVERAL DAYS.

1932-1949
MAXIMUM 33,000 SECOND-FEET, ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW SEVERAL DAYS IN OCTOBER 1936.

ACCURACY: GOOD.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

DISCHARGE MEASUREMENTS OF BIG TUJUNGA CREEK

AT ~~NEAR~~ below Big Tujunga Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 46

NO.	DATE	BEGIN	END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1131	10-9	1325	1335	TURNER	7.0	4.60	1.09	2.77	5.0		.6	7	0	FC43
1132	10-15	1405	1415	"	7.0	4.66	1.07	2.76	5.0		.6	7	0	"
1133	10-22	1340	1350	"	7.0	4.53	1.10	2.75	5.0		.6	7	0	"
1134	10-30	1310	1320	"	6.5	4.33	1.15	2.74	5.0		.6	7	0	"
1135	11-5	1150	1205	"	7.0	4.59	1.02	2.73	4.7		.6	7	0	"
1136	11-19	1250	1300	"	6.5	4.51	0.98		4.4		.6	7		"
1137	12-3	1330	1340	"	6.5	4.47	0.96		4.3		.6	7		"
1138	12-17	1430	1440	"	6.5	4.55	0.97		4.4		.6	7		"
1139	1-7	1530	1542	"	6.5	4.12	1.07		4.4		.6	7		"
1140	1-21	1400	1412	"	6.5	4.03	1.07		4.3		.6	7	"	"
1141	2-4	1005	1014	"	6.5	3.94	1.09		4.3		.6	7		"
1142	2-18	1500	1506	"	6.5	2.57	0.23		0.60	FLOAT	7			
1143	3-3	1400	1403	"	3.7	0.79	0.73		0.58		.5	4		FC43
1144	4-2	1140	1143	"	3.5	0.89	0.76		0.68		.5	4		FC44
1145	4-14	1427	1430	TURNER - SILL	4.0	1.06	0.80		0.85		.6	4		FC43
1146	4-22	1057	1100	TURNER	4.0	1.02	0.93		0.95		.5	4		"
1147	4-28	1410	1422	"	5.6	3.85	0.73	2.78	2.8		.6	7	0	"
1148	5-12	1506	1515	"	6.0	5.19	1.33	2.94	6.9		.6	7	0	"
1149	5-26	1309	1318	"	6.6	5.32	1.48	2.94	7.9		.6	8	0	"
1150	6-9	1239	1248	"	6.5	5.16	1.49	2.92	7.7		.6	7	0	"
1151	6-22	1431	1440	TURNER SILL	6.5	5.27	1.40	2.92	7.4		.6	7	0	"
1152	7-8	1145	1157	TURNER	6.5	5.64	1.28	2.98	7.2		.6	7	0	"
1153	7-14	1306	1315	"	6.5	5.90	1.17	3.02	6.9		.6	7	0	"
1154	7-20	1405	1426	"	19.1	20.0	1.23	3.44	24.6		.6	12	0	"
1155	8-5	1400	1412	"	6.5	5.76	2.01	3.24	11.6		.6	7	0	"
1156	8-10	1255	1303	TURNER - SILL	7.0	6.43	2.35	3.39	15.1		.6	8	0	"
1157	8-26	1400	1409	TURNER	5.2	3.39	0.71	2.76	2.4		.6	6	0	"
1158	9-8	0900	0903	"	1.0	0.54	1.72	2.55	0.93		.6	3	0	"
1159	9-15	1420	1426	"	2.8	0.70	0.81	2.70	0.57		.5	6	0	"
1160	9-29	1307	1312	TURNER - LANG	3.2	0.73	1.37	2.91	1.0		.5	4	0	"

DISCHARGE MEASUREMENTS OF BIG TUJUNGA CREEK

AT ~~NEAR~~ below Big Tujunga Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN	END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1161	10-6	1324	1330	TURNER	2.6	0.39	1.10	2.82	0.43		.5	5	0	FC43
1162	10-19	1500	1506	"	4.0	1.23	0.57		0.70		.5	6		"
1163	10-28	1440	1446	"	4.0	1.21	0.64		0.77		.5	5		"
1164	11-24	1320	1322	"	0.80	0.04	0.25		0.01		FLOAT	1		
1165	1-5	1312	1315	"	2.7	0.60	0.38	3.15	0.23		.5	5	0	FC43
1166	1-27	1342	1345	"	2.9	0.55	0.47	3.15	0.26		.5	3	0	"
1167	2-1	1541	1550	"	6.7	3.05	1.02	3.40	3.1		.6	7	0	"
1168	2-9	1500	1509	"	6.5	2.80	1.14	3.38	3.2		.6	7	0	"
1169	2-23	0950	0959	"	6.3	2.87	1.18	3.38	3.4		.6	7	0	"
1170	3-9	1321	1330	"	6.2	2.76	1.34	3.40	3.7		.6	8	0	"
1171	3-29	1335	1344	DIAS - TURNER	6.0	2.63	1.33	3.40	3.5		.6	7	0	"
1172	4-6	1450	1459	TURNER	5.4	0.87	0.24	3.09	0.21		FLOATS	6	0	"
1173	4-20	1215	1224	"	5.7	1.75	0.63	3.24	1.1		.5	7	0	FC43
1174	5-4	1135	1144	"	6.0	2.46	1.06	3.34	2.6		.6	7	0	"
1175	5-19	1105	1114	"	6.0	2.66	1.24	3.38	3.3		.6	7	0	"
1176	6-1	1251	1300	"	6.1	2.77	1.19	3.39	3.3		.6	7	0	"
1177	6-15	1245	1254	"	6.1	3.08	1.43	3.45	4.4		.6	7	0	"
1178	6-29	1150	1159	"	6.0	2.81	1.35	3.43	3.8		.6	7	0	"
1179	7-6	1436	1445	"	6.0	2.93	1.40	3.43	4.1		.6	7	0	"
1180	7-13	1509	1518	"	6.0	2.87	1.39	3.43	4.0		.6	7	0	FC23
1181	7-27	1330	1339	"	6.2	2.90	1.38	3.43	4.0		.6	7	0	FC43
1182	8-10	1245	1254	"	6.2	2.82	1.42	3.43	4.0		.6	7	0	"
1183	8-24	1400	1409	"	6.5	2.72	1.32	3.41	3.6		.6	7	0	"
1184	8-31	1315	1324	"	6.0	2.97	1.52	3.46	4.5		.6	8	0	"
1185	9-14	1454	1500	KASIMOFF - TURNER	6.1	2.97	1.41	3.46	4.2		.6	7	0	FC23
1186	9-29	1527	1537	KASIMOFF	6.1	2.92	1.23	3.46	3.6		.6	7	0	FC47

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F168-R

Daily discharge, in second-feet of BIG TUJUNGA CREEK below Big Tujunga Dam, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.2	4.9	4.3	4.4	4.3	0.6	0.6	2.8	8.0	7.2	12.4	0.9
2	5.1	4.8	4.3	4.4	4.3	0.6	0.7	2.8	8.4	7.2	12.2	0.9
3	5.1	4.8	4.3	4.4	4.3	0.6	0.7	2.8	8.4	7.2	12.0	0.9
4	5.1	4.7	4.3	4.4	4.3	0.6	0.7	2.8	8.0	7.2	11.8	1.0
5	5.1	4.7	4.3	4.4	5.2	0.6	0.7	2.8	8.0	7.2	11.6	1.1
6	5.1	4.7	4.3	4.4	4.3	0.6	0.7	2.8	8.0	7.2	11.4	0.8
7	5.0	4.7	4.3	4.4	4.3	0.6	0.7	2.8	7.6	7.2	11.2	0.6
8	5.0	4.7	4.3	4.4	4.3	0.6	0.8	2.8	7.6	7.2	11.0	0.8
9	5.0	4.7	4.3	4.4	2.4	0.6	0.8	2.8	7.6	7.2	10.9	0.9
10	5.0	4.6	4.4	4.4	0.6	0.6	0.8	2.8	7.6	7.2	13.4	0.9
11	5.0	4.6	4.4	4.4	0.6	0.6	0.8	5.5	7.6	7.2	15.0	1.0
12	5.0	4.6	4.4	4.4	0.6	0.6	0.8	6.8	7.6	7.2	14.5	0.8
13	5.0	4.5	4.4	4.4	0.6	0.6	0.8	7.2	7.6	7.2	13.0	0.5
14	5.0	4.5	4.4	4.4	0.6	0.6	0.8	7.2	7.6	6.8	11.5	0.4
15	5.0	4.5	4.4	4.3	0.6	0.6	0.8	7.6	7.6	28	9.6	0.5
16	5.0	4.4	4.4	4.3	0.6	0.6	0.8	7.6	7.6	26	6.8	0.6
17	5.0	4.4	4.4	4.3	0.6	0.6	0.9	7.6	7.6	26	5.5	0.6
18	5.0	4.4	4.4	4.3	0.6	0.6	0.9	7.6	7.6	25	10.1	0.7
19	5.0	4.4	4.4	4.3	0.6	0.6	0.9	7.6	7.6	24	16.6	0.8
20	5.0	4.4	4.4	4.3	0.6	0.6	0.9	7.6	7.6	24	12.0	6.4
21	5.0	4.4	4.4	4.3	0.6	0.6	1.0	7.6	7.6	24	9.6	5.0
22	5.0	4.4	4.4	4.3	0.6	0.6	1.0	7.6	7.6	19.8	8.8	1.4
23	5.0	4.4	4.4	4.3	0.6	0.6	1.0	7.6	7.6	14.3	7.6	0.7
24	5.0	4.4	4.4	4.3	0.6	0.6	1.0	8.0	7.2	14.1	5.8	0.7
25	5.0	4.4	4.4	4.3	0.6	0.6	1.0	8.0	7.2	13.9	4.0	0.7
26	5.0	4.4	4.4	4.3	0.6	0.6	1.0	8.0	7.2	13.7	2.6	0.7
27	5.0	4.3	4.4	4.3	0.6	0.6	0.8	8.0	7.2	13.5	1.9	0.7
28	5.0	4.3	4.4	4.3	0.6	0.6	2.0	8.0	7.2	13.3	1.4	0.7
29	5.0	4.3	4.4	4.3	0.6	0.6	2.9	8.0	7.2	13.1	1.8	0.7
30	5.0	4.3	4.4	4.3		0.6	2.8	8.0	7.2	12.8	0.7	0.7
31	4.9		4.4	4.3		0.6		8.0		12.6	0.8	
	155.6	135.6	135.5	134.7	49.7	18.6	30.1	187.1	228.4	418.5	277.5	33.1
MEAN	5.02	4.52	4.37	4.35	1.71	0.60	1.00	6.04	7.61	13.5	8.95	1.10
ACRE-FEET	309.	269.	269.	267.	99.	37.	60.	371.	453.	830.	550.	66.

Remarks:

YEAR OR PERIOD MEAN 4.93
ACRE-FEET 3580.

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F168-R

Daily discharge, in second-feet of BIG TUJUNGA CREEK below Big Tujunga Dam, for the year ending September 30, 1946

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	0.8	+	0.2	3.1	3.5	0.2	2.6	3.3	4.1	4.0	4.5
2	0.6	0.8	+	0.2	3.1	3.5	0.2	2.6	3.3	4.1	4.0	4.5
3	0.5	0.8	0.1	0.2	3.1	3.6	0.2	2.6	3.3	4.1	4.0	4.4
4	0.5	0.8	0.2	0.2	3.1	3.6	0.2	2.6	3.3	4.1	4.0	4.4
5	0.5	0.8	0.2	0.2	3.2	3.6	0.2	2.6	3.3	4.1	4.0	4.4
6	0.4	0.8	0.2	0.2	3.2	3.6	0.2	2.6	3.3	4.1	4.0	4.4
7	0.4	0.8	0.2	0.2	3.2	3.7	0.2	2.6	3.3	4.1	4.0	4.4
8	0.4	0.8	0.2	0.2	3.2	3.7	0.2	2.6	3.3	4.1	4.0	4.3
9	0.5	0.7	0.2	0.2	3.2	3.7	0.2	2.6	3.3	4.1	4.0	4.3
10	0.5	0.4	0.2	0.2	3.2	3.7	0.2	2.6	3.9	4.0	4.0	4.3
11	0.5	0.2	0.2	0.2	3.2	3.7	0.2	2.6	4.4	4.0	4.0	4.3
12	0.6	0.2	0.2	0.2	3.2	3.7	0.2	2.6	4.4	4.0	3.9	4.2
13	0.6	0.1	0.2	0.2	3.3	3.7	0.2	3.0	4.4	4.0	3.9	4.2
14	0.6	0.1	0.2	0.2	3.3	3.7	0.8	3.3	4.4	4.0	3.9	4.2
15	0.7	0.1	0.2	0.2	3.3	3.7	1.1	3.3	4.4	4.0	3.9	4.2
16	0.7	0.1	0.2	0.2	3.3	3.7	1.1	3.3	4.4	4.0	3.8	4.2
17	0.7	0.1	0.2	0.2	3.3	3.7	1.1	3.3	4.4	4.0	3.8	4.2
18	0.7	0.1	0.2	0.2	3.3	3.7	1.1	3.3	4.4	4.0	3.8	4.1
19	0.7	0.1	0.2	0.2	3.3	3.7	1.1	3.3	4.4	4.0	3.7	4.1
20	0.7	0.1	0.2	0.2	3.4	3.7	1.1	3.3	4.4	4.0	3.7	4.1
21	0.7	+	0.2	0.2	3.4	3.7	1.1	3.3	4.4	4.0	3.7	4.1
22	0.7	+	0.2	0.2	3.4	3.7	1.1	3.3	1.7	4.0	3.7	4.1
23	0.7	+	0.2	0.3	3.4	3.5	1.1	3.3	0.2	4.0	3.6	4.1
24	0.8	+	0.2	0.3	3.4	1.8	1.1	3.3	2.2	4.0	3.6	4.1
25	0.8	+	0.2	0.3	3.4	0.2	1.1	3.3	4.1	4.0	3.6	4.1
26	0.8	+	0.2	0.3	3.5	0.2	1.1	3.3	4.1	4.0	3.6	4.0
27	0.8	+	0.2	0.3	3.5	0.2	1.1	3.3	4.1	4.0	3.6	4.0
28	0.8	+	0.2	2.2	3.5	0.2	2.1	3.3	4.1	4.0	3.6	4.0
29	0.8	+	0.2	3.1		0.2	2.6	3.3	4.1	4.0	3.6	4.0
30	0.8	+	0.2	3.1		0.2	2.6	3.3	4.1	4.0	4.2	4.0
31	0.8		0.2	3.1		0.2		3.3		4.0	4.5	
	19.9	8.7	5.7	17.4	92.0	87.3	25.0	93.6	110.7	124.9	119.7	126.2
MEAN	0.64	0.29	0.18	0.56	3.29	2.82	0.83	3.02	3.69	4.03	3.86	4.21
ACRE-FEET	39.	17.	11.	35.	182.	173.	50.	186.	220.	248.	237.	250.

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

YEAR OR PERIOD MEAN 2.28
ACRE-FEET 1650.

STATION F213-R
BIG TUJUNGA above Gold Canyon

LOCATION: WATER-STAGE RECORDER, LAT. 34°18'02", LONG. 118°16'02", ON THE LEFT (SOUTH) BANK 2 MILES ABOVE MOUTH OF CANYON 7 MILES BELOW BIG TUJUNGA DAM AND ABOUT 4 MILES NORTHEAST OF SUNLAND. ELEVATION OF ZERO GAGE HEIGHT, 1571.80 FEET. THE FORMER STATION U11-R WAS ABOUT 1000 FEET UPSTREAM AT THE LOCATION OF A PARTLY CONSTRUCTED AND ABANDONED SUBMERGED 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, 1947 TO SEPTEMBER 30, 1949.

REGULATION: FLOW FROM 82.3 SQUARE MILES REGULATED BY BIG TUJUNGA DAM. FLOW FROM 23.7 SQUARE MILES UNREGULATED.

DIVERSIONS: THERE ARE SEVERAL SMALL IRRIGATION DIVERSIONS ABOVE THE STATION.

RECORDS AVAILABLE: OCTOBER 1, 1932 TO SEPTEMBER 30, 1949. (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:

1947-1948
MAXIMUM 52.9 SECOND-FEET, FEBRUARY 5.
MINIMUM 0.7 SECOND-FOOT, SEPTEMBER 16.

1948-1949
MAXIMUM 20 SECOND-FEET, JANUARY 20.
MINIMUM 0.6 SECOND-FOOT, SEVERAL DAYS IN OCTOBER.

1916-1949
MAXIMUM 50,000 SECOND-FEET, ESTIMATED MARCH 2, 1938.
MINIMUM 0.6 SECOND-FOOT, OCTOBER 1949.

ACCURACY: GOOD.

OPERATION: CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE U.S.G.S. WATER RESOURCES BRANCH.

DISCHARGE MEASUREMENTS OF BIG TUJUNGA CREEK

AT above Gold Canyon DURING THE YEAR ENDING SEPTEMBER 30, 1948

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
974	10-9	0955 / 1005	TURNER	6.0	5.06	1.19	5.99	6.0		.6	6	0	FC43
975	10-15	0855 / 0905	"	6.0	5.06	1.11	6.04	5.6		.6	6	0	"
976	10-22	0900 / 0910	"	6.0	5.05	1.11	6.02	5.6		.6	6	0	"
977	10-29	0850 / 0900	"	6.0	5.17	1.18	6.02	6.1		.6	6	0	"
978	11-5	0900 / 0910	"	6.0	5.02	1.09	6.00	5.5		.6	6	0	"
979	11-13	1225 / 1235	"	6.0	5.11	0.98	6.05	5.0		.6	6	0	"
980	11-20	1115 / 1125	"	6.0	5.16	1.12	6.04	5.8		.6	6	0	"
981	11-28	1205 / 1217	"	6.0	5.04	1.07	6.02	5.4		.6	6	0	"
982	12-4	1250 / 1300	"	6.0	5.78	1.47	6.16	8.5		.6	6	0	"
983	12-11	0925 / 0935	"	6.0	5.62	1.17	6.10	6.6		.6	6	0	"
984	12-18	1405 / 1415	"	6.0	5.52	1.12	6.08	6.2		.6	6	0	"
985	12-23	1530 / 1540	"	6.0	5.44	1.10	6.09	6.0		.6	6	0	"
986	12-31	1520 / 1529	"	6.0	5.50	1.09	6.08	6.0		.6	6	0	"
987	1-8	1230 / 1242	"	6.0	5.51	1.12	6.09	6.2		.6	6	0	"
988	1-15	0925 / 0934	"	6.0	5.42	1.09	6.07	5.9		.6	6	0	"
989	1-22	1305 / 1314	"	6.0	5.46	1.08	6.08	5.9		.6	6	0	"
990	1-29	1430 / 1439	"	6.0	5.52	1.09	6.07	6.0		.6	6	0	"
991	2-5	0950 / 1000	"	28.0	19.0	1.15	6.55	21.9		.6	7	0	"
992	2-7	1230 / 1242	"	22.0	11.8	0.69	6.26	8.2		.6	9	0	"
993	2-11	1500 / 1509	"	6.0	4.99	0.88	6.02	4.4		.6	6	0	"
994	2-19	1035 / 1044	"	6.0	4.52	0.75	5.97	3.4		.6	6	0	"
995	2-26	1306 / 1315	"	6.0	4.27	0.66	5.91	2.8		.6	6	0	"
996	3-4	1530 / 1536	"	4.6	3.13	0.80	5.89	2.5		.6	5	0	"
997	3-11	1351 / 1400	"	4.5	3.03	0.86	5.87	2.6		.6	5	0	"
998	3-17	1100 / 1109	"	6.1	6.15	1.64	6.16	10.1		.6	6	0	"
999	3-25	1435 / 1445	"	6.1	6.31	1.62	6.21	10.2		.6	6	0	"
1000	4-1	1536 / 1545	"	6.0	4.75	0.93	5.99	4.4		.6	6	0	"
1001	4-8	1541 / 1550	"	6.0	4.67	0.84	5.96	3.9		.6	6	0	"
1002	4-15	1425 / 1431	"	4.6	3.35	1.04	5.91	3.5		.6	5	0	"
1003	4-22	1457 / 1503	"	4.8	3.58	0.98	5.80	3.5		.6	5	0	"
1004	4-29	1513 / 1522	"	18.0	11.8	0.87	6.26	10.3		.6	9	0	"
1005	5-6	0915 / 0921	"	4.8	4.41	1.27	6.08	5.6		.6	5	0	"
1006	5-13	1248 / 1300	"	14.7	5.65	1.31	6.15	7.4		.6	8	0	"
1007	5-18	1456 / 1505	"	6.0	6.00	1.43	6.16	8.6		.6	7	0	"
1008	5-27	1255 / 1304	"	6.0	5.65	1.61	6.16	9.1		.6	6	0	"
1009	6-2	1500 / 1508	"	6.0	6.21	1.48	6.22	9.2		.6	6	0	"
1010	6-10	1106 / 1115	"	6.0	5.79	1.50	6.20	8.7		.6	6	0	"
1011	6-17	1515 / 1524	"	6.0	5.55	1.30	6.18	7.2		.6	6	0	"
1012	6-23	1506 / 1515	"	6.0	5.65	1.26	6.18	7.1		.6	6	0	"
1013	6-30	1510 / 1519	"	13.0	5.10	1.16	6.17	5.9		.6	8	0	"
1014	7-8	1535 / 1544	"	13.0	5.21	1.09	6.14	5.7		.6	8	0	"
1015	7-15	1000 / 1009	"	13.3	5.40	1.17	6.17	6.3		.6	8	0	"
1016	7-22	1500 / 1515	"	22.0	13.8	1.66	6.43	22.9		.6	11	0	"
1017	7-28	1100 / 1115	"	21.0	9.57	1.37	6.29	13.1		.6	11	0	"
1018	8-4	1455 / 1510	"	21.0	8.51	1.25	6.24	10.6		.6	11	0	FC43
1019	8-12	1415 / 1427	"	21.5	9.14	1.38	6.30	12.6		.6	11	0	"
1020	8-19	1430 / 1442	"	21.0	8.56	1.32	6.28	11.3		.6	10	0	"
1021	8-25	1135 / 1144	"	15.0	4.84	0.91	6.10	4.4		.5	9	0	"
1022	9-2	1440 / 1446	"	6.0	1.86	0.65	5.96	1.2		.6	6	0	"
1023	9-10	1043 / 1049	"	6.0	1.48	0.57	5.93	0.84		.5	6	0	"
1024	9-16	1515 / 1521	"	3.5	0.65	1.03	5.90	0.67		.5	5	0	"
1025	9-23	1255 / 1301	"	7.0	2.06	0.83	5.95	1.7		.5	7	0	"
1026	9-30	1100 / 1106	"	6.8	1.41	0.71	5.94	1.0		.5	7	0	"

DISCHARGE MEASUREMENTS OF BIG TUJUNGA CREEK

~~AT NEAR~~ above Gold Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1027	10-7	1116 / 1119	TURNER	4.0	1.02	0.68	5.92	0.69		.5	4	0	FC43
1028	10-14	1121 / 1127	"	4.3	1.21	0.83	5.93	1.0		.5	4	0	"
1029	10-20	1555 / 1600	TURNER - LYNN	4.4	1.06	0.59	5.95	0.63		.5	4	0	"
1030	10-29	1505 / 1511	TURNER	4.8	1.28	0.70	5.94	0.89		.5	5	0	"
1031	11-4	1600 / 1606	"	4.8	1.24	0.52	5.94	0.64		.5	5	0	"
1032	11-12	1500 / 1506	"	4.8	1.30	0.67	5.97	0.87		.5	5	0	"
1033	11-18	1505 / 1511	"	4.8	1.26	0.63	5.97	0.79		.5	5	0	"
1034	11-24	1630 / 1636	"	4.8	1.40	0.66	5.99	0.93		.5	5	0	"
1035	12-2	1504 / 1510	"	4.8	1.42	0.65	6.00	0.92		.5	5	0	"
1036	12-10	115C / 1156	"	5.0	1.44	0.69	5.99	1.0		.5	5	0	"
1037	12-16	1305 / 1311	"	5.0	1.32	0.74	5.99	0.98		.5	5	0	"
1038	12-23	1355 / 1404	"	7.0	2.30	0.78	6.05	1.8		.5	8	0	"
1039	12-30	1404 / 141C	"	5.6	2.64	1.29	6.10	3.4		.6	6	0	"
1040	1-5	0900 / 0906	"	5.6	2.67	0.79	6.05	2.1		.6	6	0	"
1041	1-13	1005 / 1014	TURNER - WILLUT	5.6	2.78	0.94	6.07	2.6		.6	6	0	"
1042	1-19	1030 / 1036	TURNER	5.7	2.92	0.86	6.07	2.5		.6	6	0	"
1043	1-21	0915 / 0924	"	17.0	6.86	1.11	6.21	7.6		.6	9	0	"
1044	1-26	1147 / 1156	"	15.5	5.53	0.78	6.13	4.3		.6	9	0	"
1045	2-2	1005 / 1014	"	15.5	6.18	0.87	6.18	5.4		.6	9	0	"
1046	2-10	1355 / 1404	"	16.0	6.38	0.97	6.18	6.2		.6	9	0	"
1047	2-16	150C / 1509	"	15.5	6.22	1.04	6.17	6.5		.6	9	0	"
1048	2-23	1546 / 1555	"	15.5	5.99	1.00	6.17	6.0		.6	9	0	"
1049	3-2	0920 / 0929	"	15.7	6.73	1.22	6.22	8.2		.6	9	0	"
1050	3-10	1355 / 1404	"	15.7	6.79	1.16	6.18	7.9		.6	9	0	"
1051	3-16	1603 / 1612	"	15.5	7.09	1.13	6.20	8.1		.6	9	0	"
1052	3-24	1400 / 1412	DIAS - TURNER	15.5	7.05	1.08	6.19	7.6		.6	9	0	"
1053	3-30	1445 / 1454	TURNER	14.5	5.15	0.68	6.09	3.5		FLOATS .6	9	0	"
1054	4-7	1121 / 1130	"	6.5	3.98	0.75	6.07	3.0		FLOATS .6	7	0	"
1055	4-14	1055 / 1101	"	6.6	3.68	0.68	6.03	2.5		.6	7	0	"
1056	4-20	0840 / 0849	"	7.0	3.91	0.79	6.05	3.1		.6	7	0	"
1057	4-28	1020 / 1029	"	6.0	3.47	0.72	6.02	2.5		.6	6	0	"
1058	5-5	1605 / 1614	"	6.0	3.73	0.75	6.07	2.8		.6	7	0	"
1059	5-12	1400 / 1409	"	6.2	3.76	0.72	6.09	2.7		.6	7	0	"
1060	5-18	1145 / 1154	"	6.7	4.18	1.10	6.14	4.6		.6	7	0	"
1061	5-26	0945 / 0954	"	7.0	4.10	1.02	6.06	4.2		.6	7	0	"
1062	6-2	1130 / 1139	"	7.2	3.97	0.93	6.04	3.7		.6	7	0	"
1063	6-9	1255 / 1304	"	7.0	3.63	0.80	5.99	2.9		.6	7	0	"
1064	6-15	0850 / 0859	"	7.0	3.88	0.98	6.04	3.8		.6	7	0	"
1065	6-23	1620 / 1626	"	6.8	3.45	0.67	5.99	2.3		.6	7	0	"
1066	6-29	1550 / 1556	"	7.0	3.60	0.75	6.02	2.7		.6	7	0	"
1067	7-7	1030 / 1039	"	6.0	3.73	0.86	5.99	3.2		.6	6	0	"
1068	7-14	1645 / 1654	"	6.7	3.51	0.74	5.97	2.6		.6	7	0	"
1069	7-21	092C / 0929	"	6.7	3.22	0.99	5.87	3.2		.6	7	0	"
1070	7-28	0900 / 0909	"	6.7	3.24	1.05	5.89	3.4		.6	7	0	"
1071	8-4	1009 / 1015	"	6.5	2.96	0.95	5.85	2.8		.6	7	0	"
1072	8-11	1000 / 1009	"	6.8	3.10	1.10	5.87	3.4		.6	7	0	"
1073	8-18	1515 / 1521	"	6.8	2.13	1.13	5.72	2.4		.6	6	0	"
1074	8-25	075C / 0756	"	6.0	2.40	1.08	5.74	2.6		.6	6	0	"
1075	8-31	0805 / 0814	"	6.1	2.45	1.27	5.75	3.1		.6	7	0	"
1076	9-8	0845 / 0851	"	6.1	2.43	1.32	5.78	3.2		.6	7	0	"
1077	9-15	0915 / 0924	"	6.5	2.46	1.42	5.79	3.5		.6	7	0	"
1078	9-21	0844 / 0856	BOLLINGER	6.5	3.07	1.30	5.82	4.0		.6	8	0	FC6
1079	9-28	0905 / 0920	"	6.0	2.36	1.27	5.80	3.0		.6	8	0	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F213-R

Daily discharge, in second-feet of BIG TUJUNGA CREEK above Gold Canyon, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.7	5.2	5.7	6.2	5.8	2.7	4.6	6.9	9.0	6.2	12	1.5
2	5.8	5.2	5.8	6.4	5.8	2.6	4.7	6.7	9.2	6.2	11	1.2
3	5.7	5.2	5.8	6.2	6.0	2.6	5.2	6.4	9.0	6.0	11	1.1
4	5.5	5.2	7.9	6.2	6.0	2.5	4.9	6.2	9.0	6.2	11	1.1
5	5.7	5.3	14.0	6.2	22	2.5	4.5	5.8	9.0	6.2	11	1.0
6	5.7	5.0	9.0	6.2	14	2.6	4.3	5.5	8.8	6.0	11	1.0
7	6.0	4.9	7.5	6.2	8.4	2.6	4.0	5.3	8.6	5.8	11	0.9
8	6.0	4.9	7.1	6.2	7.5	2.6	4.0	5.2	8.6	5.8	10	0.9
9	5.8	4.9	6.9	6.2	6.9	2.6	3.9	4.9	8.6	6.0	10	0.9
10	5.7	5.0	6.7	6.2	5.7	2.6	4.2	4.9	8.6	6.0	11	0.9
11	5.5	4.9	6.6	6.0	4.9	2.6	4.3	5.0	8.2	5.8	13	0.9
12	5.8	4.9	6.4	5.8	4.5	2.6	4.2	6.9	8.2	6.0	13	0.8
13	5.8	5.0	6.4	5.8	4.2	3.9	3.8	7.3	7.7	6.0	13	0.7
14	5.8	5.3	6.4	5.8	3.7	10	3.6	7.9	7.9	6.0	12	0.7
15	5.7	5.5	6.4	5.8	3.8	8.4	3.5	8.2	7.7	13.2	11	0.7
16	5.7	5.7	6.4	5.8	3.5	6.4	3.5	8.2	7.5	25	11	0.7
17	5.7	5.7	6.2	6.0	3.5	10	3.5	8.4	7.3	25	10	0.8
18	5.5	5.8	6.2	6.0	3.4	8.6	3.5	8.6	7.5	24	9.7	0.9
19	5.3	5.8	6.2	6.0	3.4	7.5	3.5	8.8	7.5	24	11	1.1
20	5.5	5.8	6.0	6.0	3.3	7.3	3.5	9.0	7.3	23	10	1.2
21	5.5	5.8	6.0	6.0	3.0	6.9	3.5	8.8	7.1	23	8.4	1.3
22	5.8	5.7	5.8	6.0	2.8	6.7	3.5	8.4	7.1	21	7.1	1.5
23	6.2	5.5	5.8	6.0	2.8	6.6	3.6	8.6	7.1	14	6.0	1.7
24	6.7	5.5	6.0	6.0	2.9	13	3.4	8.6	7.1	13	5.2	1.6
25	6.4	5.3	6.0	6.0	2.8	11	3.4	8.6	7.1	13	4.5	1.5
26	6.2	5.3	6.0	6.2	2.8	8.2	3.4	9.0	6.9	13	3.6	1.5
27	6.2	5.3	6.2	6.0	2.8	6.9	3.4	9.4	6.7	13	3.0	1.4
28	6.2	5.3	6.2	6.0	2.8	6.2	5.7	9.4	6.4	13	2.6	1.3
29	6.2	5.3	6.2	6.0	2.8	5.7	12.2	9.2	6.2	13	2.3	1.2
30	6.2	5.5	6.2	6.0		5.2	8.6	9.2	6.2	12	2.1	1.0
31	6.0		6.0	5.8		4.9		9.0		12	1.9	
	1815	159.7	2060	187.2	151.8	174.5	131.9	234.3	233.1	378.4	269.4	33.0
MEAN	5.85	5.32	6.65	6.04	5.23	5.64	4.40	7.56	7.77	12.2	8.69	1.10
ACRE-FEET	360.	317.	409.	371.	301.	346.	262.	465.	462.	751.	534.	65.

Remarks:

YEAR OR PERIOD MEAN 6.40
ACRE-FEET 4640.

F. C. Dist. Form 86 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

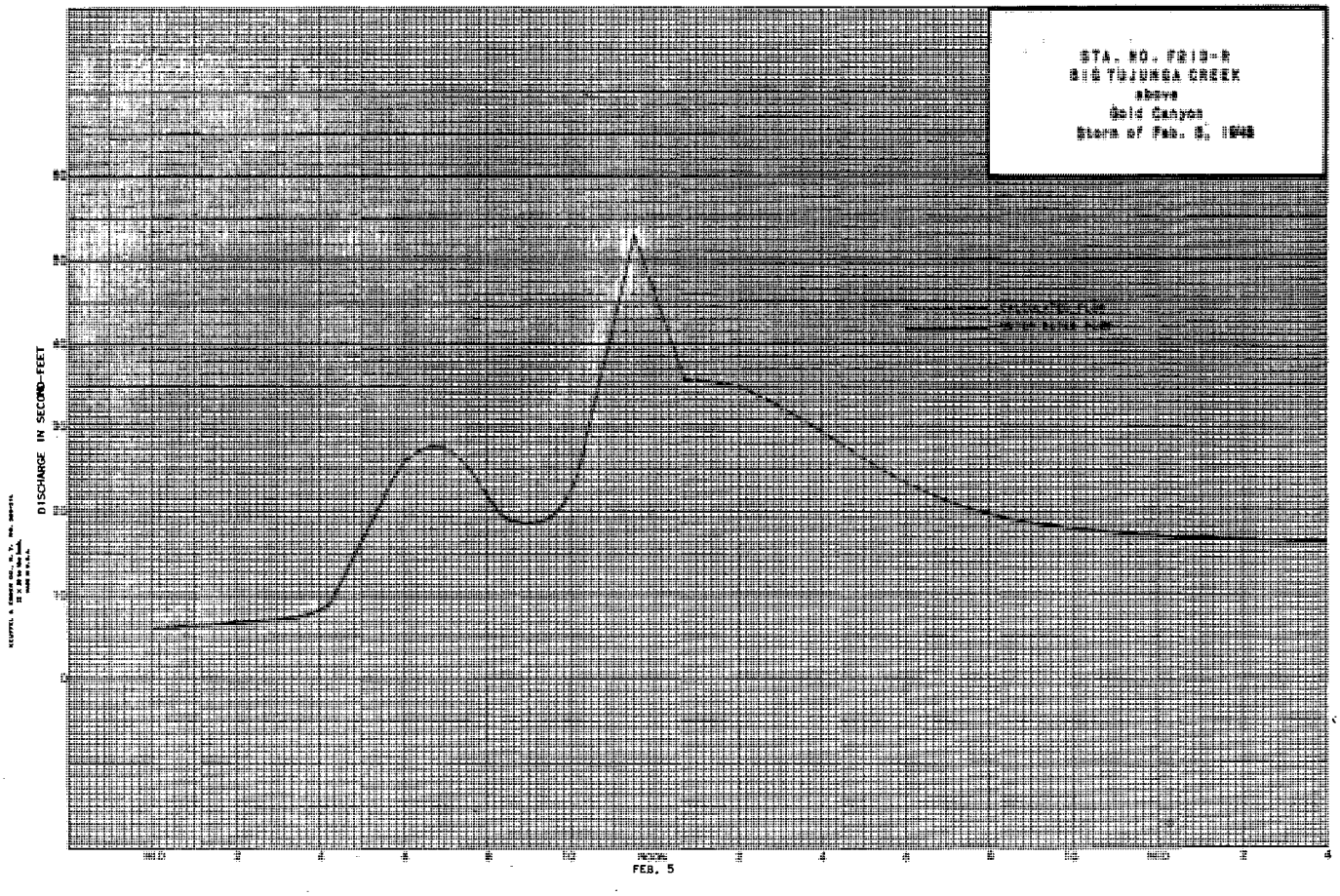
Sta. No. F213-R

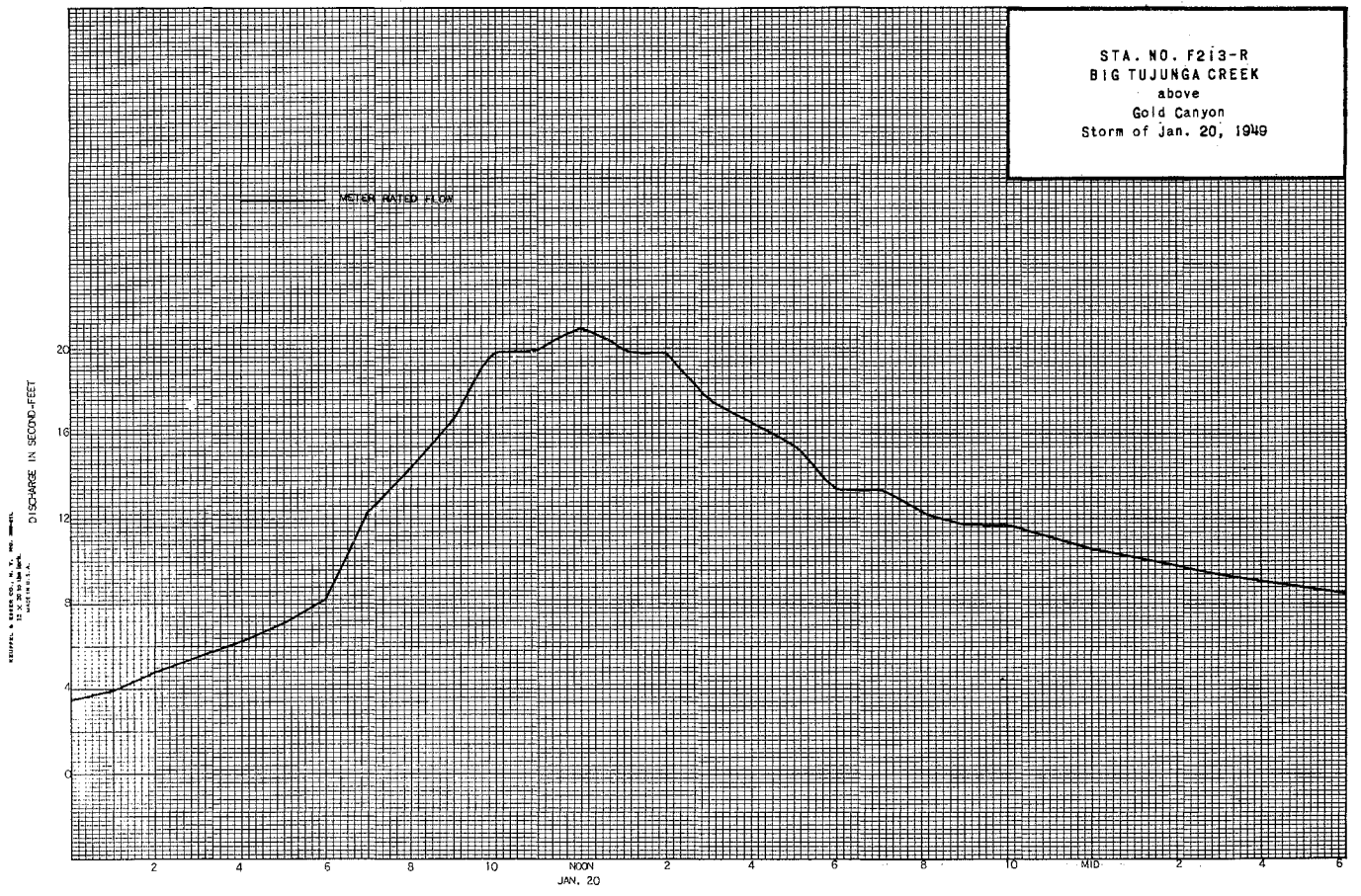
Daily discharge, in second-feet of Big Tujunga Creek above Gold Canyon, for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.9	0.8	1.0	2.9	5.5	8.2	3.5	2.9	3.9	3.0	2.7	2.9
2	0.8	0.7	1.0	2.7	5.5	8.2	3.5	3.0	3.5	3.2	2.7	3.0
3	0.7	0.6	1.1	2.4	5.8	8.8	3.5	3.0	3.5	3.2	2.7	2.9
4	0.8	0.6	1.0	2.0	5.8	8.8	3.2	3.0	3.2	3.2	2.7	3.0
5	0.8	0.9	1.0	2.0	5.8	11	3.0	3.0	3.0	3.2	2.7	2.9
6	0.8	1.0	1.0	2.0	5.5	8.8	3.0	3.0	3.0	3.2	2.5	2.9
7	0.7	1.0	1.0	2.2	6.2	8.8	3.0	2.9	3.0	3.2	2.4	2.9
8	0.6	1.0	1.0	2.2	7.1	8.2	2.9	3.0	3.0	3.2	3.0	3.0
9	0.7	1.0	1.0	2.2	6.5	8.2	2.7	2.9	2.9	3.2	3.2	3.0
10	0.8	1.0	1.0	2.2	6.2	8.2	2.5	2.9	2.9	3.2	3.5	3.2
11	0.8	1.0	1.0	2.4	6.5	13	2.7	2.7	3.0	3.2	3.5	3.2
12	0.9	1.0	1.0	2.4	8.8	10	2.5	2.7	3.0	3.0	3.2	3.2
13	0.9	0.9	1.0	2.5	7.1	9.4	2.5	2.9	3.5	2.9	3.0	3.2
14	1.0	0.9	0.9	2.9	7.1	8.8	2.5	3.0	3.5	2.9	3.0	3.2
15	0.9	0.9	0.9	3.0	7.1	8.8	2.5	3.9	3.5	2.9	2.9	3.2
16	0.8	0.8	1.0	3.0	6.5	8.2	2.4	4.5	3.5	2.9	2.7	3.2
17	0.7	0.8	4.2	2.9	6.5	8.2	2.5	4.8	3.5	2.9	2.7	3.2
18	0.6	0.8	3.0	2.9	6.2	7.7	2.7	4.8	3.2	3.0	2.7	3.2
19	0.6	0.8	2.5	2.9	6.2	7.7	2.9	9.4	3.2	2.9	2.7	3.9
20	0.6	0.6	2.2	13	5.8	8.2	3.0	9.4	3.2	3.2	2.5	3.9
21	0.6	0.9	2.0	7.7	5.8	7.7	2.7	7.1	2.9	3.2	2.5	4.2
22	0.6	0.9	1.8	6.2	6.2	7.7	2.5	6.2	2.9	3.2	2.4	3.5
23	0.6	1.0	1.8	6.5	6.2	7.7	2.4	4.8	2.5	3.2	2.4	3.2
24	0.7	1.0	1.8	4.8	6.5	7.7	2.4	4.5	2.4	3.2	2.4	3.0
25	0.7	1.0	1.8	4.8	9.4	6.2	2.5	4.5	2.2	3.2	2.4	3.0
26	0.8	1.0	2.5	4.2	10	5.2	2.5	4.2	2.0	3.2	2.2	3.0
27	0.8	1.0	7.7	3.9	12	4.5	2.5	4.2	2.2	3.2	2.4	3.0
28	0.9	1.0	4.8	3.5	10	3.9	2.5	4.2	2.5	3.2	2.5	3.0
29	0.9	1.0	4.2	4.5		3.5	2.5	4.2	2.7	3.0	2.9	2.9
30	0.9	1.0	3.5	4.8		3.5	2.7	4.2	3.0	3.0	2.9	2.9
31	0.8		3.2	5.2		3.5		3.9		2.9	2.9	
	23.7	27.1	62.9	116.8	193.8	238.3	82.2	129.7	90.3	96.1	84.9	94.8
MEAN	0.76	0.90	3.03	3.77	6.92	7.69	2.74	4.18	3.01	3.10	2.74	3.16
ACRE-FEET	47.	54.	125.	232.	384.	473.	163.	257.	179.	191.	168.	188.

Remarks:

YEAR OR PERIOD MEAN 3.40
ACRE-FEET 2460.





STATION E286-R

Tujunga Wash below Hansen Dam

LOCATION: WATER-STAGE RECORDER AND SHARP-CRESTED WEIR, LAT. 34°15'31", LONG. 118°23'11", AT LOWER END OF OUTLET STRUCTURE OF HANSEN DAM, IN EX MISSION SAN FERNANDO GRANT, IN CITY OF LOS ANGELES, 3 MILES SOUTHEAST OF SAN FERNANDO, LOS ANGELES COUNTY. DATUM OF GAGE IS 963.29 FEET ABOVE MEAN SEA LEVEL. DATUM OF 1929 (CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY, BENCH MARK).

DRAINAGE AREA: 148 SQUARE MILES.

RECORDS AVAILABLE: OCTOBER 1940 TO SEPTEMBER 1949 IN REPORTS OF GEOLOGICAL SURVEY, APRIL 1932 TO SEPTEMBER 1940 (FRAGMENTARY) AND OCTOBER 1940 TO SEPTEMBER 1949 IN ANNUAL REPORTS OF LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

EXTREMES OF DISCHARGE:

1947-1948
MAXIMUM DISCHARGE 34 SECOND-FEET, FEBRUARY 5 (GAGE HEIGHT 1.40 FEET).
NO FLOW ON MANY DAYS.

1948-1949
MAXIMUM DISCHARGE 0.5 SECOND-FOOT, APRIL 1 (GAGE HEIGHT 0.22 FEET).
NO FLOW ON MANY DAYS.

1940-1949
MAXIMUM DISCHARGE 1780 SECOND-FEET, JANUARY 23, 1943.
NO FLOW DURING PARTS OF EACH YEAR.

REMARKS: RECORDS GOOD. STORAGE AND DIVERSIONS ABOVE STATION. FLOW REGULATED BY HANSEN FLOOD CONTROL DAM. FLOW BELOW THE STATION CAN BE DIVERTED TO HANSEN SPREADING GROUNDS. RECORDS OF DIVERSION AND FLOW DOWN TUJUNGA WASH ARE PUBLISHED UNDER STATION F20B-R.

COOPERATION: GAGE HEIGHT RECORD FURNISHED BY CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY.

DISCHARGE MEASUREMENTS OF TUJUNGA WASH

~~AT~~ NEAR below Hansen Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
105	1-27		U.S.G.S.				0.07	0.022		VOL.			
106	2-11		"				.08	.053		VOL.			
107	2-26		"				.06	.013		VOL.			
108	3-10		"				.07	.019		VOL.			
109	4-7		"				.07	.033		VOL.			
110	4-21		"				.01	.002		VOL.			
111	5-5		"				.08	.036		VOL.			

DISCHARGE MEASUREMENTS OF TUJUNGA WASH

~~AT~~ NEAR below Hansen Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
112	3-8		U.S.G.S.				0.04	0.02		EST.			
113	3-22		"				0.03	.016		VOL.			
114	4-5		"				0.03	.021		"			

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. E286-R

Daily discharge, in second-feet of TUJUNGA CREEK below Hansen Dam, for the year ending September 30, 19 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0.01	0.03	0.01	0	0	0	0
2	0	0	0	0	0	0.01	0.04	0.01	0	0	0	0
3	0	0	0	0	0.01	0.01	0.03	0.02	0	0	0	0
4	0	0	0	0	0.05	0.01	0.02	0.02	0	0	0	0
5	0	0	0.07	0	2.3	0.03	0.01	0.02	0	0	0	0
6	0	0	0.03	0	0.11	0.02	0.02	0.01	0	0	0	0
7	0	0	0.02	0	0.05	0.02	0.01	0.01	0	0	0	0
8	0	0	0.01	0	0.03	0.02	0.01	0.01	0	0	0	0
9	0	0	0.01	0	0.02	0.02	0.01	0.01	0	0	0	0
10	0	0	0.01	0	0.03	0.02	0.01	0.01	0	0	0	0
11	0	0	0.01	0	0.02	0.02	0.01	0	0	0	0	0
12	0	0	0.01	0	0.02	0.01	0.01	0	0	0	0	0
13	0	0	0	0	0.02	0.05	0.01	0	0	0	0	0
14	0	0	0	0	0.03	0.04	0.01	0	0	0	0	0
15	0	0	0	0	0.03	0.04	0.01	0	0	0	0	0
16	0	0	0	0	0.02	0.04	0	0	0	0	0	0
17	0	0	0	0	0.03	0.06	0.01	0	0	0	0	0
18	0	0	0	0	0.05	0.02	0.01	0	0	0	0	0
19	0	0	0	0	0.05	0.02	0.01	0	0	0	0	0
20	0	0	0	0	0.04	0.02	0	0	0	0	0	0
21	0	0	0	0	0.02	0.03	0	0	0	0	0	0
22	0	0	0	0.02	0.03	0.02	0.01	0	0	0	0	0
23	0	0	0	0.01	0.01	0.03	0.01	0	0	0	0	0
24	0	0	0	0.01	0.01	0.08	0.01	0	0	0	0	0
25	0	0	0	0.01	0.01	0.07	0	0	0	0	0	0
26	0	0	0	0	0.01	0.03	0	0	0	0	0	0
27	0	0	0	0.01	0.01	0.02	0	0	0	0	0	0
28	0	0	0	0	0.01	0.02	0.02	0	0	0	0	0
29	0	0	0	0	0.01	0.02	0.03	0	0	0	0	0
30	0	0	0	0		0.02	0.02	0	0	0	0	0
31	0		0	0		0.02		0		0	0	
	0	0	0.17	0.06	3.03	0.85	0.37	0.13	0	0	0	0
MEAN	0	0	.005	.002	.104	.027	.012	.004	0	0	0	0
ACRE-FEET	0	0	.3	.1	6.0	1.7	.7	.3	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN 0.013
ACRE-FEET 9.1

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. E286-R

Daily discharge, in second-feet of Tujunga Wash below Hansen Dam, for the year ending September 30, 19 49

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0.04	0.04	0	0	0	0	0
2	0	0	0	0	0	0.02	0.05	0	0	0	0	0
3	0	0	0	0	0	0.03	0.04	0	0	0	0	0
4	0	0	0	0	0	0.06	0.03	0	0	0	0	0
5	0	0	0	0	0	0.05	0.02	0	0	0	0	0
6	0	0	0	0	0	0.03	0.02	0	0	0	0	0
7	0	0	0	0	0	0.02	0.02	0	0	0	0	0
8	0	0	0	0	0	0.02	0.03	0	0	0	0	0
9	0	0	0	0	0	0.04	0.03	0	0	0	0	0
10	0	0	0	0	0	0.06	0.01	0	0	0	0	0
11	0	0	0	0	0	0.06	0	0	0	0	0	0
12	0	0	0	0	0	0.05	0	0	0	0	0	0
13	0	0	0	0	0	0.04	0	0	0	0	0	0
14	0	0	0	0	0	0.03	0	0	0	0	0	0
15	0	0	0	0	0	0.04	0	0	0	0	0	0
16	0	0	0	0	0	0.04	0	0	0	0	0	0
17	0	0	0	0	0	0.05	0	0	0	0	0	0
18	0	0	0	0	0	0.04	0	0	0	0	0	0
19	0	0	0	0	0	0.05	0	0	0	0	0	0
20	0	0	0	0	0	0.03	0	0	0	0	0	0
21	0	0	0	0	0	0.02	0	0	0	0	0	0
22	0	0	0	0	0	0.02	0	0	0	0	0	0
23	0	0	0	0	0	0.02	0	0	0	0	0	0
24	0	0	0	0	0	0.02	0	0	0	0	0	0
25	0	0	0	0	0	0.02	0	0	0	0	0	0
26	0	0	0	0	0	0.02	0	0	0	0	0	0
27	0	0	0.03	0	0	0.01	0	0	0	0	0	0
28	0	0	0	0	0	0.01	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	0.03	0	0	0.96	0.29	0	0	0	0	0
MEAN	0	0	.001	0	0	.031	0.01	0	0	0	0	0
ACRE-FEET	0	0	0.06	0	0	1.9	0.6	0	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN 0.004
ACRE-FEET 2.6

STATION F20B-R
TUJUNGA WASH at Glen Oaks Boulevard

LOCATION: WATER-STAGE RECORDER, LAT. 34°15'08", LONG. 118°23'22", ON THE DOWNSTREAM SIDE OF THE GLEN OAKS BOULEVARD (FORMERLY REMSEN AVENUE) BRIDGE APPROXIMATELY 3 MILES SOUTHEAST OF SAN FERNANDO AND 0.5 MILE BELOW HANSEN DAM. ELEVATION OF ZERO GAGE HEIGHT, 937.98 FEET. PUBLISHED HEREWITH IS THE DIVERSION TO HANSEN SPREADING GROUNDS. (SEE REMARKS).

DRAINAGE AREA: 148 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL IS WIDE AND COMPOSED OF SAND, GRAVEL AND BOULDERS, BOULDERS PREDOMINATING. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM CABLE CAR ABOVE STATION.

RECORDER: INSTALLED APRIL 29, 1932 AT STATION F20-R AT STONEHURST AVENUE. WASHED OUT DURING THE MARCH 2, 1938 FLOOD. REINSTALLED AT STATION F20B-R AT GLEN OAKS BOULEVARD (FORMERLY REMSEN AVENUE), JULY 2, 1940 OVER A 21-INCH CORRUGATED IRON PIPE STILLING WELL. AN H.C.F. RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: FLOW REGULATED BY HANSEN DAM. INFLOW TO HANSEN DAM PARTIALLY REGULATED BY BIG TUJUNGA DAM AND BY HAINES CANYON DEBRIS BASIN.

DIVERSIONS: SOME WATER DIVERTED FOR IRRIGATION NEAR MOUTH OF BIG TUJUNGA CANYON. FLOW CAN BE DIVERTED ABOVE THE STATION TO HANSEN SPREADING GROUNDS.

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, 1949.

EXTREMES OF DISCHARGE:
1947-1948
NO FLOW ENTIRE YEAR.
1948-1949
NO FLOW ENTIRE YEAR.
1932-1949 AT STATION F20-R AND F20B-R
MAXIMUM 54,000 SECOND-FEET, ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW PART OF EACH YEAR.

ACCURACY: GOOD.

OPERATION: LOCATED AND CONSTRUCTED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT. OPERATED IN COOPERATION WITH THE UNITED STATED GEOLOGICAL SURVEY AND CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY.

REMARKS: HANSEN SPREADING GROUNDS INTAKE WAS CONSTRUCTED DURING SUMMER OF 1944. SUBSEQUENT RECORDS AT STATION 20B MEASURE OUTFLOW FROM HANSEN DAM LESS SPREADING DIVERSIONS. CONTINUED OPERATION OF THE STATION IS FOR FLOOD FLOWS ONLY. RECORDS OF OUTFLOW FROM HANSEN DAM AS RECORDED BY THE UNITED STATES GEOLOGICAL SURVEY AT THEIR STATION IN THE OUTLET CHANNEL BELOW HANSEN DAM ARE PUBLISHED UNDER STATION E286-R. PUBLISHED HEREWITH ARE THE RECORDS OF DIVERSION TO HANSEN SPREADING GROUNDS AND FLOW DOWN TUJUNGA WASH.

STATION F10B-R
TUJUNGA WASH at Magnolia Boulevard

LOCATION: WATER-STAGE RECORDER, LAT. 34°09'53", LONG. 118°24'43", ON THE DOWNSTREAM SIDE OF MAGNOLIA BOULEVARD BRIDGE, ABOUT 2 MILES WEST OF NORTH HOLLYWOOD. ELEVATION OF ZERO GAGE HEIGHT, 632.70 FEET.

DRAINAGE AREA: INDETERMINATE DUE TO A NATURAL SPLIT WHICH DIVIDES THE TUJUNGA WASH INTO TWO BRANCHES.

CHANNEL AND CONTROL: CHANNEL - LOOSE SAND. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM HIGHWAY BRIDGE.

RECORDER: INSTALLED AUGUST, 1930 OVER AN 18-INCH DIAMETER CORRUGATED IRON PIPE STILLING WELL. WASHED OUT IN THE 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, 1947 TO MARCH 24, 1949. (SEE REMARKS).

REGULATION: FLOW PARTIALLY REGULATED BY BIG TUJUNGA DAM, HAINES DEBRIS BASIN, AND HANSEN DAM.

DIVERSIONS: SOME WATER DIVERTED FOR IRRIGATION NEAR MOUTH OF BIG TUJUNGA CANYON AND FOR SPREADING AT HANSEN SPREADING GROUNDS BELOW HANSEN DAM.

RECORDS AVAILABLE: AUGUST 1930 TO FEBRUARY 17, 1938, AND OCTOBER 17, 1938 TO MARCH 24, 1949.

EXTREMES OF DISCHARGE:
1947-1948
MAXIMUM 1.3 SECOND-FEET, MARCH 24.
MINIMUM NO FLOW MOST OF YEAR.
1948-1949
MAXIMUM NOT DETERMINED.
MINIMUM NO FLOW MOST OF YEAR.
1930-1947
MAXIMUM DISCHARGE NOT DETERMINED, MARCH 2, 1938.
MAXIMUM DISCHARGE OF RECORD, 1,350 SECOND-FEET, JANUARY 22, 1943.
MINIMUM NO FLOW.

ACCURACY: FAIR. LOW FLOWS USUALLY INTERPOLATED BETWEEN MEASUREMENTS.

REMARKS:
STATION DISCOUNTED MARCH 24, 1949 DUE TO BRIDGE REMOVAL AND CHANNEL IMPROVEMENTS AND WILL BE REPLACED BY THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY, 1 1/2 MILES DOWNSTREAM BELOW MOORPARK STREET.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F106-R

Daily discharge, in second-feet of TUJUNGA WASH at Magnolia Boulevard, for the year ending September 30, 19 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0					
2	0	0	0	0	0	0	0					
3	0	0	0	0	0	0	0					
4	0	0	+	0	0	0	0					
5	0	0	+	0	+	0	0					
6	0	0	+	0	0	0	0					
7	0	0	0	0	0	0	0					
8	0	0	0	0	0	0	0					
9	0	0	0	0	0	0	0					
10	0	0	0	0	0	0	0					
11	0	0	0	0	0	0	0					
12	0	0	0	0	0	0	0					
13	0	0	0	0	0	+	0					
14	0	0	0	0	0	+	0					
15	0	0	0	0	0	0	0					
16	0	0	0	0	0	+	0					
17	0	0	0	0	0	+	0					
18	0	0	0	0	0	0	0					
19	0	0	0	0	0	0	0					
20	0	0	0	0	0	0	0					
21	0	0	0	0	0	0	0					
22	0	0	0	0	0	0	0					
23	0	0	0	0	0	0	0					
24	0	0	0	0	0	0.3	0					
25	0	0	0	0	0	0	0					
26	0	0	0	0	0	0	0					
27	0	0	0	0	0	0	0					
28	0	0	0	0	0	0	0					
29	0	0	0	0	0	0	0					
30	0	0	0	0		0	0					
31	0		0	0		0						
	0	0	+	0	+	0.3	0					
MEAN	0	0	+	0	+	0.01	0	0	0	0	0	0
ACRE-FEET	0	0	+	0	+	0.6	0	0	0	0	0	0

Recorder stopped for summer

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

YEAR OR PERIOD MEAN ACRE-FEET + 0.6

STATION F106-R
TUJUNGA WASH-CENTRAL BRANCH at Magnolia Boulevard

LOCATION: WATER-STAGE RECORDER, LAT. 34°09'53", LONG. 118°22'53", ON THE DOWNSTREAM SIDE OF MAGNOLIA BOULEVARD BRIDGE IN NORTH HOLLYWOOD. ELEVATION OF ZERO GAGE HEIGHT, 613.87 FEET.

DRAINAGE AREA: INDETERMINATE DUE TO A NATURAL SPLIT WHICH DIVIDES TUJUNGA WASH INTO TWO BRANCHES.

CHANNEL AND CONTROL: CHANNEL - BOTTOM SAND, LEVEES PARTIALLY PROTECTED BY PIPE AND WIRE. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING NEAR GAGE. HIGH FLOWS MEASURED FROM HIGHWAY BRIDGE.

RECORDER: INSTALLED AUGUST 1930 AT STATION F106-R. REMOVED MARCH 1936. INSTALLED TEMPORARILY MARCH 1936 AT STATION F106B-R AT CHANDLER BOULEVARD. REMOVED JULY 1936. REINSTALLED AUGUST 1936 AT STATION F106-R. REMOVED MARCH 2, 1938. REINSTALLED SEPTEMBER 25, 1939 AT STATION F106B-R AT CHANDLER BOULEVARD. REMOVED NOVEMBER 11, 1941, REINSTALLED NOVEMBER 24, 1941 AT STATION F106-R OVER A 20-INCH DIAMETER CORRUGATED IRON PIPE STILLING WELL. AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: FLOW PARTIALLY REGULATED BY HANSEN DAM, BIG TUJUNGA DAM AND HAINES DEBRIS BASIN.

DIVERSION: SOME WATER DIVERTED FOR IRRIGATION NEAR THE MOUTH OF BIG TUJUNGA CANYON AND FOR SPREADING AT HANSEN SPREADING GROUNDS BELOW HANSEN DAM.

RECORDS AVAILABLE:
AT STATION F106B-R
MARCH 20, 1936 TO JULY 29, 1936
SEPTEMBER 25, 1939 TO NOVEMBER 11, 1941.
AT STATION F106-R
AUGUST 1930 TO MARCH 18, 1936
AUGUST 20, 1936 TO MARCH 2, 1938
NOVEMBER 24, 1941 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:
1947-1948
MAXIMUM 285 SECOND-FEET, MARCH 24.
MINIMUM NO FLOW MOST OF YEAR.
1948-1949
MAXIMUM 40 SECOND-FEET, DECEMBER 17.
MINIMUM NO FLOW MOST OF YEAR.
1930-1949
MAXIMUM DISCHARGE NOT DETERMINED, MARCH 2, 1938.
MAXIMUM DISCHARGE OF RECORD, 3,110 SECOND-FEET, JANUARY 1, 1934.
MINIMUM NO FLOW MOST OF YEAR.

ACCURACY: FAIR. DISCHARGE-GAGE HEIGHT RELATION UNRELIABLE AT TIMES.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

DISCHARGE MEASUREMENTS OF TUJUNGA WASH-CENTRAL BRANCH

AT (NEAR) Magnolia Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
128	12-4	1102 / 1106	BLAKELY	5.2	0.92	0.92	5.12	0.85		.5	4	-.01	FC35
129	12-4	2145 / 2150	BLAKELY - OCAMPO	18.0	3.68	0.73	5.26	2.7		.5	4	-.01	"
130	3-17	C126 / 0136	BLAKELY	41.0	12.1	1.81	5.42	21.9		.5	12	-.01	"

DISCHARGE MEASUREMENTS OF TUJUNGA WASH-CENTRAL BRANCH

AT (NEAR) Magnolia Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
131	1-19	2356 / 2400	BLAKELY-SCHUMAKER	5.3	1.51	0.80	4.84	1.2		.5	6	0	FC35
132	2-3	0924 / 0931	BLAKELY	8.0	3.64	1.59	5.02	5.8		.5	6	+.01	"
133	3-4	1945 / 1951	"	5.0	1.61	0.87	4.90	1.4		.5	5	-.02	"
134	3-11	0012 / 0018	BLAKELY-JOHNSON	7.5	2.83	1.20	4.94	3.4		.5	6	0	"

F. C. Dist. Form 82 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F10B-R

Daily discharge, in second-feet of TUJUNGA WASH-CENTRAL BRANCH at Magnolia Boulevard, for the year ending September 30, 19 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0					
2	0	0	0	0	0	0	0					
3	0	0	0	0	0	0	0					
4	0	0	0.9	0	0	0	0					
5	0	0	1.7	0	1.0	0	0					
6	0	0	0.6	0	0.1	0	0					
7	0	0	0	0	0	0	0					
8	0	0	0	0	0	0	0					
9	0	0	0	0	0	0	0					
10	0	0	0	0	0	0	0					
11	0	0	0	0	0	0	0					
12	0	0	0	0	0	0	0					
13	0	0	0	0	0	+	0					
14	0	0	0	0	0	0.9	0					
15	0	0	0	0	0	0	0					
16	0	0	0	0	0	+	0					
17	0	0	0	0	0	2.0	0					
18	0	0	0	0	0	0	0					
19	0	0	0	0	0	+	0					
20	0	0	0	0	0	0	0					
21	0	0	0	0	0	0	0					
22	0	0	0	0	0	0	0					
23	0	0	0	0	0	0	0					
24	0	0	0	0	0	2.2	0					
25	0	0	0	0	0	0	0					
26	0	0	0	0	0	0	0					
27	0	0	0	0	0	0	0					
28	0	0	0	0	0	0	0					
29	0	0	0	0	0	0	+					
30	0	0	0	0		0	0					
31	0		0	0		0						
	0	0	3.2	0	1.1	24.9	0	0	0	0	0	0
MEAN	0	0	0.10	0	0.04	0.80	+	0	0	0	0	0
ACRE-FEET	0	0	6.3	0	2.2	49.	+	0	0	0	0	0

Clock stopped for summer Est. no flow

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

YEAR OR PERIOD MEAN 0.08
ACRE-FEET 58.

F. C. Dist. Form 82 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

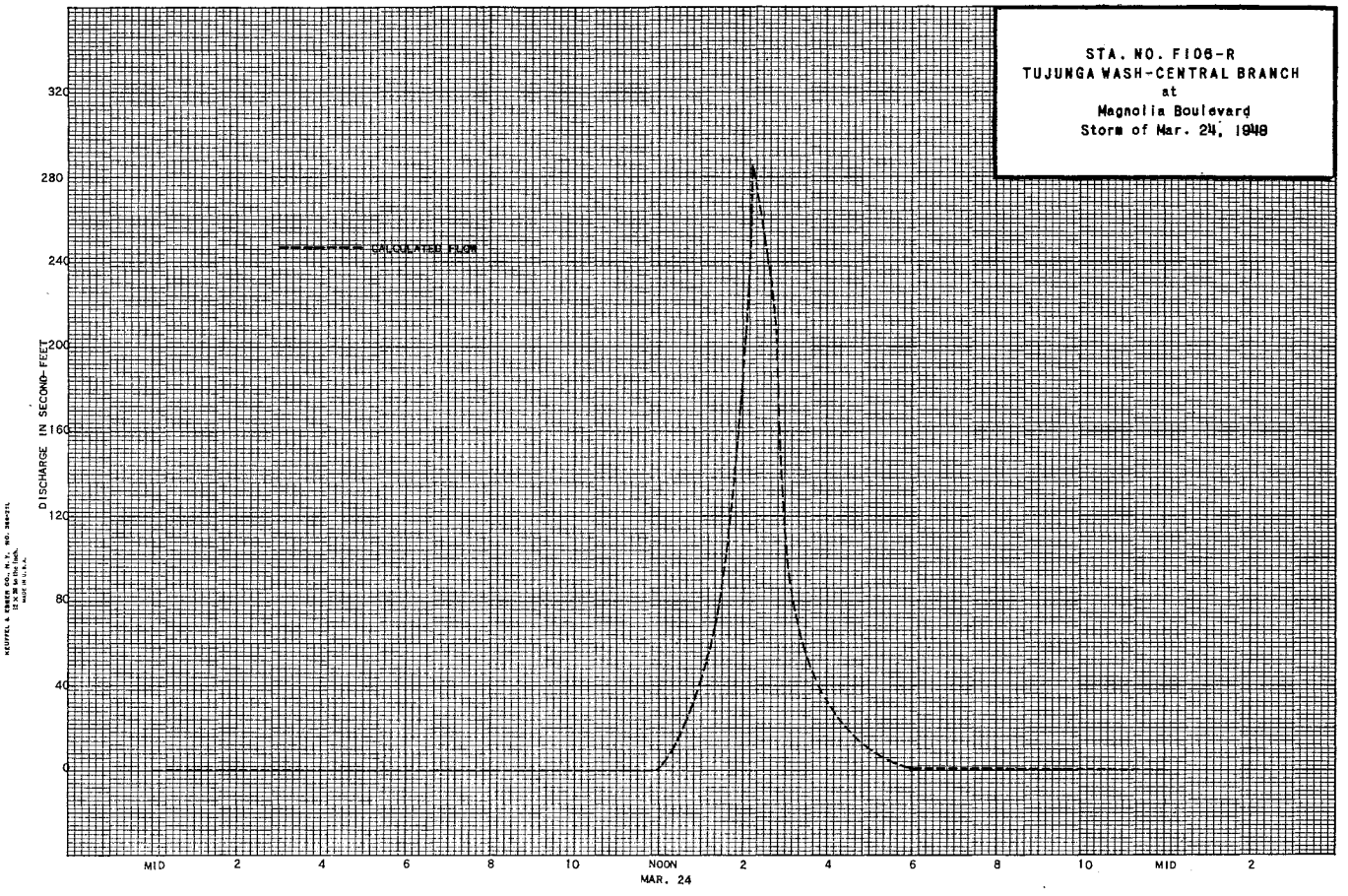
Sta. No. F10B-R

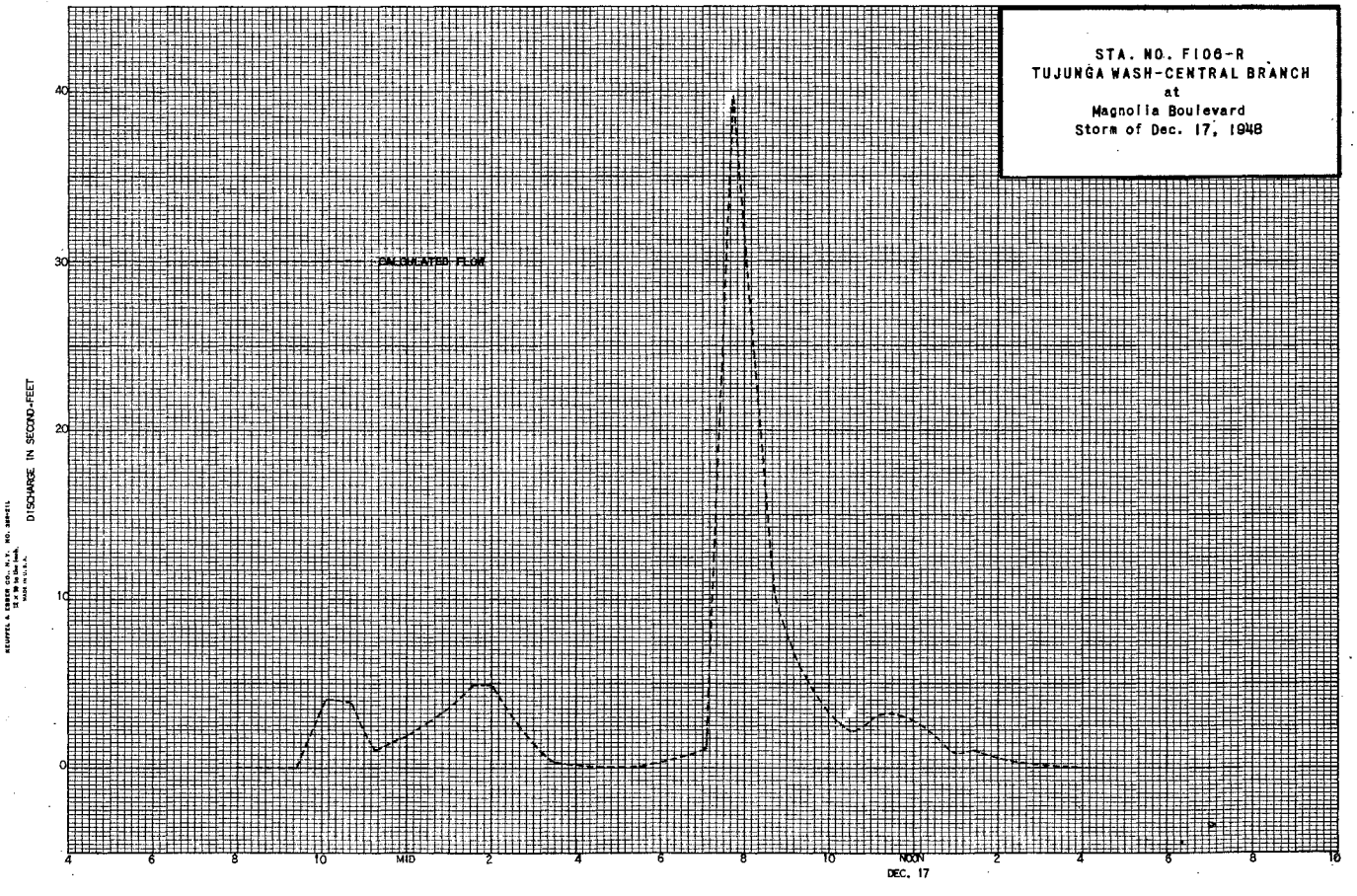
Daily discharge, in second-feet of TUJUNGA WASH-CENTRAL BRANCH at Magnolia Boulevard, for the year ending September 30, 19 49

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0.7	0.1	0	0	0	0	0	0
4	0	0	0	0	0	0.4	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0.1	0	0	0	0	0	0	0	0
7	0	0	0	0	0.6	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	1.1	0	0	0	0	0	0
11	0	0	0	1.1	0.2	0.6	0	0	0	0	0	0
12	0	0	0	0.4	0	0	0	0	0	0	0	0
13	0	0	0	0.4	0	0	0	0	0	0	0	0
14	0	0	0	0.3	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0.3	0	0	0	0	0	0	0	0	0
17	0	0	2.9	0	0	0	0	0.1	0	0	0	0
18	0	0	0	0	0	0	0	1.0	0	0	0	0
19	0	0	0	0.8	0	+	0	0.2	0	0	0	0
20	0	0	0	0.9	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0.2	0.1	0	0	0	0	0	0	0	0
23	0	0	0	+	0	0	0	0	0	0	0	0
24	0	0	0	0	0.2	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	1.3	0	0.8	0	0	0	0	0	0	0
27	0	0	0.3	0	0.1	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	5.0	4.1	2.6	2.2	0	1.3	0	0	0	0
MEAN	0	0	0.16	0.13	0.09	0.07	0	0.04	0	0	0	0
ACRE-FEET	0	0	9.9	8.1	5.2	4.4	0	2.6	0	0	0	0

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

YEAR OR PERIOD MEAN 0.04
ACRE-FEET 30.


STA. NO. F106-R
TUJUNGA WASH-CENTRAL BRANCH
at
Magnolia Boulevard
Storm of Mar. 24, 1948
CALCULATED FLOW
DISCHARGE IN SECOND-FEET
320
280
240
200
160
120
80
40
0
MID
2
4
6
8
10
NOON
MAR. 24
2
4
6
8
10
MID
2


STA. NO. F106-R
TUJUNGA WASH-CENTRAL BRANCH
at
Magnolia Boulevard
Storm of Dec. 17, 1948
CALCULATED FLOW
DISCHARGE IN SECOND-FEET
40
30
20
10
0
4
6
8
10
MID
2
4
6
8
10
NOON
DEC. 17
2
4
6
8
10

STATION F270-R
CALABASAS CREEK at Ventura Boulevard

LOCATION: WATER-STAGE RECORDER, LAT. 34°09'27", LONG. 118°38'18", ON THE RIGHT (EAST) BANK OF CALABASAS CREEK NEAR THE UPSTREAM END OF A CONCRETE HORSE-SHOE CULVERT UNDER VENTURA BOULEVARD, AND ABOUT 100 FEET WEST OF THE WESTERLY CITY LIMITS OF LOS ANGELES. ELEVATION OF ZERO GAGE HEIGHT, 916.24 FEET.

DRAINAGE AREA: 2.4 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - SAND AND CLAY ADOBE. CONTROL - ENTRANCE TO A CONCRETE HORSE-SHOE CULVERT, 6.0 FEET WIDE AND 5.0 FEET DEEP.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM FOOTBRIDGE 32 FEET ABOVE STATION.

RECORDER: INSTALLED FEBRUARY 17, 1940 OVER A 24-INCH CORRUGATED IRON PIPE STILLING WELL. A HORIZONTAL RATIONAL RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO APRIL 25, 1949. AN H.C.F. CONTUNIOUS RECORDER WAS IN SERVICE FROM APRIL 25, 1949 TO SEPTEMBER 30, 1949.

REGULATIONS AND/OR DIVERSIONS: SOME REGULATION BY SMALL DAMS UPSTREAM.

RECORDS AVAILABLE: FEBRUARY 17, 1940 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:
1947-1948
NO FLOW ENTIRE YEAR
1948-1949
NO FLOW ENTIRE YEAR.
1940-1949
MAXIMUM 551 SECOND-FEET, FEBRUARY 20, 1941.
MINIMUM NO FLOW MOST OF EACH YEAR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

STATION F108-R
CASTAIC CREEK at Highway No. 126

LOCATION: WATER-STAGE RECORDER, LAT. 34°25'41", LONG. 118°37'41", NEAR THE CENTER OF THE DOWNSTREAM SIDE OF THE HIGHWAY BRIDGE AT STATE HIGHWAY NO. 126 ABOUT 6.0 MILES NORTHWEST OF SAUGUS AND 1.5 MILES WEST OF THE JUNCTION OF STATE HIGHWAY NO. 126 AND U.S. HIGHWAY NO. 99. ELEVATION OF ZERO GAGE HEIGHT, 952.05 FEET.

DRAINAGE AREA: 202.5 SQUARE MILES.

CHANNEL AND CONTRDL: CHANNEL - SAND AND GRAVE. CONTROL - CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM UPSTREAM SIDE OF HIGHWAY BRIDGE.

RECORDER: INSTALLED DECEMBER 27, 1945 OVER AN 18-INCH CORRUGATED IRON PIPE STILLING WELL. AN H.C.F. RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION AND/OR DIVERSION: NONE.

RECORDS AVAILABLE: DECEMBER 27, 1945 TO SEPTEMBER 30, 1947. SOME STREAMFLOW MEASUREMENTS ARE AVAILABLE FOR EARLIER YEARS.

EXTREMES OF DISCHARGE:
1947-1948
MAXIMUM 243 SECOND-FEET, MARCH 24.
MINIMUM NO FLOW MOST OF YEAR.
1948-1949
NO FLOW ENTIRE YEAR.
1945-1949
MAXIMUM 1440 SECOND-FEET, DECEMBER 26, 1946.
MINIMUM NO FLOW MOST OF EACH YEAR.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

DISCHARGE MEASUREMENTS OF CASTAIC CREEK

AT ~~NEAR~~ Highway 126 DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SHD. NO.	G. HT. CHANGE TOTAL	METER NO.
29	3-24	1750 / 1816	LUCE - WRIGHT	TWO CHANNELS			5.11	103.		.6	14	-.02	FC39
30	4-29	0940 / 0945	LUCE	8.2	3.53	1.90	4.28	6.7		.6	6	-.01	"

F. C. Dist. Form 53 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

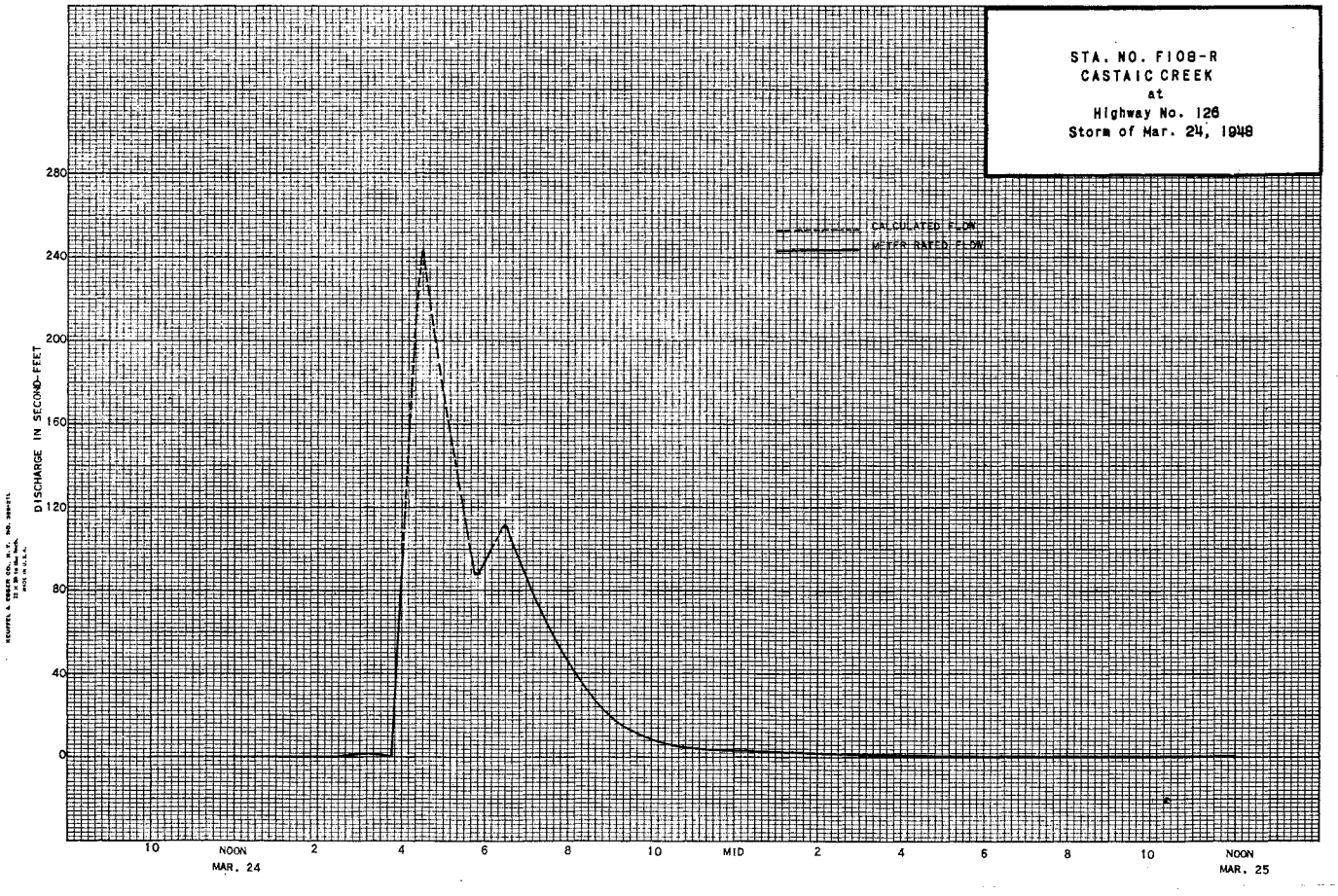
Sta. No. F10B-R

Daily discharge, in second-feet of CASTAIC CREEK at Highway #126, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0.4	0	0	0	0
2	0	0	0	0	0	0	0	0.3	0	0	0	0
3	0	0	0	0	0	0	1.0	0.1	0	0	0	0
4	0	0	0	0	0	0	1.2	0.1	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	2.4	0	0	0	0	0	0
25	0	0	0	0	0	0.3	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	10.8	0	0	0	0	0
30	0	0	0	0		0	0.5	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	0	0	0	2.4.3	13.5	0.9	0	0	0	0
MEAN	0	0	0	0	0	0.78	0.45	0.03	0	0	0	0
ACRE-FEET	0	0	0	0	0	48.	27.	1.8	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN 0.11
ACRE-FEET 77.



STATION F37B-R

COMPTON CREEK near Greenleaf Drive

LOCATION: WATER-STAGE RECORDER, LAT. 33°52'54", LONG. 118°13'27", ON THE LEFT (EAST) BANK OF THE CONCRETE CHANNEL, 120 FEET SOUTH OF THE CENTER LINE OF GREENLEAF DRIVE EXTENDED AND ABOUT ONE AND ONE-HALF MILES SOUTHWEST OF COMPTON. ELEVATION OF ZERO GAGE HEIGHT 50.14 FEET.

DRAINAGE AREA: 23.3 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - RECTANGULAR, CONCRETE, 13.0 FEET DEEP AND 60 FEET WIDE. INVERT IS 1.05 FEET BELOW BOTTOM OF VERTICAL SIDE WALLS. CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM CABLE CAR 10 FEET BELOW GAGE.

RECORDER: INSTALLED JANUARY 22, 1928 AT STATION F37-R AT ROSECRANS AVENUE. REMOVED JUNE 9, 1938 DUE TO NEW CHANNEL CONSTRUCTION BY CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY. INSTALLED OCTOBER 3, 1938 OVER A 4.0 FT. X 3.2 FT. CONCRETE STILLING WELL. AN H.C.F. RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: NONE.

DIVERSIONS: NONE.

RECORDS AVAILABLE:
AT STATION F37-R - JANUARY 22, 1928 TO JUNE 9, 1938.
AT STATION F37B-R - OCTOBER 3, 1938 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:
1947-1948
MAXIMUM 1410 SECOND-FEET, MARCH 24.
MINIMUM 0.5 SECOND-FOOT, DECEMBER 29.
1948-1949
MAXIMUM 2710 SECOND-FEET, DECEMBER 17.
MINIMUM NO FLOW JUNE 20.
1928-1949 (STATIONS F37-R AND F37B-R)
MAXIMUM DISCHARGE NOT DETERMINED, OVERFLOWED BANKS MARCH 2, 1938.
MAXIMUM DISCHARGE OF RECORD, 3,010 SECOND-FEET, NOVEMBER 11, 1944.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD.

OPERATION: LOCATED AND CONSTRUCTED BY CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY, AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN CONJUNCTION WITH THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY.

DISCHARGE MEASUREMENTS OF COMPTON CREEK

AT OR NEAR Greenleaf Drive DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT-ING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
361	10-2	1501 / 1511	BONADIMAN	35.0	13.9	0.45	0.56	6.3		.6	6	0	FC19
362	10-23	1432 / 1440	"	34.0	12.7	0.44	0.55	5.6		.6	5	0	"
363	11-20	1452 / 1502	"	31.0	12.0	0.55	0.55	6.6		.6	5	0	"
364	12-11	1502 / 1512	"	29.0	10.2	0.46	0.48	4.7		.6	5	0	"
365	12-18	0950 / 1000	"	58.0	15.1	0.36	0.50	5.5		.6	10	0	"
366	12-26	1030 / 1036	"	20.0	6.00	0.22	0.48	1.3		.6	4	0	"
367	1-8	1042 / 1052	"	32.0	11.2	0.56	0.52	6.3		.6	5	0	"
368	1-22	1012 / 1020	"	37.0	13.3	0.39	0.53	5.2		.6	5	0	"
369	2-12	0912 / 0920	"	38.0	13.9	0.40	0.50	5.5		.6	5	0	"
370	2-19	1006 / 1018	SILL - BONADIMAN	38.0	14.1	0.62	0.52	8.8		.6	5	0	"
371	3-4	1452 / 1502	BONADIMAN	36.0	13.3	0.40	0.50	5.3		.6	4	0	"
372	3-11	1010 / 1018	"	35.0	12.4	0.44	0.52	5.4		.6	5	0	"
373	3-17	0438 / 0456	BONADIMAN - SILL	60.0	115.	2.79	2.24	321.		.6	9	- .16	"
374	3-18	1031 / 1039	BONADIMAN	36.0	12.9	0.33	0.51	4.3		.6	5	0	"
375	4-8	1502 / 1514	"	TWO CHANNELS			0.51	5.1		.6	7	0	"
376	4-22	1002 / 1014	"	"	"		0.51	9.0		.6	6	0	"
377	4-29	1042 / 1108	MILLS - BONADIMAN	"	"		0.83	13.2		.6	9	0	"
378	5-6	1032 / 1046	BONADIMAN	"	"		0.59	8.3		.6	9	0	"
379	5-13	1010 / 1020	"	26.0	6.46	1.02	0.54	6.6		.6	6	0	"
380	5-27	1041 / 1051	"	TWO CHANNELS			0.53	5.1		.6	6	0	"
381	6-9	1018 / 1028	"	"	"		0.51	5.5		.6	6	0	"
382	6-17	0946 / 1000	"	"	"		0.50	6.7		.6	7	0	"
383	7-2	1000 / 1006	"	12.0	6.00	0.58	0.50	3.5		.6	4	0	"
384	7-8	1010 / 1020	"	21.0	8.25	0.70	0.50	5.8		.6	5	0	"
385	7-15	1031 / 1043	"	27.0	11.2	0.72	0.55	8.1		.6	7	0	"
386	7-22	1016 / 1024	"	22.0	8.83	0.64	0.55	5.7		.6	5	0	"
387	7-28	1032 / 1040	"	20.0	6.47	0.37	0.53	2.4		.5	5	0	"
388	8-5	0945 / 0953	"	23.0	8.99	0.71	0.48	6.4		.6 .5	5	0	"
389	8-19	1025 / 1032	"	20.0	7.01	0.30	0.45	2.1		.6	4	0	FC46
390	8-26	1010 / 1018	"	25.0	8.70	0.23	0.45	2.0		.5	5	0	"
391	9-2	1032 / 1042	"	50.0	14.5	0.16	0.53	2.3		.5	6	0	"
392	9-23	0902 / 0912	WADDICOR	12.0	5.85	0.53	0.45	3.1		.6	9	0	FC37

DISCHARGE MEASUREMENTS OF COMPTON CREEK

AT OR NEAR Greenleaf Drive DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT-ING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
393	10-14	1022 / 1028	BONADIMAN	13.0	3.15	0.54	0.44	1.7		.5	4	0	FC19
394	10-21	1040 / 1052	"	TWO CHANNELS			0.45	1.8		.5	9	0	"
395	10-28	1022 / 1038	"	"	"		0.44	2.0		.5	11	0	"
396	11-10	1010 / 1024	"	"	"		0.40	1.6		.5	9	0	"
397	12-2	1032 / 1046	"	"	"		0.43	2.2		.5	10	0	"
398	12-16	1022 / 1032	"	40.0	11.4	0.28	0.46	3.2		.5	5	0	"
399	12-17	0342 / 0400	BONADIMAN-JOHNSON	60.0	91.2	3.85	1.80	352.		.6	6	-.21	"
400	12-23	1022 / 1036	BONADIMAN	47.0	16.2	0.25	0.50	4.1		.5	6	0	"
401	12-27	0102 / 0120	BONADIMAN-JOHNSON	60.0	83.0	2.53	1.44	211.		.6	9	-.07	"
402	12-27	1102 / 1116	" "	48.0	25.3	0.76	0.66	19.1		.5	6	-.01	"
403	12-30	1024 / 1036	BONADIMAN	20.0	4.50	0.38	0.41	1.7		.5	4	0	"
404	1-13	0744 / 0758	BONADIMAN-JOHNSON	60.0	42.2	1.26	0.89	53.1		.6	8	+.02	"
405	1-20	0332 / 0350	" "	55.0	49.7	1.73	1.06	85.6		.6	7	-.02	"
406	1-27	1014 / 1024	BONADIMAN	10.0	2.40	0.58	0.43	1.4		.5	5	0	"
407	2-3	0922 / 0930	"	48.0	14.9	0.29	0.48	4.4		.5	5	0	"
408	2-3	1414 / 1430	"	60.0	58.6	1.98	1.17	116.		.6	8	-.02	"
409	2-7	1340 / 1350	BONADIMAN-JOHNSON	60.0	76.0	2.47	1.37	188.		.6	8	-.10	"
410	2-10	1010 / 1020	BONADIMAN	6.0	2.30	0.74	0.41	1.7		.5	6	0	"
411	3-3	0952 / 1000	"	14.0	4.60	0.43	0.42	2.0		.5	6	0	"
412	3-4	1601 / 1619	"	60.0	122.0	3.89	2.16	475.0		.6	10	-.08	"
413	3-17	0952 / 1000	"	11.0	2.87	0.38	0.43	1.1		.5	5	0	"
414	3-31	1010 / 1018	"	5.0	1.50	0.73	0.40	1.1		.5	4	0	"
415	4-28	0950 / 1000	"	12.0	4.69	0.68	0.48	3.2		.5	4	0	"
416	5-12	0934 / 0940	"	10.0	3.80	0.42	0.50	1.6		.5	4	0	"
417	5-19	1002 / 1012	"	59.0	31.3	0.69	0.68	21.5		.6	4	.02	"
418	5-26	1010 / 1020	"	13.0	3.51	0.51	0.45	1.8		.5	4	0	"
419	6-9	1014 / 1020	"	7.0	2.41	0.62	0.46	1.5		.5	4	0	"
420	6-23	1014 / 1022	"	8.0	2.75	0.73	0.47	2.0		.5	5	0	"
421	7-7	1018 / 1026	"	5.0	1.40	0.69	0.42	0.96		.5	4	0	"
422	7-21	0950 / 1000	"	5.0	1.65	0.97	0.45	1.6		.5	4	0	"
423	8-4	0930 / 0940	"	5.0	2.65	0.98	0.48	2.6		.6	4	0	"
424	9-1	1016 / 1022	"	5.0	1.90	0.74	0.47	1.4		.6	4	0	"
425	9-29	1002 / 1008	"	40.0	11.8	0.27	0.48	3.2		.5	4	0	"

F. C. Dist. Form 82 4-46

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 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.1	6.4	18	3.4	5.6	4.8	4.4	15	4.4	3.0	3.7	2.6
2	7.1	5.6	15	2.6	4.8	5.6	4.4	12	4.4	3.0	3.7	1.9
3	7.1	4.4	13	4.1	4.8	5.6	26	10	4.4	3.7	4.1	2.3
4	6.4	7.1	71	4.1	4.4	5.6	11	9.5	4.8	4.1	4.8	2.6
5	7.1	5.6	198	3.7	170	4.8	5.6	8.7	4.4	3.7	6.4	3.4
6	5.6	6.4	9.5	4.1	16	7.1	22	7.9	4.4	3.4	6.4	3.0
7	7.1	7.1	6.4	4.8	4.8	6.4	7.9	7.9	4.8	4.1	5.6	2.3
8	6.4	6.4	4.8	7.9	4.4	6.4	6.4	7.9	4.8	4.8	4.4	2.3
9	5.6	7.9	4.8	8.7	4.4	7.1	6.4	6.4	4.8	5.6	4.1	1.9
10	5.6	6.4	5.6	7.9	4.8	6.4	8.7	6.4	4.8	4.8	3.4	2.3
11	7.1	7.9	5.6	7.9	4.8	7.1	8.7	6.4	4.8	5.6	3.4	2.6
12	6.4	7.1	4.8	7.1	4.4	4.4	7.1	6.4	5.6	6.4	3.0	3.7
13	5.6	7.9	4.8	7.9	5.6	60	7.1	5.6	5.6	5.6	3.4	2.3
14	7.1	7.9	6.4	6.4	5.6	15	6.4	5.6	5.6	6.4	3.0	2.6
15	5.6	7.9	4.8	4.8	6.4	4.1	7.9	6.4	6.4	7.9	3.0	3.0
16	6.4	7.9	4.4	6.4	6.4	4.4	7.9	5.6	6.4	7.9	2.6	3.0
17	7.9	6.4	5.6	6.4	7.9	127	7.9	4.8	6.4	7.1	2.3	3.0
18	6.4	7.1	5.6	6.4	9.5	4.4	8.7	4.8	6.4	7.1	2.3	3.0
19	6.4	6.4	4.1	4.4	9.5	28	8.7	4.8	5.6	6.4	2.3	2.6
20	5.6	5.6	4.1	4.8	9.5	4.4	8.7	4.1	5.6	6.4	3.0	2.3
21	6.4	7.9	3.4	5.6	8.7	3.0	8.7	3.7	4.8	4.8	3.0	2.3
22	7.1	9.5	2.3	4.8	7.9	3.0	9.5	4.1	4.8	4.8	3.0	2.6
23	6.4	7.1	3.4	5.6	5.6	3.7	9.5	4.1	4.8	4.1	2.6	3.0
24	6.4	6.4	3.7	5.6	6.4	145	9.5	4.4	4.1	3.7	2.3	3.0
25	6.4	7.1	1.2	4.4	7.9	16	9.5	4.8	4.1	3.4	2.6	3.4
26	6.4	7.1	0.6	4.8	8.7	6.4	10	5.6	3.7	3.0	1.9	3.4
27	5.6	7.1	1.9	4.1	6.4	4.4	11	4.8	3.4	2.6	1.6	1.9
28	7.1	7.1	1.6	4.1	7.1	4.4	13	4.8	3.4	2.3	1.2	2.3
29	7.1	8.7	1.1	6.4	5.6	4.4	63	4.4	3.0	2.6	1.2	3.0
30	7.1	7.1	1.9	7.1		4.4	21	4.8	3.0	2.6	1.1	3.7
31	6.4		2.6	6.4		4.4		4.8		3.0	1.6	
	202.0	210.5	420.0	172.7	357.9	517.7	346.6	196.5	143.5	143.9	97.0	81.3
MEAN	6.52	7.02	13.5	5.57	12.3	16.7	11.6	6.34	4.78	4.64	3.13	2.71
ACRE-FEET	401.	418.	833.	343.	710.	1030.	687.	390.	285.	285.	192.	161.

Remarks:

YEAR OR PERIOD MEAN 7.90
ACRE-FEET 5,740.

F. C. Dist. Form 82 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

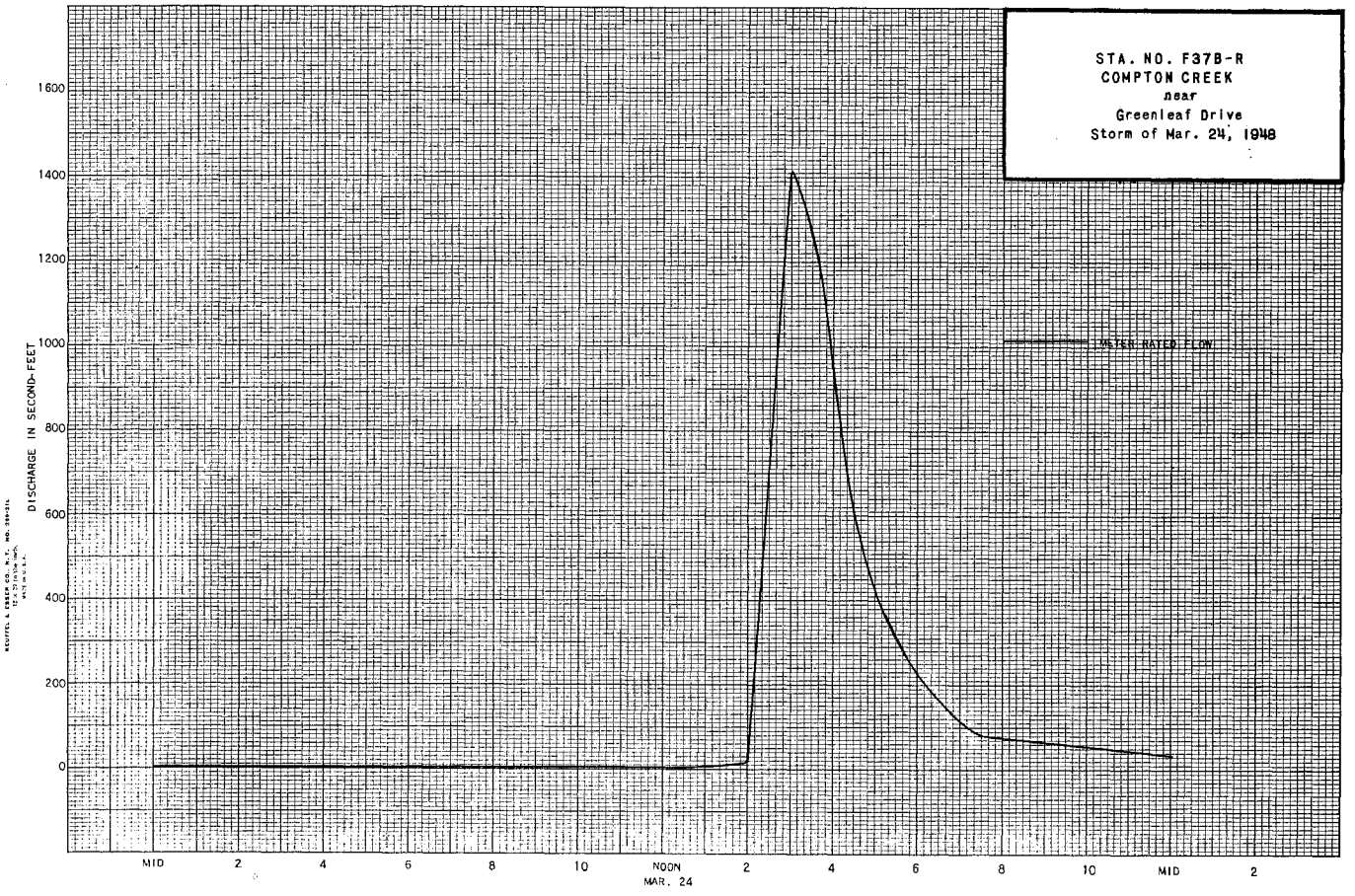
Sta. No. F37B-R

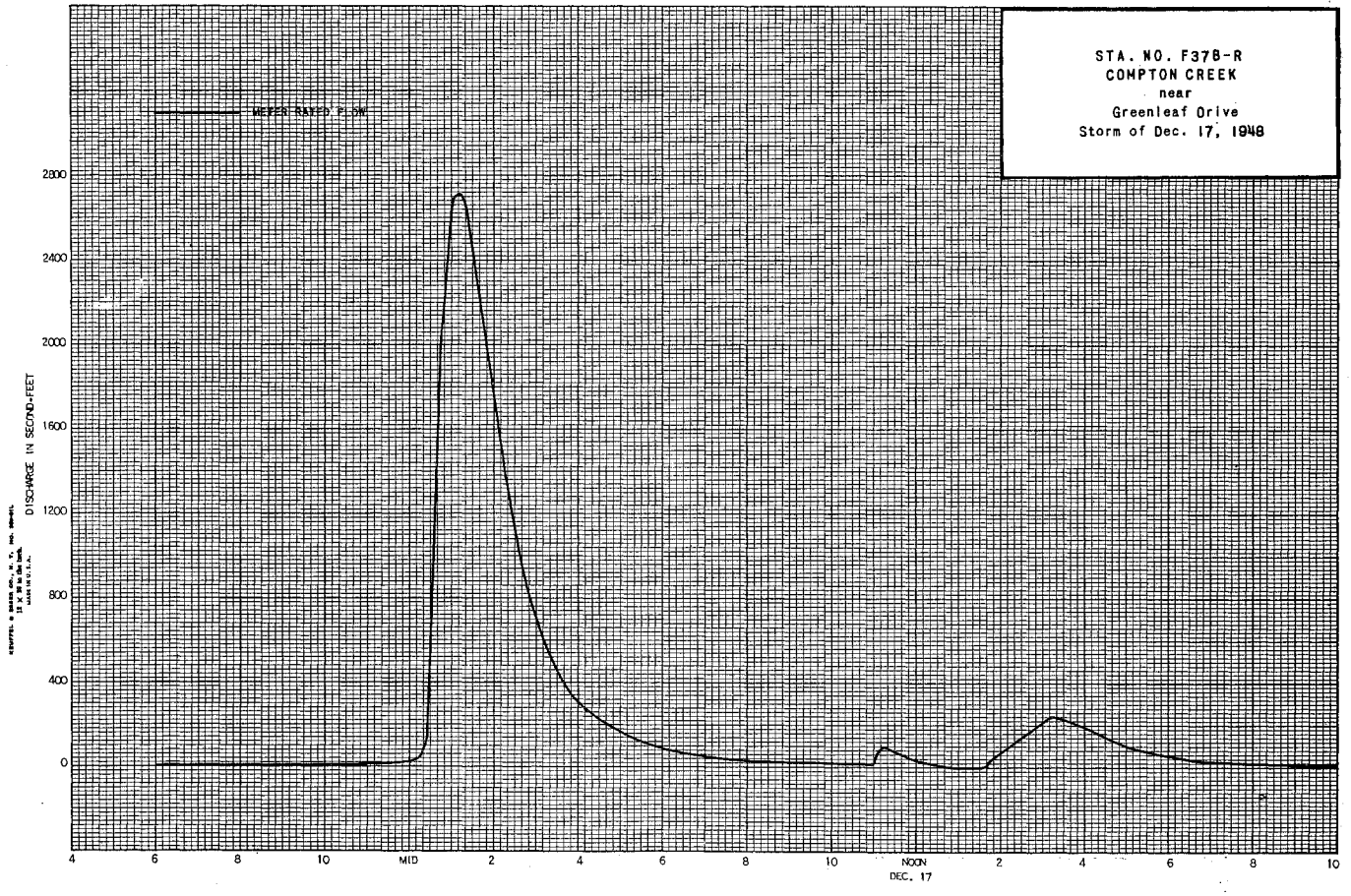
Daily discharge, in second-feet of COMPTON CREEK near Greenleaf Drive for the year ending September 30, 19 49

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	b2.6	1.0	3.0	1.9	3.0	0.8	1.0	0.8	1.1	1.6	0.7	1.6
2	2.3	1.0	2.6	0.6	3.0	1.2	1.1	0.5	1.1	1.9	3.0	1.6
3	2.3	1.2	2.6	0.1	61	1.9	1.1	1.0	1.0	0.8	3.7	1.1
4	2.3	1.9	4.1	1.0	3.0	72	0.6	0.8	0.8	0.6	3.4	1.6
5	b2.3	1.9	3.0	1.2	2.6	3.7	1.2	0.8	1.0	0.6	2.6	0.5
6	1.9	1.9	1.2	1.6	1.9	0.6	1.9	1.1	0.5	1.0	1.9	1.1
7	1.6	1.9	1.2	2.3	149	0.6	2.3	1.0	1.0	0.8	1.1	2.6
8	1.9	1.6	1.6	2.3	4.1	1.0	2.3	0.8	1.1	1.0	0.5	4.1
9	1.9	1.2	1.9	1.9	2.6	1.1	1.6	0.4	1.1	0.7	1.1	4.1
10	1.9	1.6	2.3	1.6	1.2	7.0	1.0	0.8	1.1	0.7	1.1	2.6
11	1.2	1.6	2.3	69	15	124	0.7	1.0	0.6	0.8	1.1	1.2
12	1.1	1.9	2.3	62	2.6	0.6	1.6	1.0	0.7	1.6	1.1	1.0
13	1.1	1.9	0.7	40	1.2	0.5	2.3	1.2	0.8	1.2	0.8	1.2
14	1.6	1.9	1.6	4.1	0.8	0.1	2.3	3.4	1.1	1.1	0.7	1.2
15	1.6	1.9	1.6	2.6	1.2	0.6	2.3	0.7	1.0	1.9	0.4	1.2
16	1.2	2.3	2.6	1.9	1.2	0.6	1.6	0.4	1.2	1.9	0.8	1.2
17	1.2	2.6	282	0.8	1.1	0.6	1.1	1.6	1.1	1.2	0.8	1.0
18	1.1	3.0	1.9	1.2	1.9	0.7	0.7	2.3	0.8	1.2	1.0	1.2
19	1.2	3.4	0.7	75	a 1.9	4.8	1.9	28	0.7	3.4	1.9	0.6
20	1.9	3.4	0.6	108	1.9	0.7	1.9	1.9	0.2	3.0	1.2	1.2
21	1.9	3.4	1.1	2.3	1.9	0.2	1.9	1.1	1.0	1.6	0.7	1.6
22	1.6	2.3	12	18	1.9	0.7	1.9	1.0	1.2	1.6	0.8	1.6
23	1.9	1.9	2.6	3.4	1.9	14	1.9	0.6	2.6	1.1	3.4	3.7
24	1.6	2.6	1.6	1.9	a11	1.9	1.2	2.3	1.9	1.0	1.6	4.4
25	1.6	3.0	0.8	1.1	1.9	1.2	1.0	2.3	1.2	0.7	1.2	1.6
26	1.6	2.3	68	1.0	2.4	0.8	2.3	1.2	1.1	1.2	1.9	0.7
27	1.6	1.9	86	1.6	8.6	0.6	1.6	1.1	1.0	1.1	1.9	1.1
28	1.9	2.3	2.6	2.3	0.7	0.1	2.3	1.2	1.1	1.1	1.2	1.2
29	1.9	2.3	1.6	2.3		0.6	2.3	0.8	1.1	1.1	0.8	1.6
30	1.6	2.3	1.6	1.6		1.0	0.8	0.6	1.6	1.1	2.3	1.9
31	1.1		1.2	1.6		0.8		0.7		1.2	2.3	
	52.5	63.4	498.9	416.2	290.5	245.0	47.7	62.4	31.8	39.8	47.0	51.3
MEAN	1.69	2.11	16.1	13.4	10.4	7.90	1.59	2.01	1.06	1.29	1.52	1.71
ACRE-FEET	104.	126.	990.	826.	576.	486.	95.	124.	63.	79.	93.	102.

Remarks:

YEAR OR PERIOD MEAN 5.06
ACRE-FEET 3660.


STA. NO. F37B-R
COMPTON CREEK
near
Greenleaf Drive
Storm of Mar. 24, 1948
METER RATED FLOW
DISCHARGE IN SECOND-FEET
1600
1400
1200
1000
800
600
400
200
0
MID
2
4
6
8
10
NOON
2
4
6
8
10
MID
2
MAR. 24


STA. NO. F37B-R
COMPTON CREEK
near
Greenleaf Drive
Storm of Dec. 17, 1948
METER RATED FLOW
DISCHARGE IN SECOND-FEET
2800
2400
2000
1600
1200
800
400
0
4
6
8
10
MID
2
4
6
8
10
NOON
2
4
6
8
10
DEC. 17

STATION F41C-R
COYOTE CREEK at Del Amo Street

LOCATION: WATER-STAGE RECORDER, LAT. 33°50'47", LONG. 118°03'30", ON THE RIGHT (WEST) ABUTMENT AND DOWNSTREAM SIDE OF THE DEL AMO STREET (FORMERLY ANAHEIM STREET) HIGHWAY BRIDGE, 30 FEET ABOVE THE UPSTREAM SIDE OF PACIFIC ELECTRIC RAILROAD TRESTLE, AND 1.8 MILES SOUTHEAST OF ARTESIA. ELEVATION OF ZERO GAGE HEIGHT, 28.38 FEET.

DRAINAGE AREA: 110 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - CLAY, COVERED BY TULES DURING THE SUMMER MONTHS ONLY. CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM UPSTREAM SIDE OF P.E. RAILROAD TRESTLE.

RECORDER: INSTALLED JANUARY 14, 1930 AT STATION F41-R, MOVED TO STATION F41B-R ON OCTOBER 30, 1936, REMOVED ON FEBRUARY 17, 1937. INSTALLED FEBRUARY 18, 1937 AT STATION F41C-R OVER AN 18-INCH DIAMETER, CORRUGATED IRON PIPE STILLING WELL. AN AU CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO OCTOBER 2, 1947. AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 2, 1947 TO SEPTEMBER 30, 1949.

REGULATION: NONE.

DIVERSIONS: NONE.

RECORDS AVAILABLE:
AT STATION F41-R - 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, 1949.

EXTREMES OF DISCHARGE:
1947-1948
MAXIMUM 23 SECOND-FEET, DECEMBER 13.
MINIMUM NO FLOW PART OF YEAR.
1948-1949
MAXIMUM 11 SECOND-FEET, JANUARY 21.
MINIMUM NO FLOW PART OF YEAR.
1929-1949 (STATIONS F41-R, F41B-R, AND F41C-R)
MAXIMUM 4,190 SECOND-FEET (AT STATION F41B-R) FEBRUARY 6, 1937.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

DISCHARGE MEASUREMENTS OF COYOTE CREEK
AT NEAR Del Amo Street DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT-ING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
465	10-2	1021 / 1029	BONADIMAN	5.0	1.60	0.88	2.14	1.4		.6	5	C	FC19
466	10-16	1012 / 1020	"	5.0	1.66	0.72	2.09	1.2		.6	4	0	"
467	10-23	1002 / 1008	"	6.0	1.34	0.72	2.12	0.97		.6	4	0	"
468	11-6	1011 / 1020	"	6.0	3.25	0.37	2.09	1.2		.6	4	0	"
469	11-13	0958 / 1006	"	6.0	2.85	0.56	2.47	1.6		.6	5	0	"
470	12-11	1007 / 1014	"	6.0	5.00	0.60	2.67	3.0		.6	4	0	"
471	12-18	1442 / 1450	"	11.0	10.5	0.52	2.81	5.4		.6	5	0	"
472	12-26	1452 / 1500	"	12.0	10.0	0.41	2.74	4.1		.6	5	C	"
473	1-7	1052 / 1100	"	9.0	6.00	0.50	2.60	3.0		.6	4	0	"
474	1-15	1514 / 1520	"	9.0	6.07	0.71	2.60	4.3		.6	4	0	"
475	1-29	1442 / 1450	"	8.0	4.40	0.39	2.29	1.7		.6	4	0	"
476	2-5	1532 / 1542	"	22.0	34.4	0.19	4.06	6.6		.6	6	0	"
477	2-12	1402 / 1410	"	20.0	36.8	0.14	3.93	5.0		.6	5	0	"
478	2-26	1502 / 1512	"	18.0	28.6	0.09	3.67	2.5		.6	6	0	"
479	3-4	1042 / 1050	"	16.0	20.8	0.18	3.61	3.8		.6	4	0	"
480	3-18	1450 / 1500	"	20.0	34.2	0.22	4.05	7.4		.6	5	0	"
481	3-25	1521 / 1536	SILL - BONADIMAN	14.0	10.8	0.82	4.10	8.9		.6	7	C	"
482	4-1	1532 / 1540	BONADIMAN	10.0	9.30	0.54	2.97	5.0		.6	4	0	"
483	4-8	1024 / 1034	"	8.0	7.35	0.27	2.65	2.0		.6	5	0	"
484	4-16	1522 / 1532	"	16.0	18.8	0.30	3.43	5.7		.6	5	0	"
485	4-22	1454 / 1502	"	8.0	7.25	0.15	2.70	1.1		.6	5	0	"
486	5-6	1502 / 1510	"	11.0	10.4	0.07	3.03	0.77		.6	5	0	"
487	5-27	1500 / 1506	"	6.0	1.62	0.18	2.18	0.29		.6	3	0	"
488	7-8	1448 / 1454	"	8.0	2.50	0.18	2.34	0.46		.6	3	0	"
489	7-15	1502 / 1506	"	6.0	1.50	0.29	2.30	0.44		.6	2	0	"
490	7-22	1520 / 1526	"	7.0	1.62	0.15	2.28	0.25		.6	3	0	"

DISCHARGE MEASUREMENTS OF COYOTE CREEK
AT NEAR Del Amo Street DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT-ING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
491	12-9	1530 / 1540	BONADIMAN	15.0	6.63	0.42	3.17	2.8		.5	6	0	FC19
492	12-16	1520 / 1530	"	17.0	4.25	0.15	3.06	2.0		.5	5	0	"
493	12-18	1250 / 1300	BONADIMAN-JOHNSON	16.0	8.70	0.60	3.54	5.2		.6	5	0	"
494	12-23	1520 / 1530	BONADIMAN	15.0	7.00	0.46	3.34	3.2		.5	5	0	"
494X	12-27	1500	"				3.49	6.0		EST.			
495	12-30	1530 / 1540	"	15.0	6.85	0.51	3.35	3.5		.6	5	0	"
496	1-6	1443 / 1456	DIAS	16.0	5.90	0.34	3.34	2.0		.6	7	0	"
497	1-13	1430 / 1440	BONADIMAN-JOHNSON	17.0	10.2	0.62	3.67	6.3		.5	5	0	"
498	1-20	1400 / 1410	" "	23.0	13.4	0.69	3.72	9.2		.6	5	0	"
499	1-27	1456 / 1502	BONADIMAN	15.0	6.57	0.32	3.51	2.1		.6	4	0	"
500	2-4	0930 / 0936	"	15.0	6.75	0.50	3.55	3.4		.6	5	0	"
501	2-10	1520 / 1530	"	13.0	7.30	0.45	3.53	3.3		.6	5	0	"
502	2-17	1530 / 1540	"	11.0	5.30	0.59	3.53	3.1		.6	5	0	"
503	2-24	1450 / 1500	"	11.0	5.85	0.63	3.51	3.7		.5	5	0	"
504	3-3	1520 / 1530	"	12.0	6.80	0.60	3.48	4.1		.5	4	0	"
505	3-10	1530 / 1540	"	11.0	6.24	0.45	3.43	2.8		.5	4	0	"
506	3-17	1520 / 1530	"	9.0	5.20	0.38	3.45	2.0		.6	5	0	"
507	3-31	1500 / 1510	"	9.0	3.36	0.36	3.24	1.2		.5	4	0	"
508	4-7	1510 / 1516	"	4.0	0.90	0.31	3.02	0.28		.5	3	0	"
509	4-28	1500 / 1504	"	3.0	0.60	0.23	3.48	0.14		.5	2	0	"
510	5-26	1520 / 1526	"	8.0	2.80	0.04	3.60	0.12		.5	3	0	"

F. C. Dist. Form 52 4-48

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, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.2	1.0	1.9	3.3	2.7	3.7	4.8	0.8	v 0.2	v 1.0	v 1.0	v 0.5
2	1.6	1.1	2.7	3.5	3.3	3.4	4.6	3.2	0.2	1.0	1.0	0.5
3	2.0	2.2	3.0	3.3	5.6	3.7	4.3	2.9	0.1	1.0	1.0	0.4
4	2.2	2.6	3.1	3.2	5.5	3.6	4.8	2.4	0.1	0.9	1.0	0.3
5	1.8	1.4	3.8	3.1	6.3	3.3	3.6	0.9	v 0.1	0.8	1.0	0.2
6	1.9	1.4	4.9	3.1	7.6	3.1	3.7	0.7	0	0.7	1.0	v 0.1
7	1.6	3.0	5.4	a 3.0	6.3	3.7	3.4	0.8	0	0.6	0.9	0
8	1.8	1.3	4.0	3.2	5.7	3.6	2.3	1.1	0	0.5	0.8	0
9	1.9	1.6	3.5	3.3	5.0	2.1	2.6	1.0	0	0.5	0.7	0
10	1.9	2.6	3.2	3.5	5.0	1.1	3.1	0.9	0	0.5	0.6	0
11	2.2	2.1	3.6	3.6	5.1	0.8	2.8	1.1	0	0.5	0.5	0
12	1.9	1.9	5.5	3.8	5.2	0.9	2.7	1.4	0	0.4	0.5	0
13	2.0	1.8	9.3	4.0	5.6	1.9	2.8	0.9	0	0.4	0.5	0
14	1.1	1.7	4.9	4.1	4.7	5.3	1.3	0.6	0	0.4	0.6	0
15	1.2	1.4	4.9	a 4.3	4.7	6.7	2.8	0.6	0	0.4	0.7	0
16	1.5	0.9	4.7	2.9	4.4	6.5	6.2	0.6	0	0.4	0.8	0
17	2.2	1.3	4.5	2.8	4.3	7.0	3.6	0.9	0	0.4	0.9	0
18	1.7	1.2	5.1	2.8	3.5	7.3	3.0	1.1	0	0.3	1.0	0
19	1.2	0.7	4.4	3.2	3.3	6.5	3.3	0.9	v 0.1	0.3	1.0	0
20	1.0	0.8	4.6	3.5	3.3	6.5	3.7	0	0.3	0.2	1.0	0
21	2.2	0.7	5.0	3.4	3.8	6.9	2.4	v 0.1	0.4	0.2	0.9	0
22	1.4	1.5	4.2	3.4	4.0	6.3	1.6	0.1	0.6	0.2	0.8	0
23	1.0	2.0	4.7	3.4	4.0	5.3	1.4	0.2	0.7	0.3	0.7	0
24	1.3	1.9	4.6	1.9	3.1	6.2	1.4	0.2	0.9	0.5	0.6	0
25	1.8	1.8	4.3	2.1	2.3	7.7	2.2	0.3	1.0	0.6	0.5	0
26	1.9	2.1	4.0	1.8	2.4	6.7	2.0	0.3	1.0	0.7	0.5	0
27	1.9	2.2	3.8	1.4	3.4	5.3	1.3	0.3	1.0	0.9	0.5	0
28	1.8	1.7	3.7	1.5	3.0	5.0	0.5	0.3	1.0	1.0	0.5	0
29	1.5	2.2	3.7	1.6	3.6	4.9	0.4	0.3	1.0	1.0	0.5	0
30	1.3	2.2	3.7	1.8		4.9	0.2	0.3	v 1.0	1.0	0.5	0
31	1.5		3.5	2.3		4.9		v 0.2		v 1.0	v 0.5	
	51.5	50.3	132.2	91.9	126.7	144.8	83.0	25.4	9.7	18.6	23.0	2.0
MEAN	1.66	1.68	4.26	2.96	4.37	4.67	2.77	0.82	0.32	0.60	0.74	0.07
ACRE-FEET	102.	100.	262.	182.	251.	287.	165.	50.	19.	37.	46.	4.0

Remarks:

YEAR OR PERIOD MEAN 2.07
ACRE-FEET 1500.

F. C. Dist. Form 52 4-48

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

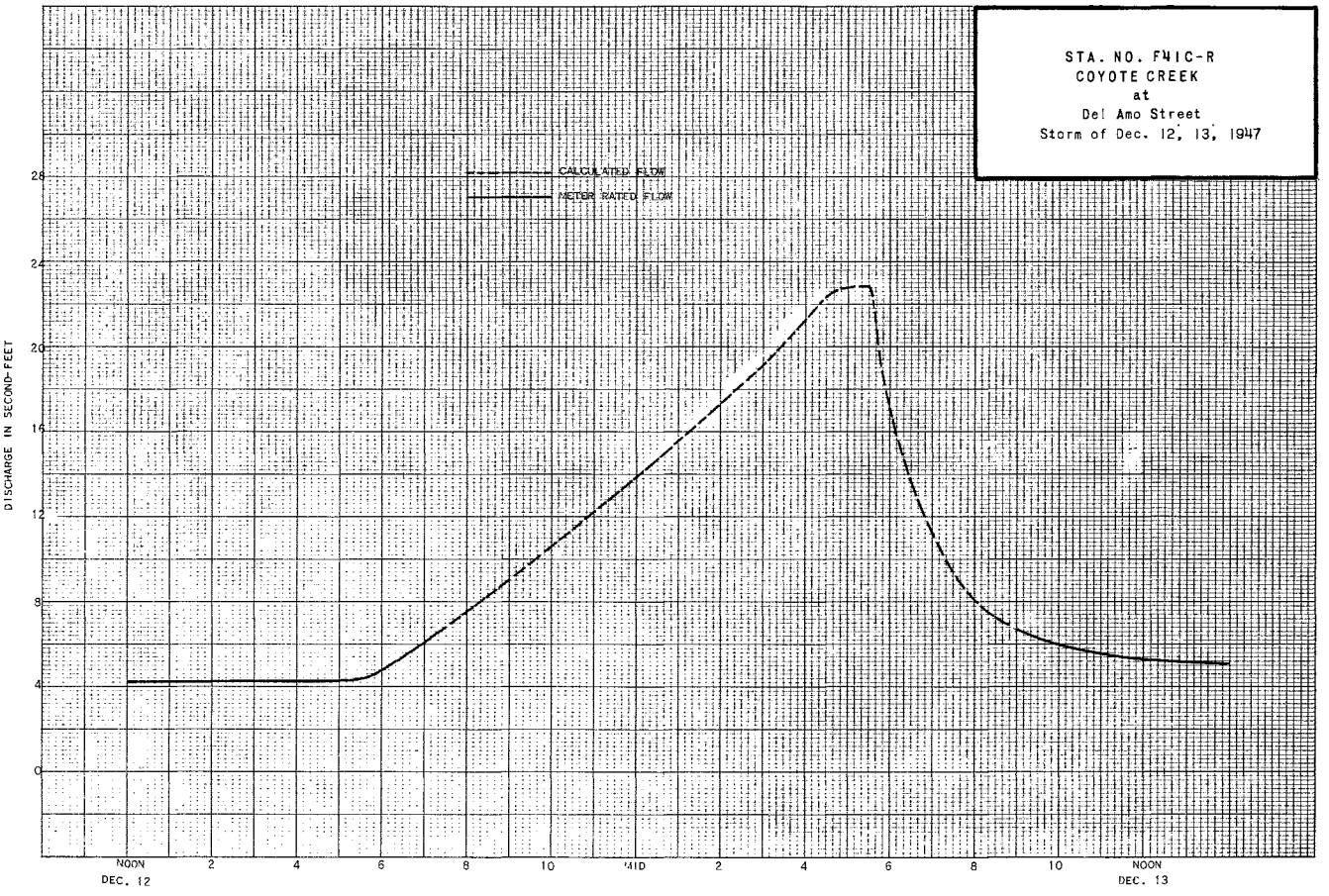
Sta. No. F41C-R

Daily discharge, in second-feet of COYOTE CREEK at Del Amo Street, for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	1.0	0.2	3.3	2.8	4.0	1.1	0	0.2	0.4	1.1	0
2	0	0.8	0.1	3.2	2.9	4.0	1.0	0	0.2	0.5	0.6	0
3	0	0.9	0.6	2.8	3.3	4.1	1.0	0	0.1	0.5	0.7	0
4	0	0.9	1.5	2.6	3.3	4.1	0.9	0	0	0.6	0.4	0
5	0	0.6	3.1	2.3	3.2	4.1	0.7	0	0	0.4	0.4	0
6	0	0	3.3	2.0	3.1	3.8	0.4	0.2	0	0	0.6	0
7	0	0	3.2	2.5	3.7	3.5	0.3	0.3	0	0	0.6	0
8	0.4	0	3.4	2.8	5.8	3.6	0	0.3	0	0	0.5	0
9	0.4	0	3.1	3.2	3.4	3.7	0	0.5	0	0	0	0
10	0.6	0	2.9	3.5	3.1	2.9	0.3	0.5	0	0	0	0
11	0.4	0	2.2	4.0	3.1	1.7	0.4	0.4	0.2	0	0	0
12	0.5	0.7	2.5	4.8	3.3	3.7	0.2	0.4	0.2	0	0	0
13	0.3	0.7	2.6	6.2	3.2	2.7	0.2	0.3	0.2	0	1.0	0
14	0	0.5	2.6	6.4	3.0	2.6	0	0.3	0	0	1.2	0
15	0	0.4	2.5	5.5	3.1	2.5	0.2	0.4	0	0	0.8	0
16	0.3	0.4	2.1	4.9	3.0	2.5	0.8	0.5	0	0	0.7	0
17	1.4	0.4	4.4	5.8	2.9	2.2	1.0	0.4	0	0	0.5	0
18	0.8	0	5.2	6.1	2.9	2.2	1.0	0.3	0	0	1.0	0
19	0.6	0	4.0	6.5	3.1	2.2	1.2	0.2	0.1	0	0.8	0
20	0.5	0	3.3	8.9	3.2	2.2	0.8	0.3	0.6	0	0.6	0
21	0.2	0.3	3.1	9.2	3.3	2.1	1.0	0.7	1.0	0	0.8	0
22	0.2	0.3	3.3	6.8	3.3	2.3	0.9	1.0	0.8	0	0.7	0
23	0.2	0.2	3.3	4.9	3.3	1.5	0.7	1.1	0.4	0	0.6	0
24	0.5	0.2	3.4	3.7	3.5	2.2	0.6	0.5	0.4	0	0.5	0
25	0.9	0.2	3.6	3.1	3.6	1.6	0.5	0.4	0.3	0	0	0
26	a 0.9	0.2	3.8	2.5	3.7	2.2	0.4	0.2	0.7	0	0	0
27	a 1.0	0.2	5.3	2.0	3.9	1.9	0.2	0.2	0.6	0	0	0
28	1.0	0.3	5.4	2.1	4.6	2.0	0.1	0.3	1.2	0	0	0
29	0.8	0.2	4.2	2.2		2.0	0	0.3	1.0	0	0	0
30	1.0	0.2	3.6	2.4		1.7	0	0.4	0.5	1.4	0	0
31	1.0		3.4	2.6		1.4		0.3		0.9	0	
	13.9	9.8	95.4	128.8	94.6	83.2	15.9	10.7	8.7	4.7	14.1	0
MEAN	0.45	0.33	3.08	4.15	3.38	2.68	0.53	0.35	0.29	0.15	0.45	0
ACRE-FEET	28.	19.	189.	255.	188.	165.	32.	21.	17.	9.3	28.	0

Remarks:

YEAR OR PERIOD MEAN 1.31
ACRE-FEET 951.



STATION F265-R

DOMINGUEZ CHANNEL at Carson Boulevard

LOCATION: WATER-STAGE RECORDER, LAT. 33°49'56", LONG. 118°15'12", ON THE LEFT (EAST) BANK ON THE UPSTREAM SIDE OF THE CARSON BOULEVARD BRIDGE ABOUT ONE-HALF MILE EAST OF AVALON BOULEVARD, ELEVATION OF ZERO GAGE HEIGHT, ABOUT 0.0 FEET.

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, 1947 TO SEPTEMBER 30, 1949.

REGULATION: REGULATED BY LAGUNA DOMINGUEZ AREA, SUBJECT TO PONDING.

DIVERSION: NONE.

RECORDS AVAILABLE: NOVEMBER 23, 1938 TO SEPTEMBER 30, 1949. FOR PREVIOUS RECORDS SEE EARLIER REPORTS ON STATION F46-R, NIGGER SLOUGH AT WILMINGTON AVENUE.

EXTREMES OF DISCHARGE:

1947-1948
MAXIMUM 37 SECOND-FEET, MARCH 18.
MINIMUM 1.4 SECOND-FEET, SEPTEMBER 8.

1948-1949
MAXIMUM 75 SECOND-FEET, JANUARY 21.
MINIMUM 1.8 SECOND-FEET, OCTOBER 1.

1938-1949
MAXIMUM 1,020 SECOND-FEET, FEBRUARY 23, 1944.
MINIMUM NO MEASURABLE FLOW, WATER PONDED AT GAGE.

ACCURACY: GOOD.

OPERATION: LOCATED, CONSTRUCTED, AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

DISCHARGE MEASUREMENTS OF DOMINGUEZ CHANNEL

AT ~~NEAR~~ Carson Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
317	10-2	1422 / 1432	BONADIMAN	28.0	9.50	0.74	6.07	7.0		.6	7	0	FC19
318	10-10	1110 / 1120	"	28.0	7.52	0.87	6.04	6.5		.6	8	0	"
319	10-16	1402 / 1412	"	29.0	7.27	1.00	6.07	7.3		.6	7	0	"
320	10-23	1332 / 1342	"	29.0	7.21	0.89	6.05	6.4		.6	7	0	"
321	10-30	1045 / 1056	"	28.0	6.52	0.90	6.03	5.9		.6	7	0	"
322	11-6	1332 / 1342	"	28.0	7.47	0.80	6.03	6.0		.6	7	0	"
323	11-13	1402 / 1412	"	29.0	7.24	0.79	6.05	5.7		.6	7	0	"
324	11-20	1341 / 1351	"	29.0	8.00	0.94	6.08	7.5		.6	8	0	"
325	11-28	1030 / 1040	"	28.0	5.98	0.80	6.03	4.8		.6	8	0	"
326	12-11	1412 / 1424	"	29.0	9.69	0.98	6.09	9.5		.6	8	0	"
327	12-18	1032 / 1044	"	24.0	6.83	0.95	6.06	6.5		.6	8	0	"
328	12-26	1124 / 1136	"	TWO CHANNELS			6.07	4.6		.6	8	0	"
329	12-31	1112 / 1124	"	28.0	8.42	0.93	6.05	7.8		.6	7	0	"
330	1-7	1432 / 1444	"	23.5	8.56	0.73	6.00	6.3		.6	8	0	"
331	1-15	1122 / 1132	"	29.0	6.94	1.02	6.00	7.1		.6	6	0	"
332	1-22	1052 / 1102	"	28.0	6.66	0.92	6.00	6.1		.6	8	0	"
333	1-29	1132 / 1144	"	28.0	7.04	0.84	6.04	5.9		.6	9	0	"
334	2-12	1006 / 1018	"	28.0	9.09	0.78	6.09	7.1		.6	8	0	"
335	2-19	1050 / 1103	BONADIMAN - SILL	27.0	9.50	0.71	6.02	6.7		.6	7	0	"
336	2-26	1122 / 1132	BONADIMAN	28.0	9.85	0.86	6.08	8.5		.6	8	0	"
337	3-4	1352 / 1402	"	29.0	7.43	0.83	6.05	6.2		.6	8	0	"
338	3-11	1122 / 1132	"	28.0	7.73	0.99	6.05	7.7		.6	7	0	"
339	3-18	1122 / 1134	"	30.4	42.4	0.79	6.60	33.4		.6	10	C	"
340	3-25	1120 / 1140	SILL - BONADIMAN	30.0	16.2	0.80	6.17	13.0		.6	9	0	"
341	4-1	1102 / 1114	BONADIMAN	27.0	10.7	0.78	6.07	8.4		.6	8	0	"
342	4-8	1402 / 1414	"	28.0	10.9	0.97	6.09	10.6		.6	8	0	"
343	4-16	1132 / 1146	"	24.0	6.85	0.82	6.04	5.6		.6	10	C	"
344	4-22	1052 / 1106	"	23.0	7.64	0.92	6.04	7.0		.6	9	C	"
345	4-29	1147 / 1200	BONADIMAN - MILLS	29.0	12.8	0.72	6.12	9.2		.6	8	0	"
346	5-6	1122 / 1134	BONADIMAN	23.0	8.08	0.92	6.05	7.4		.6	8	0	"
347	5-13	1102 / 1112	"	32.0	13.2	0.69	6.14	9.1		.6	8	0	"
348	5-20	1100 / 1110	"	32.0	8.38	0.75	6.08	6.3		.6	8	C	"
349	5-27	1127 / 1140	"	35.0	9.61	0.78	6.12	7.5		.6	9	0	"
350	6-9	1102 / 1112	"	24.0	8.32	0.60	6.04	5.0		.6	7	C	"
351	6-17	1032 / 1042	"	23.0	7.50	0.85	6.05	6.4		.6	8	C	"
352	6-24	1135 / 1145	BARON - BONADIMAN	10.0	11.6	0.48	6.00	5.6		.6	7	0	"
353	7-2	1032 / 1042	BONADIMAN	10.0	10.2	0.63	6.08	6.4		.6	6	0	"
354	7-8	1122 / 1134	BONADIMAN	27.0	9.09	0.67	6.10	6.1		.6	9	0	"
355	7-15	1125 / 1138	"	27.0	10.8	0.84	6.08	9.1		.6	8	0	"
356	7-22	1112 / 1120	"	10.0	10.0	0.57	6.07	5.7		.6	5	0	"
357	7-28	1112 / 1120	"	10.0	10.2	0.42	6.07	4.3		.6	6	0	"
358	8-5	1022 / 1032	"	11.0	12.1	0.50	6.08	6.0		.6	6	0	"
359	8-19	1142 / 1152	"	9.5	10.4	0.51	6.11	5.3		.6	7	0	"
360	9-2	1122 / 1132	"	10.0	11.0	0.48	6.14	5.3		.6	6	0	FC46
361	9-8	1507 / 1517	WADDICOR	5.3	1.59	0.94	6.03	1.5		.6	5	0	FC37
362	9-17	1033 / 1043	"	6.3	2.79	1.29	6.03	3.6		.6	5	0	"
363	9-23	1005 / 1015	"	7.2	2.77	1.15	6.03	3.2		.6	7	0	"
364	9-29	1012 / 1020	"	5.5	1.96	1.23	6.02	2.4		.6	6	0	"

DISCHARGE MEASUREMENTS OF DOMINGUEZ CHANNEL

AT ~~NEAR~~ Carson Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
365	10-6	1014 / 1022	WADDICOR	6.0	1.90	1.05	6.01	2.0		.5	6	0	FC37
366	10-14	1114 / 1124	BONADIMAN	10.0	11.2	0.40	6.13	4.5		.6	6	C	FC19
367	10-21	1152 / 1200	"	10.0	10.8	0.39	6.16	4.2		.6	5	0	"
368	10-28	1130 / 1140	"	11.0	12.0	0.46	6.19	5.5		.6	6	0	"
369	11-4	1130 / 1140	"	11.0	11.9	0.53	6.06	6.3		.6	6	0	"
370	11-10	1124 / 1134	"	8.5	9.05	0.43	6.08	3.9		.6	6	0	"
371	11-19	1126 / 1138	"	9.0	9.10	0.46	6.06	4.2		.6	6	0	"
372	11-24	1122 / 1136	WILLUT - BONADIMAN	11.0	12.3	0.52	6.08	6.4		.6	8	0	"
373	12-2	1124 / 1136	BONADIMAN	9.5	10.6	0.47	6.07	5.0		.6	7	0	"
374	12-9	1040 / 1050	"	9.5	9.97	0.50	6.11	5.0		.6	6	0	"
375	12-17	0940 / 0952	BONADIMAN-JOHNSON	30.4	35.5	0.73	6.41	26.0		.6	8	-.02	FC19
376	12-23	1122 / 1134	BONADIMAN	28.7	35.2	0.44	6.27	15.4		.6	8	0	"
377	12-27	1312 / 1326	"	30.4	32.5	0.61	6.40	19.8		.6	8	0	"
378	12-30	1132 / 1150	"	37.0	48.0	0.78	6.56	37.6		.6	9	0	"
379	1-6	1044 / 1100	DIAS - BONADIMAN	28.0	13.2	0.58	6.19	7.7		.6 .5	8	0	"
380	1-13	0932 / 0944	BONADIMAN-JOHNSON	31.3	44.6	0.90	6.74	40.4		.6	9	0	"
381	1-20	0832 / 0846	" "	30.4	39.4	0.77	6.48	30.3		.6	9	0	"
382	1-21	1238 / 1254	BONADIMAN	31.3	61.2	1.16	7.31	70.9		.6	11	-.02	"
383	1-27	1116 / 1128	"	28.0	13.7	0.64	6.23	8.8		.6	8	0	"
384	2-3	1020 / 1030	"	24.0	10.6	0.69	6.12	7.3		.6	7	0	"
385	2-8	1002 / 1016	"	30.4	46.4	1.08	6.78	50.3		.6	9	0	"
386	2-10	1046 / 1100	"	42.0	29.2	0.71	6.50	20.8		.6	9	0	"
387	2-17	1104 / 1116	"	13.0	12.5	0.51	6.16	6.4		.6	7	0	"
388	2-24	1032 / 1042	"	14.0	13.1	0.28	6.12	3.6		.6	6	0	"
389	3-3	1052 / 1104	"	27.0	11.8	0.53	6.14	6.3		.6	8	0	"
390	3-10	1040 / 1100	"	29.0	12.1	0.82	6.18	9.9		.6	9	0	"
391	3-12	1482 / 1510	"	30.4	37.8	0.84	6.56	31.8		.6	9	0	"
392	3-17	1042 / 1052	"	25.0	11.1	0.53	6.20	5.9		.6	8	0	"
393	3-24	1042 / 1052	"	26.0	10.0	0.53	6.10	5.3		.6	7	0	"
394	3-31	1102 / 1112	"	11.0	11.9	0.40	6.18	4.7		.6	5	0	"
395	4-7	1042 / 1052	"	11.0	10.9	0.43	6.17	4.7		.6	5	0	"
396	4-14	1052 / 1102	"	11.0	11.1	0.42	6.12	4.7		.6	6	0	"
397	4-21	1042 / 1052	"	10.0	10.0	0.39	6.08	3.9		.6	6	0	"
398	4-28	1102 / 1112	"	11.0	11.2	0.45	6.08	5.0		.6	6	0	"
399	5-5	1102 / 1110	"	10.0	10.6	0.38	6.13	4.0		.6	5	0	"
400	5-12	1028 / 1036	"	11.0	11.2	0.41	6.12	4.6		.6	5	0	"
401	5-19	1102 / 1114	"	28.0	14.2	0.68	6.25	9.7		.6	8	0	"
402	5-26	1052 / 1102	"	10.0	9.90	0.47	6.12	4.7		.6	6	0	"
403	6-2	1035 / 1040	BONADIMAN-STUNDEN	11.0	10.9	0.40	6.08	4.4		.6	6	0	"
404	6-9	1102 / 1112	BONADIMAN	11.0	10.6	0.37	6.07	3.9		.6	6	0	"
405	6-16	1124 / 1134	"	11.0	11.4	0.42	6.08	4.8		.6	6	0	"
406	6-23	1124 / 1134	"	10.0	9.90	0.32	6.07	3.2		.6	6	0	"
407	6-30	1216 / 1226	"	11.0	11.7	0.43	6.12	5.0		.6	6	0	"
408	7-7	1110 / 1118	"	11.0	11.2	0.39	6.15	4.4		.6	6	0	"
409	7-14	1130 / 1146	REINHARD-BONADIMAN	13.0	14.0	0.36	6.14	5.1		.6	6	0	"
410	7-21	1104 / 1114	BONADIMAN	11.0	12.0	0.37	6.17	4.4		.6	6	0	"
411	7-28	1032 / 1042	"	10.0	10.6	0.39	6.17	4.1		.6	6	0	"
412	8-4	1030 / 1040	"	11.0	13.0	0.42	6.19	5.5		.6	6	0	"
413	8-11	1102 / 1112	BONADIMAN	10.0	10.6	0.38	6.17	4.0		.6	6	0	FC19
414	8-18	1100 / 1110	"	28.0	16.0	0.67	6.32	10.7		.6	8	0	"
415	8-25	0900 / 0908	"	10.0	10.5	0.44	6.17	4.6		.6	6	0	"
416	9-1	1122 / 1130	"	10.0	11.8	0.25	6.19	3.0		.6	5	0	"
417	9-8	0935 / 0942	WADDICOR	7.5	4.14	0.85	6.22	3.5		.6	4	0	FC37
418	9-15	1055 / 1105	"	6.0	2.60	1.04	6.20	2.7		.6	5	0	"
419	9-22	1036 / 1046	"	5.0	1.88	1.70	6.17	3.2		.6	5	0	"
420	9-29	1052 / 1100	"	11.0	11.8	0.44	6.20	5.2		.6	6	0	FC19

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F265-R

Daily discharge, in second-feet of DOMINGUEZ CHANNEL at Carson Boulevard, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.2	5.6	5.3	9.3	5.6	8.3	7.9	4.6	6.2	d 6.4	5.6	5.9
2	6.2	5.3	4.9	8.3	5.6	7.6	8.6	5.3	d 6.6	6.9	4.9	5.9
3	5.9	5.9	7.2	7.9	6.2	7.2	9.7	6.9	6.6	5.9	5.9	6.6
4	4.9	7.2	7.8	7.6	5.6	5.9	7.9	a 7.2	6.6	5.3	d 6.0	6.9
5	5.3	6.6	19	7.2	12	6.6	8.3	a 7.6	6.6	5.3	6.2	4.0
6	5.6	6.6	10	6.6	11	5.9	10	7.9	6.6	4.6	6.6	3.5
7	5.6	6.9	9.0	6.2	25	5.9	9.3	7.6	6.6	5.3	6.9	2.4
8	5.9	5.9	8.6	6.2	20	6.6	9.0	6.9	6.6	5.3	6.2	1.4
9	6.2	5.3	9.0	8.6	15	7.6	9.0	7.2	d 6.6	5.3	6.2	1.8
10	6.9	5.9	9.7	7.9	11	7.9	8.3	7.2	5.6	5.6	6.6	2.4
11	6.6	6.6	9.7	6.2	9.0	8.3	6.9	7.2	6.2	6.6	6.2	2.9
12	6.6	5.9	9.0	6.6	7.6	9.7	6.6	7.6	5.3	7.2	5.9	3.2
13	6.6	5.6	8.6	6.9	7.2	9.7	6.9	7.2	5.6	7.9	5.3	3.5
14	6.6	5.9	7.9	7.2	6.6	9.0	6.6	6.9	6.6	7.9	5.3	3.5
15	6.6	5.6	7.2	7.9	6.6	11	6.2	6.9	8.3	9.3	4.6	d 3.5
16	6.9	5.6	7.6	8.3	6.6	17	5.6	5.4	d 7.4	8.6	4.6	d 3.5
17	7.2	6.6	6.6	7.6	6.2	21	5.6	6.9	6.6	7.2	4.9	3.5
18	6.2	7.2	7.2	6.6	5.9	32	5.3	6.9	7.9	5.9	5.3	3.8
19	5.6	7.6	6.9	6.2	6.9	28	5.9	6.2	7.9	5.9	5.6	3.8
20	6.6	7.9	6.6	6.9	6.9	20	7.2	6.6	6.9	6.2	5.9	3.5
21	7.2	6.6	5.6	6.6	6.9	17	7.2	7.2	7.6	5.9	6.2	3.5
22	7.2	5.9	5.6	7.2	6.6	16	7.9	7.6	8.3	5.6	5.3	3.5
23	6.9	4.9	6.6	7.2	7.2	14	8.3	6.2	8.3	5.9	5.3	3.2
24	6.2	5.6	5.9	6.6	7.6	18	9.3	5.9	7.6	4.6	5.6	3.5
25	5.6	6.2	5.6	5.6	9.0	18	10	7.6	7.2	4.6	5.3	3.2
26	5.3	7.2	4.9	6.2	9.0	29	9.7	7.6	6.9	4.6	5.3	2.6
27	5.9	4.9	4.9	6.9	8.3	21	10	7.6	7.2	4.9	5.6	2.6
28	6.9	5.9	5.6	6.2	7.6	15	12	6.2	6.3	4.6	5.6	2.4
29	6.9	6.2	6.6	6.2	6.6	12	10	5.9	6.6	4.9	5.6	2.4
30	6.6	5.6	7.9	6.2		10	7.6	5.6	5.9	4.9	5.6	2.1
31	5.9		8.3	5.9		9.3		5.6		5.3	5.6	
	194.8	184.7	235.3	217.0	255.3	414.5	242.8	209.2	205.2	184.4	175.7	104.5
MEAN	6.28	6.16	7.59	7.00	8.80	13.4	8.09	6.75	6.84	5.95	5.67	3.48
ACRE-FEET	386.	366.	467.	430.	506.	822.	482.	415.	407.	366.	348.	207.

Remarks:

YEAR OR PERIOD MEAN 7.17
ACRE-FEET 5,200.

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

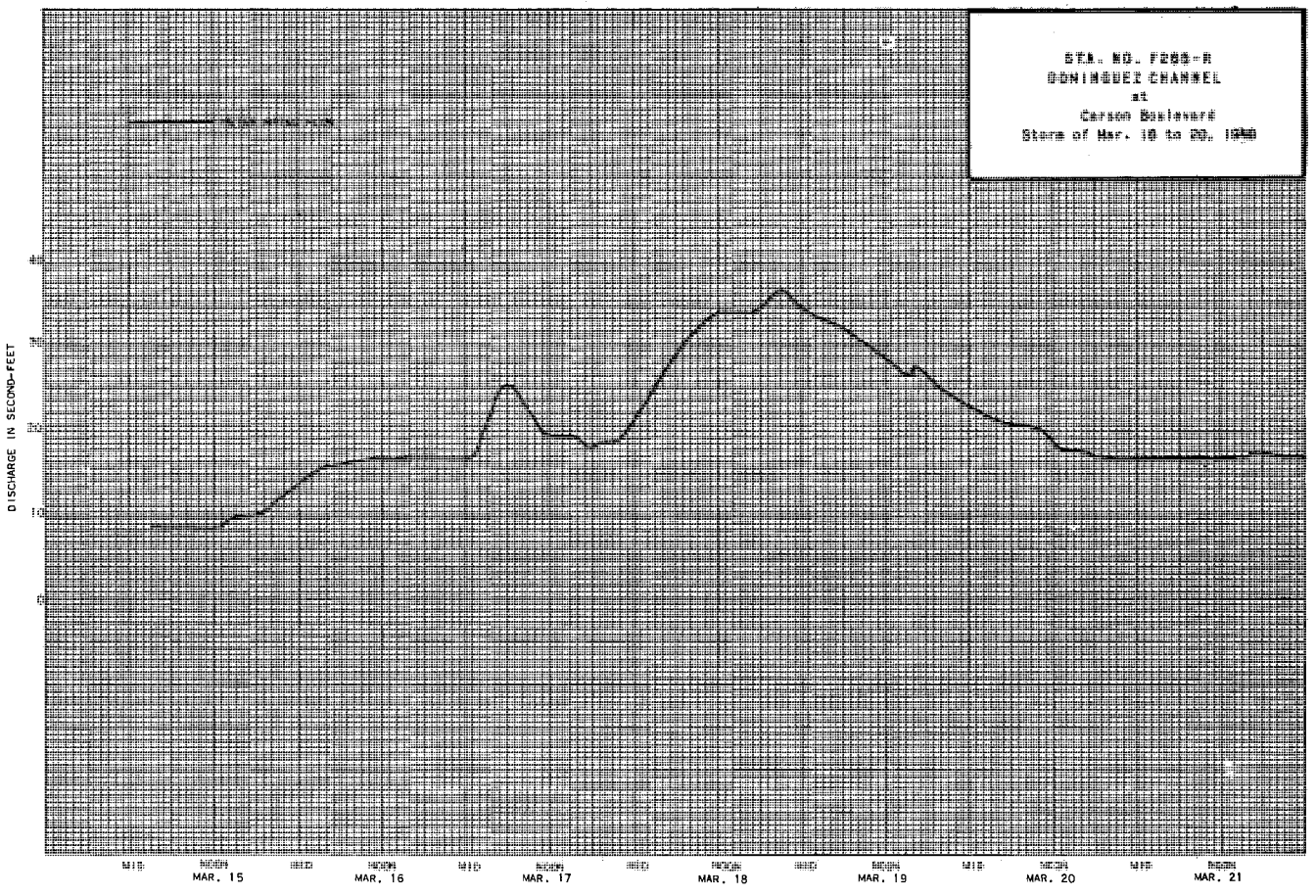
Sta. No. F265-R

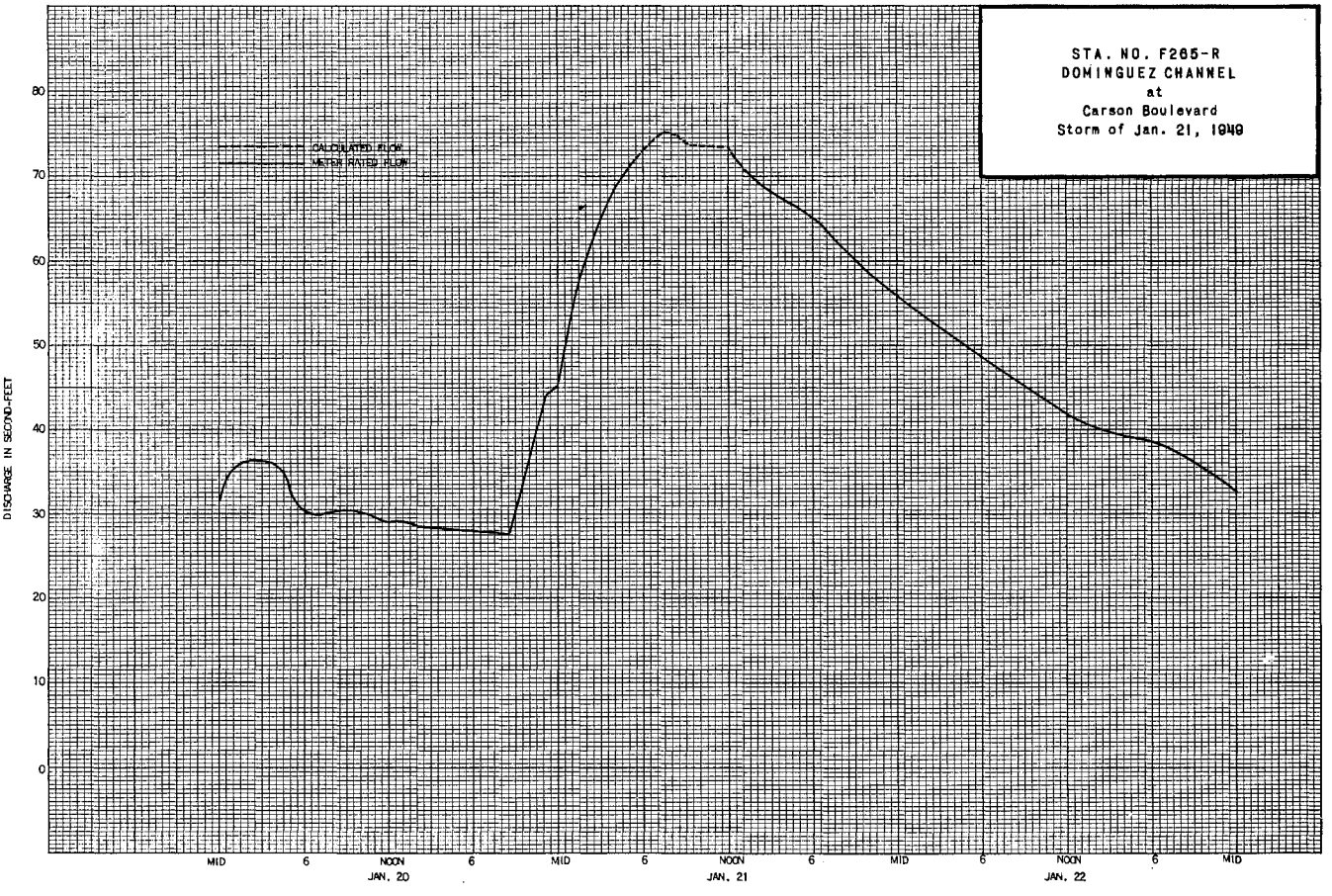
Daily discharge, in second-feet of DOMINGUEZ CHANNEL at Carson Boulevard, for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.8	5.3	a 5.8	24	7.9	6.6	4.9	4.3	4.6	5.6	5.3	3.2
2	1.8	5.6	5.3	18	7.6	7.2	4.6	4.3	4.3	5.3	5.6	3.5
3	1.8	5.9	5.3	14	7.6	6.6	4.3	4.0	4.3	4.6	6.6	2.9
4	1.8	6.2	4.6	12	7.2	6.6	4.6	4.3	4.3	4.6	5.9	2.9
5	2.1	5.9	4.3	9.7	9.3	8.3	5.3	3.5	3.8	5.3	5.6	2.9
6	3.6	5.9	5.6	7.6	12	19	4.9	2.9	3.8	5.3	5.3	3.2
7	4.0	6.2	4.6	7.9	21	20	4.9	2.9	4.3	4.3	4.6	3.7
8	3.8	6.6	4.9	a 7.4	46	15	5.6	4.0	4.6	4.3	4.6	4.1
9	3.5	5.9	5.3	a 7.0	42	12	4.9	4.3	3.8	4.0	4.6	4.0
10	3.5	4.3	4.3	a 7.2	22	10	4.0	4.6	3.8	4.0	4.3	4.0
11	3.8	4.6	4.6	14	16	16	4.3	4.6	3.8	4.0	4.0	4.0
12	4.0	4.6	4.6	22	12	27	4.6	4.6	3.5	4.6	4.0	3.5
13	4.3	5.3	4.9	44	9.7	27	4.9	4.3	3.8	4.9	4.3	3.5
14	4.3	5.3	5.3	56	9.7	20	4.3	5.3	4.6	4.9	4.3	3.8
15	4.6	5.6	a 5.7	40	8.6	14	4.3	4.0	4.9	4.3	4.3	3.5
16	4.6	5.9	6.1	a 34	7.9	9.3	4.6	4.6	5.3	4.0	5.3	4.0
17	4.9	5.6	25	a 27	6.6	5.9	4.9	5.3	4.9	4.3	5.6	4.0
18	4.9	5.6	14	21	6.2	5.6	4.6	7.2	4.3	4.0	6.2	4.3
19	4.9	4.9	14	18	5.6	5.3	5.9	9.7	4.0	4.0	4.9	4.0
20	4.6	4.6	21	32	4.9	5.3	4.0	7.9	4.3	3.8	4.6	4.3
21	4.6	5.6	20	66	4.3	4.9	4.3	7.6	4.3	4.3	4.3	4.3
22	4.6	5.9	18	43	4.0	5.9	3.8	7.2	4.0	4.3	4.3	3.8
23	4.9	5.9	16	28	4.3	6.2	4.0	7.9	4.0	3.8	4.9	3.8
24	5.3	6.2	14	19	3.8	8.0	3.5	9.0	4.9	3.8	5.3	3.8
25	5.3	7.6	14	12	4.9	7.2	4.6	7.9	4.6	3.8	4.6	4.3
26	5.6	7.2	14	11	4.0	6.9	4.9	5.3	4.3	4.3	4.6	4.6
27	5.6	6.2	28	9.0	5.6	6.6	5.3	4.3	5.3	4.3	4.6	4.9
28	5.6	7.6	49	9.0	5.3	6.6	4.9	5.3	5.6	4.6	3.5	4.9
29	4.3	a 7.0	48	8.6		6.2	4.9	4.6	5.6	4.3	3.5	5.3
30	4.0	a 6.4	37	7.9		5.6	4.6	4.0	5.3	4.9	3.5	5.9
31	4.6		29	7.9		5.3		4.0		4.6	3.5	
	127.0	175.4	442.2	644.2	306.0	316.1	139.2	163.7	132.9	137.1	146.5	118.9
MEAN	4.10	5.85	14.3	20.8	10.9	10.2	4.64	5.28	4.43	4.42	4.73	3.96
ACRE-FEET	252.	348.	877.	1280.	607.	627.	276.	325.	264.	272.	291.	236.

Remarks:

YEAR OR PERIOD MEAN 7.81
ACRE-FEET 5660.


STA. NO. F265-R
DOMINGUEZ CHANNEL
at
Carson Boulevard
Storm of Mar. 16 to 22, 1949
DISCHARGE IN SECOND-FEET
MAR. 15
MAR. 16
MAR. 17
MAR. 18
MAR. 19
MAR. 20
MAR. 21


STA. NO. F265-R
DOMINGUEZ CHANNEL
at
Carson Boulevard
Storm of Jan. 21, 1949
CALCULATED FLOW
METER RATED FLOW
DISCHARGE IN SECOND-FEET
0
10
20
30
40
50
60
70
80
MID
6
NOON
6
MID
6
NOON
6
MID
6
NOON
6
MID
JAN. 20
JAN. 21
JAN. 22

STATION F53-R

DUME CREEK at Roosevelt Highway

LOCATION: WATER-STAGE RECORDER, LAT. 34°01'02", LONG. 118°49'00", ON THE DOWNSTREAM SIDE OF ROOSEVELT HIGHWAY BRIDGE NEAR DUME POINT ABOUT 0.2 MILE FROM PACIFIC OCEAN, 22 MILES WEST OF SANTA MONICA. ELEVATION OF ZERO GAGE HEIGHT, 10.01 FEET.

DRAINAGE AREA: 8.8 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - SAND AND GRAVEL. CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM HIGHWAY BRIDGE.

RECORDER: INSTALLED JANUARY 15, 1930. REMOVED NOVEMBER 26, 1937 DUE TO CONSTRUCTION OF NEW BRIDGE. REINSTALLED NOVEMBER 3, 1938, OVER A 21-INCH DIAMETER GALVANIZED IRON PIPE STILLING WELL. A STEVENS, TYPE A, CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1945 TO SEPTEMBER 30, 1949.

REGULATION: NONE.

DIVERSIONS: NONE

RECORDS AVAILABLE: JANUARY 15, 1930 TO NOVEMBER 26, 1937. NOVEMBER 3, 1938 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:

1947-1948
NO FLOW FOR THE ENTIRE YEAR.

1948-1949
NO FLOW FOR THE ENTIRE YEAR.

1930-1949
MAXIMUM DISCHARGE NOT DETERMINED, MARCH 2, 1938.
MAXIMUM DISCHARGE OF RECORD, 6,800 SECOND-FEET, JANUARY 24, 1941.
MINIMUM NO FLOW AT TIMES EACH YEAR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

STATION U2-R

EATON CREEK above Mouth of Canyon

LOCATION: WATER-STAGE RECORDER AND BROAD-CRESTED WEIR, LAT. 34°11'40", LONG. 118°06'15", IN S.E. 1/4 SEC. 2, T. 1 N., R 12 W., AT MOUTH OF CANYON JUST UPSTREAM FROM BRIDGE ON OLD MOUNT WILSON TOLL ROAD, AND 4 MILES NORTHEAST OF PASADENA. ALTITUDE OF GAGE ABOUT 1,230 FEET.

DRAINAGE AREA: 6.5 SQUARE MILES.

RECORDS AVAILABLE: MARCH 1918 TO SEPTEMBER 30, 1949.

AVERAGE DISCHARGE: 30 YEARS, 2.68 SECOND-FEET. AVERAGE COMBINED DISCHARGE OF CREEK AND DIVERSION, 30 YEARS, 4.01 SECOND-FEET, 31 YEARS, 2.60 SECOND-FEET, AVERAGE COMBINED DISCHARGE OF CREEK AND DIVERSION, 31 YEARS, 3.91 SECOND-FEET.

EXTREMES:

1947-1948
MAXIMUM DISCHARGE 42 SECOND-FEET, APRIL 20. (GAGE HEIGHT 1.10 FEET).
NO FLOW MOST OF YEAR.

1948-1949
MAXIMUM DISCHARGE 18 SECOND-FEET, JANUARY 20. (GAGE HEIGHT 0.75 FEET).
NO FLOW MOST OF YEAR.

1918-1949
MAXIMUM DISCHARGE 2,400 SECOND-FEET, MARCH 2, 1938, FROM RECORD OF INFLOW TO EATON FLOOD CONTROL RESERVOIR. NO FLOW FOR SOME PERIODS IN EACH YEAR.

REMARKS: RECORDS GOOD BELOW 70 SECOND-FEET AND FAIR ABOVE. RECORDS DO NOT INCLUDE WATER DIVERTED ABOVE STATION BY CITY OF PASADENA.

COOPERATION: RECORDS FURNISHED BY THE UNITED STATES GEOLOGICAL SURVEY.

DISCHARGE MEASUREMENTS OF EATON CREEK

~~AT~~ NEAR above Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
441	12-5		U.S.G.S.	2.0	0.84	1.35	0.10	1.13		.6	8	0	
442	2-5		"	3.0	0.80	3.28	0.20	2.62		.5	7	+.02	
443	3-25		"	13.0	5.4	.63	0.24	3.42		.5 .6	13	0	

DISCHARGE MEASUREMENTS OF EATON CREEK

~~AT~~ NEAR above Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
444	1-20		U.S.G.S.	14.3	6.0	2.67	0.70	16.0		.6	15	0	

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U2-R

Daily discharge, in second-feet of EATON CREEK above Mouth of Canyon, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	1.2	0	1.9	0	0	0	0	0	0	0
6	0	0	1.0	0	1.2	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	3.5	0	0	0	0	0	0
25	0	0	0	0	0	1.8	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0.7	0	0	0	0	0
29	0	0	0	0	0	0	13	0	0	0	0	0
30	0	0	0	0		0	1.4	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	2.2	0	3.1	5.3	15.1	0	0	0	0	0
MEAN	0	0	0.07	0	0.11	0.17	0.50	0	0	0	0	0
ACRE-FEET	0	0	4.4	0	6.1	11	30	0	0	0	0	0

Remarks:

YEAR MEAN 0.07
OR
PERIOD ACRE-FEET 52.

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U2-R

Daily discharge, in second-feet of Eaton Creek above Mouth of Canyon, for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0.2	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0.6	0.2	0	0	0	0	0	0
12	0	0	0	0	0.7	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	9.1	0	0	0	0	0	0	0	0
21	0	0	0	2.3	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	1.3	0	0	0	0	0	0	0
27	0	0	0	0	3.1	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	0	11.4	5.7	0.4	0	0	0	0	0	0
MEAN	0	0	0	0.37	0.20	0.01	0	0	0	0	0	0
ACRE-FEET	0	0	0	23.	11.	0.8	0	0	0	0	0	0

Remarks:

YEAR MEAN 0.05
OR
PERIOD ACRE-FEET 35.

STATION F271-R
EATON WASH below Eaton Wash Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°10'05", LONG. 118°05'28", ON THE RIGHT (WEST) BANK OF THE CONCRETE OUTLET CHANNEL 190 FEET BELOW THE BEGINNING OF THE OPEN SECTION AT THE BASE OF EATON WASH DAM. ELEVATION OF GAGE ABOUT 840 FEET.

DRAINAGE AREA: 9.5 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - RECTANGULAR, CONCRETE 12 FEET DEEP AND 26 FEET WIDE WITH 0.5 FOOT FILLETS. CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM FOOTBRIDGE AT GAGE.

RECORDER: INSTALLED OCTOBER 10, 1940 OVER A 4 FT. X 4 FT. CONCRETE STILLING WELL. AN H.C.F. RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: FLOW REGULATED BY EATON WASH DAM.

DIVERSIONS: THE PASADENA WATER DEPARTMENT DIVERTS FLOW 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, 1949.

EXTREMES OF DISCHARGE:

1947-1948
MAXIMUM 9.0 SECOND-FEET, DECEMBER 4 AND 5.
MINIMUM NO FLOW MOST OF YEAR.

1948-1949
MAXIMUM 0.4 SECOND-FEET, DECEMBER 17.
MINIMUM NO FLOW MOST OF YEAR.

1940-1949
MAXIMUM 1,080 SECOND-FEET, JANUARY 23, 1943.
MINIMUM NO FLOW MOST OF EACH YEAR.

ACCURACY: FAIR. SEQUENCE OF GATES OPERATED AT EATON WASH DEBRIS DAM AFFECTS GAGE HEIGHT DISCHARGE RELATION.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F271-R

Daily discharge, in second-feet of EATON WASH below Eaton Wash Dam, for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0.5	0	0	0	0	0	0	0	0	0
5	0	0	1.7	0	0.3	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	.0	0	0	0	0	0	0	0
24	0	0	0	0	0	0.3	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0.	0	0	0
31	0		0	0		0		0		0	0	
	0	0	2.2	0	0.3	0.3	0	0	0	0	0	0
MEAN	0	0	0.07	0	0.01	0.01	0.	0	0	0	0	0
ACRE-FEET	0	0	4.4	0	0.6	0.6	0	0	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN .008
ACRE-FEET 5.6

F. C. Dist. Form 55 4-48

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F271-R

Daily discharge, in second-feet of EATON WASH below Eaton Wash Dam, for the year ending September 30, 19 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0.1	0	0	0	0	0	0	0	0	0
18	0	0	0.3	0	0	0	0	0	0	0	0	0
19	0	0	0.2	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	0.6	0	0	0	0	0	0	0	0	0
MEAN	0	0	0.019	0	0	0	0	0	0	0	0	0
ACRE-FEET	0	0	1.2	0	0	0	0	0	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN .002
ACRE-FEET 1.2

STATION F104-R
EATON WASH at Ellis Lane

LOCATION: WATER-STAGE RECORDER, LAT. 34°05'08", LONG. 118°03'21", ON THE LEFT (NORTH) BANK, TEN FEET UPSTREAM OF THE ELLIS LANE BRIDGE (FORMERLY SUNSET AVENUE) ABOUT ONE MILE NORTHWEST OF EL MONTE. ELEVATION OF ZERO GAGE HEIGHT, 291.29 FEET.

DRAINAGE AREA: 18.4 SQUARE MILES.

CHANNEL AND CONTROL: SAND AND GRAVEL. CONTROL FORMED BY CONCRETE SEWER LINE CROSSING BELOW STATION.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM FOOTBRIDGE ON UPSTREAM SIDE OF HIGHWAY BRIDGE.

RECORDER: INSTALLED OCTOBER 1, 1930. REMOVED DECEMBER 1930 DUE TO BRIDGE CONSTRUCTION. REINSTALLED NOVEMBER 10, 1931, MOVED DECEMBER 11, 1945 TO NORTH BANK 10 FEET UPSTREAM FROM BRIDGE OVER AN 18-INCH CORRUGATED IRON PIPE STILLING WELL. AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: FLOW PARTIALLY REGULATED BY EATON WASH DAM.

DIVERSIONS: THE PASADENA WATER DEPARTMENT DIVERTS SOME WATER JUST ABOVE THE MOUTH OF EATON CANYON.

RECORDS AVAILABLE: OCTOBER 1, 1930 TO SEPTEMBER 30, 1949. FROM DECEMBER 28, 1930 TO NOVEMBER 10, 1931. THE RECORDER WAS LOCATED AT STATION F104B-R AT BROADWAY.

EXTREMES OF DISCHARGE:
1947-1948
MAXIMUM 390 SECOND-FEET, MARCH 24.
MINIMUM NO FLOW MOST OF YEAR.
1948-1949
MAXIMUM 54 SECOND-FEET, MARCH 11.
MINIMUM NO FLOW MOST OF YEAR.
1930-1949
MAXIMUM 2,280 SECOND-FEET, JANUARY 23, 1943.
MINIMUM NO FLOW MOST OF EACH YEAR.

ACCURACY: FAIR FOR LOW FLOW. GOOD FOR HIGH FLOW.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

DISCHARGE MEASUREMENTS OF EATON WASH

AT NEAR Ellis Lane DURING THE YEAR ENDING SEPTEMBER 30, 1948

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
295	2-5	1435 / 1445	WADDICOR - PAYNE	33.5	10.6	2.86	1.90	30.3		.6	10	-.03	FC37
296	3-24	1755 / 1805	" "	TWO CHANNELS			1.69	6.5		.6	9	0	"

DISCHARGE MEASUREMENTS OF EATON WASH

AT NEAR Ellis Lane DURING THE YEAR ENDING SEPTEMBER 30, 1948

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
297	1-20	1047 / 1057	WADDICOR - PAYNE	10.0	2.92	1.23	1.73	3.6		.6	5	0	FC37
298	2-7	1100 / 1120	" "	TWO CHANNELS			1.72	7.5		.5	9	0	"
299	3-11	0237 / 0247	" "	28.0	10.0	3.26	1.85	32.8		.5	7	+.04	"
300	4-7	1515 / 1518	WADDICOR - LANG	2.7	0.39	0.97	1.51	0.32		.5	4	0	"

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F10U-R

Daily discharge, in second-feet of EATON WASH at Ellis Lane for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0	0.5	0	0	0	0	0	0			
2	0.1	0.4	0	0	0	0	0	0	0			
3	0.1	0	0	0	0	0	+	0	0			
4	0	0	1.3	0	0	0	0	0	0			
5	0	0	1.8	0	11	0	0	0.3	0			Clock stopped
6	+	0.2	0.3	0	0.3	0	0	0.4	0			
7	0.1	0	0	0	0	0	0	0.3	+			
8	0.1	0	0	0	0	0	0	+	+			
9	0.6	0.1	0	0	0	0	0	0	+			
10	+	0	0	0	0	0	0.2	+	+	Clock stopped for summer	Est. max. less than 0.05 c.f.s. Est. min. 0 flow	
11	+	0	0	0	0	0	0	0.4	0.6			
12	+	0.1	0	0	0	0	0	0.8	0.3			Clock stopped
13	0	+	0	0	0	0	0	1.2	0			
14	0	0	0	0	0	6.2	0	0.4	+			
15	0	0	0	0	0	0.6	0	+	+			+
16	0	0	0	0	0	0	0	0	+			
17	0.2	0	0	0	0	+	0	0				
18	0	0	0	0	0	5.9	0	0				
19	0	+	0	0	0	0	0	0				
20	0.3	0.2	0	0	0	+	0	0				
21	0	0	0	0	0	0	0	0	Clock stopped for summer			
22	0	0.2	0	0	0	0	0	0				
23	0	0	0	0	0	0	0	0				
24	0	0	0	0	0	2.3	0	0				
25	0	0.2	0	0	0	+	0	0				
26	0.1	0.1	0	0	0	0	0	0				
27	+	0	0	0	0	0	0	0				
28	0	0	0	0	0	0	6.0	0				
29	0	0	0	0	0	0	3.2	0				
30	0	0	0	0		0	0	0				
31	+		0	0		0		0				
	1.7	1.5	3.1.8	0	11.3	35.7	9.4	3.8	0.9	+	+	+
MEAN	0.05	0.05	1.03	0	0.39	1.15	0.31	0.12	0.03			
ACRE-FEET	3.4	3.0	63.	0	22.	71.	19.	7.5	1.8	+	+	+

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

YEAR OR PERIOD MEAN 0.26
ACRE-FEET 191.

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

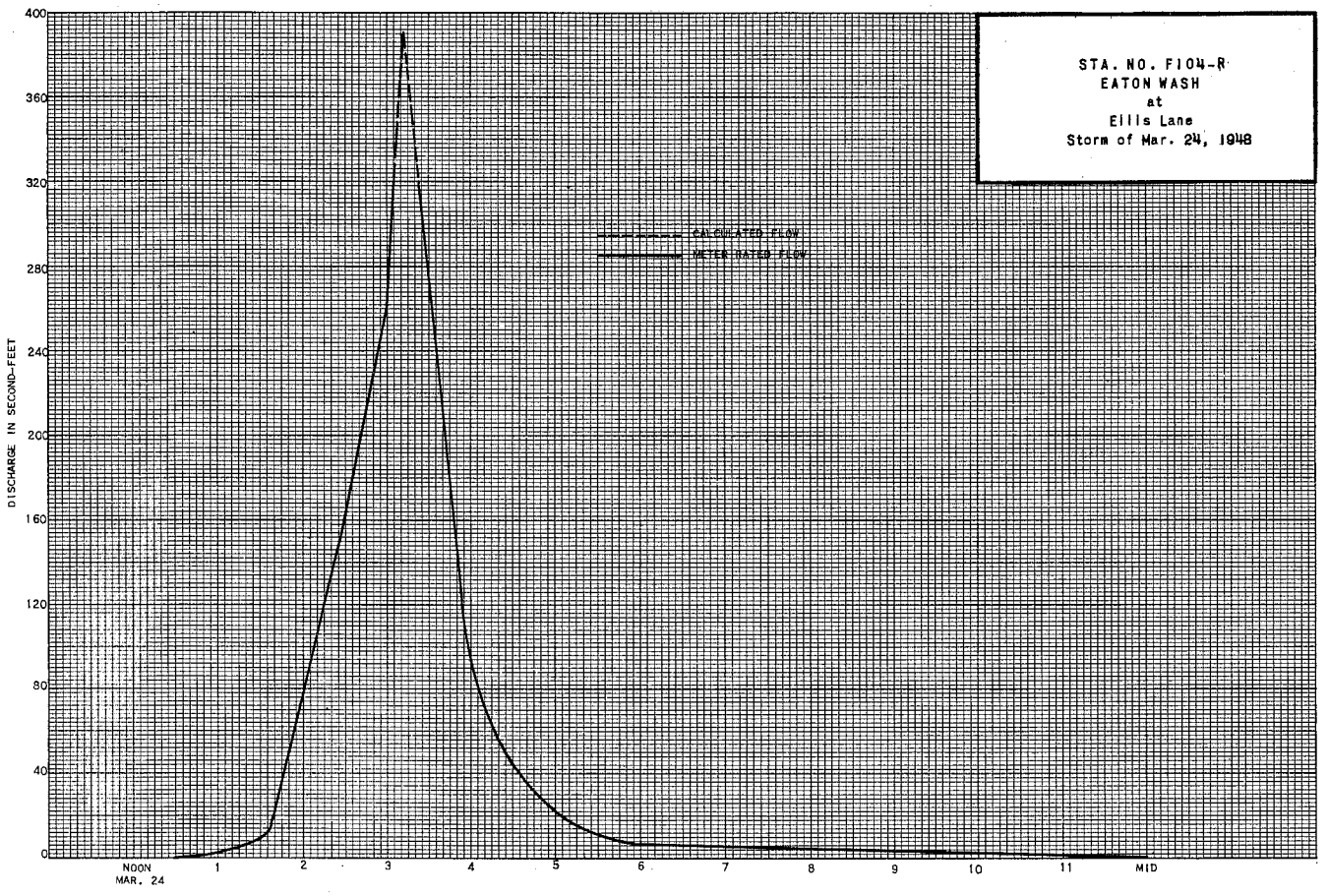
Sta. No. F10U-R

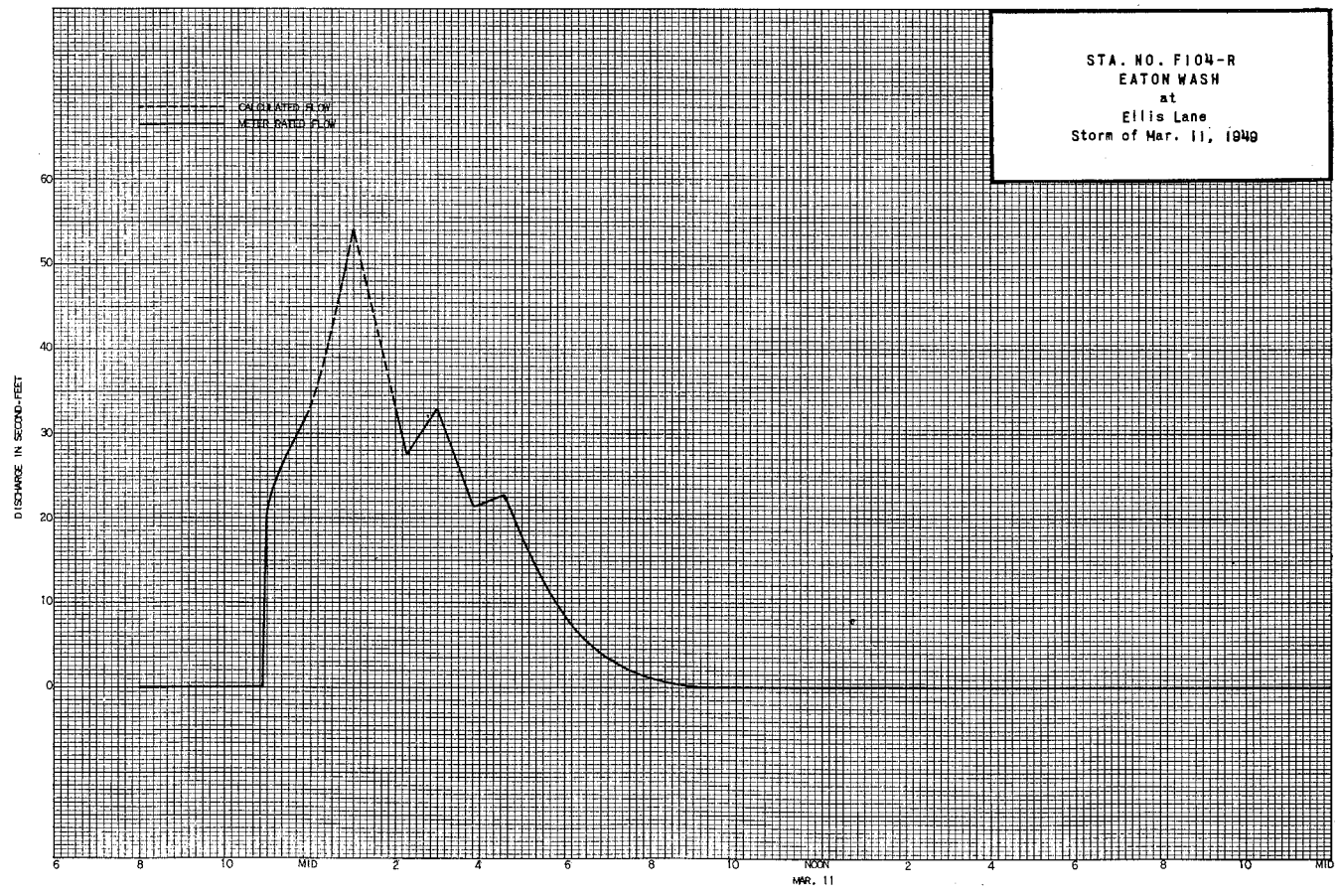
Daily discharge, in second-feet of EATON WASH at Ellis Lane for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	2.4	0	0	0	0	0	0
5	0	0	0	0	0		0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	1.4	0	+	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	1.2	0	0	0	0	0	0
11	0	0	0	0	0.7	8.0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0.2	0	0.6	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	5.4	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	4.0	0	0	0	0	0	0	0	0
20	0	0	0	7.8	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	2.0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	2.3	0	4.3	0	0	0	0	0	0	0
27	0	0	2.7	0	+	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0.1		0	0		0		0		0	0	
	0.1	0	10.4	14.0	6.4	12.2	+	0	0	0	0	0
MEAN	+	0	0.34	0.45	0.23	0.39	+	0	0	0	0	0
ACRE-FEET	0.2	0	21.	28.	13.	24.	+	0	0	0	0	0

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

YEAR OR PERIOD MEAN 0.12
ACRE-FEET 86.


STA. NO. F104-R
EATON WASH
at
Ellis Lane
Storm of Mar. 24, 1948
CALCULATED FLOW
METER RATED FLOW
DISCHARGE IN SECOND-FEET
0
40
80
120
160
200
240
280
320
360
400
NOON
MAR. 24
1
2
3
4
5
6
7
8
9
10
11
MID


STA. NO. F104-R
EATON WASH
at
Ellis Lane
Storm of Mar. 11, 1949
CALCULATED FLOW
METER RATED FLOW
DISCHARGE IN SECOND-FEET
0
10
20
30
40
50
60
6
8
10
MID
2
4
6
8
10
NOON
MAR. 11
2
4
6
8
10
MID

STATION U7-R
FISH CREEK above Mouth of Canyon

LOCATION: WATER-STAGE RECORDER AND BROAD-CRESTED WEIR CONTROL, LAT. 34°10'00" LONG. 117°55'25", IN SW 1/4 SW 1/4 SEC. 15, T. 1 N., R. 10 W., 0.8 MILE UPSTREAM FROM MOUTH OF CANYON AND 3 MILES NORTHEAST OF DUARTE. ALTITUDE OF GAGE ABOUT 1,000 FEET.

DRAINAGE AREA: 6.5 SQUARE MILES.

RECORDS AVAILABLE: JULY TO SEPTEMBER 1916, JULY 1917 TO SEPTEMBER 30, 1949.

AVERAGE DISCHARGE: 31 YEARS (1917-1948) 4.45 SECOND-FEET.
32 " " 1949 4.34 " "

EXTREMES:

1947-1948
MAXIMUM DISCHARGE 28 SECOND-FEET, APRIL 28. (GAGE HEIGHT 1.42 FEET).
MINIMUM DAILY DISCHARGE 0.1 SECOND-FOOT SEVERAL PERIODS IN JULY, AUGUST AND SEPTEMBER.

1948-1949
MAXIMUM DISCHARGE 35 SECOND-FEET, JANUARY 20. (GAGE HEIGHT 1.28 FEET).
MINIMUM DAILY DISCHARGE LESS THAN 0.01 SECOND-FOOT SOME DAYS IN JULY, AUGUST AND SEPTEMBER.

1916-1949
MAXIMUM DISCHARGE ABOUT 2,180 SECOND-FEET APRIL 4, 1925. NO FLOW DURING PERIODS IN 1919-1921, 1924, 1929-1930.

REMARKS: RECORDS GOOD. NO DIVERSIONS OR REGULATION ABOVE STATION.

COOPERATION: RECORDS FURNISHED BY THE UNITED STATES GEOLOGICAL SURVEY WITH THE EXCEPTION OF 18 MEASUREMENTS FURNISHED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

DISCHARGE MEASUREMENTS OF FISH CREEK

~~AT~~ NEAR above Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1784	10-2	1430 / 1435	MOON	1.4	0.40	0.58	0.04	0.23		.5	3	0	FC22
1785	10-6		U.S.G.S.	1.5	0.34	0.35	0.01	0.12		.5	6	0	
1786	10-21		"	1.5	0.45	0.87	0.06	0.39		.5	6	0	
1787	10-29		"	1.5	0.48	0.85	0.07	0.41		.5	6	0	
1788	10-30	1345 / 1350	MOON	1.4	0.48	1.00	0.09	0.48		.5	3	0	FC22
1789	11-3		U.S.G.S.	1.5	0.48	0.94	0.09	0.45		.5	6	0	
1790	11-12		"	1.5	0.48	0.77	0.06	0.37		.5	6	0	
1791	11-21		"	1.5	0.55	1.05	0.10	0.58		.5	6	0	
1792	11-28	1115 / 1120	MOON	1.4	0.47	0.96	0.08	0.45		.5	3	0	FC22
1793	12-1		U.S.G.S.	1.4	0.54	1.19	0.11	0.64		.6	6	0	
1794	12-10		"	1.7	0.98	0.77	0.10	0.75		.6	7	0	
1795	12-15		"	1.0	0.50	1.38	0.09	0.69		.6	4	0	
1796	12-23		"	1.0	0.52	1.56	0.10	0.81		.6	4	0	
1797	12-26	1114 / 1116	MOON	1.0	0.54	1.29	0.11	0.70		.5	2	0	FC22
1798	12-30		U.S.G.S.	1.0	0.49	1.14	0.09	0.56		.6	4	0	
1799	1-8		"	1.0	0.50	1.46	0.11	0.73		.6	4	0	
1800	1-16		"	1.0	0.48	1.31	0.10	0.63		.6	4	0	
1801	1-21		"	1.0	0.50	1.38	0.10	0.69		.6	2	0	
1802	1-26		"	1.7	0.74	0.89	0.11	0.66		.6	4	0	
1803	1-28	1450 / 1455	MOON	1.7	0.71	0.94	0.10	0.67		.5	3	0	FC22
1804	2-2		U.S.G.S.	1.8	0.69	0.90	0.11	0.62		.6	7	0	
1805	2-6		"	10.9	7.8	0.60	0.48	4.68		.6	16	0	
1806	2-6	1428 / 1436	MOON - MIRANDA	2.4	1.06	3.77	0.44	4.0		.5	5	0	FC22
1807	2-10		U.S.G.S.	2.4	1.12	0.98	0.17	1.10		.6	6	0	
1808	2-18		"	2.3	0.94	0.77	0.14	0.72		.6	9	0	
1809	2-24		"	2.3	0.94	0.68	0.15	0.64		.6	5	0	
1810	2-25	1450 / 1457	MOON	2.3	0.96	0.77	0.15	0.74		.5	5	0	FC22
1811	3-1		U.S.G.S.	2.2	0.98	0.82	0.19	0.80		.6	9	0	
1812	3-8		"	2.6	1.31	0.69	0.22	0.91		.6	5	0	
1813	3-17		"	2.2	1.91	2.00	0.53	3.83		.6	9	0	
1814	3-22		"	2.4	1.36	1.02	0.35	1.39		.6	6	0	
1815	3-25		"	6.2	3.86	1.06	0.58	4.13		.6	10	0	
1816	3-25		"	11.8	5.20	0.72	0.58	3.75		.6	13	0	
1817	3-31	1420 / 1430	MOON	2.4	1.41	1.06	0.43	1.5		.5	5	0	FC22
1818	4-1		U.S.G.S.	2.1	1.47	0.75	0.43	1.10		.6	8	0	
1819	4-5		"	2.2	1.69	1.61	0.61	2.72		.6	4	0	
1820	4-13		"	2.2	1.71	1.12	0.55	1.91		.6	9	0	
1821	4-21		"	2.2	1.36	0.82	0.51	1.12		.6	5	0	
1822	4-27		"	2.0	1.19	0.69	0.50	0.82		.6	8	0	
1823	4-28	1450 / 1455	MOON	2.1	1.24	0.70	0.50	0.87		.6	4	0	FC22
1824	5-3		U.S.G.S.	2.0	1.55	1.20	0.27	1.86		.6	8	0	
1825	5-10		"	2.4	1.40	0.85	0.20	1.19		.6	6	0	
1826	5-18		"	2.0	1.26	0.60	0.15	0.75		.6	8	0	
1827	5-25		"	2.4	1.01	0.64	0.16	0.65		.6	6	0	
1828	5-27	1500 / 1505	MOON	2.3	1.11	0.74	0.17	0.82		.5	4	0	FC22
1829	6-1		U.S.G.S.	1.9	1.21	0.64	0.17	0.78		.6	8	0	
1830	6-7		"	2.4	0.95	0.56	0.14	0.53		.6	5	0	
1831	6-18		"	2.0	1.13	0.34	0.08	0.38		.6	6	0	
1832	6-22		"	2.4	0.87	0.46	0.10	0.40		.6	6	0	
1833	7-1	0750 / 0755	STUNDEN	2.0	1.06	0.22	0.04	0.23		.6	4	0	FC36
1834	7-1		U.S.G.S.	1.9	0.96	0.24	0.05	0.23		.6	8	0	
1835	7-6		"	1.5	0.18	0.33	0.00	0.06		.5	3	0	
1836	7-15		"	0.6	0.07	0.29	-.02	0.020		.5	6	0	
1837	7-20		"	0.6	0.07	0.29	-.02	0.02		.5	2	0	
1838	7-29		"	1.0	0.08	0.34	-.02	0.027		.5	5	0	
1839	8-5		"	1.0	0.13	0.15	-.02	0.019		.5	5	0	
1840	8-10		"	0.9	0.08	0.25	-.03	0.02		.5	3	0	
1841	8-20		"	0.4	0.04	0.22	-.05	0.009		.5	3	0	
1842	8-24		"				-.05	0.015		EST.		0	
1843	8-26	1230 / 1232	MOON	0.6	0.03	0.67	-.05	0.02		.5	2	0	FC22
1844	9-1		U.S.G.S.	0.6	0.05	0.22	-.06	0.011		.5	4	0	
1845	9-9		"	0.6	0.07	0.43	-.05	0.03		.5	2	0	
1846	9-16		"	0.45	0.035	0.17	-.06	0.006		.5	4	0	
1847	9-22		"	0.6	0.08	0.63	-.04	0.05		.5	3	0	
1848	9-30	1330 / 1332	MOON	0.5	0.02	0.85	0	0.017		FLOATS		0	

DISCHARGE MEASUREMENTS OF FISH CREEK

~~AT~~ NEAR above Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATINGS	METHOD	MEAS. SEQ. NO.	G. HT. CHANGE TOTAL	METER NO.
1849	10-1		U.S.G.S.	.5	.04	.78	-.05	.031		.5	2	0	
1850	10-6		"	.5	.04	.75	-.04	.03		.5	2	0	
1851	10-13		"	.5	.06	.62	-.05	.037		.5	2	0	
1852	10-18		"	.6	.07	1.00	-.04	.07		.5	3	0	
1853	10-25		"	1.5	.18	.61	-.04	.11		.5	5	0	
1854	11-1		"	1.1	.20	1.10	.00	.22		.5	6	0	
1855	11-9		"	2.0	.57	.39	-.01	.22		.5	5	0	
1856	11-23		"	1.3	.43	.49	+.04	.21		.5 .6	5	0	
1857	12-1		"	1.8	.84	.33	.04	.25		.6	9	0	
1858	12-7		"	1.2	.29	1.48	.06	.43		.5	4	0	
1859	12-15		"	1.8	.91	.46	.05	.42		.6	9	0	
1860	12-21		"	1.8	.96	.62	.09	.60		.6	5	0	
1861	1-4		"	1.8	.95	.64	.09	.61		.6	5	0	
1862	1-19		"	1.8	1.09	.98	.07	1.07		.6	5	0	
1863	1-20		"	13.2	8.6	2.16	.92	18.5		.6	13	-.08	
1864	1-20		"	13.	8.0	2.03	.88	16.2		.6	13	-.02	
1865	2-1		"	5.4	2.45	.48	.13	1.18		.6	27	0	
1866	2-2		"	1.8	1.11	1.14	.12	1.27		.6	5	0	
1867	2-11		"	5.4	2.23	.54	.18	1.21		.6	17	+.01	
1868	2-17		"	1.8	1.16	1.47	.18	1.70		.6	5	0	
1869	2-23	0838 0843	MOON	1.6	.90	1.22	.18	1.1		.6	3	0	FC22
1870	3-1		U.S.G.S.	9.2	4.08	1.03	.46	4.20		.6	22	0	
1871	3-8		"	5.0	3.44	0.85	.50	2.91		.6	10	0	
1872	3-11	1335 1346	HAIG	2.7	1.71	3.57	.73	6.1		.6	6	0	FC42
1873	3-16		U.S.G.S.	4.4	3.04	.92	.47	2.79		.6	22	0	
1874	3-22		"	2.5	1.12	1.78	.49	1.99		.6	5	0	
1875	3-24	1422 1429	MOON	2.4	.97	2.27	.49	2.2		.5	5	0	FC22
1876	4-1		U.S.G.S.	9.0	3.50	.45	.51	1.59		.6	16	0	
1877	4-7		"	2.5	1.35	1.06	.51	1.43		.6	5	0	
1878	4-14		"	9.0	4.07	.23	.48	.92		.6	17	0	
1879	4-27		"	1.6	.92	.93	.25	.86		.6	8	0	
1880	4-27	1519 1525	MOON	1.5	.92	.74	.16	.68		.6	4	0	FC22
1881	5-2		U.S.G.S.	1.6	.96	.67	.15	.64		.6	7	-.02	
1882	5-9		"	1.6	.87	.46	.10	.40		.5 .6	15	0	
1883	5-18		"	13.4	6.02	.42	.30	2.51		.5 .6	20	+.01	
1884	5-23		"	1.6	.84	.86	.16	.72		.6	14	0	
1885	5-25	1410 1415	MOON	1.4	.66	.82	.14	.54		.6	3	0	FC22
1886	6-1		U.S.G.S.	1.6	.83	.69	.14	.57		.6	14	0	
1887	6-6		"	1.35	.61	.35	.09	.21		.5	13	0	
1888	6-14		"	1.5	.71	.41	.09	.29		.5 .6	16	0	
1889	6-22		"	.90	.22	.43	.05	.10		.5	8	0	
1890	7-1		"	1.60	.58	.29	.04	.17		.5	13	0	
1891	7-12		"	.55	.16	.18	-.01	.03		.5	5	0	
1892	7-18		"	.6	.16	.09	-.02	.014		.5	6	0	
1893	7-25		"				-.03	.02		EST.			
1894	8-1		"	0.3	0.07	0.18	-.03	.013		.5	3	0	
1895	8-9		"				-.03	.01		EST.			
1896	8-16		"	0.35	0.076	0.20	-.03	.015		.5	3	0	
1897	8-23		"				-.03	.01		EST.			
1898	9-1		"				-.05	.0002		EST.			
1899	9-7		"				-.06	.01		EST.			
1900	9-14		"				-.08	.0002		EST.			
1901	9-20		"				-.03	.02		EST.			
1902	9-26		"				-.03	.02		EST.			

F. C. Dist. Form 82 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U7-R

Daily discharge, in second-feet of FISH CREEK above Mouth of Canyon, for the year ending September 30, 19 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.4	0.6	0.6	0.6	0.8	1.2	2.3	0.8	0.2	0.02	0.01
2	0.2	0.4	0.6	0.6	0.6	0.8	1.3	2.0	1.1	0.1	0.02	0.01
3	0.2	0.4	0.6	0.6	0.7	0.8	6.6	1.6	0.8	0.1	0.02	0.01
4	0.2	0.4	1.5	0.6	0.7	0.8	5.1	1.2	0.7	0.1	0.02	0.01
5	0.1	0.4	3.7	0.6	7.4	0.8	3.2	1.1	0.7	0.06	0.02	0.01
6	0.1	0.4	1.8	0.7	3.8	0.8	3.2	1.0	0.6	0.06	0.02	0.01
7	0.1	0.4	1.0	0.7	1.6	0.8	2.3	1.0	0.5	0.06	0.02	0.01
8	0.2	0.4	0.8	0.7	1.1	0.8	2.0	1.0	0.5	0.02	0.02	0.01
9	0.2	0.4	0.8	0.7	1.1	0.7	1.7	1.0	0.5	0.02	0.02	0.01
10	0.3	0.4	0.8	0.7	1.1	0.7	3.0	1.0	0.5	0.02	0.02	0.01
11	0.4	0.4	0.8	0.6	0.9	0.7	2.6	1.0	0.5	0.02	0.04	0.01
12	0.4	0.4	0.7	0.6	0.9	0.7	2.2	0.9	0.5	0.02	0.04	0.01
13	0.4	0.4	0.7	0.6	0.8	2.4	1.8	0.8	0.5	0.02	0.04	0.01
14	0.4	0.4	0.7	0.6	0.8	4.6	1.6	0.8	0.5	0.02	0.04	0.01
15	0.4	0.4	0.7	0.6	0.8	3.5	1.2	0.7	0.5	0.02	0.04	0.01
16	0.4	0.6	0.7	0.6	0.8	1.5	1.1	0.7	0.5	0.02	0.02	0.01
17	0.4	0.5	0.6	0.6	0.7	2.6	1.1	0.6	0.5	0.02	0.02	0.01
18	0.4	0.4	0.6	0.6	0.7	1.7	1.0	0.7	0.4	0.02	0.02	0.02
19	0.4	0.5	0.7	0.7	0.7	1.6	1.1	0.8	0.4	0.02	0.02	0.02
20	0.4	0.5	0.7	0.7	0.7	1.7	1.0	0.8	0.4	0.02	0.02	0.02
21	0.4	0.6	0.7	0.7	0.7	1.4	1.0	0.7	0.4	0.02	0.02	0.04
22	0.4	0.6	0.7	0.7	0.7	1.3	1.3	0.7	0.4	0.02	0.02	0.04
23	0.4	0.6	0.8	0.6	0.7	1.2	1.2	0.6	0.4	0.02	0.02	0.04
24	0.3	0.6	0.7	0.6	0.7	6.5	0.8	0.6	0.3	0.02	0.02	0.04
25	0.3	0.5	0.7	0.6	0.7	4.4	0.8	0.7	0.3	0.02	0.02	0.04
26	0.3	0.5	0.7	0.6	0.7	2.5	0.8	0.7	0.3	0.02	0.02	0.04
27	0.3	0.4	0.7	0.6	0.8	2.0	0.8	0.8	0.3	0.02	0.02	0.02
28	0.4	0.4	0.6	0.6	0.9	1.7	3.8	0.8	0.3	0.02	0.02	0.02
29	0.4	0.4	0.7	0.6	0.9	1.5	8.8	0.8	0.3	0.02	0.02	0.02
30	0.4	0.4	0.6	0.6		1.5	3.2	0.8	0.2	0.02	0.02	0.02
31	0.4		0.6	0.6		1.4		0.8		0.02	0.02	
	9.8	13.5	26.6	19.5	33.3	54.2	66.8	29.0	14.6	1.16	0.72	0.55
MEAN	0.32	0.45	0.86	0.63	1.15	1.75	2.23	0.94	0.49	.037	.023	.018
ACRE-FEET	19	27	53	39	66	108	132	58	29	2.3	1.4	1.1

Remarks:

YEAR OR PERIOD MEAN 0.737
ACRE-FEET 536

F. C. Dist. Form 82 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U7-R

Daily discharge, in second-feet of Fish Creek above Mouth of Canyon, for the year ending September 30, 19 49

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.01	0.2	0.3	0.7	1.2	4.2	1.6	0.6	0.5	0.2	0.01	0.01
2	0.01	0.2	0.3	0.7	1.3	3.6	1.6	0.6	0.5	0.1	0.01	0.01
3	0.01	0.2	0.4	0.5	1.4	3.5	1.5	0.6	0.4	0.1	0.01	0.01
4	0.01	0.2	0.8	0.6	1.2	4.7	1.5	0.6	0.2	0.04	0.01	0.01
5	0.01	0.2	0.4	0.6	1.2	6.5	1.5	0.5	0.2	0.04	0.01	0.01
6	0.01	0.2	0.4	0.6	1.1	4.6	1.3	0.4	0.2	0.04	0.01	0.01
7	0.01	0.2	0.4	0.6	1.6	3.6	1.3	0.4	0.2	0.04	0.01	0.01
8	0.01	0.2	0.4	0.6	1.5	2.9	1.2	0.4	0.2	0.04	0.01	0.01
9	0.01	0.2	0.4	0.6	1.3	2.5	1.1	0.4	0.3	0.04	0.01	0.01
10	0.01	0.2	0.4	0.6	1.1	2.3	0.9	0.5	0.2	0.04	0.01	0.01
11	0.04	0.2	0.4	0.6	2.4	6.7	0.8	0.5	0.2	0.03	0.01	0.01
12	0.04	0.2	0.4	0.6	3.6	4.1	0.8	0.5	0.3	0.03	0.01	0.01
13	0.04	0.2	0.4	1.4	2.6	3.6	0.8	0.5	0.3	0.03	0.01	0.01
14	0.04	0.2	0.5	1.7	2.1	3.2	0.8	0.8	0.3	0.03	0.01	0.01
15	0.04	0.2	0.5	1.5	1.8	2.9	1.0	0.9	0.2	0.03	0.01	0.01
16	0.04	0.2	0.5	1.2	1.7	2.7	1.0	0.9	0.2	0.01	0.01	0.01
17	0.04	0.2	2.0	1.1	1.7	2.6	0.9	1.2	0.2	0.01	0.01	0.01
18	0.04	0.2	1.0	1.1	1.6	2.3	0.9	2.1	0.2	0.01	0.01	0.01
19	0.04	0.2	0.7	1.6	1.5	2.7	1.0	2.1	0.2	0.01	0.01	0.01
20	0.04	0.2	0.7	1.8	1.4	2.6	0.9	1.5	0.2	0.01	0.01	0.01
21	0.1	0.2	0.6	4.4	1.3	2.1	0.8	1.1	0.1	0.01	0.01	0.01
22	0.1	0.2	0.8	4.3	1.2	2.0	0.7	0.8	0.1	0.01	0.01	0.01
23	0.1	0.2	0.8	4.1	1.1	2.1	0.7	0.6	0.1	0.01	0.01	0.01
24	0.1	0.2	0.6	2.7	2.8	2.2	0.7	0.5	0.1	0.01	0.01	0.01
25	0.1	0.2	0.6	2.1	4.2	2.1	0.8	0.5	0.1	0.01	0.01	0.01
26	0.1	0.2	0.8	1.7	4.4	2.1	0.8	0.5	0.1	0.01	0.01	0.01
27	0.1	0.2	3.6	1.6	8.2	2.0	0.7	0.5	0.2	0.01	0.01	0.01
28	0.1	0.3	1.2	1.5	5.7	2.0	0.6	0.5	0.3	0.01	0.01	0.01
29	0.2	0.3	0.8	1.3		1.8	0.6	0.6	0.3	0.01	0.01	0.01
30	0.3	0.3	0.7	1.2		1.8	0.6	0.6	0.2	0.01	0.01	0.01
31	0.2		0.7	1.2		1.7		0.5		0.01	0.01	
	2.00	8.3	22.5	61.0	62.2	93.7	29.4	22.7	6.8	0.99	0.31	0.30
MEAN	.065	0.21	0.73	1.97	2.22	3.02	0.98	0.73	0.23	.032	0.01	0.01
ACRE-FEET	4.0	12.	45.	121.	123.	186.	58.	45.	13.	2.0	0.6	0.6

Remarks:

YEAR OR PERIOD MEAN 0.844
ACRE-FEET 610.2

STATION U12-R
HAINES CREEK above Mouth of Canyon

LOCATION: WATER-STAGE RECORDER AND BROAD-CRESTED WEIR, LAT. 34°15'50", LONG. 118°16'15", (N NW 1/4 NW 1/4 SEC. 17, T. N., R. 13 W., HALF A MILE UPSTREAM FROM MOUTH OF CANYON AND 1 1/2 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 30, 1949.

AVERAGE DISCHARGE: 30 YEARS, 0.169 SECOND-FOOT.
31 " 0.164 " "

EXTREMES:
1947-1948
MAXIMUM DISCHARGE, 6.2 SECOND-FEET FEBRUARY 5. (GAGE HEIGHT 1.32 FT.)
MINIMUM DAILY DISCHARGE, NO FLOW IN SEPTEMBER.
1948-1949
MAXIMUM DISCHARGE NOT DETERMINED - VERY SMALL.
MINIMUM DAILY DISCHARGE NO FLOW DURING OCTOBER AND SEPTEMBER.
1917-1934, 1935-1949
MAXIMUM DISCHARGE OF RECORD, 265 SECOND-FEET, MARCH 2, 1938. (GAGE HEIGHT 4.60 FEET).
MINIMUM DISCHARGE NO FLOW AT TIMES DURING MANY YEARS.

REMARKS: RECORDS FAIR. A DEBRIS WAVE (COMMONLY CALLED A MUD FLOW) ATTAINED A GAGE HEIGHT OF APPROXIMATELY 11 FEET JANUARY 1, 1934. (DISCHARGE NOT DETERMINED. DIVERSIONS ABOVE STATION FOR DOMESTIC USE.

DISCHARGE MEASUREMENTS OF HAINES CREEK

~~AT~~ NEAR above Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
536	10-7		U.S.G.S.				1.03	0.001		VOL.			
537	10-20		"				1.03	0.001		VOL.			
538	11-4		"				1.03	0.001		VOL.			
539	11-20		"				1.03	0.003		VOL.			
540	12-3		"				1.04	0.002		VOL.			
541	12-15		"				1.03	0.006		VOL.			
542	12-16		"				1.03	0.005		VOL.			
543	12-30		"				1.04	0.008		VOL.			
544	1-15		"				1.04	0.008		VOL.			
545	1-27		"				1.04	0.008		VOL.			
546	2-11		"				1.04	0.010		VOL.			
547	2-26		"				1.04	0.010		VOL.			
548	3-10		"				1.05	0.008		VOL.			
549	4-7		"				1.04	0.012		VOL.			
550	4-21		"				1.05	0.10		VOL.			
551	5-5		"				1.04	0.008		VOL.			
552	5-19		"				1.04	0.007		VOL.			
553	6-2		"				1.04	0.008		VOL.			
554	6-16		"				1.03	0.004		VOL.			
555	6-29		"				1.03	0.002		VOL.			
556	7-13		"				1.02	0.002		VOL.			
557	8-10		"				1.03	0.0001		VOL.			
558	8-24		"				1.03	0.001		EST.			

DISCHARGE MEASUREMENTS OF HAINES CREEK

~~AT~~ NEAR above Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
559	11-9		U.S.G.S.				1.02	0.001		EST.			
560	12-7		"				1.03	.001		EST.			
561	1-11		"				1.03	.003		VOL.			
562	2-1		"				1.03	.003		"			
563	2-10		"				1.03	.002		"			
564	3-8		"				1.04	.006		"			
565	3-22		"				1.05	.007		"			
566	4-5		"				1.05	.006		"			
567	4-19		"				1.05	.008		"			
568	5-3		"				1.05	.007		"			
569	5-17		"					.006		"			
570	6-15		"					.002		"			
571	6-29		"					.0018		"			
572	7-13		"					.0005		"			
573	7-27		"					.0006		"			
574	8-10		"					.00041		"			
575	8-24		"					.0001		EST.			

F. C. Dist. Form 53 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U12-R

Daily discharge, in second-feet of HAINES CREEK above Mouth of Canyon, for the year ending September 30, 19 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					0.01	0.01	0.01	0.01				0
2			*0.002		0.01	0.01	0.01	0.01				0
3					0.01	0.01	0.01	0.01				0
4			0.02		0.01	0.01	0.01	0.01				0
5	*0.003				0.07	0.01	0.01	0.01				0
6					0.02	0.01	0.01					0
7		*0.002		*0.006	0.01	0.01	0.01			*0.002	*0.001	0
8					0.01	0.01	0.01					0
9					0.01	0.01	0.01					0
10			*0.006		0.01	0.01	0.01	*0.008	*0.006			0
11					0.01	0.01	0.01					0
12	0.01				0.01	0.01	0.01					0
13	0.02				0.01	0.01	0.01					0
14	0.02				0.01	0.01	0.01					0
15	0.01				0.01	0.01	0.01					0
16					0.01	0.01	0.01					0
17	*0.006				0.01	0.01	0.01					0
18					0.01	0.01	0.01					0
19					0.01	0.01	0.01					0
20					0.01	0.01	0.01				*0.001	0
21					0.01	0.01	0.01					0
22					0.01	0.01	0.01					0
23		*0.002	*0.006	*0.008	0.01	0.01	0.01	*0.006		*0.001		0
24					0.01	0.05	0.01					0
25	*0.003				0.01	0.04	0.01		*0.003			0
26					0.01	0.02	0.01					0
27					0.01	0.01	0.01				*0.001	0
28					0.01	0.01	0.04					0
29					0.01	0.01	0.01					0
30						0.01	0.01					0
31												
	.153	.060	.188	.218	0.36	0.39	0.33	.226	.150	.046	.031	0
MEAN	.005	.002	.006	.007	.012	.013	.011	.007	.005	.001	.001	0
ACRE-FEET	0.3	0.1	0.4	0.4	0.7	0.8	0.7	0.4	0.3	0.9	0.6	0

Remarks: *Daily discharge less than 0.01 second-foot.

YEAR OR PERIOD MEAN 0.0059
ACRE-FEET 4.2

F. C. Dist. Form 53 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U12-R

Daily discharge, in second-feet of Haines Creek above Mouth of Canyon, for the year ending September 30, 19 49

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					0.003							
2												
3								0.007				
4												
5							0.008					
6												
7	0		0.001									0
8						0.006				0.0005		
9		0.001										
10					0.002						0.0004	
11				0.003								
12												
13												
14												
15									0.002			
16												
17								0.006				
18												
19							0.008					
20												0
21												
22						0.007						
23												
24											0.0001	
25												
26												
27										0.0006		
28												
29												
30									0.002			
31												

Measurements obtained as shown above.
Monthly runoff estimated.

MEAN	-	-	-	-	-	-	-	-	-	-	-	-
ACRE-FEET	0	0.06	0.06	0.2	0.1	0.4	0.5	0.4	0.1	0.03	0.01	0

Remarks:

YEAR OR PERIOD MEAN 0.00255
ACRE-FEET 1.9

STATION F287-R
LA TUNA CREEK at Belmont Country Club

LOCATION: WATER-STAGE RECORDER, LAT. 34°14'16", LONG. 118°19'14", ON THE RIGHT (NORTHERLY) END OF THE UPSTREAM SIDE OF THE WOODEN BRIDGE AT LA TUNA CANYON ROAD ABOUT 3.7 MILES NORTHEAST OF ROSCOE. ELEVATION OF GAGE ABOUT 1158 FEET.

DRAINAGE AREA: 5.1 SQUARE MILES.

CHANNEL AND CONTROL:- CHANNEL - SAND AND GRAVEL CONFINED BY PIPE AND WIRE FENCES. CONTROL.- CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM UPSTREAM SIDE OF WOODEN BRIDGE.

RECORDER: INSTALLED MARCH 13, 1946 OVER A 21-INCH CORRUGATED IRON PIPE STILLING WELL. A STEVENS TYPE L WEEKLY RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION AND/OR DIVERSIONS: NONE.

RECORDS AVAILABLE: MARCH 13, 1946 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:
1947-1948
MAXIMUM 0.4 SECOND-FEET, MARCH 24.
MINIMUM NO FLOW MOST OF YEAR.
1948-1949
NO FLOW ENTIRE YEAR.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED, AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

STATION F149-R
LIMEKILN WASH at Devonshire Avenue

LOCATION: WATER-STAGE RECORDER, LAT. 34°15'27", LONG. 118°33'29", ON THE LEFT (EAST) ABUTMENT OF A CONCRETE, DOUBLE BOX CULVERT UNDER DEVONSHIRE AVENUE ABOUT 2 1/2 MILES EAST OF CHATSWORTH. ELEVATION OF GATE ABOUT 970 FEET.

DRAINAGE AREA: 3.8 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - SAND, GRAVEL AND SMALL BOULDERS. CONTROL - CULVERT ENTRANCE ACTS AS A CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM TOP OF CULVERT.

RECORDER: INSTALLED NOVEMBER 9, 1939. MOVED TO UPSTREAM SIDE OF BRIDGE NOVEMBER 30, 1943 OVER A 12-INCH IRON PIPE STILLING WELL. AN H.C.F. RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: NONE.

RECORDS AVAILABLE: NOVEMBER 9, 1939 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:
1947-1948
MAXIMUM 70 SECOND-FEET, MARCH 24.
MINIMUM NO FLOW MOST OF YEAR.
1948-1949
MAXIMUM 6.7 SECOND-FEET, MARCH 22.
MINIMUM NO FLOW MOST OF YEAR.
1939-1949
MAXIMUM 318 SECOND-FEET, FEBRUARY 17, 1941.
MINIMUM NO FLOW MOST OF EACH YEAR.

ACCURACY: GOOD.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

DISCHARGE MEASUREMENTS OF LIMEKILN WASH

AT ~~NEAR~~ Devonshire Avenue DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	D. MT. CHANGE TOTAL	METER NO.
121	3-17	1637 / 1640	TURNER	2.0	0.21	0.52	0.06	0.11		.5	3	0	FC43
122	4-10	1050 / 1056	"	5.5	1.59	0.88	0.20	1.4		.5	4	0	"

DISCHARGE MEASUREMENTS OF LIMEKILN WASH

AT ~~NEAR~~ Devonshire Avenue DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	D. MT. CHANGE TOTAL	METER NO.
123	1-20	0705 / 0711	TURNER	7.0	0.96	0.67	0.20	0.64		.5	5	0	FC43

F. C. Dist. Form 82 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F149-R

Daily discharge, in second-feet of LIMEKILN WASH at Devonshire Street, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	+	0	0	0	0	0	0	0	0	0
2	0	0	0.6	0	0	0	0	0	0	0	0	0
3	0	0	0.2	0	0	0	0.2	0	0	0	0	0
4	0	+	0.3	0	0.1	0	0	+	0	0	0	0
5	0	0	0.3	0.3	0.2	0	0	0.2	0	0	0	0
6	0	0	0	0.2	0.1	0	0.3	+	0	0	0	0
7	0	0	0	0	0	0	0	0.1	0	0	0	0
8	0	0	0	0	0	0	0	+	0	0	0	0
9	0	0	0	0	0	+	0	0	0	0	0	0
10	0	0	0	0	0	0	0.3	0	0	0	0	0
11	0	0	0	0	0	0	0	+	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0.7	0	0	0	0	0	0
14	0	0	0	0	0	0.6	0	0	0	0	0	0
15	0	0	0	0	0	+	0	0	0	0	0	0
16	0	0	0	0.3	0	+	0	0	0	0	0	0
17	0	0	0	0.4	0	0.7	0	0	0	0	0	0
18	0	0	0	0	0	+	0	0	0	0	0	0
19	0	0	0	0	0	+	0	0	0	0	0	0
20	0	0	0	0	0	+	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	+	0	0	0	0	0
24	0	0	0	0	0	4.5	+	0	0	0	0	0
25	0	0.1	0	0	+	0.2	+	0	0	0	0	0
26	0	0.3	0	0	0.1	0	+	0	0	0	0	0
27	0	0	0	0	0	0	+	0	0	0	0	0
28	0	0	0	0	0	0	0.2	0	0	0	0	0
29	0	0	0	0	0	0	0.4	0	0	0	0	0
30	0	0	0	+		0	+	0	0	0	0	0
31	+		0	0		0		0		0	0	
		0.4	1.4	1.2	0.5	6.7	1.4	0.3	0	0	0	0
MEAN	+	0.01	0.05	0.04	0.02	0.22	0.05	0.01	0	0	0	0
ACRE-FEET	+	0.8	2.8	2.4	1.0	13.	2.8	0.6	0	0	0	0

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

YEAR OR PERIOD MEAN 0.03
ACRE-FEET 23.

F. C. Dist. Form 82 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

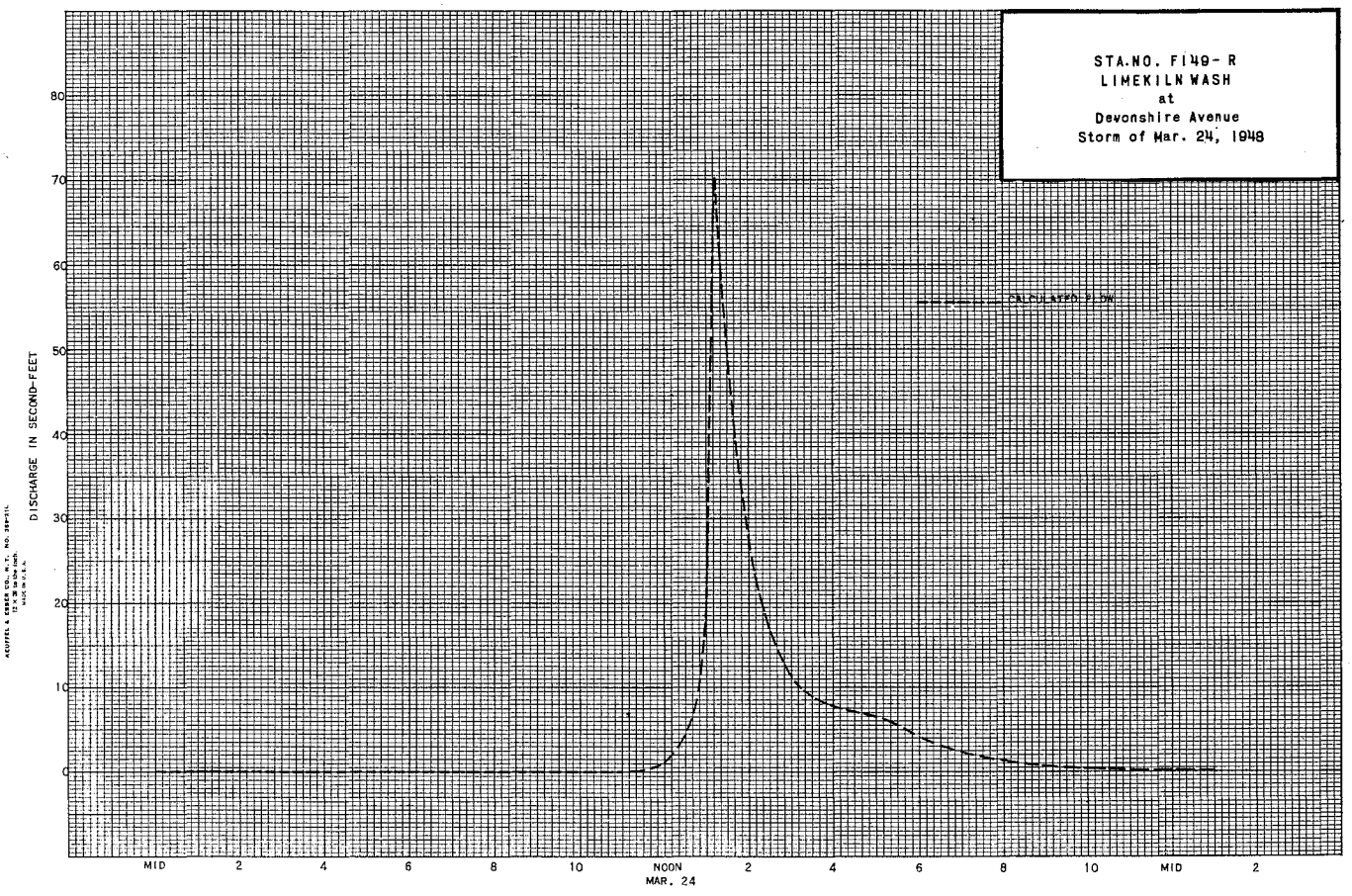
Sta. No. F149-R

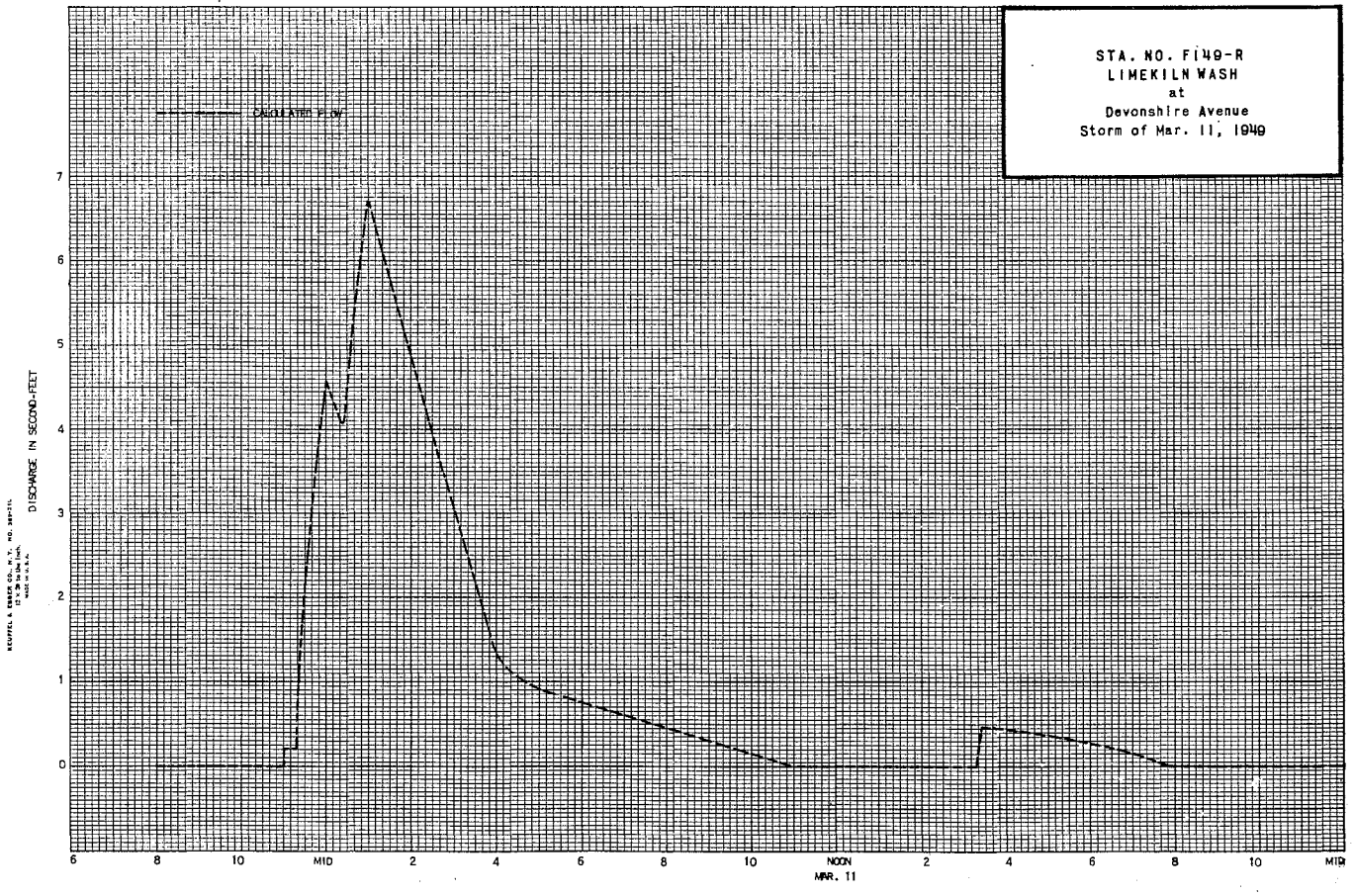
Daily discharge, in second-feet of LIMEKILN WASH at Devonshire Street, for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0.1	0	0	0	0	0	0
11	0	0	0	0	0	0.9	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	+	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0.1	0	0	0	0	0	0	0	0
20	0	0	0	1.0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0.1	0	0	0	0	0	0	0	0
23	0	0	a 0	+	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	+	0	0	0	0	0	0	0	0	0	0	0
27	0	0	a 0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
		0		1.2	0	1.0	0	0	0	0	0	0
MEAN	+	0	+	.039	0	0.03	0	0	0	0	0	0
ACRE-FEET	+	0	+	2.4	0	2.0	0	0	0	0	0	0

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

YEAR OR PERIOD MEAN .006
ACRE-FEET 4.4


STA.NO. F149- R
LIMEKILN WASH
at
Devonshire Avenue
Storm of Mar. 24, 1948
CALCULATED FLOW
DISCHARGE IN SECOND-FEET
0
10
20
30
40
50
60
70
80
MID
2
4
6
8
10
NOON
2
4
6
8
10
MID
2
MAR. 24


STA. NO. F149-R
LIMEKILN WASH
at
Devonshire Avenue
Storm of Mar. 11, 1949
CALCULATED FLOW
DISCHARGE IN SECOND-FEET
0
1
2
3
4
5
6
7
6
8
10
MID
2
4
6
8
10
NOON
2
4
6
8
10
MID
MAR. 11

STATION F65B-R
LITTLE DALTON CREEK above Mouth of Canyon

LOCATION: WATER-STAGE RECORDER, LAT. 34°10'05", LONG. 117°50'07", ON THE LEFT (EAST) BANK ABOUT 120 FEET ABOVE GLENDORA MOUNTAIN ROAD CROSSING, 0.8 MI. ABOVE MOUTH OF CANYON AND ABOUT 3 MILES NORTHEAST OF GLENDORA, ELEVATION OF ZERO GAGE HEIGHT, 1334.38.

DRAINAGE AREA: 2.7 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - ROCK AND GRAVEL WITH WIRE MAT RIPRAP ON SIDES. CONTROL - RUBBLE AND CONCRETE CHECK IN CHANNEL BOTTOM.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM BRIDGE CROSSING 122 FEET BELOW STATION.

RECORDER: INSTALLED JANUARY 1929 AT STATION F65-R AT MOUTH OF CANYON (DRAINAGE AREA 3.3 SQUARE MILES). REMOVED NOVEMBER 23, 1938. REINSTALLED NOVEMBER 30, 1938 AT STATION F65B-R OVER A 21-INCH DIAMETER CORRUGATED IRON PIPE STILLING WELL. AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: NONE.

DIVERSIONS: NONE. GLENDORA IRRIGATING COMPANY DIVERTS BELOW STATION.

RECORDS AVAILABLE:
AT STATION F65-R - JANUARY 28, 1929 TO NOVEMBER 23, 1938.
AT STATION F65B-R - NOVEMBER 30, 1938 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:
1947-1948
MAXIMUM 4.0 SECOND-FEET, APRIL 3.
MINIMUM NO FLOW FOR SEVERAL MONTHS.
1948-1949
MAXIMUM 1.9 SECOND-FEET, MARCH 4.
MINIMUM NO FLOW FOR SEVERAL MONTHS.
1929-1949
MAXIMUM 960 SECOND-FEET, ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW SEVERAL MONTHS EACH YEAR.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT WITH COOPERATION OF THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

DISCHARGE MEASUREMENTS OF LITTLE DALTON CREEK

~~AT~~ NEAR Above Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
457	2-5	1050 / 1056	BREWSTER - STUNDEN	3.0	0.66	0.36	0.15	0.24		.6	3	0	FC12
458	2-5	1415 / 1420	" "	4.0	0.80	0.54	0.21	0.43		.6	4	0	"
459	2-11	1010 / 1015	" "	C.5C	0.11	0.64	0.09	0.07		.6	1	0	"
460	2-18	0855 / 0900	BREWSTER	0.50	0.07	0.57	0.06	0.04	FLOAT		1	0	
461	3-17	0910 / 0915	STUNDEN	1.0	0.50	0.92	0.19	0.46		.5	2	0	FC36
462	3-24	0925 / 0930	"	1.0	0.40	0.48	0.10	0.19		.5	2	0	"
463	3-25	0925 / 0930	"	1.0	0.50	1.08	0.19	0.54		.5	2	0	"
464	3-31	1040 / 1045	"	1.0	0.47	0.60	0.11	0.28		.5	2	0	"
465	4-7	0900 / 0905	"	1.0	0.60	1.20	0.19	0.72		.6	2	0	"
466	4-13	1545 / 1550	"	1.0	0.49	0.67	0.11	0.33		.5	2	0	"
467	4-22	1540 / 1545	"	1.0	0.40	0.28	0.10	0.11		.5	2	0	"
468	4-29	1430 / 1435	"	1.0	0.49	0.82	0.16	0.40		.5	2	0	"
469	5-6	0915 / 0920	STUNDEN - SILL	1.0	0.39	0.23	0.08	0.09		.5	2	0	"
470	5-13	0755 / 0800	STUNDEN	0.50	0.15	0.27	0.06	0.04		.5	1	0	"

DISCHARGE MEASUREMENTS OF LITTLE DALTON CREEK

~~AT~~ NEAR above Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
471	1-20	0935 / 0938	STUNDEN - WILLUT	1.0	0.50	1.06	0.18	0.53		.6	2	0	FC36
472	1-26	0840 / 0845	STUNDEN	1.0	0.50	0.78	0.14	0.39		.5	2	0	"
473	2-3	1415 / 1420	"	1.0	0.40	0.65	0.13	0.26		.5	2	0	"
474	2-7	1022 / 1035	"	1.0	0.40	0.80	0.14	0.32		.5	2	+.01	"
475	2-16	0825 / 0830	"	0.90	0.36	0.69	0.14	0.25		.5	2	0	"
476	2-23	1030 / 1034	"	0.90	0.30	0.50	0.10	0.15		.5	2	0	"
477	3-3	0745 / 0748	"	1.0	0.46	1.24	0.19	0.57		.5	2	0	"
478	3-10	0915 / 0920	"	0.9C	0.42	1.38	0.18	0.58		.5	2	0	"
479	3-11	0413 / 0416	STUNDEN - WILLUT	1.0	0.58	1.72	0.29	1.0		.5 / .6	2	0	"
480	3-16	1520 / 1525	STUNDEN	1.0	0.50	0.6C	0.18	0.30		.5	2	0	"
481	3-23	0910 / 0915	"	2.0	0.20	0.75	0.16	0.15		.5	4	0	"
482	3-31	0830 / 0835	"	1.0	0.14	0.93	0.12	0.13		.5	2	0	"
483	4-7	1415 / 1418	"	0.6C	0.07	0.86	0.08	0.06		.5	1	0	"
484	4-14	0903 / 0906	"	0.60	0.07	0.71	0.09	0.05		.5	1	0	"
485	4-21	0755 / 0758	"	0.60	0.08	0.88	0.09	0.07		.5	1	0	"
486	4-28	0640 / 0643	"	0.6C	0.06	0.67	0.06	0.04		.5	1	0	"
487	5-5	0635 / 0638	"	0.60	0.06	0.50	0.06	0.03		.5	1	P	"
488	5-19	0825 / 0830	"	0.90	0.27	0.63	0.12	0.17		.5	2	0	"

F. C. Dist. Form 52 4-46

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, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0.01	0.2	0.2	0	0	0	0
2	0	0	0	0	0	0.01	0.3	0.2	0	0	0	0
3	0	0	0	0	0	0	1.6	0.1	0	0	0	0
4	0	0	0	0	0	0	1.1	0.1	0	0	0	0
5	0	0	0	0	0.3	0	0.8	0.07	0	0	0	0
6	0	0	0	0	0.5	0	1.1	0.07	0	0	0	0
7	0	0	0	0	0.2	0	0.8	0.08	0	0	0	0
8	0	0	0	0	0.09	0	0.6	0.06	0	0	0	0
9	0	0	0	0	0.07	0	0.5	0.05	0	0	0	0
10	0	0	0	0	0.05	0	0.7	0.01	0	0	0	0
11	0	0	0	0	0.06	0	0.6	0.01	0	0	0	0
12	0	0	0	0	0.06	0	0.6	0.01	0	0	0	0
13	0	0	0	0	0.05	0.01	0.5	0	0	0	0	0
14	0	0	0	0	0.04	0.3	0.5	0	0	0	0	0
15	0	0	0	0	0.04	0.5	0.3	0	0	0	0	0
16	0	0	0	0	0.04	0.3	0.2	0	0	0	0	0
17	0	0	0	0	0.04	0.3	0.3	0	0	0	0	0
18	0	0	0	0	0.04	0.1	0.4	0	0	0	0	0
19	0	0	0	0	0.04	0.2	0.2	0	0	0	0	0
20	0	0	0	0	0.04	0.2	0.1	0	0	0	0	0
21	0	0	0	0	0.02	0.1	0.1	0	0	0	0	0
22	0	0	0	0	0.04	0.1	0.1	0	0	0	0	0
23	0	0	0	0	0.01	0.1	0.1	0	0	0	0	0
24	0	0	0	0	0	0.5	0.1	0	0	0	0	0
25	0	0	0	0	0	0.4	0.1	0	0	0	0	0
26	0	0	0	0	0	0.2	0.1	0	0	0	0	0
27	0	0	0	0	0	0.2	0.1	0	0	0	0	0
28	0	0	0	0	0.04	0.3	0.2	0	0	0	0	0
29	0	0	0	0	0.02	0.3	0.7	0	0	0	0	0
30	0	0	0	0		0.3	0.3	0	0	0	0	0
31	0		0	0		0.3		0		0	0	
	0	0	0	0	1.79	4.73	13.3	0.96	0	0	0	0
MEAN	0	0	0	0	0.06	0.15	0.44	0.03	0	0	0	0
ACRE-FEET	0	0	0	0	3.5	9.4	26.	1.9	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN 0.06
ACRE-FEET 41.

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

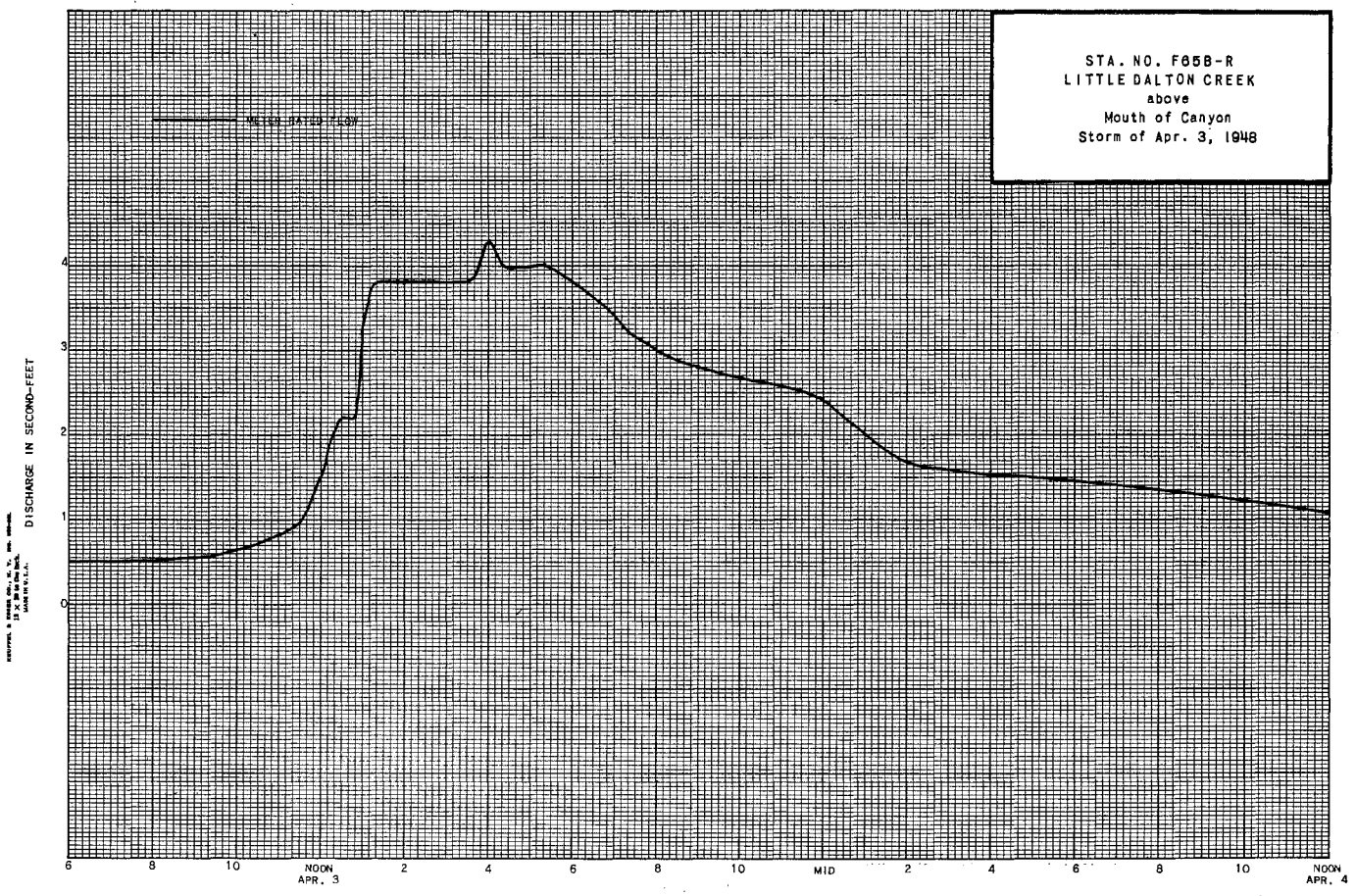
Sta. No. F65B-R

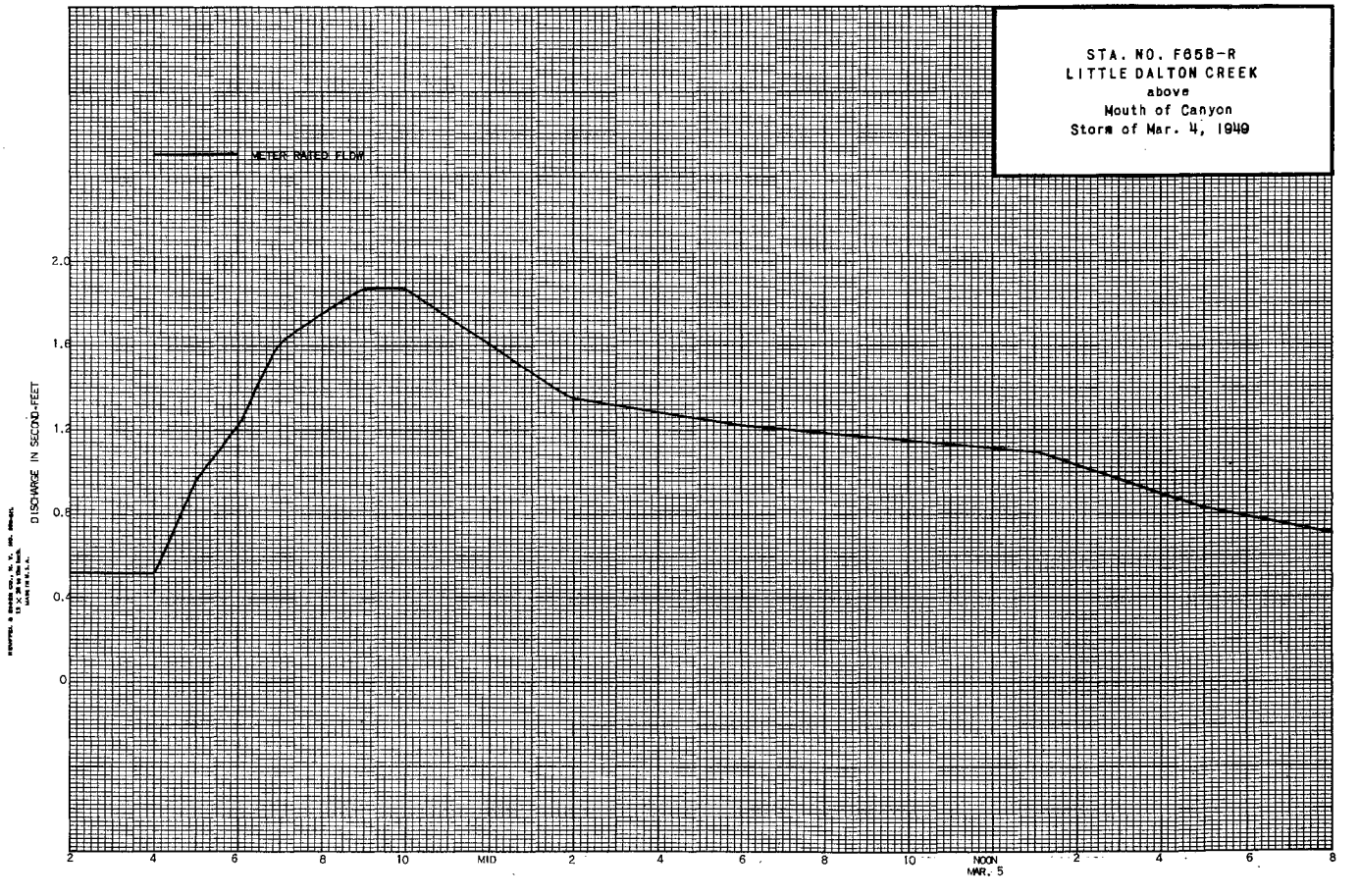
Daily discharge, in second-feet of Little Dalton Creek above Mouth of Canyon for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0.2	0.6	0.2	+	0	0	0	0
2	0	0	0	0	0.1	0.6	0.2	+	0	0	0	0
3	0	0	0	0	0.2	0.6	0.08	+	0	0	0	0
4	0	0	0	0	0.2	1.1	0.06	+	0	0	0	0
5	0	0	0	0	0.1	1.1	0.07	+	0	0	0	0
6	0	0	0	0	0.1	0.8	0.07	0	0	0	0	0
7	0	0	0	0	0.2	1.0	0.08	0	0	0	0	0
8	0	0	0	0	0.3	0.8	0.08	0	0	0	0	0
9	0	0	0	0	0.3	0.6	0.08	0	0	0	0	0
10	0	0	0	0	0.3	0.6	0.07	0	0	0	0	0
11	0	0	0	0	0.3	0.6	0.04	0	0	0	0	0
12	0	0	0	0	0.3	0.5	0.04	0	0	0	0	0
13	0	0	0	0	0.3	0.5	0.04	0	0	0	0	0
14	0	0	0	0	0.3	0.5	0.05	0	0	0	0	0
15	0	0	0	0	0.3	0.3	0.05	0	0	0	0	0
16	0	0	0	0	0.3	0.2	0.05	0	0	0	0	0
17	0	0	0	0	0.2	0.2	0.06	+	0	0	0	0
18	0	0	0	0	0.2	0.2	0.07	0.2	0	0	0	0
19	0	0	0	0	0.3	0.2	0.08	0.2	0	0	0	0
20	0	0	0	0.3	0.2	0.2	0.07	0.1	0	0	0	0
21	0	0	0	0.6	0.2	0.2	0.04	0.1	0	0	0	0
22	0	0	0	0.8	0.2	0.2	0.02	+	0	0	0	0
23	0	0	0	0.8	0.2	0.1	0.01	+	0	0	0	0
24	0	0	0	0.6	0.5	0.1	0.01	+	0	0	0	0
25	0	0	0	0.5	0.8	0.1	0.01	0	0	0	0	0
26	0	0	0	0.4	0.7	0.1	0.01	0	0	0	0	0
27	0	0	0	0.3	1.1	0.1	+	0	0	0	0	0
28	0	0	0	0.3	0.8	0.1	+	0	0	0	0	0
29	0	0	0	0.2		0.1	0.02	0	0	0	0	0
30	0	0	0	0.2		0.1	0.01	0	0	0	0	0
31	0		0	0.2		0.2		0		0	0	
	0	0	0	5.2	9.2	12.6	1.67	0.6	0	0	0	0
MEAN	0	0	0	0.17	0.33	0.41	0.06	0.02	0	0	0	0
ACRE-FEET	0	0	0	10.	18.	25.	3.3	1.2	0	0	0	0

Remarks: + = Less than 0.01 c.f.s.

YEAR OR PERIOD MEAN 0.08
ACRE-FEET 58.


STA. NO. F65B-R
LITTLE DALTON CREEK
above
Mouth of Canyon
Storm of Apr. 3, 1948
METER RATED FLOW
DISCHARGE IN SECOND-FEET
0
1
2
3
4
6
8
10
NOON
APR. 3
2
4
6
8
10
MID
2
4
6
8
10
NOON
APR. 4


STA. NO. F65B-R
LITTLE DALTON CREEK
above
Mouth of Canyon
Storm of Mar. 4, 1949
METER RATED FLOW
DISCHARGE IN SECOND-FEET
0
0.4
0.8
1.2
1.6
2.0
2
4
6
8
10
MID
2
4
6
8
10
NOON
MAR. 5
2
4
6
8

STATION LI-R
LITTLE ROCK CREEK above Little Rock Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°27'50", LONG. 118°01'03", ON THE RIGHT (EAST) BANK ABOUT 2 MILES ABOVE LITTLE ROCK PALMDALE IRRIGATION DISTRICT'S DAM, APPROXIMATELY 1500 FEET UPSTREAM FROM SANTIAGO CREEK AND 5 MILES SOUTH OF LITTLE ROCK. ELEVATION OF GAGE ABOUT 3,290 FEET.

DRAINAGE AREA: 49.0 SQUARE MILES..

CHANNEL AND CONTROL: CHANNEL - SAND, GRAVEL AND BOULDERS. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING NEAR GAGE. HIGH FLOWS MEASURED FROM CABLE CAR BELOW GAGE.

RECORDER: INSTALLED SEPTEMBER 1930. WASHED OUT DURING MARCH 2, 1938 STORM. REINSTALLED MARCH 31, 1939. STATION DISMANTLED MAY 20, 1943 AND MOVED ABOUT 500 FEET UPSTREAM OVER A 24" CORRUGATED IRON PIPE STILLING WELL. AN H.C.F. CONTINUOUS RECORDER IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30 1949.

REGULATION: NONE.

RECORDS AVAILABLE: OCTOBER 1, 1930 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:

1947-1948
MAXIMUM 122 SECOND-FEET, APRIL 29.
MINIMUM NO FLOW PART OF YEAR.

1948-1949
MAXIMUM 37 SECOND-FEET, APRIL 14.
MINIMUM NO FLOW PART OF YEAR.

1930-1949
MAXIMUM 17,000 SECOND-FEET, ESTIMATED MARCH 2, 1938
MINIMUM NO FLOW AT TIMES EACH YEAR.

ACCURACY: GOOD.

OPERATION: ORIGINALLY LOCATED AND INSTALLED BY LITTLE ROCK PALMDALE IRRIGATION DISTRICT, REINSTALLED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT AND OPERATED IN COOPERATION WITH THE U.S.G.S. WATER RESOURCES BRANCH.

DISCHARGE MEASUREMENTS OF LITTLE ROCK CREEK

NEAR above Little Rock Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 46

NO.	DATE	BEGIN	END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
187	12-10	1115	1125	LUCE	7.0	2.43	0.90	3.62	2.2		.6	6	0	FC39
188	12-23	1020	1030	"	11.0	4.51	0.62	3.64	2.8		.6	6	0	"
189	1-14	1330	1340	"	11.5	4.75	0.59	3.66	2.8		.6	6	0	"
190	1-28	1145	1150	"	9.5	3.04	0.72	3.64	2.2		.6	5	C	"
191	2-10	1015	1020	"	12.0	5.09	0.92	3.65	4.7		.6	6	0	"
192	2-19	1142	1152	"	17.5	10.1	1.05	3.84	10.6		.6	10	0	"
193	2-26	1015	1025	"	16.0	8.06	0.84	3.68	6.8		.6	9	0	"
194	3-9	1230	1236	LUCE & TURNER	15.0	6.61	0.63	3.62	4.2		.6	9	0	"
195	3-23	0830	0840	LUCE	17.0	8.03	0.85	3.72	6.8		.6	9	0	"
196	3-25	1102	1107	LUCE - WRIGHT	18.0	9.57	1.11	3.83	10.6		.6	9	0	"
197	4-7	1110	1120	LUCE	18.0	10.9	1.17	3.88	12.8		.6	10	0	"
198	4-16	1125	1135	"	19.0	12.4	1.26	3.95	15.6		.6	10	0	"
199	4-29	1340	1350	"	19.5	23.4	2.28	4.38	53.3		.6	11	0	"
200	5-13	0835	0845	"	13.0	8.71	0.65	3.68	5.7		.6	8	0	"
201	5-27	1415	1425	"	12.8	6.93	0.40	3.54	2.8		.6	7	0	"
202	6-10	1120	1125	"	9.5	3.05	0.46	3.43	1.4		.6	5	C	"

DISCHARGE MEASUREMENTS OF LITTLE ROCK CREEK

NEAR above Little Rock Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 46

NO.	DATE	BEGIN	END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
203	12-20	1720	1725	LUCE	8.5	3.40	0.32	3.49	1.1		.6	6	0	FC39
204	12-27	1810	1822	"	11.0	4.61	0.56	3.62	2.6		.6	6	0	"
205	1-5	1120	1130	"	10.2	3.89	0.51	3.54	2.0		.6	6	0	"
206	2-2	1040	1047	"	10.0	4.03	0.82	3.52	3.3		.6	6	0	"
207	2-16	1530	1540	"	11.5	4.68	0.81	3.57	3.8		.6	6	0	"
208	3-2	1315	1325	"	16.9	9.82	1.07	3.75	10.5		.6	10	0	"
209	3-16	1625	1635	"	17.0	11.5	1.35	3.86	15.5		.6	9	0	"
210	3-29	1325	1335	"	17.0	11.8	1.31	3.87	15.5		.6	10	0	"
211	4-13	1245	1255	"	17.5	17.4	1.73	4.16	30.1		.6	10	-.02	"
212	4-27	1240	1250	"	17.0	11.5	1.22	3.87	14.0		.6	10	0	"
213	5-11	1745	1755	"	14.0	8.79	0.53	3.60	4.7		.6	8	0	"
214	5-26	1510	1520	"	12.7	4.17	0.65	3.51	2.7		.6	7	0	"
215	6-8	1700	1710	"	7.5	2.78	0.43	3.40	1.2		.6	6	0	"
216	6-24	0855	0901	TURNER	6.0	0.87	0.49	3.28	0.43		.5	6	0	FC43
217	7-6	1025	1030	LUCE	3.3	0.54	0.50	3.17	0.27		.6	4	0	FC39

F. C. Dist. Form 83 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. LI-R

Daily discharge, in second-feet of LITTLE ROCK CREEK 2 miles above Little Rock Dam, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	1.3	1.9	2.2	5.6	11	24	3.0	0.1	0	0
2	0	0	1.8	2.0	2.2	5.0	11	19	3.4	0.1	0	0
3	0	0	1.8	2.2	2.2	5.0	14	16	2.4	0.1	0	0
4	0	0	3.2	2.4	2.2	4.7	24	14	1.9	0.1	0	0
5	0	0	6.0	2.6	5.7	4.4	17	12	1.4	0.1	0	0
6	0	0	4.2	2.4	4.7	4.2	14	11	1.3	0.1	0	0
7	0	0	3.4	2.6	4.2	4.2	12	9.6	0.8	0.1	0	0
8	0	0	3.0	2.6	4.2	4.2	12	8.3	0.6	0.1	0	0
9	0	0	2.8	3.2	4.2	4.2	11	7.5	0.5	0.1	0	0
10	0	0	2.2	3.4	4.4	4.4	15	6.9	0.4	0.1	0	0
11	0	0	2.2	3.2	4.2	4.4	19	6.6	0.5	0.1	0	0
12	0	0	2.0	3.0	3.8	4.4	15	6.0	0.4	0.1	0	0
13	0	+	2.0	2.8	3.6	5.0	13	5.3	0.4	0.1	0	0
14	0	+	2.2	2.8	3.6	6.6	13	5.0	0.3	0.1	0	0
15	0	0.1	2.2	3.0	3.6	5.6	13	4.4	0.2	0.1	0	0
16	0	0.2	2.4	3.0	4.2	5.3	15	4.2	0.1	0.1	0	0
17	0	0.2	2.6	3.0	6.0	5.6	17	3.8	0.1	0.1	0	0
18	0	0.4	2.8	2.8	8.7	6.0	17	3.8	0.1	0.1	0	0
19	0	0.4	3.0	2.8	10	6.0	15	4.0	0.1	+	0	0
20	0	0.5	3.0	2.6	9.6	6.9	14	4.2	0.1	+	0	0
21	0	0.6	3.0	2.6	9.6	6.3	12	4.2	0.1	+	0	0
22	0	0.6	2.8	2.4	11	6.0	10	3.8	0.1	+	0	0
23	0	0.7	2.6	2.4	10	7.2	10	3.6	0.1	+	0	0
24	0	0.7	2.2	2.4	8.7	11	10	3.4	0.1	0	0	0
25	0	0.8	2.4	2.6	7.5	12	9.1	2.8	0.1	0	0	0
26	0	0.8	2.8	2.6	6.9	9.6	8.3	2.8	0.1	0	0	0
27	0	0.8	2.8	2.4	6.3	9.1	7.9	2.6	0.1	0	0	0
28	0	0.8	2.8	2.0	6.3	9.6	8.8	2.6	0.1	0	0	0
29	0	0.8	2.6	2.0	6.0	10	6.2	2.6	0.1	0	0	0
30	0	0.8	2.4	2.2		11	3.3	2.4	0.1	0	0	0
31	0		1.8	2.2		11		2.6		0	0	
	0	9.2	82.3	80.1	165.8	204.5	463.1	209.0	19.0	1.8	0	0
MEAN	0	0.31	2.65	2.58	5.72	6.60	15.4	6.74	0.63	0.06	0	0
ACRE-FEET	0	18	163.	159.	329.	406.	919.	415.	38.	3.6	0	0

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

YEAR OR PERIOD MEAN 3.37
ACRE-FEET 2,450.

F. C. Dist. Form 83 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

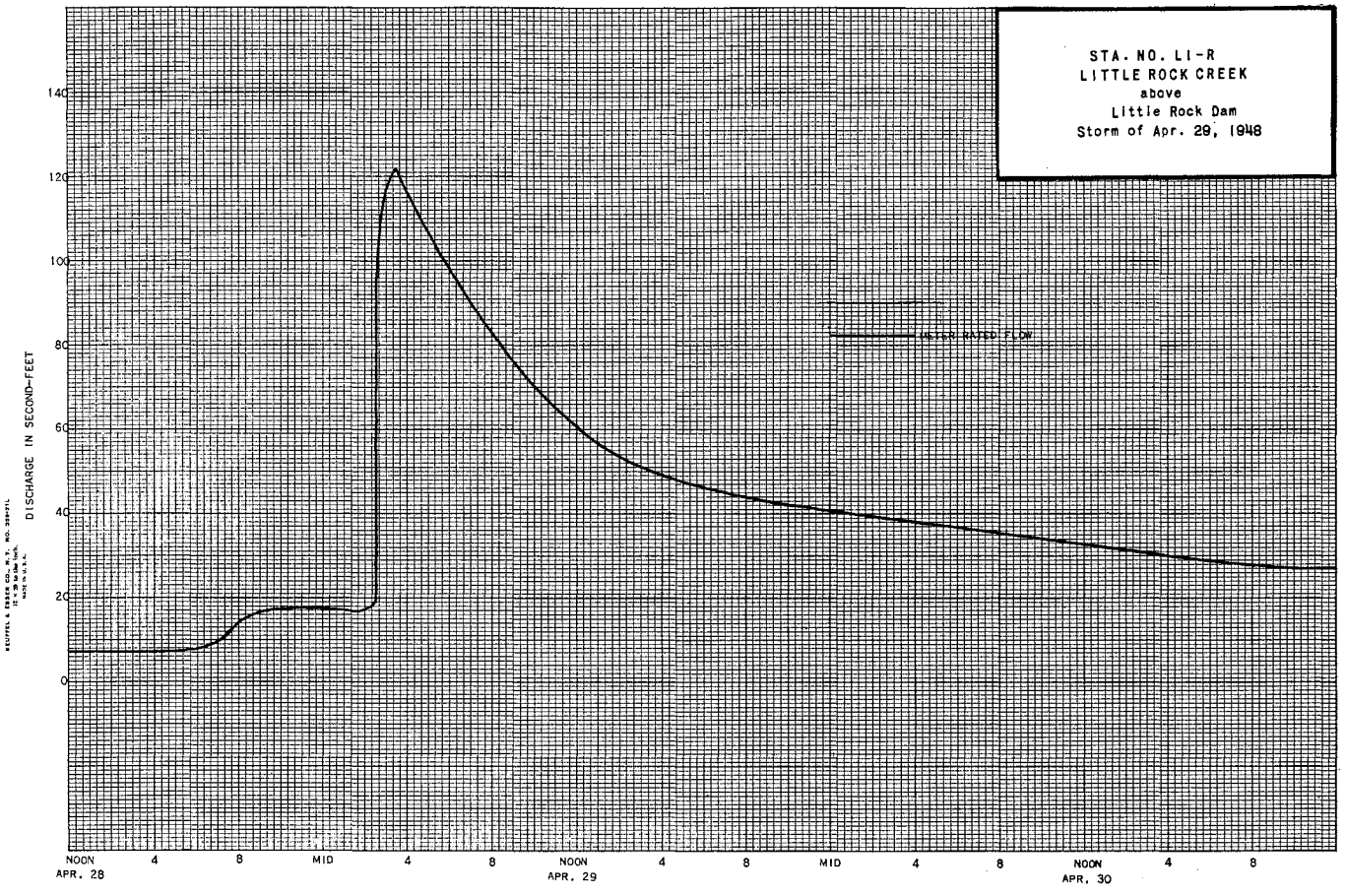
Sta. No. LI-R

Daily discharge, in second-feet of Little Rock Creek above Little Rock Dam, for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	2.0	3.2	10	14	10	2.8	0.4	0	0
2	0	0	0	2.2	3.4	10	13	9.6	2.6	0.4	0	0
3	0	0	0	2.2	3.4	10	12	8.7	2.2	0.4	0	0
4	0	0	0	1.6	3.4	11	12	7.9	1.8	0.4	0	0
5	0	0	0	1.9	3.4	13	15	7.2	1.8	0.4	0	0
6	0	0	0	2.0	3.4	11	18	6.9	1.4	0.3	0	0
7	0	0	0	2.0	3.8	11	19	6.3	1.2	0.3	0	0
8	0	0	0	2.0	4.2	10	22	5.6	0.8	0.3	0	0
9	0	0	0	2.2	4.0	9.6	25	5.0	1.3	0.2	0	0
10	0	0	0	2.6	3.8	9.1	27	4.7	1.0	0.2	0	0
11	0	0	0	2.8	5.0	13	29	4.7	0.8	0.2	0	0
12	0	0	0	3.0	6.6	14	30	4.7	0.8	0.2	0	0
13	0	0	0	3.2	5.3	12	33	4.2	0.7	0.1	0	0
14	0	0	0	3.4	4.2	12	33	4.2	0.6	0.1	0	0
15	0	0	0	3.2	4.2	14	30	4.7	0.6	0.1	0	0
16	0	0	0.1	3.0	4.0	15	28	4.7	0.5	0.1	0	0
17	0	0	1.2	2.8	4.2	18	27	4.7	0.5	0.1	0	0
18	0	0	1.4	2.8	6.6	19	23	4.7	0.4	0.1	0	0
19	0	0	1.3	3.0	10	22	22	6.0	0.5	+	0	0
20	0	0	1.2	6.0	11	23	22	6.9	0.4	+	0	0
21	0	0	1.2	6.3	11	20	24	6.0	0.4	+	0	0
22	0	0	1.3	5.0	11	21	27	6.0	0.4	+	0	0
23	0	0	1.6	4.2	13	18	24	4.7	0.4	0	0	0
24	0	0	1.4	3.8	14	15	22	4.2	0.4	0	0	0
25	0	0	1.3	3.6	15	14	19	3.8	0.4	0	0	0
26	0	0	1.4	3.6	14	13	16	3.2	0.5	0	0	0
27	0	0	2.6	3.4	13	14	14	3.0	0.5	0	0	0
28	0	0	2.2	3.2	11	19	13	2.8	0.5	0	0	0
29	0	0	1.9	3.0		16	12	2.8	0.5	0	0	0
30	0	0	1.8	3.2		15	11	3.0	0.4	0	0	0
31	0		1.9	3.2		15		3.2		0	0	
	0	0	23.8	96.4	199.1	446.7	636.0	164.1	27.1	4.3	0	0
MEAN	0	0	0.77	3.11	7.11	14.4	21.2	5.29	0.90	0.14	0	0
ACRE-FEET	0	0	47.	191.	395.	886.	1260.	325.	54.	8.5	0	0

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

YEAR OR PERIOD MEAN 4.38
ACRE-FEET 3170



STATION U3-R
LITTLE SANTA ANITA CREEK above Sierra Madre Dam

LOCATION: WATER-STAGE RECORDER AND CONTROL. LAT. 34°11'15", LONG. 118°02'35", NEAR CENTER OF NW 1/4 SEC. 9 T. 1 N., R 11 W., 1.3 MILES UPSTREAM FROM SIERRA MADRE DAM. ALTITUDE OF GAGE ABOUT 2,200 FEET (FROM TOPOGRAPHIC MAP).

DRAINAGE AREA: 1.9 SQUARE MILES.

RECORDS AVAILABLE: APRIL 1916 TO SEPTEMBER 30, 1949.

AVERAGE DISCHARGE: 31 YEARS (1916-1925, 1926-1948, 0.97 SECOND-FOOT.
32 " " " " 49 0.65 SECOND-FOOT.

EXTREMES:

1947-1948:
MAXIMUM DISCHARGE 12 SECOND-FEET, APRIL 28. (GAGE HEIGHT 1.27 FEET).
MINIMUM DAILY LESS THAN 0.1 SECOND-FOOT ON MANY DAYS.

1948-1949
MAXIMUM DISCHARGE 3.1 SECOND-FEET, JANUARY 20. (GAGE HEIGHT 0.94 FEET).
MINIMUM DAILY DISCHARGE LESS THAN 0.1 SECOND-FOOT ON MANY DAYS.

1916-1949
MAXIMUM DISCHARGE 536 SECOND-FEET MARCH 2, 1938 COMPUTED ON BASIS OF INFLOW TO SIERRA MADRE FLOOD CONTROL RESERVOIR. NO FLOW DURING PERIODS IN 1919, 1924, AND 1925.

REMARKS: RECORDS GOOD. NO DIVERSIONS ABOVE STATION.

COOPERATION: RECORDS FURNISHED BY UNITED STATES GEOLOGICAL SURVEY.

DISCHARGE MEASUREMENTS OF LITTLE SANTA ANITA CREEK

AT NEAR above Sierra Madre Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
914	10-6		U.S.G.S.	1.0	0.23	0.52	0.48	0.12		.5	5	0	
915	10-21		"	1.0	0.26	0.65	0.50	0.17		.5	6	0	
916	11-4		"	1.0	0.28	0.57	0.50	0.16		.5	5	0	
917	12-3		"	1.0	0.21	0.52	0.52	0.11		.5	4	0	
918	12-15		"	1.0	0.30	0.87	0.54	0.26		.6	4	0	
919	1-2		"	0.9	0.23	0.96	0.53	0.22		.6	4	0	
920	1-15		"	0.9	0.22	0.91	0.51	0.20		.6	4	0	
921	1-20		"	1.0	0.26	0.81	0.52	0.21		.5	2	0	
922	1-27		"	1.6	0.28	0.54	0.51	0.15		.5	4	0	
923	2-9		"	1.6	0.47	0.60	0.54	0.28		.5	5	0	
924	2-25		"	1.5	0.41	0.46	0.53	0.19		.5	3	0	
925	3-8		"	1.3	0.27	0.67	0.54	0.18		.5	3	0	
926	3-22		"	1.3	0.30	1.07	0.59	0.32		.5	3	0	
927	4-5		"	1.4	0.38	1.29	0.61	0.49		.5	3	0	
928	4-21		"	1.3	0.39	0.69	0.56	0.27		.5	3	0	
929	5-10		"	1.3	0.38	0.89	0.58	0.34		.5	3	0	
930	5-24		"	1.3	0.34	0.74	0.55	0.25		.5	3	0	
931	6-7		"	1.2	0.28	0.82	0.54	0.23		.5	4	0	
932	6-21		"	1.2	0.27	0.67	0.52	0.18		.5	3	0	
933	7-6		"	2.0	0.17	0.47	0.49	0.08		.5	4	0	
934	7-19		"	1.2	0.26	0.38	0.47	0.10		.5	4	0	
935	8-9		"	1.2	0.25	0.20	0.45	0.05		.5	6	0	
936	8-23		"	0.8	0.18	0.33	0.45	0.06		.5	4	0	
937	9-8		"	0.8	0.14	0.21	0.43	0.03		.5	4	0	
938	9-21		"	0.8	0.17	0.35	0.45	0.06		.5	4	0	

DISCHARGE MEASUREMENTS OF LITTLE SANTA ANITA CREEK

AT NEAR above Sierra Madre Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
939	10-6		U.S.G.S.	.7	.18	.39	.45	.07		.5	2	0	
940	10-18		"	.8	.20	.50	.47	.10		.5	4	0	
941	11-8		"	.8	.21	.43	.47	.09		.5	4	0	
942	11-22		"	.8	.19	.47	.48	.09		.5	4	0	
943	12-6		"	.7	.15	.73	.48	.11		.5	3	0	
944	12-20		"	.7	.14	1.07	.51	.15		.5	3	0	
945	1-3		"	.75	.17	.94	.51	.16		.5	3	0	
946	1-17		"	1.3	.30	.70	.54	.21		.5	4	0	
947	1-31		"	1.3	.42	.72	.58	.30		.6	4	0	
948	2-11		"	1.4	.45	.62	.56	.28		.5 .6	14	0	
949	2-16		"	1.3	.48	.69	.59	.33		.5 .6	4	0	
950	3-8		"	1.2	.58	1.17	.66	.68		.6	3	0	
951	3-22		"	1.2	.53	.94	.62	.50		.6	3	0	
952	4-7		"	1.4	.51	.67	.58	.34		.6	4	0	
953	4-27		"	1.1	.37	.65	.57	.24		.5	6	0	
954	5-9		"	1.0	.34	.51	.53	.18		.5	10	0	
955	5-23		"	1.15	.40	.88	.58	.35		.5	10	0	
956	6-6		"	1.2	.36	.56	.52	.20		.5	12	0	
957	6-22		"	1.2	.35	.42	.50	.14		.5	12	0	
958	7-12		"	1.2	.33	.31	.49	.10		.5	12	0	
959	7-27		"	.6	.16	.48	.46	.075		.5	6	0	
960	8-9		"	1.1	.25	.29	.44	.070		.5	10	-.01	
961	8-23		"	.6	.156	.28	.44	.0434		.5	3	0	
962	9-7		"	.6	.127	.147	.42	.0187		.5	6	0	
963	9-20		"	.6	.140	.180	.42	.024		.5	7	0	

P. C. Dist. Form 32 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U3-R

Daily discharge, in second-feet of LITTLE SANTA ANITA CREEK above Sierra Madre Dam for the year ending September 30, 19 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.2	0.1	0.2	0.2	0.2	0.4	0.6	0.3	0.1	0.06	0.05
2	0.1	0.2	0.1	0.2	0.2	0.2	0.5	0.6	0.4	0.1	0.06	0.05
3	0.1	0.2	0.1	0.2	0.2	0.2	0.8	0.5	0.3	0.1	0.06	0.05
4	0.1	0.2	0.5	0.2	0.2	0.2	0.6	0.5	0.3	0.1	0.06	0.05
5	0.1	0.2	0.9	0.2	0.9	0.2	0.5	0.4	0.3	0.07	0.06	0.05
6	0.1	0.2	0.5	0.2	0.7	0.2	0.5	0.4	0.2	0.07	0.06	0.05
7	0.1	0.2	0.4	0.2	0.5	0.2	0.5	0.4	0.2	0.07	0.04	0.05
8	0.1	0.2	0.4	0.2	0.4	0.2	0.5	0.4	0.2	0.07	0.04	0.05
9	0.1	0.2	0.3	0.2	0.3	0.2	0.4	0.4	0.2	0.07	0.04	0.05
10	0.1	0.2	0.3	0.2	0.3	0.2	0.5	0.4	0.2	0.07	0.04	0.04
11	0.2	0.2	0.3	0.2	0.2	0.2	0.5	0.3	0.2	0.07	0.04	0.04
12	0.2	0.2	0.3	0.2	0.2	0.2	0.4	0.3	0.2	0.07	0.05	0.04
13	0.2	0.2	0.3	0.2	0.2	0.5	0.4	0.3	0.2	0.07	0.05	0.04
14	0.2	0.2	0.3	0.2	0.2	0.5	0.4	0.3	0.2	0.07	0.05	0.04
15	0.2	0.2	0.3	0.2	0.2	0.5	0.3	0.3	0.2	0.07	0.05	0.04
16	0.2	0.2	0.3	0.2	0.2	0.4	0.3	0.2	0.2	0.07	0.05	0.04
17	0.2	0.2	0.3	0.2	0.2	0.6	0.3	0.2	0.2	0.07	0.05	0.04
18	0.2	0.1	0.2	0.2	0.2	0.4	0.3	0.2	0.2	0.08	0.05	0.04
19	0.2	0.1	0.2	0.2	0.2	0.4	0.3	0.2	0.2	0.08	0.05	0.04
20	0.2	0.1	0.2	0.2	0.2	0.4	0.3	0.2	0.2	0.08	0.05	0.05
21	0.2	0.1	0.2	0.2	0.2	0.4	0.3	0.2	0.2	0.08	0.05	0.05
22	0.2	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.08	0.05	0.05
23	0.2	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.08	0.06	0.05
24	0.2	0.1	0.2	0.2	0.2	1.1	0.3	0.2	0.2	0.08	0.06	0.06
25	0.1	0.1	0.2	0.2	0.2	0.8	0.2	0.2	0.2	0.07	0.06	0.06
26	0.1	0.1	0.2	0.2	0.2	0.6	0.2	0.2	0.2	0.07	0.06	0.06
27	0.1	0.1	0.2	0.2	0.2	0.5	0.2	0.2	0.2	0.07	0.06	0.05
28	0.1	0.1	0.2	0.2	0.3	0.5	2.0	0.2	0.2	0.07	0.06	0.05
29	0.2	0.1	0.2	0.2	0.2	0.5	1.4	0.2	0.1	0.06	0.04	0.05
30	0.2	0.1	0.2	0.2		0.5	0.8	0.2	0.1	0.06	0.04	0.05
31	0.2		0.2	0.2		0.4		0.2		0.06	0.04	
	4.8	4.7	8.5	6.2	7.8	12.0	14.7	9.3	6.4	2.33	1.59	1.25
MEAN	0.15	0.16	0.27	0.20	0.27	0.39	0.49	0.30	0.21	.075	.051	.042
ACRE-FEET	9.5	9.3	17	12	15	24	29	18	13	4.6	3.2	2.5

Remarks:

YEAR OR PERIOD MEAN 0.217
ACRE-FEET 157

F. C. Dist. Form 82 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U3-R

Daily discharge, in second-feet of Little Santa Anita Creek above Sierra Madre Dam, for the year ending September 30, 19 49

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.06	0.1	0.1	0.2	0.3	0.8	0.4	0.3	0.3	0.1	0.05	0.02
2	0.06	0.1	0.1	0.2	0.3	0.7	0.4	0.3	0.3	0.1	0.05	0.02
3	0.06	0.1	0.1	0.2	0.3	0.7	0.4	0.3	0.2	0.1	0.05	0.02
4	0.06	0.1	0.1	0.2	0.3	0.9	0.4	0.3	0.2	0.1	0.05	0.02
5	0.06	0.1	0.1	0.2	0.3	0.9	0.4	0.3	0.2	0.1	0.05	0.02
6	0.06	0.1	0.1	0.2	0.3	0.8	0.4	0.3	0.2	0.1	0.06	0.02
7	0.06	0.1	0.1	0.2	0.4	0.8	0.4	0.3	0.2	0.1	0.06	0.02
8	0.06	0.08	0.1	0.2	0.3	0.7	0.4	0.2	0.2	0.1	0.06	0.02
9	0.06	0.08	0.1	0.2	0.3	0.7	0.4	0.2	0.2	0.1	0.06	0.02
10	0.06	0.08	0.1	0.2	0.3	0.7	0.4	0.2	0.2	0.1	0.06	0.02
11	0.06	0.08	0.1	0.2	0.6	1.1	0.3	0.2	0.2	0.1	0.06	0.02
12	0.06	0.08	0.1	0.2	0.5	0.8	0.3	0.2	0.2	0.1	0.06	0.03
13	0.06	0.08	0.1	0.3	0.4	0.7	0.3	0.2	0.2	0.1	0.06	0.03
14	0.06	0.08	0.1	0.3	0.4	0.7	0.3	0.2	0.2	0.1	0.06	0.03
15	0.08	0.08	0.1	0.3	0.4	0.7	0.3	0.2	0.1	0.08	0.06	0.03
16	0.08	0.08	0.1	0.2	0.4	0.6	0.3	0.3	0.1	0.08	0.06	0.03
17	0.08	0.08	0.4	0.2	0.3	0.6	0.3	0.4	0.2	0.08	0.04	0.03
18	0.08	0.08	0.2	0.2	0.3	0.5	0.3	0.6	0.2	0.08	0.04	0.03
19	0.08	0.08	0.2	0.4	0.3	0.6	0.3	0.9	0.1	0.08	0.04	0.03
20	0.08	0.08	0.2	1.7	0.3	0.6	0.3	0.6	0.1	0.08	0.04	0.03
21	0.08	0.08	0.2	0.8	0.3	0.5	0.3	0.5	0.1	0.07	0.04	0.02
22	0.08	0.1	0.2	0.8	0.3	0.5	0.3	0.4	0.1	0.07	0.04	0.02
23	0.06	0.1	0.2	0.7	0.3	0.5	0.2	0.3	0.1	0.07	0.04	0.02
24	0.08	0.08	0.2	0.6	0.7	0.5	0.2	0.3	0.1	0.07	0.03	0.02
25	0.06	0.08	0.2	0.5	0.6	0.5	0.2	0.3	0.1	0.07	0.03	0.02
26	0.08	0.08	0.3	0.4	0.9	0.5	0.2	0.3	0.1	0.07	0.03	0.02
27	0.08	0.08	0.5	0.4	1.1	0.5	0.2	0.2	0.2	0.07	0.03	0.02
28	0.08	0.08	0.3	0.4	0.9	0.5	0.2	0.3	0.2	0.06	0.02	0.02
29	0.1	0.08	0.2	0.3		0.4	0.2	0.3	0.2	0.06	0.02	0.02
30	0.1	0.08	0.2	0.3		0.4	0.2	0.3	0.1	0.06	0.02	0.02
31	0.1		0.2	0.3		0.4		0.3		0.06	0.02	
	2.26	2.58	5.30	11.50	12.10	19.80	9.20	10.00	5.10	2.61	1.38	0.69
MEAN	.073	.086	0.17	0.37	0.43	0.64	0.31	0.32	0.17	.084	.045	.023
ACRE-FEET	4.5	5.1	11.	23.	24.	39.	18.	20.	10.	5.2	2.7	1.4

Remarks:

YEAR OR PERIOD MEAN 0.226
ACRE-FEET 164

STATION F67B-R

LITTLE SANTA ANITA CREEK below Sierra Madre Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°10'33", LONG. 118°02'33", ON THE LEFT (EAST) BANK ABOUT 270 FEET BELOW SIERRA MADRE DAM AND ABOUT 1 1/4 MILES NORTHEAST OF SIERRA MADRE. ELEVATION OF ZERO GAGE HEIGHT 1082.69 FEET.

DRAINAGE AREA: 2.4 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - RUBBLE MASONRY, DEPTH 7.5 FEET, WIDTH 24.6 FEET AT TOP AND 22.5 FEET AT BOTTOM. ARTIFICIAL CONCRETE CONTROL WITH LOW FLOW CHANNEL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING NEAR STATION. HIGH FLOWS MEASURED FROM FOOTBRIDGE AT STATION.

RECORDER: INSTALLED JANUARY 28, 1929 AT STATION F67-R ABOUT 1000 FEET DOWNSTREAM FROM PRESENT LOCATION. REMOVED MAY 20, 1936. REINSTALLED MAY 21, 1936 IN A 4-FT. X 3 FT. COMBINATION CONCRETE STILLING WELL AND HOUSE. AN H.C.F. RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: THE 30-INCH DIAMETER GATE VALVE IN THE SIERRA MADRE DAM REMAINS OPEN EXCEPT IN EMERGENCY CONDITIONS.

DIVERSIONS: UNDERGROUND AND SURFACE FLOW DEVELOPED AND DIVERTED BY SIERRA MADRE WATER DEPARTMENT.

RECORDS AVAILABLE:
AT STATION F67-R - JANUARY 28, 1929 TO MAY 20, 1936.
AT STATION F67B-R - MAY 21, 1936 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:
1947-1948
MAXIMUM 11 SECOND-FEET, APRIL 28.
MINIMUM NO FLOW MOST OF YEAR.
1948-1949
MAXIMUM 1.6 SECOND-FEET, MARCH 11.
MINIMUM NO FLOW MOST OF YEAR.
1929-1949
MAXIMUM 620 SECOND-FEET, ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW SEVERAL MONTHS DURING MOST YEARS.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

DISCHARGE MEASUREMENTS OF LITTLE SANTA ANITA CREEK

AT OR NEAR Below Sierra Madre Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
235	3-24	2011 / 2017	HAIG - QUADRAZ	1.0	0.12	7.83		0.94		SURF.	4	0	FC5
236	4-29	0840 / 0845	MOON	1.5	0.60	1.83		1.1		.5	3	0	FC22

F. C. Dist. Form 82 4-46

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, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0.1	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0.3	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0.4	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0.9	0	0	0	0	0
29	0	0	0	0	0	0	1.6	0	0	0	0	0
30	0	0	0	0		0	0.3	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	0.3	0	0	0.4	2.8	0.1	0	0	0	0
MEAN	0	0	0.01	0	0	0.01	0.09	.003	0	0	0	0
ACRE-FEET	0	0	0.6	0	0	0.8	5.6	0.2	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN 0.01
ACRE-FEET 7.2

F. C. Dist. Form 82 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

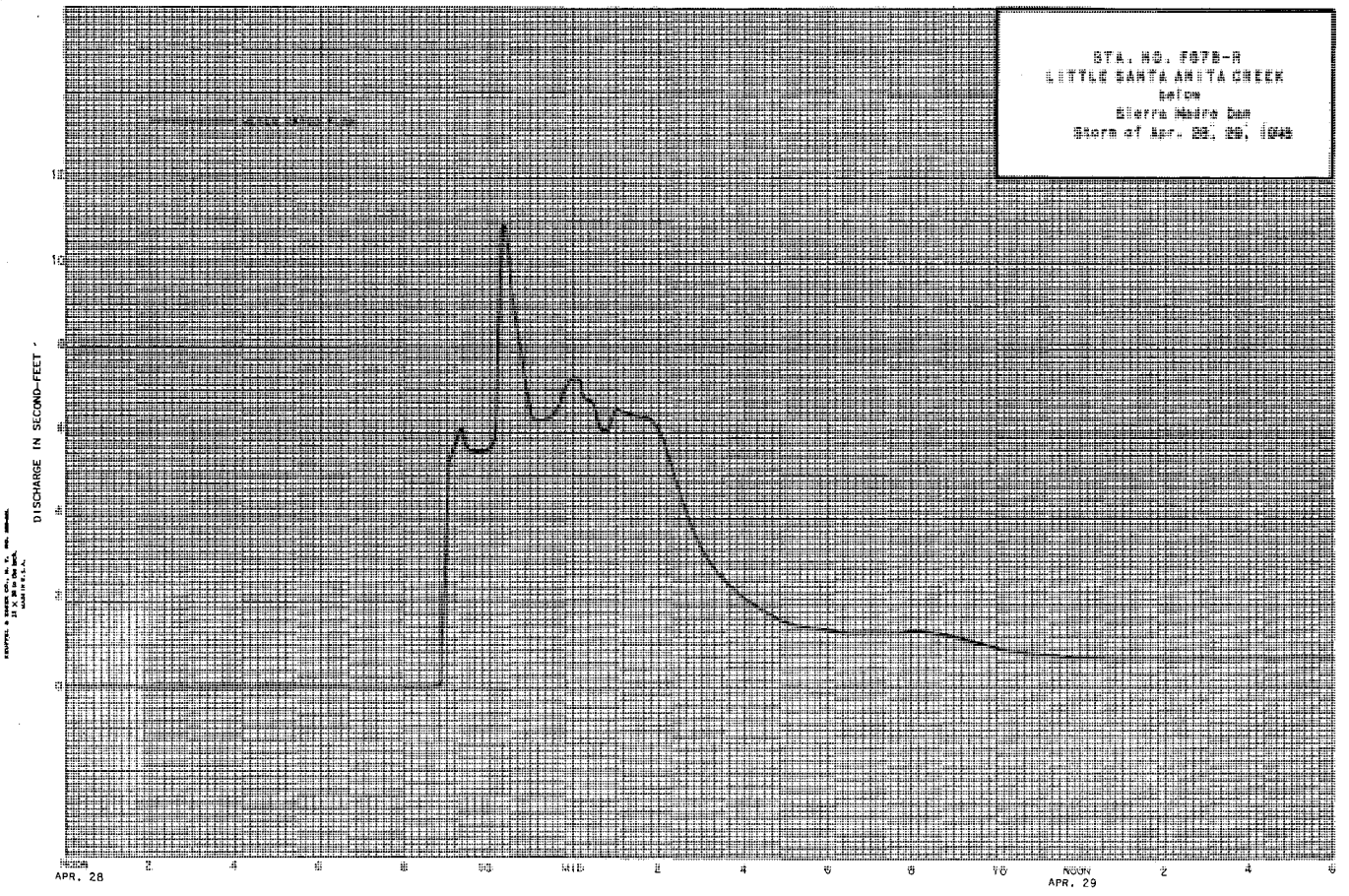
Sta. No. F67B-R

Daily discharge, in second-feet of LITTLE SANTA CREEK below Sierra Madre Dam, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0.1	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	0	0.1	0	0	0	0	0	0	0	0
MEAN	0	0	0	.003	0	0	0	0	0	0	0	0
ACRE-FEET	0	0	0	0.2	0	0	0	0	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN +
ACRE-FEET 0.2



STATION F267-R
LITTLE SANTA ANITA CREEK at Woodland Avenue

LOCATION: WATER-STAGE RECORDER, LAT. 34°09'19", LONG. 118°01'41", ON THE LEFT (NORTHEAST) CHANNEL WALL ABOUT 30 FEET UPSTREAM FROM SANTA ANITA WASH, ABOUT 20 FEET EAST OF THE INTERSECTION OF WOODLAND AVENUE AND FIRST ST. AND ABOUT ONE MILE NORTH OF ARCADIA. ELEVATION OF ZERO GAGE HEIGHT, 557.22 FEET.

DRAINAGE AREA: 3.8 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - RECTANGULAR CONCRETE, 6 FEET DEEP AND 10 FEET WIDE. CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM DOWNSTREAM ROAD CULVERT HEADWALL AT STATION.

RECORDER: INSTALLED DECEMBER 30, 1938 OVER AN 18-INCH DIAMETER CORRUGATED IRON PIPE STILLING WELL. A STEVENS TYPE L RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

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 FOR ABOUT ONE MILE ABOVE STATION FOR SPREADING IN SIERRA MADRE SPREADING GROUNDS.

RECORDS AVAILABLE: SEE REMARKS.

EXTREMES OF DISCHARGE:
1947-1949
MAXIMUM 76 SECOND-FEET, MARCH 13.
MINIMUM NO FLOW MOST OF YEAR.
1948-1949
MAXIMUM 43 SECOND-FEET, MARCH 4.
MINIMUM NO FLOW MOST OF YEAR.
1938-1949
MAXIMUM NOT DETERMINED, MARCH 2, 1938.
MAXIMUM DISCHARGE OF RECORD, 542 SECOND-FEET, JANUARY 22, 1943.
MINIMUM NO FLOW MOST OF EACH YEAR.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

REMARKS: SEVERAL PRIOR YEARS' RECORDS ARE NOT PUBLISHED, DUE TO INSUFFICIENT RELIABLE RECORDS.

DISCHARGE MEASUREMENTS OF LITTLE SANTA ANITA CREEK

AT ~~NEAR~~ Woodland Avenue DURING THE YEAR ENDING SEPTEMBER 30, 19 46

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
75	3-24	1615 / 1625	HAIG - CUADRAZ	10.0	0.80	3.50	4.10	2.8		SURF.	7	0	FC5

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F267-R

Daily discharge, in second-feet of LITTLE SANTA ANITA CREEK at Woodland Avenue, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0.3	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	6.2	0	0	0	0	0	0	0	0	0
5	0	0	3.7	0	3.6	0	0	0	0	0	0	0
6	0	0	0	0	0.8	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	2.9	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0.6	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	2.8	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	4.2	0	0	0	0	0
29	0	0	0	0	0	0	1.5	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	9.9	0.3	4.4	6.3	5.7	0	0	0	0	0
MEAN	0	0	0.32	0.01	0.15	0.20	0.19	0	0	0	0	0
ACRE-FEET	0	0	20.	0.6	8.7	12.	11.	0	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN 0.07
ACRE-FEET 52.

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

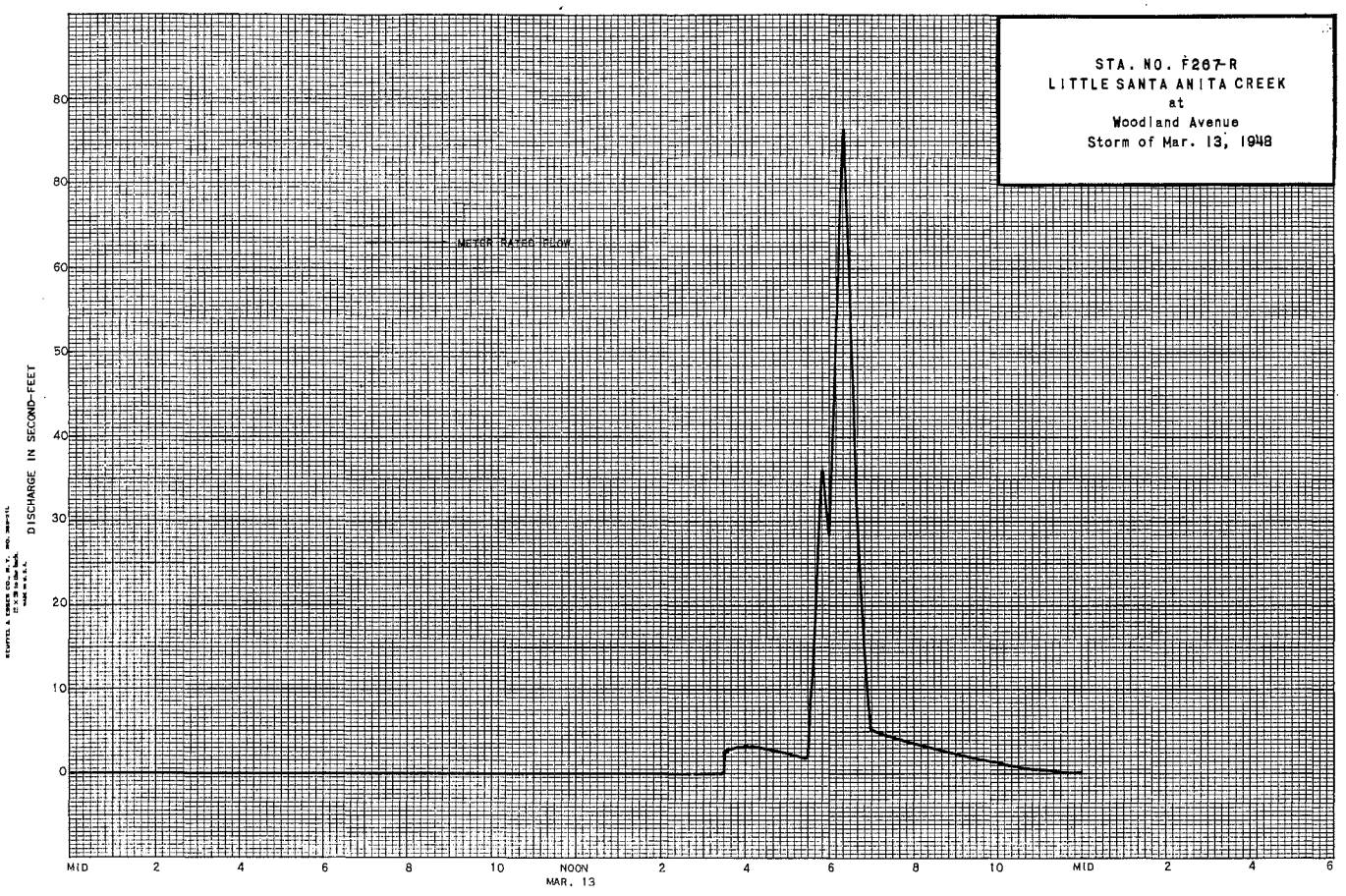
Sta. No. F267-R

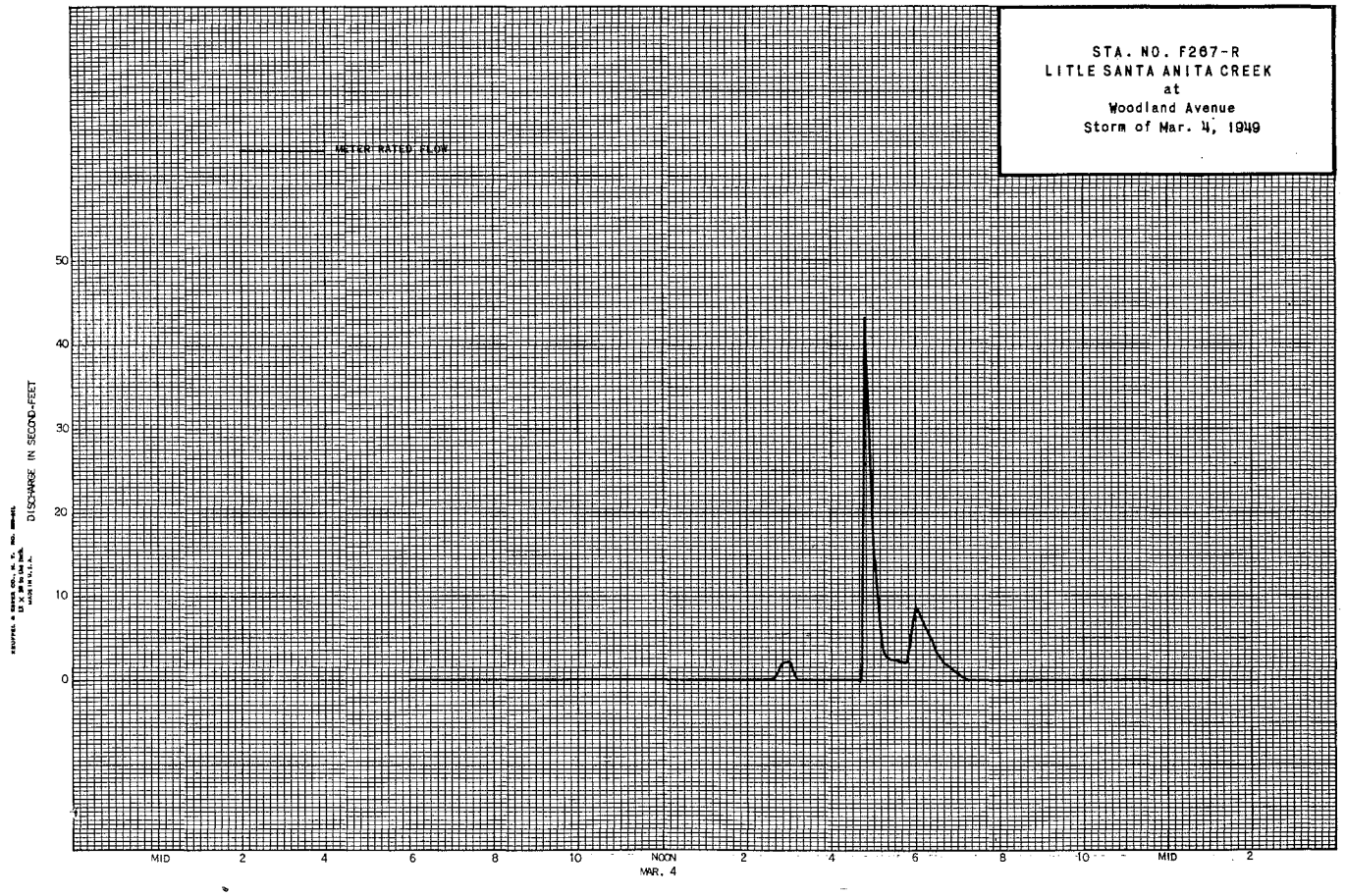
Daily discharge, in second-feet of LITTLE SANTA ANITA CREEK at Woodland Avenue, for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0.7	0	0.4	0	0	0	0	0	0	0
4	0	0	0	0	0	0.7	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0.1	0.4	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0.3	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0.4	0	0	0	0	0	0
11	0	0	0	0	0.5	0.3	0	0	0	0	0	0
12	0	0	0	0.1	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0.4	0	0	0	0	0	0	0	0	0
17	0	0	1.1	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0.6	0	0.1	0	0.2	0	0	0	0
20	0	0	0	0.6	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0.1	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0.3	0	0	0	0	0	0	0
25	0	0	0	0	0.1	0	0	0	0	0	0	0
26	0	0	0.8	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0.2	0	0	0	0	0	0	0
28	0	0	0	0	0.2	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0.3	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0.3	0	3.1	1.6	1.8	1.9	0	0.2	0	0	0	0
MEAN	0.01	0	0.10	0.52	.064	.061	0	.006	0	0	0	0
ACRE-FEET	0.6	0	6.1	3.2	3.6	3.8	0	0.4	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN .024
ACRE-FEET 18.


STA. NO. F267-R
LITTLE SANTA ANITA CREEK
at
Woodland Avenue
Storm of Mar. 13, 1948
METER RATED FLOW
DISCHARGE IN SECOND-FEET
80
80
60
50
40
30
20
10
0
MID
2
4
6
8
10
NOON
2
4
6
8
10
MID
2
4
6
MAR. 13


STA. NO. F267-R
LITLE SANTA ANITA CREEK
at
Woodland Avenue
Storm of Mar. 4, 1949
METER RATED FLOW
DISCHARGE IN SECOND-FEET
50
40
30
20
10
0
MID
2
4
6
8
10
NOON
2
4
6
8
10
MID
2
MAR. 4

STATION F19-R
LITTLE TUJUNGA WASH at Foothill Boulevard

LOCATION: WATER-STAGE RECORDER, LAT. 34°16'28", LONG. 118°22'20", ON DOWNSTREAM SIDE OF FOOTHILL BOULEVARD BRIDGE, 4 MILES EAST OF SAN FERNANDO, ELEVATION OF ZERO GAGE HEIGHT, 1067.89 FEET.

DRAINAGE AREA: 21.0 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - SAND AND SILT. CONCRETE CONTROL BELOW GAGE.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM HIGHWAY BRIDGE.

RECORDER: INSTALLED DECEMBER 1928. OVER AND18-INCH DIAMETER CORRUGATED IRON PIPE STILLING WELL. AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: NONE.

DIVERSIONS: NONE KNOWN.

RECORDS AVAILABLE: DECEMBER 26, 1928 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:

1947-1948
MAXIMUM 16.4 SECOND-FEET, MARCH 24.
MINIMUM NO FLOW MOST OF YEAR.

1948-1949
MAXIMUM 0.9 SECOND-FOOT, MAY 19.
MINIMUM NO FLOW MOST OF YEAR.

1929-1949
MAXIMUM 8,500 SECOND-FEET, ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW PART OF EACH YEAR.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

DISCHARGE MEASUREMENTS OF LITTLE TUJUNGA WASH

~~AT~~ NEAR Foothill Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
406	3-25	1320 / 1323	TURNER	1.0	0.14	0.86	2.96	0.12		.5	1	0	FC43
407	4-29	1803 / 1805	TURNER	0.9	0.11	1.00	2.98	0.11		.5	1	0	"

DISCHARGE MEASUREMENTS OF LITTLE TUJUNGA WASH

~~AT~~ NEAR Foothill Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
408	5-19	0822 / 0825	TURNER	2.8	0.54	1.65	3.13	0.89		.5	4	0	FC43

F. C. Dist. Form 52 4-45

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F19-R

Daily discharge, in second-feet of LITTLE TUJUNGA WASH at Foothill Boulevard, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0.1	0	+	0	0	0	0	0	0	0
6	0	0	0	0	+	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	+	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	2.6	0	0	0	0	0	0
25	0	0	0	0	0	0.6	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	+	0	0	0	0	0
29	0	0	0	0	0	0	1.3	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	0.1	0	+	3.2	1.3	0	0	0	0	0
MEAN	0	0	+	0	+	0.10	0.04	0	0	0	0	0
ACRE-FEET	0	0	.2	0	+	6.3	2.6	0	0	0	0	0

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

YEAR OR PERIOD MEAN 0.01
ACRE-FEET 9.1

F. C. Dist. Form 63 4-48

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

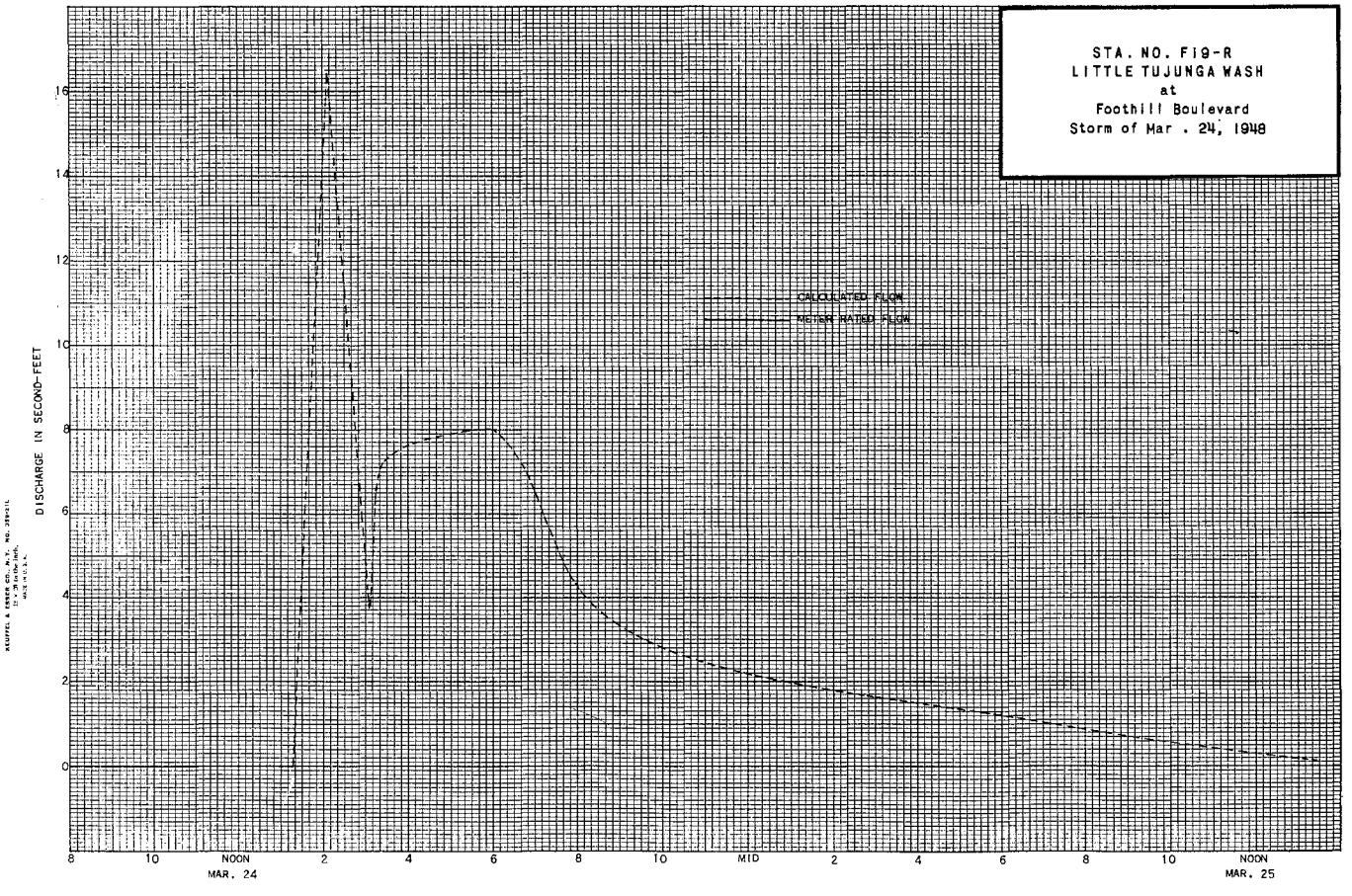
Sta. No. F19-R

Daily discharge, in second-feet of Little Tujunga Wash at Foothill Boulevard for the year ending September 30, 19 49

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	+	0	0	0	0	0	0	0	0	0
17	0	0	+	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0.1	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	+	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0		0	0	0	0	0.1	0	0	0	0
MEAN	0	0	+	0	0	0	0	+	0	0	0	0
ACRE-FEET	0	0	+	0	0	0	0	0.2	0	0	0	0

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

YEAR OR PERIOD MEAN 0+
ACRE-FEET 0.2



STATION F31-R
LIVE OAK CREEK near Mouth of Canyon

LOCATION: WATER-STAGE RECORDER, LAT. 34°07'34", LONG. 117°44'37", ON THE RIGHT (WEST BANK OF STREAM NEAR MOUTH OF CANYON ABOUT 0.5 MILE BELOW LIVE OAK DAM, AND ABOUT 2 MILES NORTHEAST OF LA VERNE. ELEVATION OF GAGE, ABOUT 1,335 FEET.

DRAINAGE AREA: 2.6 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - SAND, GRAVEL AND ROCKS. CONTROL - CONCRETE WITH A 2-FOOT CIPOLLETTI WEIR 12 INCHES DEEP.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM BRIDGE 350 FEET BELOW STATION.

RECORDER: INSTALLED JANUARY 4, 1928 IN A CONCRETE HOUSE OVER A 3 FT. X 4 FT. CONCRETE STILLING WELL. AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: FLOW REGULATED BY LIVE OAK DAM.

DIVERSIONS: NONE.

RECORDS AVAILABLE: JANUARY 4, 1928 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:
- 1947-1948
  - NO FLOW FOR THE ENTIRE YEAR.
- 1948-1949
  - NO FLOW FOR THE ENTIRE YEAR.
- 1928-1949
  - MAXIMUM 257 SECOND-FEET, MARCH 2, 1938.
  - MINIMUM NO FLOW MOST OF EACH YEAR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

STATION F5B-R
LOS ANGELES RIVER below Sepulveda Boulevard

LOCATION: WATER-STAGE RECORDER, LAT. 34°09'42", LONG. 118°27'45", ON THE LEFT (NORTH) BANK ABOUT 700 FEET BELOW SEPULVEDA BOULEVARD AND ABOUT 0.5 MILE BELOW SEPULVEDA DAM. ELEVATION OF ZERO GAGE HEIGHT, 654.31 FEET.

DRAINAGE: 157 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - NATURAL ADOBE OVERGROWN WITH GRASS, REEDS AND TREES OURING SUMMER MONTHS. CONTROL - CONCRETE SLAB AT GAGE.

DISCHARGE MEASUREMENTS: AT STATION F5B-R - LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM CABLE CAR 7 FEET ABOVE GAGE.

RECORDER: INSTALLED DECEMBER 19, 1928 AT STATION F5-R. REMOVED MARCH 2, 1938. REINSTALLED APRIL 28, 1938. MOVED TO STATION F5B-R ON AUGUST 23,1941 AND INSTALLED OVER A 24-INCH DIAMETER, CORRUGATED IRON PIPE STILLING WELL. COMMUNICATION TO WELL IS THROUGH 31 FEET OF 36-INCH CORRUGATED IRON PIPE. AN AU CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: INFLOW TO SEPULVEDA DAM PARTIALLY REGULATED BY CHATSWORTH RESERVOIR, UPPER AND LOWER SAN FERNANDO RESERVOIRS, TWIN LAKES DAMS, ENCINO RESERVOIR AND SEVERAL SMALL DAMS IN VARIOUS MOUNTAIN TRIBUTARIES. DISCHARGE LESS THAN 1,000 SECOND-FEET PASSES UNRESTRICTED THROUGH UNGATED OPENINGS OF SEPULVEDA DAM. DISCHARGE ABOVE 1,000 SECOND-FEET REGULATED BY SEPULVEDA DAM.

DIVERSIONS: SEVERAL DIVERSIONS FOR IRRIGATION ON THE MOUNTAIN TRIBUTARIES. SEVERAL WATER SUPPLY RESERVOIRS DIVERT AND/OR RELEASE FLOW. FLOW MAY INCLUDE IRRIGATION WASTE AT VARIOUS TIMES.

RECORDS AVAILABLE:
- AT STATION F5-R - DECEMBER 19, 1928 TO MARCH 3, 1938, AND FROM APRIL 28, 1938 TO AUGUST 23, 1941.
- AT STATION F5B-R - AUGUST 23, 1941 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:
- 1947-1948
  - MAXIMUM 284 SECOND-FEET, MARCH 24.
  - MINIMUM 5.2 SECOND-FEET, VARIOUS TIMES.
- 1948-1949
  - MAXIMUM 149 SECOND-FEET, DECEMBER 17.
  - MINIMUM 3.0 SECOND-FEET, SEPTEMBER 29.
- 1929-1949
  - MAXIMUM 12,000 SECOND-FEET, ESTIMATED MARCH 2, 1938.
  - MINIMUM FLOW NEGLIGIBLE AT VARIOUS TIMES.

ACCURACY: RECORDS FAIR.

OPERATION: LOCATED AND CONSTRUCTED BY THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY, OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY, AND THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

AT OR NEAR below Sepulveda Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN	END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
493	10-2	1000	1006	BLAKELY	13.7	6.84	0.98	0.55	6.7		.6	8	0	FC35
494	10-9	1005	1016	"	13.5	6.89	0.96	0.56	6.6		.6	8	0	"
495	10-16	1026	1034	"	14.2	8.07	0.97	0.56	7.8		.6	8	0	"
496	10-23	1110	1120	"	13.0	8.56	0.83	0.55	7.1		.6	8	0	"
497	10-30	1138	1146	"	13.7	6.85	0.99	0.55	6.8		.6	7	0	"
498	11-6	1007	1014	""	14.1	6.34	1.12	0.55	7.1		.6	7	0	"
499	11-13	1006	1014	"	14.2	6.98	0.97	0.55	6.8		.6	7	0	"
500	11-20	1012	1020	"	14.0	7.30	0.86	0.56	6.3		.5 .6	8	0	"
501	11-26	1007	1015	"	14.0	8.38	0.97	0.56	8.1		.5 .6	8	0	"
502	12-4	1008	1017	"	15.5	12.5	0.96	0.77	12.0		.5 .6	7	-.02	"
503	12-4	2230	2235	BLAKELY - OCAMPO	16.5	20.1	1.04	1.24	21.0		.6	6	+.02	"
504	12-5	1511	1524	" "	20.0	32.0	1.35	2.02	43.4		.6	5	-.07	"
505	12-8	1027	1035	BLAKELY	14.0	7.53	1.06	0.56	8.0		.6	7	0	"
506	12-11	1114	1120	"	13.8	6.90	1.04	0.55	7.2		.6	7	0	"
507	12-18	1025	1033	"	13.7	6.84	0.80	0.55	5.5		.6	7	0	"
508	12-26	1258	1304	"	14.0	7.00	1.04	0.55	7.3		.6	7	0	"
509	1-2	1032	1040	"	14.5	9.45	0.82	0.62	7.7		.6	7	0	"
510	1-8	1537	1552	"	21.0	45.1	1.31	2.70	59.4		.6	8	0	"
511	1-15	1311	1323	"	21.0	44.4	1.35	2.75	60.1		.6	8	0	"
512	1-22	1030	1038	"	14.0	8.02	1.10	0.57	8.8		.6	7	0	"
513	1-23	1014	1047	"	20.0	38.6	1.42	2.52	54.6		.2 .3 .3 .2	7	+.01	"
514	1-30	1029	1110	TURNER	19.0	41.3	1.42	2.61	58.5		Surf	19	0	FC43
515	2-5	1148	1215	BLAKELY	24.5	59.0	1.76	3.47	104.		.6	9	-.11	FC35
516	2-6	1430	1440	S. BLAKELY-M. BLAKELY	21.0	40.3	1.81	2.64	73.1		.6	8	+.04	"
517	2-13	1051	1102	BLAKELY	10.8	11.6	0.76	0.62	8.8		.6	9	-.06	"
518	2-19	1002	1012	"	12.5	7.50	0.93	0.54	7.0		.6	7	0	"
519	2-25	1329	1341	"	12.5	8.03	0.96	0.56	7.7		.5 .6	7	0	"
520	3-4	1041	1048	"	12.5	7.53	0.96	0.54	7.2		.5 .6	7	0	"
521	3-11	1026	1037	BLAKELY - SILL	12.5	8.09	0.89	0.56	7.2		.6	7	0	"
522	3-15	1349	1356	BLAKELY	13.0	9.10	1.01	0.60	9.2		.6	7	0	"
523	3-17	C237	0245	"	19.0	29.8	1.21	1.80	36.2		.6	5	-.10	"
524	3-25	1415	1425	MELLEN	10.5	16.2	0.91	0.98	14.8		.6	6	-.02	FC42
525	4-2	1030	1045	BOLLINGER	12.0	7.86	0.87	0.58	6.8		.6	12	0	FC6
526	4-8	1124	1130	BLAKELY	12.4	6.99	0.96	0.54	6.7		.5 .6	7	0	FC35
527	4-14	1237	1242	"	12.7	7.55	0.90	0.58	6.8		.5 .6	7	0	"
528	4-22	1010	1016	"	12.5	8.28	0.92	0.56	7.6		.5 .6	7	0	"
529	4-29	1128	1136	"	13.9	11.8	0.98	0.70	11.6		.5 .6	7	0	"
530	5-6	1225	1231	"	12.4	6.89	0.89	0.55	6.1		.5 .6	6	0	"
531	5-13	1006	1012	"	12.1	7.01	0.94	0.55	6.6		.5 .6	7	0	"
532	5-20	1028	1036	"	12.6	7.89	0.88	0.55	7.0		.5 .6	7	0	"
533	5-27	1103	1109	"	12.0	7.61	0.92	0.55	7.0		.5 .6	7	0	"
534	6-2	1054	1102	"	13.0	8.91	0.98	0.58	8.7		.5 .6	7	0	"
535	6-10	1520	1528	"	11.5	7.97	0.83	0.55	6.6		.5 .6	7	0	"
536	6-17	1030	1038	"	11.4	6.98	0.90	0.55	6.3		.6	6	0	"
537	6-24	1030	1036	"	11.2	6.82	1.01	0.55	6.9		.5 .6	6	0	"
538	6-30	1215	1223	"	12.3	7.63	0.90	0.55	6.9		.5 .6	7	0	"
539	7-9	0830	0843	BOLLINGER	10.2	9.37	0.76	0.64	7.1		.6	10	0	FC6
540	7-15	1257	1305	BLAKELY	12.3	9.20	0.87	0.58	8.0		.6	7	0	FC35
541	7-22	1000	1008	"	11.4	7.55	0.87	0.55	6.6		.6	7	0	"
542	7-29	1248	1256	"	11.8	8.47	0.90	0.55	7.6		.5 .6	6	0	"
543	8-5	1027	1033	"	11.0	7.58	0.78	0.56	5.9		.6 .6	6	0	"
544	8-11	0905	0915	BOLLINGER	11.0	8.34	0.94	0.57	7.8		.6	10	0	FC6
545	8-18	1010	1020	"	10.5	7.13	0.81	0.56	5.8		.6	10	0	"
546	8-25	0938	0949	"	10.0	8.02	0.97	0.55	7.8		.6	10	0	"
547	8-31	0912	0922	"	10.8	6.74	0.86	0.55	5.8		.6	10	0	"
548	9-8	0822	0833	"	10.2	6.24	0.93	0.55	5.8		.6	10	0	"
549	9-16	1118	1124	BLAKELY	10.0	6.93	0.79	0.56	5.5		.6	6	0	FC35
550	9-23	1103	1110	BLAKELY-VAN DER GOOT	9.5	6.44	0.87	0.56	5.6		.6	6	0	"
551	9-30	1130	1136	BLAKELY	10.0	7.24	0.72	0.55	5.2		.6	6	0	"

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

AT OR NEAR below Sepulveda Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN	END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
552	10-7	1036	1042	BLAKELY	10.5	7.35	0.91	0.56	6.7		.6	7	0	FC35
553	10-14	1020	1026	"	9.8	5.71	0.79	0.56	4.5		.6	6	0	"
554	10-21	1003	1009	"	10.0	6.30	0.95	0.56	6.0		.6	6	0	"
555	10-28	1004	1010	"	10.2	6.69	0.97	0.55	6.5		.6	6	0	"
556	11-4	1040	1048	"	10.5	7.27	1.04	0.55	7.6		.6	6	0	"
557	11-10	0933	0939	"	10.0	5.88	0.94	0.55	5.5		.6	6	0	"
558	11-18	1030	1036	"	10.0	6.21	0.97	0.55	6.0		.6	6	0	"
559	11-24	1005	1011	"	10.0	6.40	0.84	0.56	5.4		.6	6	0	"
560	12-2	1013	1019	"	10.0	6.29	0.88	0.56	5.5		.6	6	0	"
561	12-7	1451	1457	"	10.0	6.59	0.88	0.56	5.8		.6	6	0	"
562	12-9	1028	1104	"	19.3	37.3	1.43	2.28	53.4		.2 .8	10	-.01	"
563	12-15	1350	1410	"	20.5	38.8	1.41	2.30	54.6		.2 .8	10	0	"
564	12-17	0407	0431	"	24.0	68.8	1.77	3.63	122.		.6	11	+.09	"
565	12-23	1123	1141	"	20.7	35.6	1.54	2.23	54.8		.2 .8	10	0	"
566	12-30	1044	1052	"	9.5	7.73	1.00	0.57	7.7		.6	8	0	"
567	1-6	1010	1018	BLAKELY - BOTTS	8.8	7.58	0.86	0.57	6.5		.6	8	0	"
568	1-13	1114	1123	BLAKELY - PARDIECK	10.7	11.6	0.87	0.67	10.1		.6	10	0	"
569	1-20	0050	0057	BLAKELY - SCHUMAKER	17.5	23.6	0.80	1.45	18.8		.6	8	0	"
570	1-28	1035	1043	BLAKELY	14.6	13.6	0.43	1.08	5.8		.6	8	0	"
571	2-3	1019	1029	"	16.0	19.9	0.72	1.32	14.4		.6	9	-.03	"
572	2-10	1140	1200	"	9.0	12.7	0.44	1.07	5.6		.2 .8	10	0	"
573	2-17	1131	1139	"	8.8	3.04	1.97	1.06	6.0		.6	8	-.01	"
574	2-24	0907	0925	WILLUT - BLAKELY	8.5	11.8	0.64	1.06	7.5		.6	10	0	"
575	3-3	1134	1142	BLAKELY	15.0	17.0	0.39	1.10	6.6		.6	8	0	"
576	3-11	0100	0106	BLAKELY - JOHNSON	16.0	21.8	0.64	1.20	13.9		.6	8	-.04	"
577	3-17	1100	1106	BLAKELY - DIAS	12.2	7.86	0.85	1.09	6.7		.6	8	0	"
578	3-24	1011	1017	BLAKELY - LANG	11.8	8.05	0.89	1.09	7.2		.6	8	+.01	"
579	3-31	1020	1028	BLAKELY	12.0	6.80	0.93	1.03	6.3		.5 .6	8	0	"
580	4-7	0935	0943	"	12.0	6.40	0.91	1.03	5.8		.6	8	0	"
581	4-14	1015	1023	"	12.0	7.19	0.89	1.01	6.4		.5 .6	8	0	"
582	4-21	1019	1025	"	11.7	7.41	0.92	1.03	6.4		.5 .6	8	-.01	"
583	4-28	1103	1109	BLAKELY - JOHNSON	11.5	7.16	0.84	1.01	6.0		.5 .6	8	0	"
584	5-5	1034	1040	BLAKELY	9.5	8.20	0.93	1.07	7.6		.6	7	0	"
585	5-12	1504	1510	"	11.3	7.05	0.91	1.03	6.4		.6	6	0	"
586	5-18	1426	1434	"	9.5	8.27	0.97	1.05	8.0		.6	9	0	"
587	5-26	1003	1011	"	9.6	7.05	0.92	1.00	6.5		.6	10	0	"
588	6-2	1248	1256	"	9.5	6.95	0.95	1.00	6.6		.6	7	0	"
589	6-9	1023	1030	BLAKELY - MIRON	9.5	7.59	0.96	1.05	7.3		.6	7	0	"
590	6-15	0833	0846	BOLLINGER	11.6	6.41	0.76	0.96	4.9		.6	10	0	FC6
591	6-22	0912	0926	BOLLINGER	11.0	7.85	0.78	0.98	6.1		.6	10	0	"
592	6-30	1118	1124	BLAKELY	10.3	7.63	0.81	0.98	6.3		.6	6	0	FC35
593	7-7	0944	0952	"	9.8	8.85	0.82	1.05	7.3		.6	7	0	"
594	7-14	1727	1733	"	9.8	8.44	0.87	1.03	7.3		.6	7	0	"
595	7-21	1126	1134	"	9.8	7.98	0.89	1.03	7.1		.6	7	0	"
596	7-27	0750	0803	BOLLINGER	13.0	8.07	0.77	1.04	6.2		.6	11	0	FC6
597	8-3	0850	0910	"	10.0	8.13	0.80	1.02	6.5		.6	10	0	"
598	8-11	1038	1046	BLAKELY	9.7	7.33	0.94	1.01	6.9		.6	7	0	FC35
599	8-18	1004	1010	"	9.7	7.85	0.94	1.03	7.4		.6	6	0	"
600	8-25	1038	1044	"	9.6	6.28	0.86	0.95	5.4		.6	7	0	"
601	9-1	1048	1056	"	9.7	6.89	0.93	0.98	6.4		.6	8	0	"
602	9-8	1510	1516	"	9.7	5.78	0.81	0.93	4.7		.6	7	0	"
603	9-15	0900	0915	BOLLINGER	8.6	6.12	0.63	0.98	5.1		.6	9	0	FC6
604	9-21	1120	1135	"	8.7	5.04	0.81	0.95	4.9		.6	9	0	"
605	9-29	1026	1034	BLAKELY	9.7	4.98	0.76	0.92	3.8		.6	9	0	FC35

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F58-R

Daily discharge, in second-feet of LOS ANGELES RIVER below Sepulveda Blvd., for the year ending September 30, 19 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.6	7.0	7.6	a 7.7	58	7.8	a 7.1	8.4	7.4	6.8	6.8	5.8
2	6.6	7.1	7.6	a 7.7	59	7.8	a 6.8	7.9	8.5	6.8	6.5	5.8
3	7.1	7.1	7.8	7.1	59	7.5	7.3	7.3	7.8	6.8	6.4	5.8
4	7.0	7.3	10	6.9	58	7.3	6.8	6.9	7.1	6.8	6.1	5.8
5	6.8	7.8	23	6.9	79	7.8	6.6	6.5	7.0	6.8	5.7	5.8
6	6.6	7.3	15	7.1	72	7.8	6.5	6.1	6.6	6.9	6.0	5.8
7	6.6	7.3	8.3	7.1	59	7.8	6.6	6.1	6.8	6.9	6.2	5.8
8	6.6	7.3	7.8	57	59	7.6	6.6	6.1	6.6	6.9	6.5	5.8
9	6.6	7.1	7.6	60	60	7.2	6.5	6.2	6.8	6.9	6.9	5.8
10	6.8	7.1	7.3	60	62	7.1	6.5	6.6	6.6	6.8	7.2	5.7
11	7.0	7.0	7.3	61	65	7.2	6.5	6.5	6.6	7.1	7.6	5.7
12	7.0	7.0	7.1	60	55	7.6	6.5	6.6	6.9	7.2	7.5	5.7
13	7.3	7.0	7.1	60	11	11	6.4	6.6	6.5	7.5	7.2	5.7
14	7.4	7.0	7.3	60	8.5	15	6.6	6.5	6.4	7.2	6.6	5.6
15	7.6	6.8	7.3	57	8.2	10	6.5	6.5	6.4	7.3	6.5	5.5
16	7.8	6.6	7.1	36	7.9	9.4	6.8	6.6	6.2	7.3	6.0	5.5
17	7.4	6.5	7.3	16	7.5	17	6.9	6.8	6.2	7.3	5.8	5.5
18	7.4	6.3	7.3	9.5	7.2	8.8	6.9	6.9	6.2	7.3	5.7	5.5
19	7.4	6.2	7.3	9.3	7.2	8.5	7.1	7.1	6.4	6.6	6.1	5.3
20	7.4	6.3	7.3	8.9	7.1	8.0	7.2	7.1	6.5	6.5	6.4	5.5
21	7.4	6.5	7.3	8.9	7.2	7.8	7.3	7.1	6.6	6.5	6.6	5.5
22	7.3	6.8	7.3	8.9	7.3	7.8	7.6	7.1	6.8	6.5	6.9	5.5
23	7.3	7.1	7.3	4.2	7.3	7.9	7.5	7.3	7.1	6.8	7.3	5.5
24	7.3	7.4	7.3	5.7	7.7	8.3	7.5	7.3	6.9	6.9	7.6	5.5
25	7.3	7.9	7.3	5.8	7.7	2.4	7.5	7.1	6.9	7.1	7.8	5.5
26	7.1	8.1	a 7.3	5.4	11	9.6	7.3	7.1	6.9	7.2	7.5	5.3
27	7.1	7.9	7.3	5.4	16	8.5	7.2	7.1	6.9	7.3	7.1	5.3
28	7.0	7.9	7.4	5.6	15	a 7.9	9.7	7.1	7.1	7.5	6.8	5.2
29	7.0	7.9	7.5	5.7	7.9	7.7	11	7.1	6.9	7.6	6.4	5.2
30	7.0	7.8	7.5	5.8		7.5	9.6	7.1	6.8	7.3	6.1	5.2
31	7.0		a 7.6	5.8		a 7.3		7.1		7.1	5.8	
	219.8	214.4	255.5	1117.0	896.7	357.2	216.9	213.8	204.4	217.5	205.6	167.1
MEAN	7.09	7.15	8.24	36.0	30.9	11.5	7.23	6.90	6.81	7.02	6.63	5.57
ACRE-FEET	436.	425.	507.	2220.	1780.	710.	430.	424.	405.	431.	408.	331.

Remarks:

YEAR OR PERIOD MEAN 11.7
ACRE-FEET 8,510

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

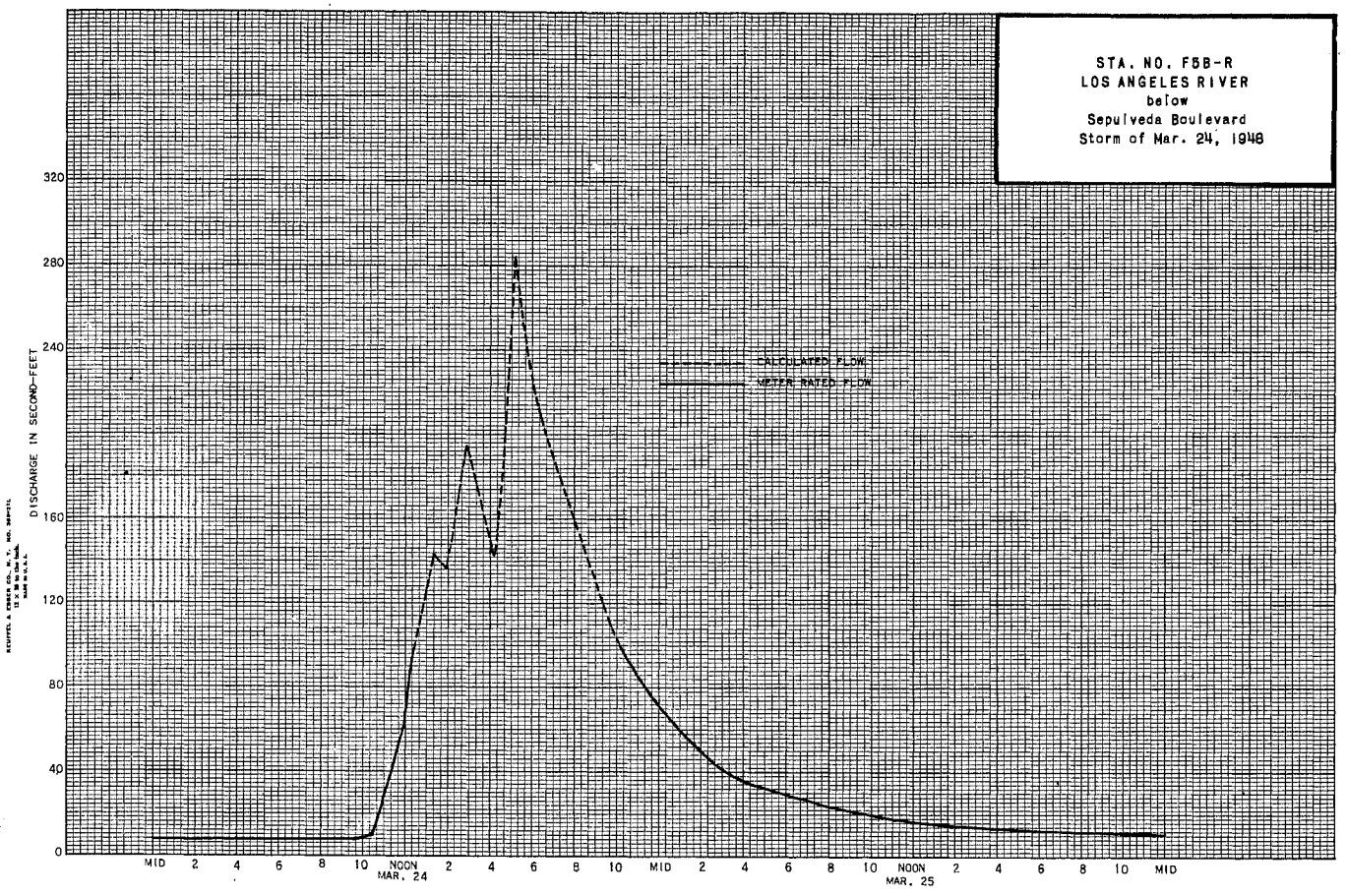
Sta. No. F58-R

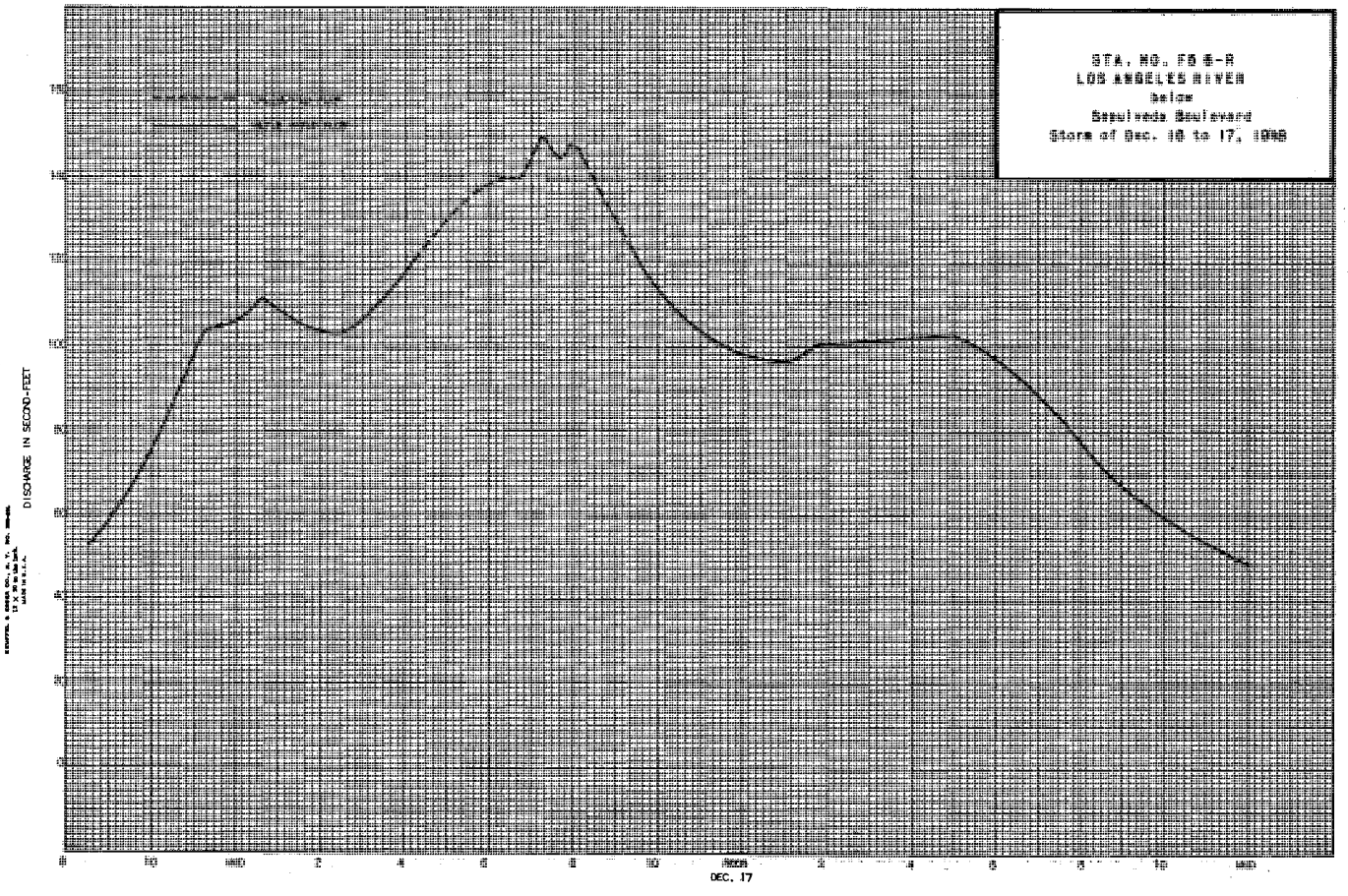
Daily discharge, in second-feet of Los Angeles River below Sepulveda Boulevard, for the year ending September 30, 19 49

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.5	7.1	5.3	7.5	5.8	5.4	6.8	6.8	6.0	6.5	5.8	6.3
2	5.6	7.3	5.5	7.3	5.8	5.6	6.8	6.3	6.3	6.0	6.3	7.1
3	5.8	7.8	5.6	6.9	7.7	6.5	6.0	6.3	6.0	6.5	6.0	6.5
4	a 6.1	7.6	5.7	6.9	7.4	6.9	6.0	6.8	6.3	6.5	6.0	6.3
5	6.3	7.3	5.8	6.8	6.0	8.5	6.0	7.4	6.5	6.8	6.3	6.0
6	6.5	7.1	6.0	6.5	6.0	7.1	5.8	7.4	6.3	6.8	6.8	6.0
7	6.7	6.6	5.8	6.6	8.5	7.7	5.8	7.1	6.3	7.4	6.5	5.6
8	6.4	6.1	5.8	6.9	7.1	7.1	5.8	7.4	6.8	7.7	6.3	5.4
9	6.1	5.7	4.8	6.9	6.2	7.1	6.0	7.1	7.1	7.4	6.8	5.8
10	5.6	5.5	5.4	7.1	6.0	8.4	6.5	7.1	6.8	7.4	6.8	5.6
11	a 5.5	5.5	5.4	7.5	5.8	9.1	6.3	6.8	5.8	7.4	6.5	5.8
12	5.2	5.5	5.4	11	6.0	8.0	6.0	6.5	5.6	7.4	6.8	5.8
13	4.8	5.7	5.4	12	6.0	7.7	6.0	7.1	5.1	7.4	6.8	5.4
14	4.5	5.8	5.4	13	5.8	7.3	6.3	7.1	4.9	7.4	6.8	4.9
15	4.7	6.0	5.4	8.0	5.6	6.9	5.8	7.7	4.9	7.7	6.5	5.1
16	5.0	6.1	5.7	6.0	5.8	6.6	5.6	8.0	4.9	8.3	7.1	5.1
17	5.2	6.1	10.3	5.8	6.0	6.3	5.8	8.6	5.1	8.3	7.4	5.4
18	5.5	6.1	3.2	5.8	6.0	6.3	6.0	8.6	5.8	7.4	7.1	5.4
19	5.6	6.1	2.9	9.7	6.3	6.8	6.5	8.6	5.4	6.5	6.5	5.4
20	5.8	6.0	3.5	2.0	6.0	6.3	6.5	7.4	5.4	6.5	5.8	5.6
21	6.0	5.7	5.6	9.2	5.8	6.5	5.8	7.4	6.0	6.8	6.0	4.9
22	5.7	5.6	5.8	9.6	5.8	6.3	6.0	6.0	5.8	6.5	6.0	4.7
23	5.8	5.5	5.4	9.2	5.6	6.3	6.5	5.8	6.0	6.0	6.0	4.4
24	5.8	5.3	1.5	6.5	6.5	6.5	6.5	5.8	6.3	5.8	5.8	4.4
25	6.1	5.3	7.9	6.0	6.0	6.0	6.3	6.0	6.5	5.6	5.4	4.2
26	6.2	5.3	1.6	5.8	6.3	6.3	6.0	6.0	5.8	5.8	5.4	4.4
27	6.5	5.2	3.7	5.8	5.8	6.0	6.3	5.8	6.0	5.8	5.1	4.4
28	6.5	5.2	1.1	5.8	5.4	6.3	6.3	6.0	6.5	5.6	5.4	4.4
29	6.6	5.3	8.5	5.6		6.0	7.4	6.3	7.1	5.6	5.4	4.0
30	6.8	5.3	7.8	5.6		6.5	7.4	6.0	6.8	5.8	5.8	4.7
31	7.1		7.8	5.8		7.1		6.0		6.5	6.0	
	181.7	180.7	952.5	243.1	173.0	211.4	186.8	213.2	180.1	209.1	193.2	159.0
MEAN	5.86	6.02	30.7	7.84	6.17	6.82	6.23	6.88	6.00	6.74	6.23	5.30
ACRE-FEET	360.	358.	1,890.	482.	343.	419.	371.	423.	357.	415.	383.	315.

Remarks:

YEAR OR PERIOD MEAN 8.45
ACRE-FEET 6,120.


STA. NO. F5B-R
LOS ANGELES RIVER
below
Sepulveda Boulevard
Storm of Mar. 24, 1948
DISCHARGE IN SECOND-FEET
320
280
240
160
120
80
40
0
CALCULATED FLOW
METER RATED FLOW
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. 24
MAR. 25


STA. NO. F5B-R
LOS ANGELES RIVER
below
Sepulveda Boulevard
Storm of Dec. 16 to 17, 1948
DISCHARGE IN SECOND-FEET
DEC. 17

STATION F286-R
LOS ANGELES RIVER at Mariposa Street

LOCATION: WATER-STAGE RECORDER, LAT. 34°09'17", LONG. 118°18'40", ON THE LEFT (NORTH) CHANNEL WALL ABOUT 60 FEET EAST FROM THE CENTER LINE OF MARIPOSA STREET EXTENDED, AND ABOUT 2 MILES SOUTHEAST OF BURBANK. ELEVATION OF ZERO GAGE HEIGHT, 468.61 FEET.

DRAINAGE AREA: 430 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - CONCRETE 130 FEET WIDE WITH 18-FOOT VERTICAL SIDE WALLS. BOTTOM FORMS A REGULAR TRAPEZOIDAL SECTION 130 FEET X 82 FEET ON THE BOTTOM BY 1.25 FEET DEEP. CHANNEL FORMS CONTROL. CHANNEL BOTTOM USUALLY COVERED BY MUD, MOSS AND GRASS DURING SUMMER MONTHS.

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, 1947 TO SEPTEMBER 30, 1949.

REGULATION AND/OR DIVERSIONS: SUBJECT TO SAME REGULATION AS STATION F58-R AND IN ADDITION FLOW IS REGULATED BY PACOIMA DAM, HANSEN DAM AND BIG TUJUNGA DAM NO. 1.

DIVERSIONS: SEVERAL IRRIGATION DIVERSIONS IN THE MOUNTAIN TRIBUTARIES, OTHER FLOW IS DIVERTED AT THE SEVERAL WATER SUPPLY RESERVOIRS, AND THE LOS ANGELES WATER DEPARTMENT DIVERTS FLOW FOR SPREADING ABOVE THE STATION.

RECORDS AVAILABLE: FROM DECEMBER 20, 1938 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:

1947-1948
MAXIMUM 2,180 SECOND-FEET, MARCH 24.
MINIMUM 5.1 SECOND-FEET, VARIOUS TIMES IN MARCH AND APRIL.

1948-1949
MAXIMUM 1,110 SECOND-FEET, DECEMBER 16.
MINIMUM 4.0 SECOND-FEET, SEPTEMBER 29.

1938-1949
MAXIMUM 9,040 SECOND-FEET, FEBRUARY 22, 1944.
MINIMUM 4.0 SECOND-FEET, MARCH 13, 1947.

ACCURACY: FAIR. (CHANNEL SUBJECT TO GROWTH OF MOSS AND WEEDS).

OPERATION: LOCATED AND CONSTRUCTED BY THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY, AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN CONJUNCTION WITH THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY.

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

AT ~~NEAR~~ Mariposa Street DURING THE YEAR ENDING SEPTEMBER 30, 19~~48~~

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
513	10-2	1338 / 1346	BLAKELY	COMPOSITE OF 2 MEAS.			0.40	11.7		.6		0	FC35
514	10-9	1328 / 1336	"	"		"	0.43	11.3		.6		0	"
515	10-16	1315 / 1323	"	"		"	0.45	10.7		.6		0	"
516	10-23	1341 / 1349	"	"		"		11.1		.6			"
517	11-6	1304 / 1314	"	"		"	0.46	11.7		.6		0	"
518	11-13	1340 / 1350	"	"		"	0.47	11.7		.6		0	"
519	11-20	1408 / 1417	"	"		"	0.49	13.5		.5 / .6		0	"
520	11-26	1237 / 1304	"	"		"	0.49	10.8		.5		0	"
521	12-4	1305 / 1317	"	TWO CHANNELS			0.53	14.0		.6	13	0	"
522	12-5	1330 / 1340	BLAKELY - OCAMPO	" "			0.57	52.1		.5	11	-.01	"
523	12-8	0834 / 0847	BLAKELY	" "			0.19	13.8		FLOATS	12	0	
524	12-11	1341 / 1353	BLAKELY	THREE "			0.23	8.2		.5	15	0	FC35
525	12-18	1327 / 1335	"	COMPOSITE OF 3 MEAS.			0.29	12.0		.6	18	0	"
526	1-2	1335 / 1347	"	TWO CHANNELS			0.57	54.6		.5	13	0	"
527	1-8	1043 / 1047	"	" "			0.64	62.0		.5 / .6	13	0	"
528	1-15	1148 / 1201	"	" "			0.62	69.7		.5 / .6	13	0	"
529	1-22	1410 / 1424	"	" "			0.33	12.8		.5	10	0	"
530	1-29	1420 / 1448	BOLLINGER	" "			0.62	58.4		.6	19	0	FC6
531	2-5	0908 / 0923	BLAKELY	" "			1.06	191.		.5 / .6	14	0	FC35
532	2-6	0900 / 0915	"	" "			1.07	184.		.5 / .6	14	-.02	"
533	2-13	1328 / 1340	"	" "			0.28	9.9		.5	13	0	"
534	2-19	1057 / 1115	"	FOUR CHANNELS			0.42	12.6		.5	18	0	"
535	2-26	1045 / 1057	"	THREE CHANNELS			0.45	18.8		.5	12	0	"
536	3-4	1125 / 1145	"	" "			0.41	19.8		.5	18	0	"
537	3-11	1217 / 1230	BLAKELY - SILL	" "			0.40	20.4		.5	16	0	"
538	3-14	2124 / 2136	BLAKELY	TWO CHANNELS			1.02	189.		.6	14	-.05	"
539	3-16,17	2357 / 0008	"	"			0.54	55.0		.5 / .6	11	+.05	"
540	3-24	1756 / 1824	MELLEN - KASIMOFF	118.0	119.	4.35	1.02	518.		.6	21	+.02	FC47
541	3-25	1300 / 1320	MELLEN	81.0	26.5	2.07	0.22	54.8		.6	9	0	FC42
542	4-2	1342 / 1400	BOLLINGER	31.2	13.8	2.67	0.34	36.9		.6	17	0	FC6
543	4-8	1215 / 1229	BLAKELY	TWO CHANNELS			0.32	36.0		.5	15	+.02	FC35
544	4-14	0955 / 1006	"	" "			0.31	34.8		.5	15	0	"
545	4-22	1116 / 1132	"	" "			0.32	36.0		.5	15	0	"
546	4-29	0932 / 0946	"	66.5	21.1	2.27	0.36	47.8		.5	14	-.01	"
547	5-6	1435 / 1447	"	TWO CHANNELS			0.20	9.5		.5	13	0	"
548	5-13	1047 / 1100	"	" "			0.24	10.0		.5	14	0	"
549	5-20	1115 / 1127	"	" "			0.26	12.1		.5	12	0	"
550	5-27	1432 / 1440	"	22.5	8.26	1.44	0.28	11.9		.5	8	0	"
551	6-2	1154 / 1202	"	TWO CHANNELS			0.33	12.0		.5	9	0	"
552	6-10	1605 / 1613	"	" "			0.26	9.4		.5	8	0	"
553	6-17	1140 / 1148	"	27.0	10.1	1.23	0.28	12.4		.5	9	0	"
554	6-24	1331 / 1342	"	TWO CHANNELS			0.28	10.2		.5	11	0	"
555	6-30	1352 / 1402	"	25.0	9.47	1.27	0.32	12.0		.5	8	0	"

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

AT OR NEAR Mariposa Street DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT-ING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
556	10-14	1307 / 1321	BLAKELY	COMPOSITE MEAS.			0.31	6.5		.5	11	0	FC35
557	10-28	1146 / 1202	"	"	"		0.27	6.1		.5 .6	16	0	"
558	11-10	1034 / 1044	"	TWO CHANNELS			0.24	7.2		.5	11	0	"
559	11-18	0907 / 0919	"	"	"		0.26	6.3		.5	10	0	"
560	11-24	1116 / 1126	"	"	"		0.30	7.2		.5	8	0	"
561	12-2	1132 / 1144	"	"	"		0.31	7.6		.5	12	0	"
562	12-9	0900 / 0912	"	"	"		0.33	7.3		.5	12	0	"
563	12-14	1438 / 1454	"	"	"		0.48	48.7		.5	16	0	"
564	12-17	0210 / 0234	"	124.0	107.	5.07	0.97	542.		.6	19	-.06	"
565	12-22	1409 / 1421	"	75.0	28.4	3.08	0.38	87.4		.5	10	+.01	"
566	12-27	1009 / 1027	"	76.0	29.3	3.45	0.37	101.		.5	11	0	"
567	12-30	1312 / 1324	"	70.5	15.6	1.40	0.24	21.9		.5	9	0	"
568	1-6	1120 / 1130	BLAKELY - BOTTS	61.5	16.6	1.60	0.15	26.5		.5	11	0	"
569	1-13	0909 / 0921	BLAKELY	69.0	19.9	1.69	0.32	33.6		.5	12	0	"
570	1-19	2306 / 2316	BLAKELY - SCHUMAKER	72.0	31.4	2.90	0.39	91.3		.5	10	0	"
571	1-22	1702 / 1713	BLAKELY - JOHNSON	69.0	29.1	2.60	0.36	75.6		.5	13	0	"
572	1-26	1146 / 1154	BLAKELY	70.0	15.9	1.27	0.19	20.2		.5	9	0	"
573	2-3	1253 / 1317	JOHNSON - BLAKELY	65.0	24.3	1.73	0.34	42.1		.5	11	0	"
574	2-10	1 007 / 1021	BLAKELY	TWO CHANNELS			0.29	25.3		.5	16	0	"
575	2-17	1332 / 1348	"	"	"		0.31	24.0		.5	17	0	"
576	2-24	1217 / 1230	BLAKELY - WILLUT	"	"		0.35	35.2		.5	17	+.02	"
577	3-3	1352 / 1408	BLAKELY	"	"		0.30	29.0		.5	15	0	"
578	3-11	0242 / 0252	BLAKELY - JOHNSON	"	"		0.46	100.		.5	10	-.02	"
579	3-11	1605 / 1619	BLAKELY	53.0	15.9	1.70	0.30	27.0		.5	16	0	"
580	3-17	1222 / 1240	DIAS - BLAKELY	60.0	16 2	1.44	0.31	23.4		.5	17	0	"
581	3-24	1132 / 1142	BLAKELY - LANG	58.5	18.5	1.49	0.34	27.5		.5	11	0	"
582	3-31	1250 / 1304	BLAKELY	58.0	21.4	1.58	0.40	33.8		.5	12	0	"
583	4-7	1133 / 1143	"	59.0	23.4	1.51	0.45	35.4		.5	11	0	"
584	4-14	1302 / 1334	"	COMPOSITE MEAS.			0.50	26.7		.5	23	0	"
585	4-21	1230 / 1240	"	38.0	15.4	2.02	0.46	31.2		.5	10	0	"
586	4-28	0834 / 0844	"	37.5	13.5	1.89	0.40	25.5		.5	11	0	"
587	5-5	1320 / 1330	"	43.0	18.4	1.90	0.48	34.9		.5	11	0	"
588	5-12	1236 / 1248	"	COMPOSITE MEAS.			0.55	38.7		.6	12	-.01	"
589	5-19	1300 / 1310	"	48.0	19.2	2.02	0.40	38.8		.5	8	0	"
590	5-26	1110 / 1122	"	51.0	15.6	1.66	0.38	25.9		.5	10	0	"
591	6-2	1359 / 1402	"	48.0	23.1	1.38	0.47	31.8		.5	13	0	"
592	6-9	1123 / 1131	BLAKELY - MIRON	48.0	22.7	1.35	0.51	30.7		.5	9	0	"
593	6-15	1050 / 1112	BOLLINGER	45.0	18.0	1.49	0.38	27.5		.6	16	0	FC6
594	6-22	1355 / 1417	"	45.0	12.4	1.50	0.34	18.6		.6	15	0	"
595	6-30	0928 / 0940	BLAKELY	76.0	18.2	1.36	0.34	24.7		.5	12	0	FC35
596	7-7	1311 / 1321	"	80.0	20.2	1.30	0.28	26.2		.5	10	0	"
597	7-13	1406 / 1420	"	87.0	21.4	1.17	0.27	24.9		.5	13	0	"
598	7-21	1300 / 1310	"	77.0	8.64	1.54	0.18	13.3	FLOATS		9	0	
599	7-27	1053 / 1107	BOLLINGER	COMPOSITE MEAS.			0.20	11.2				0	FC6
600	8-11	1210 / 1220	BLAKELY	COMPOSITE MEAS.			0.24	18.0				0	FC35
601	8-25	1245 / 1257	"	COMPOSITE MEAS.			0.48	15.5				0	"
602	9-8	1338 / 1354	"	TWO CHANNELS			0.34	12.7		.5	19	0	"
603	9-8	1412 / 1420	"	COMPOSITE MEAS.			0.34	15.4		.6		0	"
604	9-15	1215	BOLLINGER	COMPOSITE MEAS.			0.14	6.7				0	FC6
605	9-21	1454	"	COMPOSITE MEAS.			0.13	4.3				C	"
605X	9-29	1415	BLAKELY	COMPOSITE MEAS.			0.12	3.7	EST.			0	

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F26B-R

Daily discharge, in second-feet of LOS ANGELES RIVER at Mariposa Street, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	12	11	a 19	58	20	38	17	11	10	9.4	5.9
2	12	12	11	27	60	20	38	5.1	15	10	9.2	5.9
3	12	12	11	18	60	20	37	5.7	16	10	9.0	5.9
4	12	12	27	24	64	20	30	6.2	16	9.3	8.8	5.9
5	12	12	96	32	165	21	28	7.8	17	8.1	8.6	6.0
6	11	12	64	28	129	20	28	9.3	17	8.1	8.4	6.0
7	11	12	20	26	87	19	30	11	21	8.6	8.2	6.0
8	11	12	5.7	53	78	23	33	11	14	11	8.0	6.0
9	11	12	6.2	62	42	23	32	10	9.3	11	7.8	6.0
10	11	12	7.8	58	57	23	32	11	9.3	11	7.6	6.1
11	11	12	8.5	60	58	21	32	10	9.3	11	7.4	6.1
12	11	12	8.5	64	60	20	33	10	11	12	7.4	6.1
13	11	12	8.5	66	30	63	33	10	12	12	7.4	6.1
14	11	12	8.5	68	14	102	34	11	12	12	7.3	6.1
15	11	12	9.3	70	14	53	34	12	13	12	7.3	6.1
16	11	13	9.3	48	15	42	34	12	13	12	7.2	6.2
17	11	13	10	20	14	113	36	12	12	12	7.2	6.3
18	11	14	12	12	13	37	36	12	13	12	7.2	6.5
19	11	14	12	11	12	39	34	12	12	12	7.2	6.6
20	11	14	13	14	16	32	33	12	12	12	7.2	6.7
21	11	14	14	14	18	31	34	13	11	12	7.2	6.9
22	11	13	14	13	18	31	36	12	12	12	7.2	7.0
23	11	12	14	38	15	31	36	12	12	12	7.2	7.1
24	11	12	15	56	19	359	34	12	10	12	7.2	7.3
25	11	11	16	58	19	66	33	12	11	11	7.2	7.4
26	11	11	16	56	19	38	20	12	12	11	7.0	7.5
27	11	11	17	56	22	34	5.7	12	11	11	6.8	7.7
28	11	11	18	56	26	34	25	12	11	11	6.6	7.8
29	11	11	a 18	60	20	31	48	12	10	10	6.3	7.9
30	12	11	a 18	64		34	34	12	11	9.8	6.1	8.1
31	12		a 19	56		42		11		9.6	5.9	
	348.0	365.0	538.3	1307.0	1222.0	1462.0	970.7	339.1	375.9	337.5	232.5	197.2
MEAN	11.2	12.2	17.4	42.2	42.1	47.1	32.4	10.9	12.5	10.9	7.50	6.57
ACRE-FEET	690.	724.	1070.	2590.	2420.	2900.	1930.	673.	746.	669.	461.	391.

Remarks:

YEAR OR PERIOD MEAN 21.0
ACRE-FEET 15,260.

F. C. Dist. Form 52 4-48

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

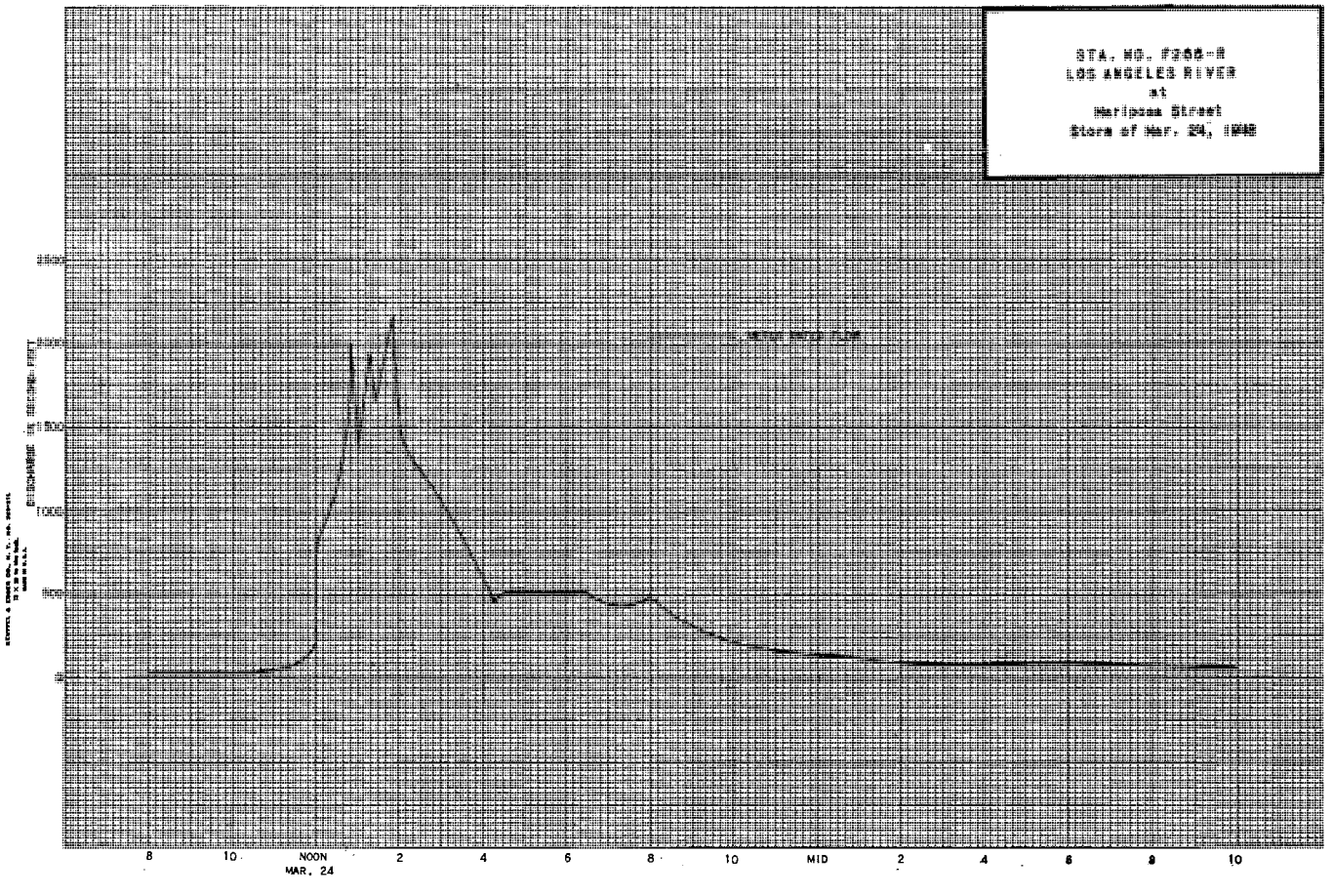
Sta. No. F266-R

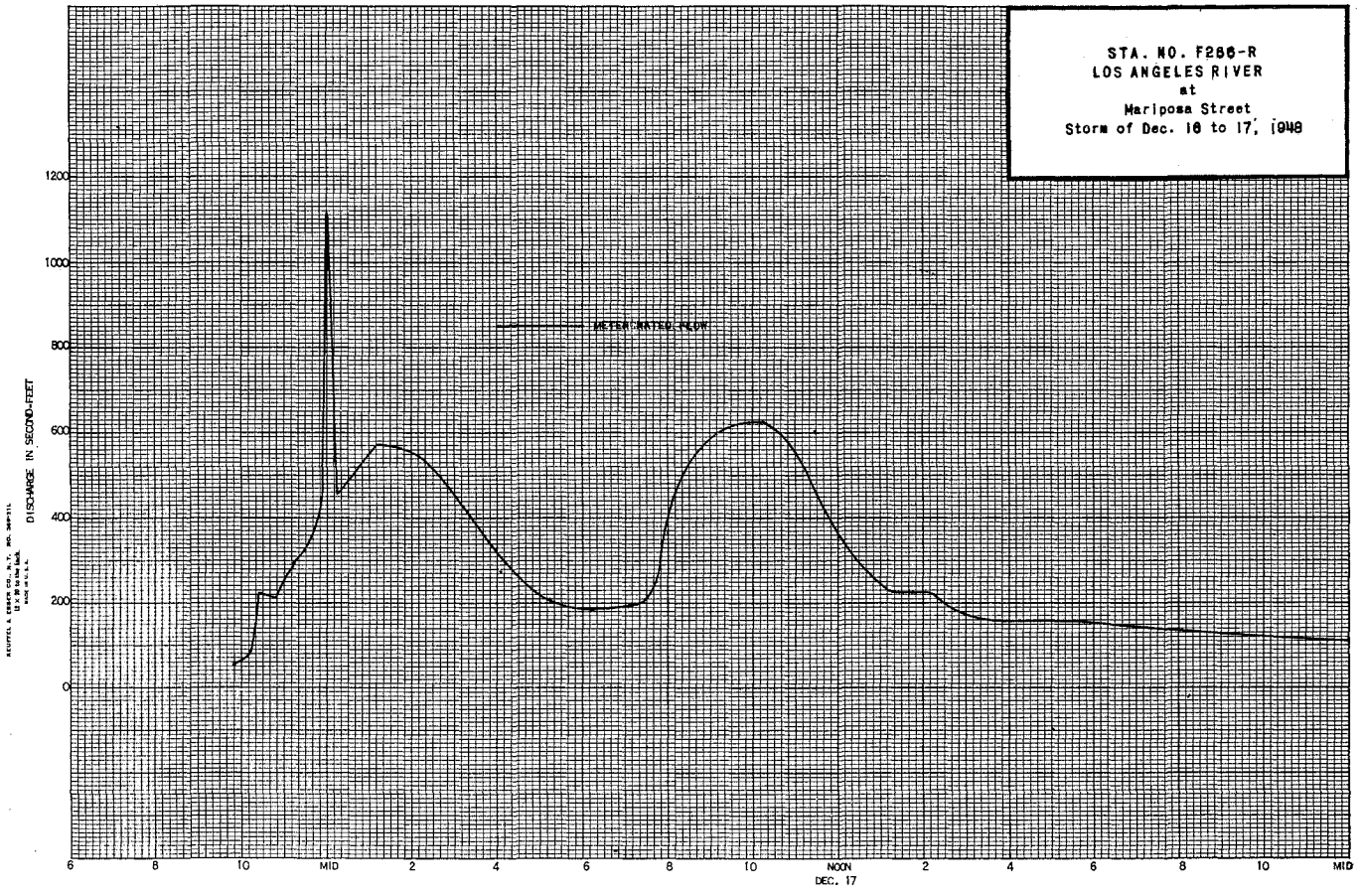
Daily discharge, in second-feet of LOS ANGELES RIVER at Mariposa Street for the year ending September 30, 19MG

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.1	6.4	7.6	28	27	v 24	31	28	30	23	12	16
2	8.1	6.5	7.6	31	31	25	32	30	30	23	14	18
3	8.1	6.6	7.6	27	40	29	32	26	31	23	14	17
4	8.1	6.7	7.6	27	27	40	32	30	32	24	14	16
5	7.3	6.8	7.5	27	27	31	33	32	37	27	15	15
6	6.5	6.9	7.4	27	31	24	34	33	39	27	16	13
7	6.5	7.0	7.4	27	46	28	34	33	39	26	16	13
8	6.5	7.1	7.3	27	27	26	34	33	35	26	17	12
9	6.5	7.2	30	27	27	25	33	36	31	26	18	14
10	6.5	7.2	32	31	23	32	31	34	31	26	18	11
11	6.5	7.1	27	45	29	55	31	33	24	26	18	12
12	6.5	6.9	37	31	23	37	28	36	26	26	17	10
13	6.5	6.8	44	39	23	26	24	36	23	24	18	5.7
14	6.5	6.7	48	31	23	25	26	36	26	22	18	6.2
15	6.2	6.6	50	23	23	25	27	34	26	22	17	7.0
16	5.7	6.5	74	27	23	24	28	34	24	21	20	7.0
17	5.1	6.4	295	27	23	23	30	36	23	21	27	5.7
18	10	6.3	78	27	27	24	30	45	22	20	21	5.7
19	8.5	6.5	63	50	27	27	32	41	21	22	16	5.1
20	8.5	6.6	58	70	23	25	31	31	21	20	14	4.5
21	7.0	6.8	68	27	27	24	31	28	23	16	13	4.5
22	7.0	6.9	78	39	23	27	28	27	24	12	14	4.5
23	6.8	7.0	73	31	v 24	29	27	27	27	12	14	4.5
24	6.7	7.2	50	27	35	30	27	27	24	11	15	4.5
25	6.5	7.2	31	v 26	25	29	28	27	28	11	14	4.0
26	6.3	7.3	60	v 25	32	28	28	26	26	11	18	4.0
27	6.1	7.4	108	v 24	30	27	28	26	27	11	14	4.0
28	6.1	7.4	34	23	v 24	29	31	24	27	11	12	4.0
29	6.1	7.5	31	23		30	30	24	26	11	13	4.0
30	6.2	7.5	27	23		32	31	24	24	12	14	4.0
31	6.3		27	27		v 33		24		12	14	
	2133	207.0	1483.0	944.0	770.0	893.0	902.0	961.0	827.0	605.0	495.0	255.9
MEAN	6.88	6.90	47.8	30.5	27.5	28.8	30.1	31.0	27.6	19.5	16.0	8.53
ACRE-FEET	423.	411.	2940.	1870.	1530.	1770.	1790.	1910.	1640.	1200.	982.	508.

Remarks:

YEAR OR PERIOD MEAN 23.4
ACRE-FEET 16970.





STATION F57C-R
LOS ANGELES RIVER above Arroyo Seco

LOCATION: WATER-STAGE RECORDER. LAT. 34°04'55", LONG. 118°13'35", ON THE RIGHT (WEST) CHANNEL WALL 800 FEET ABOVE THE JUNCTION WITH THE ARROYO SECO. THE FORMER STATION F57B-R WAS 450 FEET ABOVE THE JUNCTION WITH THE ARROYO SECO. ELEVATION OF ZERO GAGE HEIGHT, 292.58 FEET.

DRAINAGE AREA: 510 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - RECTANGULAR CONCRETE 177 FEET WIDE AND 29 FEET DEEP WITH A TRAPEZOIDAL INVERT 20 FEET WIDE AT TOP, 16 FEET WIDE AT BOTTOM AND 1 FOOT DEEP. CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM CABLE CAR 15 FEET ABOVE GAGE.

RECORDER: INSTALLED MAY 26, 1938 AT STATION F57B-R. REMOVED APRIL 5, 1939. INSTALLED AT STATION F57C-R DECEMBER 8, 1939 IN A 4.5 FT. X 4.5 FT. CONCRETE HOUSE AND STILLING WELL COMBINED. A FRIEZ CONTINUOUS RECORDER, FURNISHED BY CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY, WAS IN SERVICE FROM OCTOBER 1947 TO SEPTEMBER 30, 1949.

REGULATION AND/OR DIVERSIONS: SUBJECT TO SAME REGULATION AS STATION F286-R. SEVERAL DEBRIS BASINS REGULATE FLOW ON ADDITIONAL TRIBUTARIES. THE LOS ANGELES WATER DEPARTMENT SPILLS SURPLUS FLOW INTO THE CHANNEL FROM WATER DEVELOPED IN THE GRIFFITH PARK AREA.

DIVERSIONS: SEVERAL IRRIGATION DIVERSIONS IN THE MOUNTAIN TRIBUTARIES; OTHER FLOW IS DIVERTED AND/OR RELEASED AT THE SEVERAL WATER SUPPLY RESERVOIRS, AND THE LOS ANGELES WATER DEPARTMENT DIVERTS FLOW FOR SPREADING.

RECORDS AVAILABLE:
AT STATION F57-R - DECEMBER 1929 TO MAY 26, 1938.
AT STATION F57B-R - MAY 26, 1938 TO APRIL 5, 1939, APRIL 5, 1939 TO DECEMBER 8, 1939, BI-WEEKLY MEASUREMENTS.
AT STATION F57C-R - DECEMBER 8, 1939 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:
1947-1948
MAXIMUM 4,900 SECOND-FEET, MARCH 24.
MINIMUM 3.8 SECOND-FEET, NOVEMBER 9.
1948-1949
MAXIMUM 1,530 SECOND-FEET, DECEMBER 17.
MINIMUM 4.2 SECOND-FEET, OCTOBER 25.
1929-1949 (STATIONS F57-R, F57B-R AND F57C-R)
MAXIMUM 68,000 SECOND-FEET, ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW AT TIMES EACH YEAR FROM 1929-1930 TO 1933-1934.

ACCURACY: FAIR.

OPERATION: LOCATED AND CONSTRUCTED BY THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY, OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT, AND CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY, WITH THE COOPERATION OF THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

AT above Arroyo Seco DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
859	10-1	1403 / 1412	BLAKELY	16.9	3.75	1.12	0.23	4.2		.5	10	0	FC35
860	10-9	1512 / 1522	"	16.9	4.18	1.17	0.23	4.9		.5	10	0	"
861	10-16	1432 / 1442	"	16.9	3.79	1.16	0.23	4.4		.5	10	0	"
862	10-23	1512 / 1524	"	16.8	3.73	1.07	0.22	4.0		.5	10	0	"
863	10-30	1546 / 1556	"	16.9	3.89	1.23	0.23	4.8		.5	10	0	"
864	11-6	1442 / 1450	"	16.9	3.19	1.16	0.21	3.7		.5	6	0	"
865	11-13	1420 / 1428	"	16.8	3.50	1.20	0.22	4.2		.5	10	0	"
866	11-20	1530 / 1538	"	16.9	3.57	1.12	0.23	4.0		.5	10	0	"
867	11-26	1507 / 1515	"	16.8	4.01	1.30	0.26	5.2		.5	10	0	"
868	12-4	1503 / 1508	"	17.9	9.23	3.10	0.55	28.6		.5	7	-.01	"
869	12-5	0025 / 0047	BLAKELY - OCAMPO	177.0	108.	4.36	1.42	471.		.5 .6	15	0	"
870	12-5	1646 / 1705	" "	177.0	61.0	2.98	1.19	182.		.5 .6	19	-.05	"
871	12-8	1237 / 1247	BLAKELY	16.9	4.53	1.59	0.28	7.2		.5	10	0	"
872	12-11	1508 / 1517	"	16.9	4.12	1.46	0.27	6.0		.5	10	0	"
873	12-18	1413 / 1421	"	17.0	4.84	1.72	0.30	8.3		.5	10	0	"
874	12-24	0833 / 0841	"	17.2	5.50	1.80	0.34	9.9		.5	10	0	"
875	1-2	1435 / 1443	"	17.3	5.96	1.74	0.36	10.4		.5	10	0	"
876	1-8	1304 / 1310	"	17.6	7.28	1.87	0.44	13.6		.5	7	0	"
877	1-9	0833 / 0943	"	19.2	15.4	3.56	0.86	54.8		.6	11	0	"
878	1-15	0905 / 0915	"	THREE CHANNELS			1.01	57.1		.6 FLOATS	10	0	"
879	1-22	1509 / 1520	"	18.5	9.36	1.47	0.64	13.8		.6	10	0	"
880	1-29	1650 / 1704	BOLLINGER	THREE CHANNELS			0.04	44.8		.6	13	0	FC6
881	2-5	1520 / 1537	BLAKELY	177.0	109.	3.78	1.42	412.		.5 .6	14	-.06	FC35
882	2-6	1100 / 1120	"	177.0	84.8	3.03	1.30	257.		.5 .6	14	.04	"
883	2-7	1536 / 1556	"	177.0	34.8	2.41	1.07	84.0		FLOATS .6	19		
884	2-13	1434 / 1444	"	TWO CHANNELS			0.92	50.3		EST. .6	10	0	"
885	2-19	1257 / 1310	"	18.4	9.41	1.70	0.62	16.0		.6	11	0	"
886	2-26	1404 / 1414	"	18.2	9.42	1.48	0.54	13.9		.6	12	0	"
887	3-4	1342 / 1352	"	18.0	8.59	1.90	0.49	16.3		.5	10	0	"
888	3-11	1353 / 1402	BLAKELY - SILL	18.1	9.79	2.03	0.57	20.1		.5	10	0	"
889	3-14	2220 / 2237	BLAKELY	177.0	79.9	3.50	1.25	280.		.5 .6	13	-.01	"
890	3-17	1332 / 1347	"	177.0	35.2	3.44	1.08	121.		.6 FLOATS	17	0	"
891	3-19	1356 / 1405	"	18.2	11.2	3.81	0.62	42.6		.6	10	-.01	"
892	3-25	1006 / 1020	MELLEN	20.0	20.2	4.72	1.05	95.4		.6	6	0	FC42
893	4-2	1508 / 1525	BOLLINGER	18.4	11.5	3.76	0.65	43.2		.6	14	0	FC6
894	4-8	1404 / 1414	BLAKELY	18.6	11.8	3.37	0.67	39.8		.6	10	0	FC35
895	4-14	0905 / 0914	"	18.9	12.8	2.77	0.74	35.4		.6	10	0	"
896	4-21	0826 / 0835	BLAKELY - BONADIMAN	20.0	15.5	2.07	0.97	32.1		.6	9	0	"
897	4-29	1408 / 1418	BLAKELY	176.8	23.3	2.75	0.95	63.5		EST. .6	11	-.01	"
898	5-6	1610 / 1620	"	17.7	7.90	1.25	0.46	9.9		.5	10	0	"
899	5-11	0620 / 0634	WADDICOR - BLAKELY	17.6	7.20	1.42	0.43	10.2		.5	10	0	"
900	5-20	1549 / 1557	BLAKELY	17.2	5.56	1.55	0.33	8.6		.5	10	0	"
901	5-27	1657 / 1705	"	17.2	5.86	1.62	0.33	9.5		.5	10	0	"
902	6-10	1200 / 1210	"	17.6	6.90	1.19	0.39	8.2		.5	10	0	"
903	6-17	1518 / 1528	"	17.3	5.58	1.24	0.35	6.9		.5	10	0	"
904	6-24	1525 / 1535	"	17.2	5.10	1.41	0.32	7.2		.5	10	0	"
905	6-30	1620 / 1630	"	17.3	5.76	1.34	0.34	7.7		.5	10	0	"
906	7-9	1233 / 1248	BOLLINGER	17.7	6.73	1.05	0.40	7.1		.6	15	0	FC6
907	7-15	1540 / 1548	BLAKELY	17.3	6.37	0.99	0.36	6.3		.6	10	0	FC35
908	7-22	1605 / 1615	"	17.2	5.26	1.31	0.31	6.9		.5	10	0	"
909	7-29	1543 / 1551	"	16.8	3.52	1.19	0.22	4.2		.5	10	0	"
910	8-5	1252 / 1302	"	17.1	4.88	1.39	0.29	6.8		.5	10	0	"
911	8-11	1400 / 1416	BOLLINGER	17.0	4.89	1.10	0.30	5.4		.6	12	0	FC6
912	8-18	1405 / 1418	"	17.1	4.85	1.11	0.30	5.4		.6	11	0	"
913	8-25	1432 / 1448	"	17.3	5.70	1.18	0.34	6.7		.6	12	0	"
914	8-31	1400 / 1424	"	17.2	5.32	1.11	0.34	5.9		.6	13	0	"
915	9-8	1525 / 1543	"	17.2	5.20	0.96	0.30	5.0		.6	13	0	"
916	9-16	1454 / 1500	BLAKELY	16.9	4.29	1.35	0.26	5.8		.5	7	0	FC35
917	9-23	1534 / 1545	BLAKELY-VAN DER GOOT	16.9	4.09	1.25	0.26	5.1		.5	7	0	"
918	9-30	1439 / 1447	BLAKELY	16.9	4.25	1.34	0.26	5.7		.5	7	0	"

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

AT above Arroyo Seco DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
919	10-7	1352 / 1358	BLAKELY	16.9	4.22	1.42	0.24	6.0		.5	7	0	FC35
920	10-14	1405 / 1413	"	17.0	3.69	1.27	0.23	4.7		.5	7	0	"
921	10-21	1343 / 1351	"	16.8	3.50	1.40	0.21	4.9		.5	7	0	"
922	10-28	1345 / 1351	"	16.9	3.57	1.37	0.22	4.9		.5	7	0	"
923	11-4	1330 / 1336	"	16.8	3.56	1.32	0.22	4.7		.5	7	0	"
924	11-10	1434 / 1440	"	16.7	3.48	1.32	0.21	4.6		.5	7	0	"
925	11-18	1410 / 1418	"	16.9	3.96	1.29	0.23	5.1		.5	7	0	"
926	11-24	1406 / 1414	"	16.9	3.98	1.33	0.25	5.3		.5	7	0	"
927	12-2	1437 / 1443	"	17.0	4.30	1.16	0.26	5.0		.5	7	0	"
928	12-9	1320 / 1326	"	17.1	4.58	1.31	0.27	6.0		.5	7	0	"
929	12-10	1445 / 1456	"	18.6	11.6	3.29	0.64	38.2		.6	7	0	"
930	12-16	0915 / 0923	"	18.2	9.54	2.69	0.56	25.6		.6	7	0	"
931	12-17	1414 / 1455	"	177.0	119.	5.20	1.40	620.		.5 .6	13	-.08	"
932	12-22	1555 / 1605	"	177.0	27.2	3.97	1.03	108		EST. .6	15	-.02	"
933	12-27	0090 / 0050	"	177.0	123.	5.05	1.40	621.		.5 .6	13	+.03	"
934	12-30	1428 / 1436	"	17.7	8.45	2.98	0.46	25.1		.5	7	0	"
935	1-6	1350 / 1400	BOTTS - BLAKELY	17.9	8.54	3.15	0.48	26.9		.5	7	0	"
936	1-13	1514 / 1522	BLAKELY	18.6	11.6	4.02	0.68	46.6		.6	7	0	"
937	1-19	2110 / 2134	BLAKELY - SCHUMAKER	177.0	77.0	3.36	1.22	259.		.5 .6	14	0	"
938	1-22	1544 / 1605	BLAKELY - JOHNSON	177.0	46.3	3.47	1.14	161.		.5 .6 FLOAT	16	+.07	"
939	1-28	1437 / 1445	BLAKELY	17.8	8.38	3.07	0.46	25.7		.5	7	0	"
940	2-3	1438 / 1502	BLAKELY - JOHNSON	177.0	44.0	3.00	1.10	132.		.5 .6	20	-.02	"
941	2-10	1454 / 1502	BLAKELY	18.0	8.37	2.87	0.50	24.0		.5	10	0	"
942	2-17	1440 / 1450	"	18.2	9.71	2.80	0.57	27.2		.6	10	0	"
943	2-24	1510 / 1527	BLAKELY - WILLUT	177.0	42.5	2.35	1.10	100.		.5 .6	14	0	"
944	2-25	1336 / 1344	BLAKELY	18.4	10.2	2.65	0.60	27.0		.6	10	0	"
945	3-1	0936 / 0946	"	18.3	9.93	2.65	0.58	26.3		.6	10	0	"
946	3-4	2130 / 2144	"	177.0	47.5	2.40	1.11	114.0		.5 .6	13	-.01	"
947	3-11	0342 / 0400	BLAKELY - JOHNSON	177.0	80.8	3.28	1.24	265.		.5 .6	15	-.04	"
948	3-17	1346 / 1354	BLAKELY - DIAS	18.1	9.14	2.76	0.52	25.2		.5	10	0	"
949	3-24	1255 / 1303	BLAKELY - LANG	18.5	10.8	3.04	0.61	32.9		.6	10	0	"
950	3-31	1425 / 1433	BLAKELY	18.7	12.3	2.88	0.71	35.5		.6	10	0	"
951	4-7	1423 / 1431	"	19.1	13.5	2.34	0.77	31.6		.6	10	0	"
952	4-14	1423 / 1447	"	20.0	16.5	1.69	0.93	27.9		.6	10	0	"
953	4-21	1453 / 1501	"	19.0	13.0	2.32	0.73	30.1		.6	10	0	"
954	4-28	1304 / 1312	BLAKELY - JOHNSON	19.5	15.8	1.75	0.92	27.6		.6	10	0	"
955	5-5	1524 / 1536	BLAKELY	19.6	15.8	1.74	0.86	27.5		.6	10	0	"
956	5-12	1018 / 1032	"	19.3	14.5	1.77	0.80	25.6		.6	10	0	"
957	5-19	0045 / 0105	"	177.0	93.6	3.22	1.27	302.		.5 .6	15	+.10	"
958	5-26	1400 / 1410	"	18.3	10.2	2.51	0.59	25.6		.6	10	0	"
959	6-2	1516 / 1526	"	18.7	11.5	2.24	0.65	25.7		.6	10	0	"
960	6-9	1238 / 1245	BLAKELY - MIRON	19.1	13.6	1.83	0.77	24.9		.6	10	0	"
961	6-15	1458 / 1517	BOLLINGER	19.3	15.1	1.59	0.84	24.0		.6	13	0	FC6
962	6-22	1601 / 1622	"	19.1	14.2	1.45	0.82	20.6		.6	13	0	"
963	6-30	1417 / 1427	BLAKELY	18.9	12.8	1.87	0.72	24.0		.6	10	0	FC35
964	7-7	1547 / 1555	"	19.3	14.8	1.75	0.81	25.9		.6	10	0	"
965	7-13	1550 / 1600	"	19.1	13.3	1.81	0.75	24.1		.6	10	0	"
966	7-21	1522 / 1530	"	18.7	11.9	1.69	0.70	20.1		.6	10	0	"
967	7-27	1327 / 1335	BOLLINGER	17.5	6.94	1.69	0.40	11.7	FLOATS	7	0		"
968	8-3	1403 / 1416	"	17.1	4.12	0.97	0.30	4.0		.6	10	-.01	FC6
969	8-11	1502 / 1511	BLAKELY	17.4	5.74	1.52	0.33	8.7		.5	10	0	FC35
970	8-18	1406 / 1416	"	17.8	7.48	2.20	0.46	16.4		.5	10	+.02	"
971	8-25	1443 / 1451	"	17.8	7.27	1.72	0.42	12.5		.5	10	0	"
972	9-1	1408 / 1420	"	17.8	7.07	1.61	0.41	11.4		.5	10	-.01	"
973	9-8	1047 / 1055	"	17.8	7.30	1.72	0.42	12.5		.5	10	0	"
974	9-15	1325 / 1348	BOLLINGER	17.4	5.68	1.00	0.35	5.7		.6	12	-.01	FC6
975	9-21	1600 / 1617	"	17.0	4.44	0.79	0.27	3.5		.6	11	0	"
976	9-29	1343 / 1353	BLAKELY	17.0	4.01	1.27	0.25	5.1		.5	10	0	FC35

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F57C-R

Daily discharge, in second-feet of LOS ANGELES RIVER above Arroyo Seco, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.2	4.9	8.4	10	42	13	42	21	12	6.9	5.6	5.9
2	4.2	4.2	4.9	12	43	15	45	4.6	22	6.9	6.9	5.9
3	4.2	3.9	4.9	11	43	17	55	5.2	10	6.9	7.9	5.9
4	4.2	3.9	81	9.0	45	16	39	6.9	9.5	6.4	7.4	6.4
5	4.6	3.9	228	14	309	16	40	7.4	9.0	5.6	6.9	5.9
6	5.2	3.6	99	15	209	19	46	9.0	8.4	5.6	7.4	4.9
7	4.9	3.9	29	14	88	16	38	10	9.0	5.9	6.9	4.6
8	4.9	3.9	8.4	21	81	16	39	10	21	5.6	5.6	4.9
9	4.9	3.6	5.6	56	63	19	39	10	7.9	5.9	4.9	5.2
10	4.9	3.9	5.9	47	45	19	64	10	7.9	4.9	5.2	5.2
11	5.2	3.9	5.9	52	54	21	38	10	7.4	4.9	4.9	5.2
12	4.2	4.2	6.4	57	54	20	37	9.5	7.4	5.6	4.9	5.2
13	4.2	4.2	6.4	57	48	127	38	10	5.9	6.4	4.9	5.2
14	4.2	4.2	6.9	59	9.0	149	35	9.5	6.4	6.9	4.9	5.9
15	4.2	4.6	6.9	57	13	84	37	8.4	6.9	6.4	4.9	6.4
16	4.2	4.2	8.4	56	13	43	37	7.9	6.4	6.4	4.6	5.9
17	4.2	4.2	8.4	25	16	178	38	7.9	6.9	6.4	4.9	5.9
18	4.2	3.6	9.0	16	16	56	39	8.4	6.9	6.4	5.2	5.9
19	4.2	3.6	9.0	10	16	65	40	9.0	6.9	6.4	5.6	5.6
20	4.2	3.6	9.5	12	16	39	37	8.4	5.9	6.4	5.9	5.2
21	4.2	3.6	10	15	16	32	33	7.4	5.6	6.4	5.9	5.2
22	4.6	12	10	16	15	32	35	6.9	6.4	6.4	5.6	5.2
23	4.6	5.6	10	17	15	34	35	6.9	6.4	7.4	5.6	5.2
24	4.2	4.2	10	43	15	498	35	6.9	7.4	7.4	5.9	4.9
25	4.2	4.2	10	42	15	106	35	7.4	7.9	6.4	6.4	4.6
26	4.6	4.9	10	43	15	52	33	8.4	8.4	5.9	6.9	4.2
27	4.6	4.6	10	45	19	42	9.5	9.5	7.4	7.4	6.9	4.9
28	4.9	4.2	11	45	29	38	49	9.0	7.4	5.9	6.4	5.2
29	4.9	4.6	10	45	16	42	101	9.0	7.4	4.2	5.9	5.2
30	4.9	4.6	10	46		42	34	7.9	7.4	4.9	5.6	5.2
31	4.9		11	43		40		8.4		4.9	5.6	
	139.8	132.5	663.9	1010.0	1378.0	1906.0	1222.5	270.8	255.4	190.0	182.1	161.0
MEAN	4.51	4.42	21.4	32.6	47.5	61.5	40.7	8.74	8.51	6.13	5.87	5.37
ACRE-FEET	277.	263.	1320.	2000.	2730.	3780.	2420.	537.	507.	377.	361.	319.

Remarks:

YEAR OR PERIOD MEAN 20.5
ACRE-FEET 14,890.

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

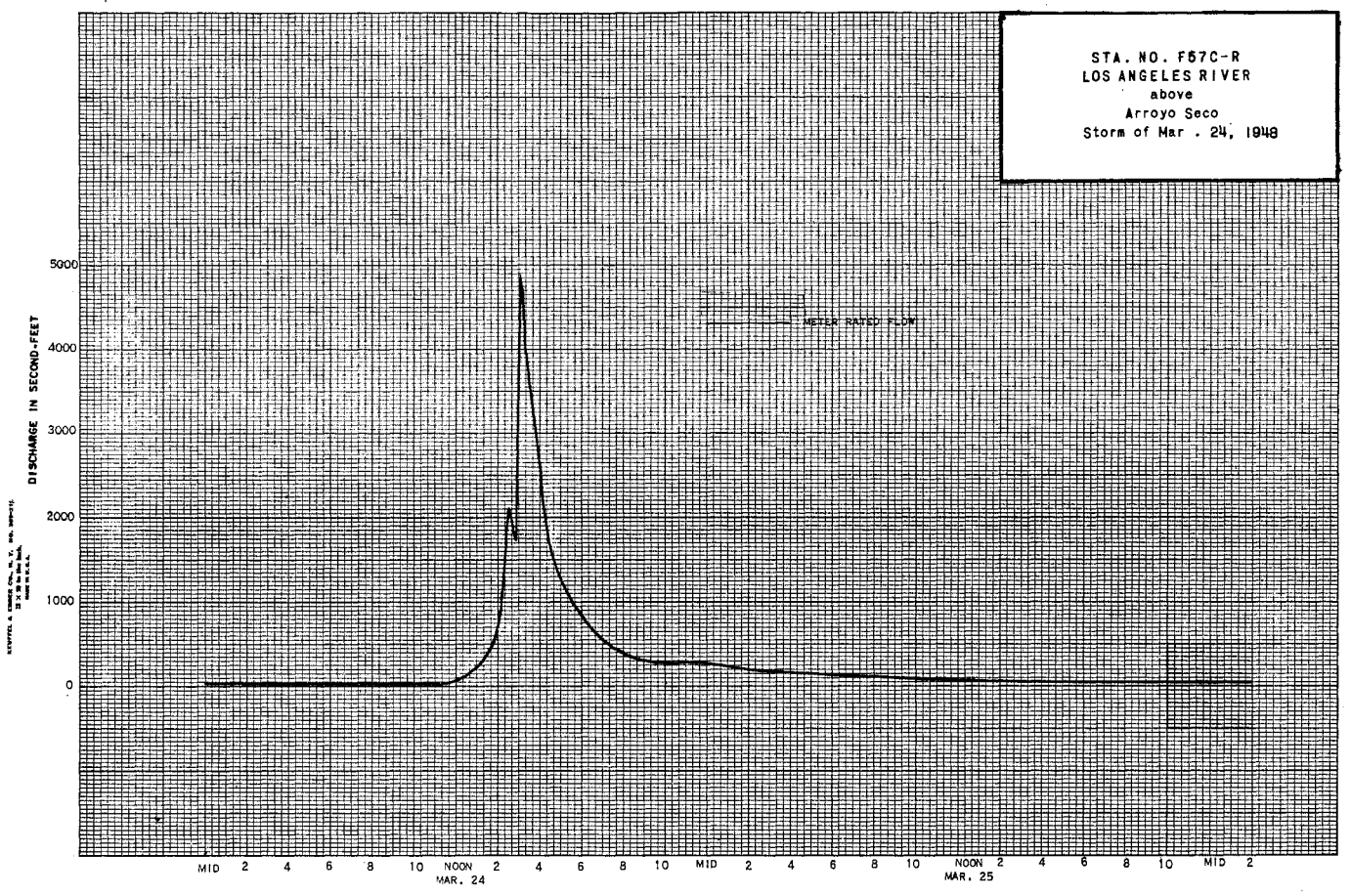
Sta. No. F57C-R

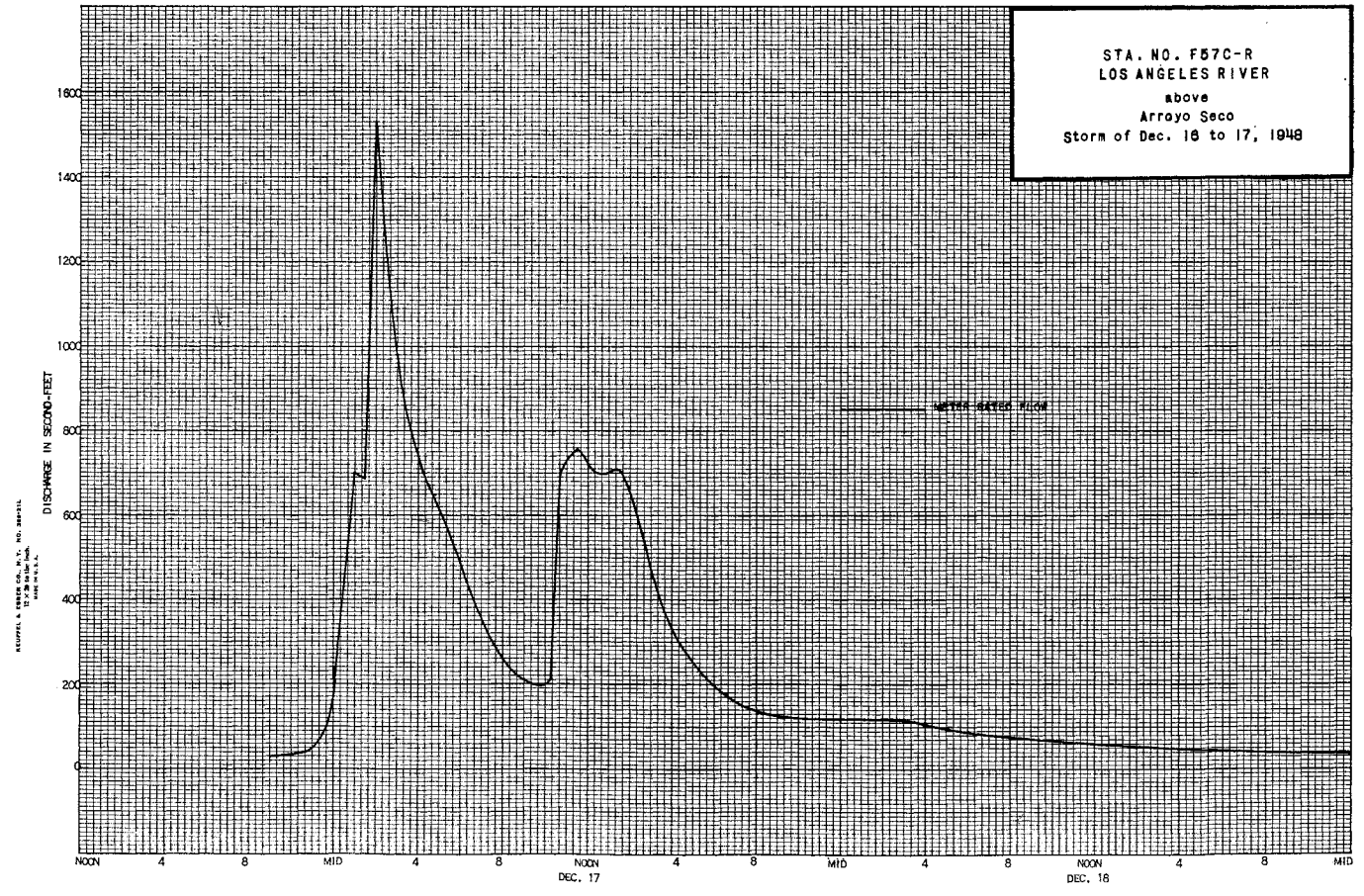
Daily discharge, in second-feet of LOS ANGELES RIVER above Arroyo Seco, for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.2	4.6	4.6	27	26	26	32	33	26	24	7.4	13
2	4.9	4.6	4.9	26	25	28	32	33	28	23	6.4	13
3	4.6	4.9	8.8	26	62	34	30	30	30	23	6.4	12
4	a 5.1	4.9	8.0	30	30	70	34	29	29	24	7.4	10
5	5.4	4.6	5.2	33	33	39	32	28	28	27	7.9	10
6	5.7	4.6	4.6	27	24	25	33	25	30	28	8.4	10
7	5.9	4.6	5.2	26	97	39	32	21	30	26	9.0	11
8	5.9	4.9	5.2	25	30	29	30	21	29	25	9.5	11
9	5.8	4.9	5.6	27	28	27	28	22	26	24	10	10
10	5.7	4.9	28	26	25	52	25	24	25	22	9.5	16
11	a 5.6	4.9	9.5	86	52	152	28	23	20	24	9.0	9.5
12	5.6	4.9	14	86	27	25	28	24	18	25	9.0	10
13	4.9	4.9	18	92	24	21	27	24	22	23	9.5	10
14	4.6	4.9	21	53	26	20	28	24	24	23	9.0	10
15	4.9	4.9	24	30	26	25	29	20	24	23	7.9	9.5
16	5.2	5.2	32	26	27	23	29	19	27	23	9.0	7.9
17	5.2	5.2	451	26	26	25	28	21	27	21	13	5.9
18	6.4	5.2	69	27	27	26	32	30	24	21	16	5.2
19	5.6	5.2	37	94	27	44	29	135	19	27	13	5.2
20	5.6	5.6	37	194	26	27	29	26	19	23	11	5.9
21	5.2	4.9	52	35	27	26	29	23	20	20	9.5	5.9
22	4.9	5.2	89	77	28	29	29	20	20	13	10	5.9
23	4.6	5.2	63	47	28	32	27	16	21	14	13	5.9
24	4.6	5.2	43	33	59	35	34	20	22	13	13	5.9
25	4.2	5.2	26	29	31	33	37	24	23	13	13	5.2
26	4.6	5.2	57	27	51	29	33	28	22	13	13	4.9
27	4.9	4.9	202	27	44	28	32	29	22	11	11	5.6
28	4.9	4.6	39	26	27	30	29	29	22	10	10	5.6
29	4.9	4.9	27	26		32	32	27	22	10	10	5.6
30	4.9	4.6	26	25		33	34	25	24	9.0	13	5.2
31	4.9		26	26		33		27		7.9	13	
	160.4	148.3	1442.6	1365.0	963.0	1097.0	911.0	880.0	723.0	612.9	316.8	250.8
MEAN	5.17	4.94	46.5	44.0	34.4	35.4	30.4	28.4	24.1	19.8	10.2	8.36
ACRE-FEET	318.	294.	2860.	2710.	1910.	2180.	1810.	1750.	1430.	1220.	628.	497.

Remarks:

YEAR OR PERIOD MEAN 24.3
ACRE-FEET 17,600.


STA. NO. F57C-R
LOS ANGELES RIVER
above
Arroyo Seco
Storm of Mar . 24, 1948
METER RATED 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 2
MAR. 24
MAR. 25


STA. NO. F57C-R
LOS ANGELES RIVER
above
Arroyo Seco
Storm of Dec. 16 to 17, 1948
METER RATED FLOW
DISCHARGE IN SECOND-FEET
1600
1400
1200
1000
800
600
400
200
0
NOON 4 8 MID 4 8 NOON 4 8 MID 4 8 NOON 4 8 MID
DEC. 17
DEC. 16

STATION F34B-R
LOS ANGELES RIVER at Firestone Boulevard

LOCATION: WATER-STAGE RECORDER, LAT. 33°57'03", LONG. 118°10'22", ON THE DOWNSTREAM SIDE OF FIRESTONE BOULEVARD BRIDGE, ABOUT 3 MI. WEST OF DOWNEY. ELEVATION OF ZERO GAGE HEIGHT, 95.16 FEET.

DRAINAGE AREA: 614 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - SAND AND SILT, ABOUT 340 FEET WIDE WITH 3:1 RIPRAPPED SLOPES. CONTROL - CONCRETE SILL ACROSS CHANNEL BOTTOM ABOUT 150 FEET BELOW STATION. CONTROL WAS REMOVED SEPTEMBER 1948 PENDING NEW BRIDGE CONSTRUCTION.

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, 1947 TO SEPTEMBER 30, 1949.

REGULATION: FLOW IS SUBJECT TO SAME REGULATION AS STATION F57C-R. IN ADDITION, THE FLOW IS PARTIALLY REGULATED BY DEVIL'S GATE DAM.

DIVERSIONS: FLOW IS SUBJECT TO SAME DIVERSIONS AS STATION F57C-R. SEVERAL IRRIGATION DIVERSIONS IN THE MOUNTAIN TRIBUTARIES; SOME FLOW IS DIVERTED AT SEVERAL WATER SUPPLY RESERVOIRS AND THE LOS ANGELES WATER DEPARTMENT DIVERTS FLOW FOR SPREADING. THE CITY OF PASADENA DIVERTS WATER FROM THE ARROYO SECO.

RECORDS AVAILABLE:
AT STATION F34-R - MARCH 1, 1928 TO APRIL 11, 1938. (FOR PREVIOUS RECORDS SEE STATE OF CALIFORNIA DIVISION OF WATER RIGHTS BULLETIN NO. 5).
AT STATION F34B-R - APRIL 11, 1938 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:
1947-1948
MAXIMUM 8,980 SECOND-FEET, MARCH 24.
MINIMUM 8 SECOND-FEET, JULY 5.
1948-1949
MAXIMUM 5,300 SECOND-FEET, DECEMBER 17.
MINIMUM 11 SECOND-FEET, AUGUST 2.
1928-1949 (STATIONS F34-R AND F34B-R)
MAXIMUM 79,000 SECOND-FEET, ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW AT VARIOUS TIMES PRIOR TO 1940. FLOW CONTINUOUS IN RECENT YEARS DUE TO INDUSTRIAL WASTES.

ACCURACY: GOOD IN 1947-1948, FAIR IN 1948-49.

OPERATION: LOCATED AND CONSTRUCTED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT WITH THE COOPERATION OF CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY AND THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

AT ~~NEAR~~ Firestone Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19~~48~~ 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT-ING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
884	10-2	0840 / 0855	BONADIMAN	34.0	20.1	1.18	3.54	23.9		.6	7	0	FC19
885	10-10	0940 / 0955	"	34.0	19.9	1.02	3.54	20.2		.6	7	0	"
886	10-16	0834 / 0845	"	32.0	18.4	1.15	3.55	21.2		.6	7	0	"
887	10-23	0830 / 0840	"	33.0	17.2	1.08	3.56	18.6		.6	7	0	"
888	10-30	0830 / 0844	"	34.0	22.8	1.04	3.57	23.8		.6	8	0	"
889	11-6	0818 / 0830	"	33.0	17.5	1.01	3.58	17.7		.6	8	0	"
890	11-13	0824 / 0836	"	32.0	17.0	1.16	3.55	19.8		.6	8	0	"
891	11-20	0844 / 0856	"	33.0	18.1	0.87	3.57	15.7		.6	7	0	"
892	11-28	0820 / 0836	"	32.0	16.0	1.04	3.51	16.6		.6	7	0	"
893	12-4	1400 / 1421	"	150.0	186.	1.64	4.21	306.		.6	10	+ .02	"
894	12-5	0132 / 0200	BONADIMAN-KASIMOFF	350.0	602.	2.95	5.01	1775.		.6	14	-.06	"
895	12-5	1117 / 1130	" "	175.0	220.	1.91	3.97	420.		.6	7	-.02	"
896	12-6	0840 / 0900	"	TWO CHANNELS			3.65	233.		.6	11	C	"
897	12-11	0830 / 0844	BONADIMAN	35.0	21.7	1.02	3.23	22.2		.6	7	C	"
898	12-18	0806 / 0818	"	36.0	21.1	1.14	3.22	24.1		.6	7	C	"
899	12-26	0838 / 0850	"	36.0	17.9	1.04	3.19	18.6		.6	9	C	"
900	12-31	0844 / 0856	"	38.0	24.8	1.12	3.26	27.7		.6	7	C	"
901	1-8	0920 / 0935	"	36.0	24.5	1.28	3.31	31.3		.6	8	0	"
902	1-15	0835 / 0852	"	36.0	44.4	1.59	3.52	70.9		.6	8	0	"
903	1-22	0844 / 0856	"	34.0	27.9	1.02	3.40	28.6		.6	8	0	"
904	1-29	0840 / 0856	"	36.0	49.2	1.46	3.57	72.0		.6	8	0	"
905	2-5	0742 / 0806	"	330.0	470.	2.40	4.72	1130.		.6	13	+ .27	"
906	2-5	0812 / 0836	"	330.0	662.	3.44	5.10	2280.		.6	14	+ .15 -.05	"
907	2-6	0910 / 0938	KASIMOFF	160.0	216.	1.86	3.90	403.		.6	12	0	"
908	2-12	0836 / 0850	BONADIMAN	155.0	83.7	1.15	3.43	96.7		.6	11	0	"
909	2-19	0841 / 0912	BONADIMAN - SILL	37.0	28.8	1.06	3.36	30.7		.6	9	0	"
910	2-26	0854 / 0906	BONADIMAN	37.0	25.7	1.13	3.36	29.2		.6	8	0	"
911	3-4	0836 / 0850	"	38.0	29.2	1.21	3.40	35.2		.6	8	0	"
912	3-11	0840 / 0856	"	39.0	32.6	1.05	3.43	34.2		.6	9	0	"
913	3-14	1020 / 1033	"	165.0	187.	1.26	3.68	235.		.6	10	0	"
914	3-15	0922 / 0938	"	165.0	133.	1.35	3.65	180.		.6	10	0	"
915	3-17	0326 / 0355	BONADIMAN - SILL	338.1	681.	2.92	5.26	1990.		.6	15	0	"
916	3-17	1210 / 1240	BONADIMAN - SILL	156.8	230.	2.09	3.94	482.		.6	10	C	"
917	3-18	0952 / 1008	BONADIMAN	160.0	127.	1.01	3.46	128		.6	14	0	"
918	3-19	1802 / 1820	"	161.7	306.	2.40	4.25	734.		.6	11	0	"
919	3-20	1038 / 1054	"	TWO CHANNELS			3.41	111.		.6	12	0	"
920	3-24	1520 / 1543	BONADIMAN - SILL	347.9	1360.	6.02	6.78	8190.		.6	12	0	"
921	3-25	0845 / 0910	SILL	155.0	215.	1.37	3.62	295.		.6	9	0	"
922	4-1	0916 / 0930	BONADIMAN	161.7	200.	0.47	3.34	94.2		.6	10	C	"
923	4-3	1454 / 1516	"	161.7	241.	1.45	3.70	350.		.6	13	0	"
924	4-8	0844 / 0858	"	156.8	223.	0.48	3.33	108.		.6	10	0	"
925	4-16	0946 / 0958	"	28.0	32.0	1.66	3.33	53.2		.6	8	0	"
926	4-21	1540 / 1552	BLAKELY - BONADIMAN	39.0	34.4	1.49	3.33	51.3		.6	9	0	FC35
927	4-29	0941 / 1003	BONADIMAN - MILLS	163.0	200.	1.22	3.64	244.		.6	10	-.02	FC19
928	5-6	0900 / 0920	BONADIMAN	37.0	19.8	1.32	3.14	26.2		.6	10	0	"
929	5-13	0927 / 0940	"	36.0	20.4	1.20	3.15	24.4		.6	11	0	"
930	5-20	0854 / 0908	"	32.0	19.8	1.16	3.20	23.0		.6	8	0	"
931	5-27	0918 / 0932	"	29.0	19.3	1.26	3.20	24.3		.6	11	0	"
932	6-9	0846 / 0858	"	30.8	18.6	1.20	3.23	22.4		.6	8	0	"
933	6-17	0838 / 0850	"	24.0	15.4	1.24	3.23	19.1		.6	7	0	"
934	6-24	0836 / 0906	BONADIMAN - BARON	23.0	18.1	1.16	3.24	21.1		.6	7	0	"
935	7-2	0910 / 0920	BONADIMAN	22.0	16.5	1.24	3.23	20.4		.6	7	0	"
936	7-8	0906 / 0920	"	23.0	16.3	1.18	3.24	19.2		.6	8	0	"
937	7-15	0942 / 0952	"	24.0	17.8	1.22	3.20	21.7		.6	6	C	"
938	7-22	0922 / 0935	"	21.0	16.6	1.18	3.22	19.6		.6	6	0	"
939	7-28	0918 / 0926	"	21.0	16.9	1.20	3.20	20.3		.6	6	0	"
940	8-5	0908 / 0918	"	22.0	16.6	1.32	3.21	21.9		.6	7	0	"
941	8-12	0920 / 0930	"	23.0	17.0	1.22	3.23	20.7		.6	8	0	FC46
942	8-19	0925 / 0955	"	21.5	17.8	1.18	3.19	21.0		.6	7	C	"
943	8-26	0942 / 0952	"	22.0	18.2	1.01	3.16	18.5		.6	7	0	"
944	9-2	0948 / 0958	"	20.0	13.8	1.42		19.6		.6	6		"
945	9-7	1522 / 1536	WADDICOR	27.0	10.4	1.42		14.8		.6	9		FC37
946	9-17	0900 / 0910	"	24.0	14.6	1.16		17.0		.6	9		"
947	9-23	1444 / 1455	"	29.0	32.6	0.68		22.2		.6	10		"
948	9-29	0840 / 0850	"	20.0	8.81	1.49		13.1		.6	7		"

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

AT ~~NEAR~~ Firestone Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
949	10-6	0845 / 0855	WADDICOR	29.0	23.5	0.69	1.50	16.3		.6	10	0	FC37
950	10-14	0936 / 0950	BONADIMAN	31.0	13.5	1.25	1.48	16.9		.6	10	0	FC19
951	10-21	1002 / 1014	"	30.0	14.1	1.18	1.55	16.6		.6	9	0	"
952	10-28	0932 / 0946	"	30.0	14.6	1.56	1.50	22.8		.6	9	0	"
953	11-4	0948 / 1000	"	23.0	13.2	1.63	1.55	21.6		.6	8	0	"
954	11-10	0932 / 0942	"	30.0	13.9	1.40	1.50	19.5		.6	7	0	"
955	11-19	0942 / 0956	"	25.4	13.1	1.45	1.50	19.0		.6	10	0	"
956	11-24	0910 / 0940	BONADIMAN - WILLUT	25.4	12.8	1.58	1.43	20.2		.5 .6	8	0	"
957	12-2	0944 / 0956	BONADIMAN	27.0	14.1	1.37	1.55	19.3		.6	9	0	"
958	12-9	0932 / 0946	"	28.0	13.1	1.34	1.48	17.6		.6	10	0	"
959	12-16	0910 / 0940	"	32.0	21.5	1.75	1.60	37.5		.6	10	0	"
960	12-17	0206 / 0242	BONADIMAN - JOHNSON	TWO CHANNELS			5.98	3360.		.6	12	-.35	"
961	12-17	1142 / 1200	" "	225.0	292.	2.23	4.10	621.		.6	10	-.02	"
962	12-18	0916 / 0930	" "	80.0	128.	1.44	3.30	184.		.6	7	0	"
963	12-23	0910 / 0936	BONADIMAN	68.6	57.6	1.90	3.32	109.		.6	7	0	"
964	12-26	2332 / 2358	BONADIMAN - JOHNSON	TWO CHANNELS			4.41	1840.		.6	11	-.08	"
965	12-27	0926 / 0947	" "	TWO CHANNELS			3.56	504.		.6	9	-.02	"
966	12-28	1002 / 1014	BONADIMAN	31.0	33.3	2.40	2.06	79.9		.6	7	0	"
967	12-30	0940 / 0952	"	25.0	22.0	1.75	1.82	38.4		.6	7	0	"
968	1-6	0850 / 0910	DIAS - BONADIMAN	36.0	23.2	1.56	1.79	36.2		.6	10	0	"
969	1-11	0933 / 0953	BONADIMAN	110.0	154.	1.95	3.38	300		.6	9	-.10	"
970	1-13	0602 / 0622	BONADIMAN - JOHNSON	102.9	157.	2.14	2.95	336.		.6	7	-.02	"
971	1-14	1332 / 1344	BONADIMAN	25.0	31.6	2.98	1.89	94.2		.6	6	-.02	"
972	1-20	0050 / 0108	BONADIMAN - JOHNSON	TWO CHANNELS			4.24	1580.		.6	12	-.06	"
973	1-21	1022 / 1036	BONADIMAN	31.0	31.7	2.00	1.83	64.3		.6	8	0	"
974	1-27	0934 / 0946	"	33.0	25.3	1.48	1.48	37.4		.6	10	0	"
975	2-3	0842 / 0854	"	29.0	25.1	1.26	1.40	31.7		.6	9	0	"
976	2-3	1302 / 1320	"	205.0	344.	2.80	3.91	962.		.6	15	-.09	"
977	2-4	1410 / 1424	"	30.0	23.3	1.70	1.47	39.7		.6	10	0	"
978	2-7	1142 / 1210	"	TWO CHANNELS			4.56	2110.		.6	14	0	"
979	2-8	1400 / 1416	"	34.0	33.6	1.39	1.61	46.6		.6	10	0	"
980	2-10	0912 / 0924	"	28.0	21.8	1.57	1.51	34.2		.6	9	0	"
981	2-12	0830 / 0842	"	29.0	29.2	1.86	1.47	54.3		.6	8	0	"
982	2-17	0922 / 0934	"	28.0	25.0	1.40	1.42	35.0		.6	9	0	"
983	2-24	0900 / 0920	"	27.0	25.4	1.32	1.37	33.6		.6	8	0	"
984	2-28	1000 / 1012	"	28.0	23.3	1.84	1.30	43.0		.6	8	.0	"
985	3-3	0850 / 0906	"	29.0	29.8	1.85	1.48	55.3		.6	8	0	"
986	3-4	1721 / 1740	"	220.0	375.	2.67	3.89	1000.		.6	11	-.19	"
987	3-4	2036 / 2054	BONADIMAN - JOHNSON	230.0	391.	2.81	3.84	1100.		.6	10	+.06	"
988	3-5	0912 / 0922	BONADIMAN	27.0	31.2	1.95	1.68	60.8		.6	9	0	"
989	3-10	0930 / 0944	"	30.0	27.0	1.67	1.51	45.2		.6	9	0	"
990	3-11	0130 / 0154	BONADIMAN - JOHNSON	TWO CHANNELS			4.44	1760.		.6	12	-.08	"
991	3-11	1428 / 1440	" "	34.0	50.6	3.32	2.12	168.		.6	7	-.02	"
992	3-17	0912 / 0924	BONADIMAN	32.0	24.3	1.39	1.57	33.7		.6	9	0	"
993	3-24	0932 / 0944	"	30.0	29.4	1.35	1.38	39.8		.6	8	0	"
994	3-31	0912 / 0925	"	30.0	30.0	1.59	1.41	47.8		.6	8	0	"
995	4-7	0922 / 0932	"	25.0	25.6	1.39	1.38	35.7		.6	7	0	"
996	4-14	0918 / 0928	"	26.0	26.6	1.67	1.40	44.3		.6	7	0	"
997	4-21	0922 / 0934	"	26.0	23.1	1.32	1.36	30.5		.6	7	0	"
998	4-28	0902 / 0916	"	26.0	25.6	1.35	1.41	34.6		.6	7	0	"
999	5-5	0920 / 0932	"	28.0	34.0	1.11	1.78	37.8		.6	7	0	"
1000	5-12	0902 / 0914	"	27.0	23.6	1.22	1.74	28.7		.6	8	0	"
1001	5-19	0915 / 0930	"	128.0	222.0	2.07	3.54	459.0		.5 .6	10	-.04	"
1002	5-20	0910 / 0922	"	31.0	35.6	1.43	2.07	51.1		.6	8	0	"
1003	5-26	0932 / 0944	"	33.0	27.3	1.27	1.96	34.8		.6	9	0	"
1004	6-2	0900 / 0910	BONADIMAN - STUNDEN	32.0	26.3	1.45	1.88	38.2		.6	9	0	"
1005	6-9	0905 / 0920	BONADIMAN	31.0	28.9	1.30	1.98	37.7		.6	8	0	"
1006	6-16	0920 / 0945	"	32.0	30.1	1.23	1.91	37.0		.6	8	0	"
1007	6-23	0904 / 0918	"	31.0	24.7	1.36	1.88	33.6		.6	9	0	"
1008	6-30	1610 / 1624	"	31.0	35.9	1.07	2.78	38.3		.6	8	0	"
1009	7-7	0918 / 0930	"	31.0	37.4	0.94	2.78	35.1		.6	8	0	"
1110	7-14	0925 / 0950	REINHARD-BONADIMAN	37.0	31.8	1.11	2.78	35.4		.6	9	0	"
1111	7-21	0844 / 0856	BONADIMAN	34.0	27.1	1.15	2.74	31.2		.6	9	0	"
1112	7-28	0840 / 0852	"	30.0	15.7	1.15	2.45	18.0		.6	10	0	"
1113	8-4	0830 / 0850	"	30.0	16.8	1.08	2.42	18.2		.6	9	0	"
1114	8-11	0930 / 0944	"	30.0	17.7	1.18	2.47	20.9		.6	10	0	"
1115	8-18	0920 / 0932	"	33.0	21.1	1.29	2.44	27.2		.6	10	0	"
1116	8-25	0740 / 0752	"	32.0	20.3	1.23	2.37	24.9		.6	9	0	"
1117	9-1	0922 / 0934	"	32.0	19.8	1.11	2.39	22.0		.6	8	0	"
1118	9-8	0812 / 0822	WADDICOR	37.0	22.3	1.19	2.44	26.6		.6	8	0	FC37
1119	9-15	0907 / 0917	"	35.0	31.8	0.76	2.43	24.1		.6	9	0	"
1120	9-22	0915 / 0925	"	35.0	30.6	0.76	2.37	23.4		.6	9	0	"
1121	9-29	0850 / 0900	BONADIMAN	30.0	14.9	1.07	2.35	16.0		.6	8	0	FC19

F. C. Dist. Form 52 4-46

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 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	21	99	28	73	32	96	76	32	24	17	17
2	24	19	21	28	81	32	92	34	47	24	19	b 17
3	26	18	15	28	84	34	187	25	26	20	20	17
4	22	19	217	25	81	36	129	30	25	15	22	17
5	16	19	1090	31	1000	32	124	31	24	10	20	17
6	19	18	228	38	465	34	173	28	20	13	20	17
7	22	18	88	36	152	31	112	30	22	17	19	17
8	21	18	52	36	133	34	112	24	30	19	19	17
9	21	16	36	59	124	38	104	19	25	19	17	17
10	22	16	28	64	88	36	138	25	22	17	18	17
11	24	19	22	56	100	36	88	26	24	15	19	17
12	19	19	20	64	96	34	78	26	22	17	19	17
13	21	21	20	64	92	291	73	26	17	20	19	18
14	21	19	19	70	59	350	67	25	18	22	20	18
15	22	21	22	73	47	231	62	20	19	24	20	18
16	22	16	25	67	45	88	56	24	20	24	20	18
17	24	16	a 28	49	41	582	54	30	20	22	22	19
18	21	18	a 28	38	36	124	52	28	20	18	22	19
19	18	18	30	38	32	225	52	28	19	20	20	19
20	18	16	30	32	31	133	52	a 25	15	22	19	19
21	19	15	30	30	30	92	52	25	18	24	20	20
22	18	29	31	28	28	88	54	25	22	22	20	20
23	21	21	32	26	26	92	49	25	22	20	19	20
24	22	16	30	47	25	1280	47	25	24	22	20	19
25	24	18	22	49	28	307	45	25	24	19	19	18
26	21	19	22	59	30	147	49	25	20	22	18	17
27	21	18	28	64	30	129	41	a 25	16	24	18	16
28	21	18	26	70	41	120	96	26	19	22	18	15
29	24	21	28	76	38	112	320	25	24	17	18	15
30	24	21	30	81		104	96	22	24	20	18	b 15
31	19		32	81		100		20		18	17	
	659	561	2429	1535	3136	5004	2750	848	680	612	596	527
MEAN	21.3	18.7	78.4	49.5	108.	161.	91.7	27.4	22.7	19.7	19.2	17.6
ACRE-FEET	1310.	1110.	4820.	3040.	6220.	9930.	5450.	1680.	1350.	1210.	1180.	1050.

Remarks:

YEAR OR PERIOD MEAN 52.8
ACRE-FEET 38,350.

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

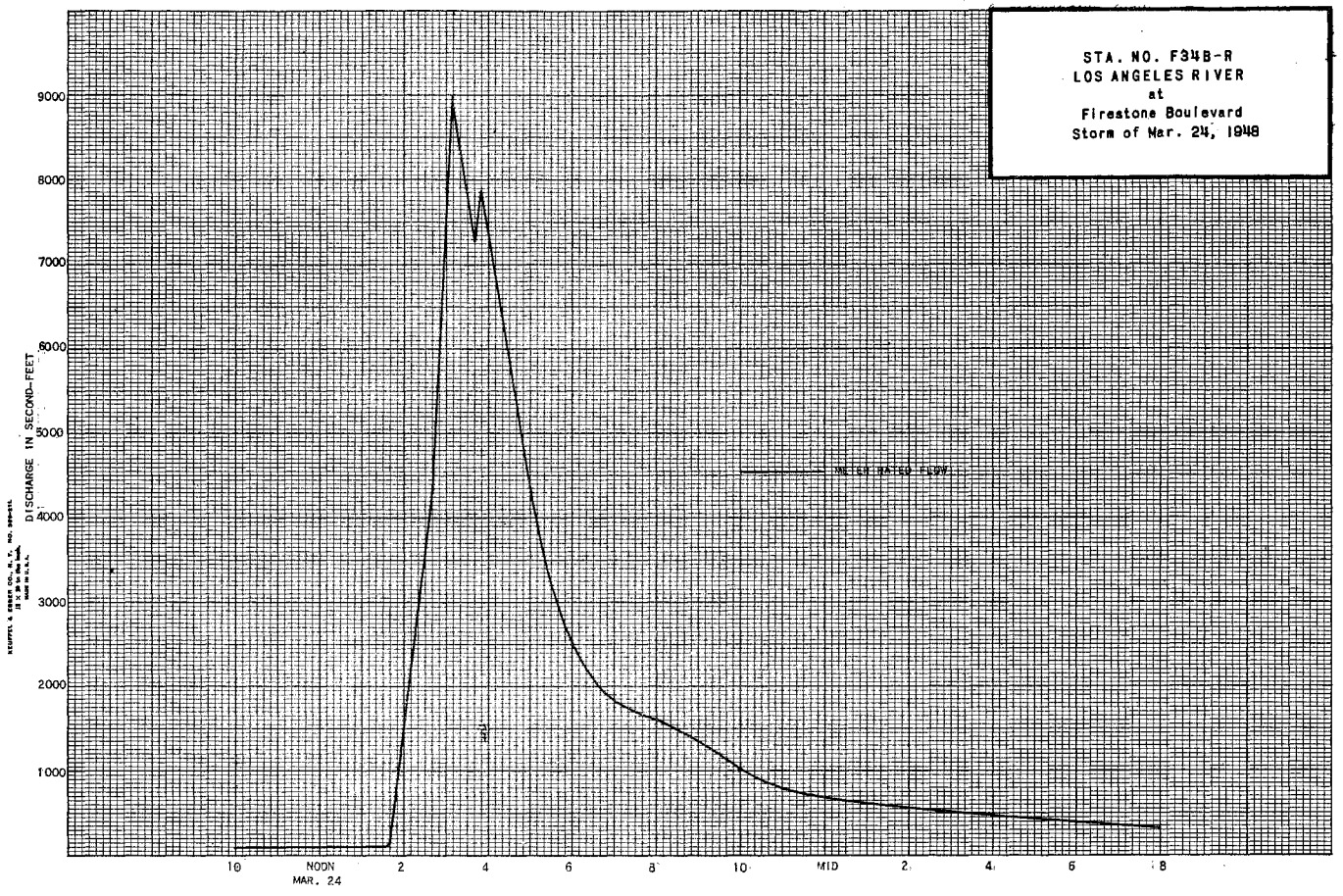
Sta. No. F34B-R

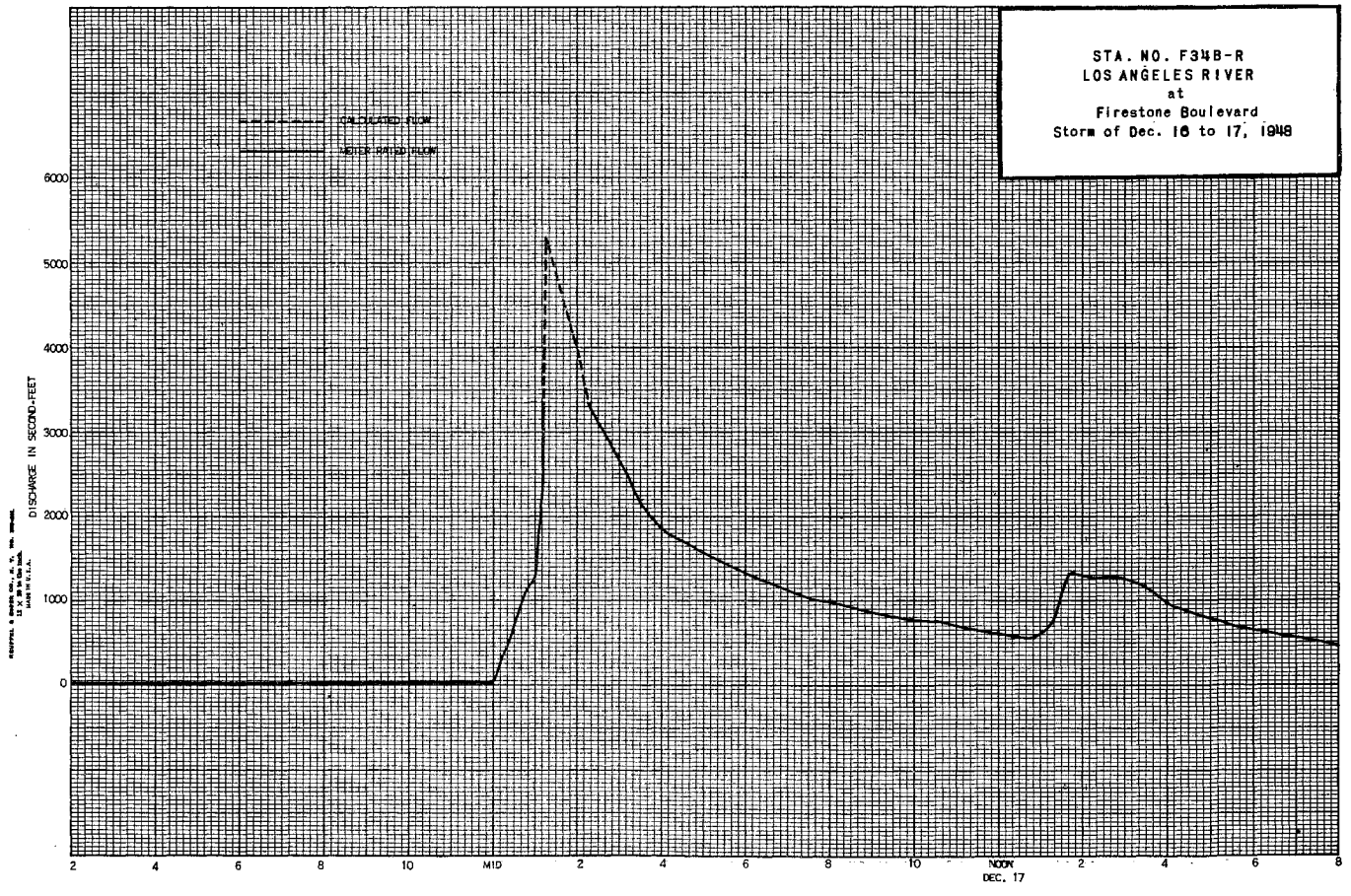
Daily discharge, in second-feet of Los Angeles River at Firestone Boulevard, for the year ending September 30, 19 49

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14	a 20	21	38	33	d 40	50	27	30	c 38	c 12	22
2	14	21	18	33	32	38	44	30	38	42	11	c 22
3	15	21	a 18	a 41	199	d 56	39	34	36	30	c 14	22
4	15	24	18	a 39	52	345	43	c 36	33	33	18	23
5	16	a 21	18	37	40	102	43	c 38	25	28	c 19	24
6	16	21	18	a 37	34	46	42	44	30	c 32	20	25
7	16	18	18	36	388	57	37	38	33	35	20	c 26
8	17	14	18	35	66	50	36	27	35	c 35	21	27
9	16	18	a 18	a 34	43	46	35	29	41	35	21	c 27
10	17	24	20	a 33	36	57	31	32	46	35	c 21	26
11	17	22	27	f220	111	581	37	34	43	35	21	26
12	16	20	24	228	74	56	41	33	35	35	c 20	25
13	17	18	24	332	38	41	43	37	35	c 35	20	25
14	17	16	30	b100	41	41	45	37	37	35	19	c 24
15	16	a 20	34	62	42	38	42	27	41	c 33	15	24
16	15	26	41	58	38	35	37	37	41	31	18	c 24
17	14	a 22	f1130	58	35	34	28	78	37	28	c 23	23
18	14	21	170	58	37	31	36	118	32	28	27	23
19	15	b 21	75	307	34	60	37	333	25	29	c 22	23
20	16	b 20	61	f843	28	43	31	53	25	c 30	19	23
21	18	18	63	b 53	31	33	33	42	31	31	15	c 23
22	18	b 20	181	184	35	36	33	33	31	c 25	16	23
23	16	b 25	d110	68	33	38	29	35	34	21	19	c 23
24	15	24	d 75	54	107	43	25	37	35	18	c 22	22
25	14	18	a 68	46	68	46	30	39	e 36	17	25	21
26	16	19	a276	42	71	39	34	40	36	17	c 23	20
27	20	b 18	681	39	161	36	36	41	36	c 17	21	19
28	24	16	a120	36	d 43	44	34	37	37	18	19	c 17
29	24	18	f 53	34		44	34	33	c 38	c 16	21	16
30	22	22	43	34		45	30	34	38	15	23	c 16
31	19		42	35		50		33		c 14	c 22	
	519	606	3513	3254	1950	2251	1095	1526	1050	871	607	684
MEAN	16.7	20.2	113.	105.	69.6	72.6	36.5	49.2	35.0	28.1	19.6	22.8
ACRE-FEET	1030.	1200.	6970.	6450.	3870.	4460.	2170.	3030.	2080.	1730.	1200.	1360.

Remarks:

YEAR OR PERIOD MEAN 49.1
ACRE-FEET 35,550.


STA. NO. F34B-R
LOS ANGELES RIVER
at
Firestone Boulevard
Storm of Mar. 24, 1948
METER RATED FLOW
DISCHARGE IN SECOND-FEET
9000
8000
7000
6000
5000
4000
3000
2000
1000
10
NOON
MAR. 24
2
4
6
8
10
MID
2
4
6
8


STA. NO. F34B-R
LOS ANGELES RIVER
at
Firestone Boulevard
Storm of Dec. 16 to 17, 1948
CALCULATED FLOW
METER RATED FLOW
DISCHARGE IN SECOND-FEET
6000
5000
4000
3000
2000
1000
0
2
4
6
8
10
MID
2
4
6
8
10
NOON
DEC. 17
2
4
6
8

STATION F180-R
LOS ANGELES RIVER at Pacific Coast Highway

LOCATION: WATER-STAGE RECORDER, LAT. 33°47'25", LONG. 118°12'17", ON THE DOWNSTREAM SIDE OF PACIFIC COAST HIGHWAY BRIDGE ABOUT 1.8 MILES UPSTREAM FROM THE PACIFIC OCEAN. ELEVATION OF ZERO GAGE HEIGHT, 0.00 FEET.

CHANNEL AND CONTROL: CHANNEL - FINE SAND AND SILT, 570 FEET WIDE WITH RIPRAPPED LEVEES. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM UPSTREAM SIDE OF PACIFIC COAST HIGHWAY BRIDGE.

RECORDER: INSTALLED OCTOBER 31, 1931, OVER AN 18-INCH DIAMETER CORRUGATED IRON STILLING WELL. A STEVENS CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949. AN AUXILIARY STILLING WELL AND RECORDER ARE MAINTAINED ON THE WEST SIDE OF THE CHANNEL.

REGULATION: FLOW IS SUBJECT TO THE SAME REGULATION AS STATION F349-R AND STATION F45-R.

DIVERSIONS: SEVERAL WATER SUPPLY RESERVOIRS IN THE LOS ANGELES RIVER AREA DIVERT FLOW. THE CITY OF PASADENA DIVERTS WATER FROM THE ARROYO SECO AND FROM EATON CREEK. VARIOUS CITIES, PARTIES AND AGENCIES HAVE MISCELLANEOUS DOMESTIC AND IRRIGATION DIVERSIONS. SEVERAL AGENCIES DIVERT FLOW AT VARIOUS LOCATIONS FOR SPREADING.

RECORDS AVAILABLE: OCTOBER 31, 1931 TO SEPTEMBER 30, 1949. FOR EARLIER RECORDS SEE STATION F36-R, LOS ANGELES RIVER AT WILLOW STREET.

EXTREMES OF DISCHARGE:
1947-1948
MAXIMUM 9,310 SECOND-FEET, MARCH 24.
MINIMUM 19 SECOND-FEET, SEVERAL DAYS.
1948-1949
MAXIMUM 5,520 SECOND-FEET, DECEMBER 17.
MINIMUM 7.8 SECOND-FEET, NOVEMBER 27.
1931-1949
MAXIMUM 99,000 SECOND-FEET, ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW IN 1930-1931 AND 1933-1934.

ACCURACY: FAIR FOR HIGH FLOW. POOR FOR LOW FLOWS DUE TO REMOVAL OF STREAM BED MATERIAL FOR ROAD BEDS.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH AND CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY.

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

AT ~~NEAR~~ Pacific Coast Highway DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
886	10-2	1302 / 1320	BONADIMAN	91.0	44.1	0.65	2.62	28.8		.6	12	0	FC19
887	10-10	1226 / 1240	"	TWO CHANNELS			2.70	26.5		.6	13	0	"
888	10-16	1304 / 1325	"	"	"		2.75	30.8		.6	15	0	"
889	10-23	1300 / 1320	"	"	"			24.5		.6	13		"
890	10-30	1144 / 1206	"	97.0	46.7	0.57	2.74	26.8		.6	18	0	"
891	11-6	1243 / 1306	"	96.0	44.8	0.47	2.72	21.2		.6	18	0	"
892	11-13	1300 / 1320	"	97.0	45.2	0.47	2.74	23.7		.6	15	0	"
893	11-20	1242 / 1300	"	85.0	43.2	0.54	2.74	23.8		.6	14	C	"
894	11-26	1134 / 1148	"	80.0	39.4	0.62	2.70	24.4		.6	10	0	"
895	12-4	1214 / 1230	"	112.0	66.2	1.22	2.95	80.6		.6	12	0	"
896	12-5	0417 / 0500	BONADIMAN - KASIMOFF	TWO CHANNELS			3.56	2172.		.6	15	+.33	"
897	12-5	0650 / 0915	" "	"	"		4.36	1736.		.6	13	0	"
898	12-6	1130 / 1210	" "	"	"		3.54	374.		.6	10	0	"
899	12-11	1232 / 1244	BONADIMAN	104.0	351.	0.07	2.73	24.9		.6	8	0	"
900	12-18	1140 / 1156	"	106.0	297.	0.14	2.69	41.3		.6	8	0	"
901	12-26	1220 / 1236	"	120.0	60.0	0.40	2.55	24.0		.6	11	0	"
902	12-31	1220 / 1234	"	110.0	93.9	0.39	2.70	36.9		.6	12	0	"
903	1-8	1308 / 1326	"	83.0	94.0	0.50	2.72	47.4		.6	10	0	"
904	1-15	1256 / 1310	"	110.0	114.	0.76	2.83	86.8		.6	11	0	"
905	1-22	1150 / 1210	"	100.0	86.3	0.47	2.57	40.6		.6	11	0	"
906	1-29	1254 / 1310	"	110.0	110.	0.85	2.75	93.4		.6	12	0	"
907	2-5	1255 / 1320	"	TWO CHANNELS			4.36	2020.		.6	13	+.01	"
908	2-6	1342 / 1415	BONADIMAN & KASIMOFF	"	"		3.48	376.		.6	15	0	"
909	2-12	1104 / 1118	BONADIMAN	83.0	76.8	1.27	2.58	97.4		.6	9	0	"
910	2-19	1135 / 1150	BONADIMAN - SILL	108.0	80.5	0.63	2.39	50.9		.6	12	0	"
911	2-26	1216 / 1234	BONADIMAN	100.0	81.6	0.58	2.42	47.2		.6	12	0	"
912	3-4	1240 / 1300	"	105.0	75.6	0.61	2.46	46.4		.6	12	0	"
913	3-11	1216 / 1232	"	105.0	74.1	0.63	2.48	47.0		.6	11	0	"
914	3-14	1220 / 1240	"	TWO CHANNELS			3.72	479.		.6	10	0	"
915	3-15	1402 / 1420	"	105.4	188.	1.63	3.23	306.		.6	11	0	"
916	3-17	0747 / 0819	BONADIMAN - SILL	TWO CHANNELS			4.42	2090.		.6	17	+.15	"
917	3-18	1232 / 1250	BONADIMAN	108.0	184.	0.84	2.98	154.		.6	12	0	"
918	3-20	0900 / 0920	"	106.0	178.	1.37	3.12	244.		.6	10	0	"
919	3-24	1834 / 1923	BONADIMAN - SILL	420.0	450.	5.46	6.18	7720.		.6	13	-.48	"
920	3-25	1255 / 1350	SILL - BONADIMAN	THREE CHANNELS			3.34	484.		.6	18	0	"
921	4-1	1220 / 1250	BONADIMAN	TWO CHANNELS			2.63	120.		.6	12	0	"
922	4-8	1300 / 1320	"	"	"		2.71	95.0		.6	13	0	"
923	4-16	1242 / 1310	"	"	"		2.68	74.8		.6	12	0	"
924	4-22	1230 / 1300	"	"	"		2.68	70.4		.6	12	0	"
925	4-29	1317 / 1338	BONADIMAN - MILLS	"	"		3.70	494.		.8	17	0	"
926	5-6	1230 / 1242	BONADIMAN	"	"			30.6		.6	12		"
927	5-13	1306 / 1316	"	60.0	34.6	0.89	2.57	30.9		.6	8	0	"
928	5-20	1310 / 1322	"	62.0	38.5	0.95	2.60	36.5		.6	9	0	"
929	5-27	1330 / 1343	"	60.0	36.1	1.03	2.60	37.1		.6	10	0	"
930	6-9	1316 / 1330	"	61.0	33.2	0.90	2.67	29.8		.6	8	0	"
931	6-17	1310 / 1322	"	58.0	32.0	0.91	2.67	28.0		.6	8	0	"
932	6-24	1340 / 1352	BARON - BONADIMAN	64.0	30.5	0.96	2.69	29.2		.6	8	0	FC19
933	7-2	1230 / 1246	BONADIMAN	56.0	26.5	0.90	2.69	23.8		.6	11	0	"
934	7-8	1316 / 1328	"	47.0	23.1	0.97	2.66	22.5		.6	9	0	"
935	7-15	1345 / 1400	"	40.0	25.1	1.29	2.70	32.4		.6	7	C	"
936	7-22	1330 / 1345	"	46.0	24.7	1.20	2.71	29.7		.6	7	0	"
937	7-28	1320 / 1334	"	40.0	19.7	0.95	2.70	18.8		.6	9	0	"
938	8-5	1244 / 1256	"	38.0	18.1	1.08	2.68	19.5		.6	10	C	"
939	8-12	1109 / 1124	BONADIMAN-VAN DER GOOT	45.0	22.6	1.20	2.71	27.2		.6 .5	11	0	FC46
940	8-19	1336 / 1350	BONADIMAN	36.0	19.4	1.03	2.70	20.1		.6	10	0	"
941	8-26	1300 / 1320	"	TWO CHANNELS			2.72	20.8		.6	14	0	"
942	9-2	1310 / 1330	"	"	"		2.70	21.7		.6	14	0	"
943	9-8	1540 / 1550	WADDICOR	48.0	29.7	1.09	2.70	32.5		.6	9	0	FC37
944	9-17	1130 / 1145	"	49.0	53.2	0.60	2.74	32.0		.6	11	0	"
945	9-23	1055 / 1107	"	48.0	40.6	0.59	2.71	24.3		.6	10	0	"
946	9-29	1130 / 1145	"	52.0	34.5	0.96	2.71	33.1		.6	12	C	"

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

AT OR NEAR Pacific Coast Highway DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
947	10-6	1110 / 1125	WADDICOR	54.0	56.6	0.70	2.72	39.8		.6	11	0	FC37
948	10-14	1250 / 1310	BONADIMAN	44.0	23.8	0.94	2.74	22.3		.6	8	0	FC19
949	10-21	1316 / 1330	"	43.0	21.8	0.90	2.72	19.5		.6	9	0	"
950	10-28	1300 / 1316	"	54.0	28.3	0.82	2.75	23.2		.6	10	0	"
951	11-4	1320 / 1334	"	49.0	28.4	0.90	2.79	25.7		.6	9	0	"
952	11-10	1310 / 1330	"	45.0	23.9	0.85	2.77	20.3		.6	11	0	"
953	11-19	1330 / 1350	"	41.0	21.4	0.92	2.75	19.7		.6	9	0	"
954	11-24	1230 / 1306	BONADIMAN - WILLUT	50.0	25.2	0.82	2.75	20.7		.5 .6	12	0	"
955	12-2	1310 / 1326	BONADIMAN	37.0	20.4	0.99	2.75	20.2		.6	8	0	"
956	12-9	1240 / 1300	"	46.0	25.0	1.08	2.78	27.0		.6	8	0	"
957	12-16	1230 / 1250	"	80.0	47.9	0.92	2.89	43.8		.6	12	0	"
958	12-17	0507 / 0544	BONADIMAN - JOHNSON	420.0	1180.	4.19	5.34	4940.		.6	11	-.32	"
959	12-17	1308 / 1330	"	TWO CHANNELS			3.95	844.		.6	13	-.01	"
960	12-18	1010 / 1040	"	"	"		3.37	276.		.6	16	0	"
961	12-23	1240 / 1306	BONADIMAN	"	"		3.11	184.		.6	13	0	"
962	12-27	0312 / 0330	BONADIMAN - JOHNSON	"	"		3.89	1370.		.6	12	+.04	"
963	12-27	1212 / 1240	" "	"	"		4.16	976.		.6	15	-.04	"
964	12-28	1140 / 1220	BONADIMAN	"	"		3.14	178.		.6	16	0	"
965	12-30	1320 / 1340	"	"	"		2.77	100.		.6	8	0	"
966	1-6	1132 / 1200	DIAS - BONADIMAN	76.0	39.8	0.91	2.73	36.3		EST. .6	14	0	"
967	1-13	0832 / 0856	BONADIMAN - JOHNSON	TWO CHANNELS			4.17	966.		.6	17	-.10	"
968	1-14	1440 / 1510	BONADIMAN	"	"		3.25	135.		.6	12	0	"
969	1-20	0436 / 0526	BONADIMAN - JOHNSON	"	"		4.55	2270.		.6	17	+.02	"
970	1-21	1410 / 1426	BONADIMAN	"	"		3.17	101.		.6	12	0	"
971	1-27	1236 / 1250	"	92.5	174.	0.74	2.85	81.5		.6	8	0	"
972	2-3	1110 / 1124	"	84.6	51.2	0.80	2.85	41.0		.6	11	0	"
973	2-3	1640 / 1700	"	TWO CHANNELS			3.57	360.		.6	14	-.02	"
974	2-4	1102 / 1158	"	"	"		3.08	106.		.6	13	0	"
975	2-7	1448 / 1510	BONADIMAN - JOHNSON	"	"		4.13	1010.		.6	17	+.02	"
976	2-7	1600 / 1632	" "	"	"		4.47	1610		.6	16	+.04	"
977	2-8	0824 / 0838	BONADIMAN	106.0	139.	0.94	3.29	130.		.6	11	0	"
978	2-10	1300 / 1320	"	43.0	37.3	1.17	2.89	43.9		.6	12	0	"
979	2-17	1310 / 1330	"	42.0	39.3	0.95	2.85	37.5		.6	11	0	"
980	2-24	1216 / 1230	"	41.0	32.0	1.12	2.82	35.9		.6	9	0	"
981	3-3	1234 / 1256	"	62.0	35.8	1.26	2.90	45.2		.6	10	0	"
982	3-4	2234 / 2300	BONADIMAN - JOHNSON	TWO CHANNELS			4.06	873.		.6	15	+.12	"
983	3-5	1146 / 1200	" "	"	"		3.61	285.		.6	15	0	"
984	3-10	1240 / 1300	BONADIMAN	50.0	36.8	1.17	2.86	43.2		.6	10	0	"
985	3-11	0632 / 0656	BONADIMAN - JOHNSON	423.0	917.	2.82	5.00	2590.		.6	17	+.08	"
986	3-12	1410 / 1424	BONADIMAN	105.4	115.	0.62	3.01	71.9		.6	10	0	"
987	3-17	1130 / 1150	"	65.0	44.5	0.88	2.85	39.0		.6	12	0	"
988	3-24	1126 / 1138	"	70.0	54.8	0.93	2.87	50.9		.6	10	0	"
989	3-31	1240 / 1258	"	72.0	40.6	1.07	2.82	43.7		.6	13	0	"
990	4-7	1240 / 1254	"	70.0	41.3	1.04	2.81	42.8		.6	11	0	"
991	4-14	1300 / 1320	"	72.0	45.7	0.95	2.78	43.6		.6	12	0	"
992	4-21	1240 / 1300	"	70.0	41.1	1.03	2.81	42.3		.6	11	0	"
993	4-28	1250 / 1310	"	70.0	45.6	0.95	2.82	43.3		.6	12	0	"
994	5-5	1220 / 1240	"	74.0	53.6	0.80	2.83	43.0		.6	13	0	"
995	5-12	1300 / 1320	"	71.0	43.1	0.88	2.79	37.9		.6	15	0	"
996	5-19	1146 / 1220	"	TWO CHANNELS			3.75	334.		.6	16	+.02	"
997	5-20	1300 / 1320	"	"	"		3.02	91.3		.6	10	-.04	"
998	5-26	1310 / 1324	"	54.0	45.6	0.99	2.80	45.1		.6	9	0	"
999	6-2	1130 / 1146	BONADIMAN - STUNDEN	47.0	32.8	1.18	2.77	38.6		.6	10	0	"
1000	6-9	1310 / 1326	BONADIMAN	55.0	33.5	1.11	2.77	37.2		.6	12	0	"
1001	6-16	1312 / 1330	"	66.0	38.0	0.85	2.78	32.1		.6	13	0	"
1002	6-23	1310 / 1330	"	65.0	36.7	0.86	2.74	31.4		.6	15	0	"
1003	6-30	1320 / 1340	"	66.0	42.1	0.97	2.78	41.0		.6	15	0	"
1004	7-7	1230 / 1252	"	70.0	34.6	0.94	2.75	32.5		.6	15	0	"
1005	7-14	1245 / 1315	REINHARD-BONADIMAN	78.0	38.6	0.89	2.75	34.4		.6	16	0	"
1006	7-21	1200 / 1220	BONADIMAN	72.0	33.2	0.93	2.74	30.8		.6	13	0	"
1007	7-28	1220 / 1232	"	20.0	14.2	1.18	2.70	16.7		.6	8	0	"
1008	8-4	1210 / 1230	"	22.0	14.3	1.36	2.68	19.4		.6	7	0	"
1009	8-11	1310 / 1320	"	24.0	17.9	1.09	2.70	19.6		.6	8	0	"
1010	8-18	1310 / 1322	"	23.0	17.3	1.10	2.63	19.1		.6	8	0	"
1011	8-25	1010 / 1024	"	33.0	20.4	0.88	2.70	18.0		.6	10	0	"
1012	9-1	1310 / 1324	"	36.0	20.7	0.97	2.70	20.2		.6	10	0	"
1013	9-8	1042 / 1052	WADDICOR	38.0	48.9	0.48	2.70	23.7		.6	9	0	FC37
1014	9-15	1125 / 1140	"	44.0	46.4	0.56	2.67	26.1		.6	10	0	"
1015	9-22	1120 / 1132	"	46.0	31.9	0.80	2.69	25.6		.6	10	0	"
1016	9-29	1240 / 1258	BONADIMAN	46.0	26.4	0.67	2.68	17.6		.6	12	0	FC19

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F180-R

Daily discharge, in second-feet of LOS ANGELES RIVER at Pacific Coast Highway, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a 29	a 26	a 120	a 33	a 93	a 46	120	a 78	a 35	a 24	a 19	a 22
2	29	25	54	31	93	46	a 110	53	34	24	20	22
3	a 29	24	a 24	31	93	a 46	611	40	33	a 24	20	a 24
4	28	23	81	28	a 93	46	490	34	33	24	a 20	26
5	28	a 22	a1540	35	1050	a 46	a 118	a 32	32	23	20	28
6	28	21	a 500	42	756	46	633	31	32	23	a 21	30
7	27	a 21	123	a 39	148	46	a 160	a 31	31	a 23	22	a 32
8	27	22	53	47	a138	47	115	31	a 31	23	23	32
9	a 26	22	a 40	a 64	128	47	a 110	31	30	a 23	24	a 32
10	26	23	a 30	69	100	a 47	131	31	a 30	24	25	32
11	a 27	23	25	72	a102	47	162	31	30	26	a 26	32
12	28	a 24	a 27	76	97	a 47	a 92	a 31	30	28	27	32
13	28	24	30	80	a 90	a 350	89	31	29	29	a 26	32
14	29	a 24	32	a 81	84	664	82	a 32	29	a 30	25	32
15	a 30	24	34	87	77	268	a 75	32	29	32	24	32
16	31	24	36	a 80	71	a 114	75	33	a 29	a 32	23	a 32
17	a 30	24	a 39	74	64	1030	a 74	34	29	32	22	32
18	29	24	41	67	a 58	154	73	35	a 29	31	a 21	a 32
19	28	a 24	a 40	61	51	115	72	a 35	29	31	20	30
20	27	24	39	54	a 44	331	72	36	29	30	a 20	28
21	26	a 28	38	a 48	39	a 130	a 71	a 36	29	a 30	20	26
22	a 25	36	37	41	36	96	70	36	29	30	20	a 24
23	24	28	36	a 48	35	a 100	a 72	36	a 29	a 28	20	24
24	a 24	24	35	56	36	1350	74	37	29	26	21	a 25
25	25	24	a 30	63	a 40	669	76	37	a 29	24	a 21	27
26	25	24	24	71	47	b 306	78	a 37	28	22	21	28
27	26	a 24	a 27	78	a 47	200	80	37	28	a 20	a 21	30
28	26	24	29	a 86	47	154	a 82	a 37	27	19	21	a 32
29	a 27	a 24	32	93	a 47	136	525	36	26	a 19	21	33
30	27	a 24	a 34	a 93		128	136	36	a 25	19	21	a 33
31	a 27		37	a 93		b 122		a 35		a 19	a 22	
	846	728	3267	1921	3804	6974	4728	1122	892	792	677	876
MEAN	27.3	24.3	105.	62.0	131.	225.	158.	36.2	29.7	25.5	21.8	29.2
ACRE-FEET	1680.	1440.	6480.	3810.	7550.	13830.	9380.	2230.	1770.	1570.	1340.	1740.

Remarks:

YEAR OR PERIOD MEAN 72.8
ACRE-FEET 52,820.

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

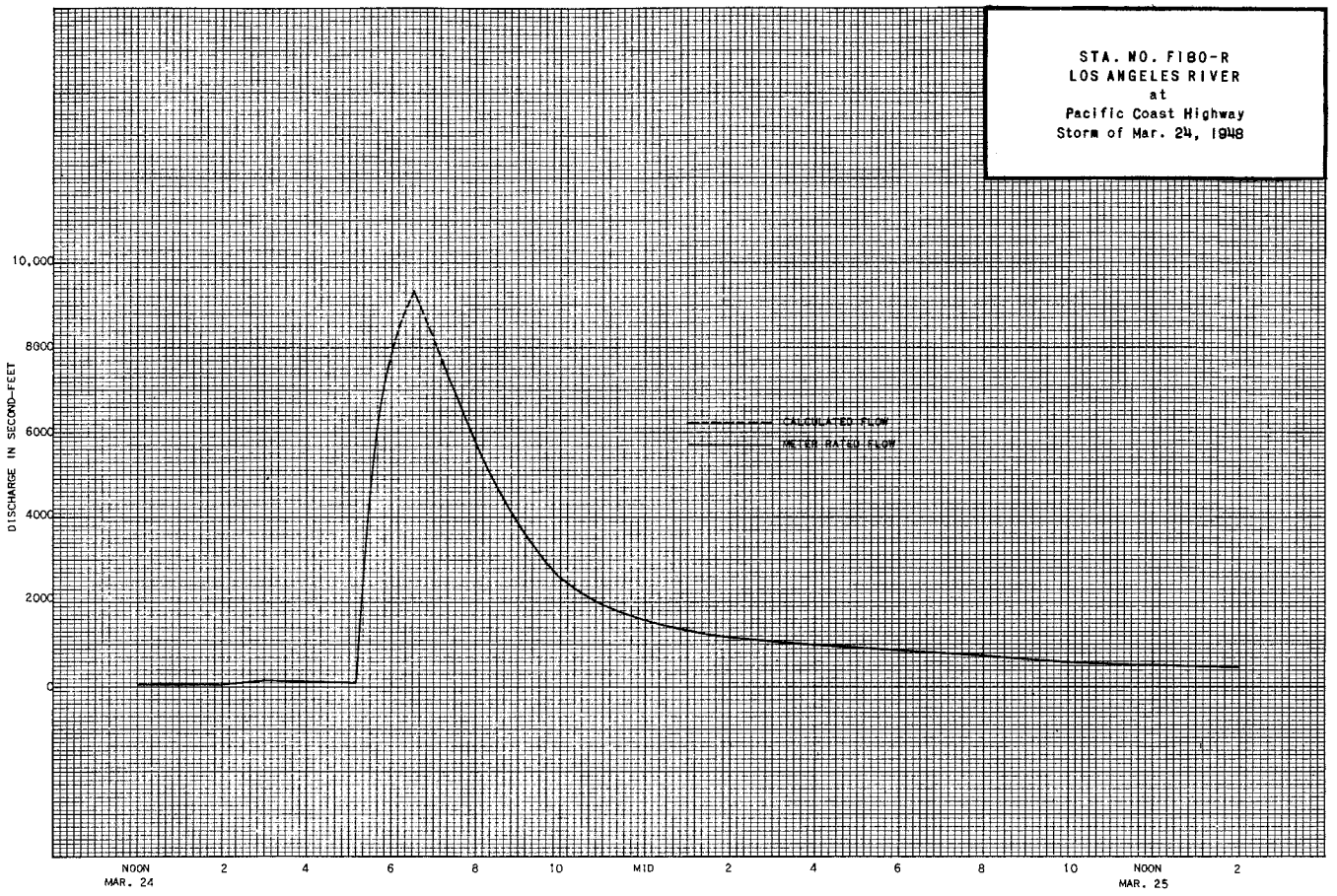
Sta. No. F180-R

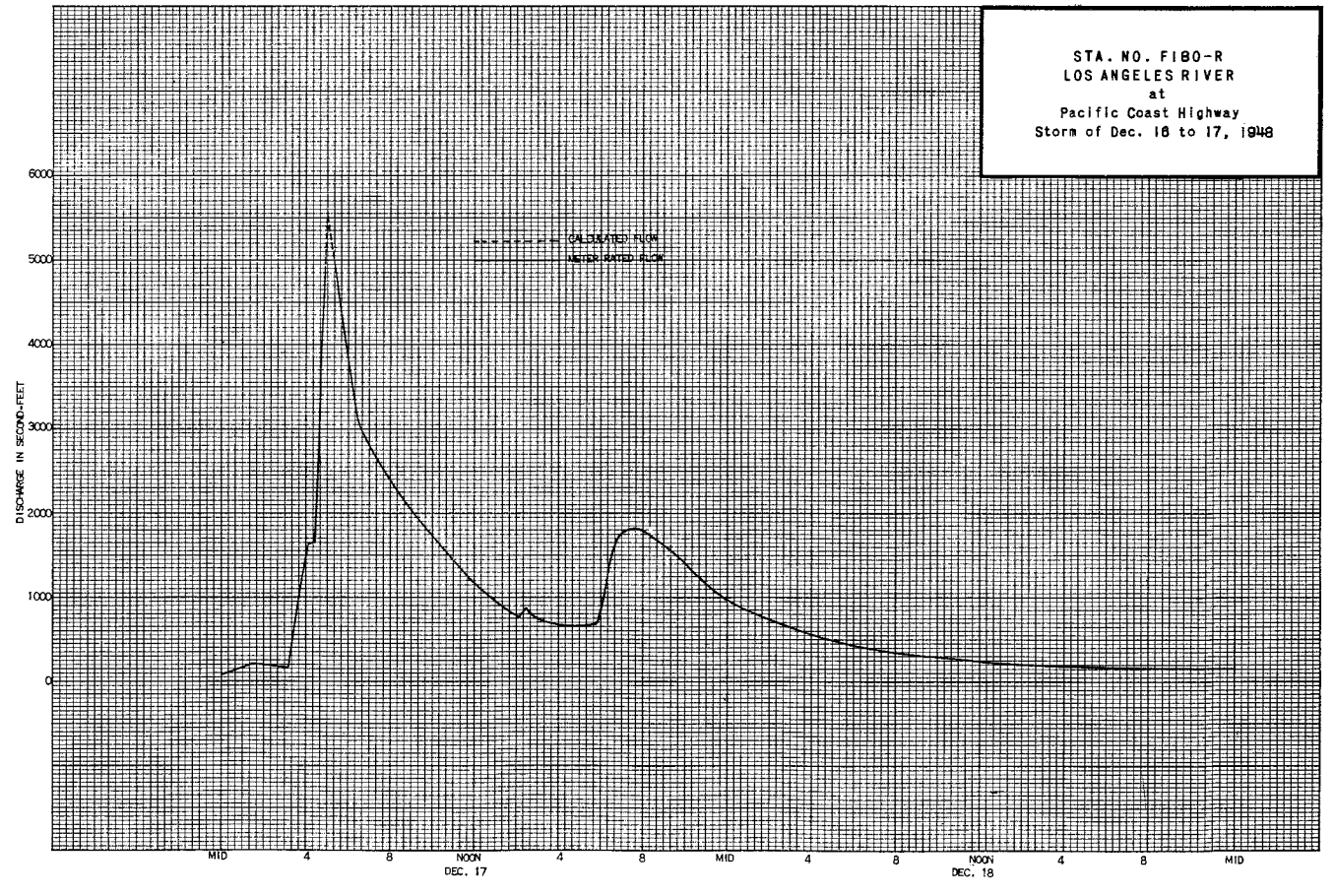
Daily discharge, in second-feet of LOS ANGELES RIVER at Pacific Coast Highway, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	36	16	22	78	44	46	44	32	34	38	14	18
2	36	16	21	53	40	42	44	32	38	46	13	20
3	32	22	22	42	235	44	36	36	38	32	20	21
4	28	24	42	48	136	125	30	38	36	34	22	21
5	32	22	30	46	48	505	44	38	32	27	22	22
6	38	21	22	38	36	67	40	40	28	30	22	21
7	34	20	26	36	516	44	38	38	34	34	21	24
8	28	15	26	30	145	64	38	32	36	32	20	24
9	32	21	27	32	58	48	36	27	36	34	21	26
10	26	21	27	32	42	44	32	36	34	32	20	26
11	20	21	40	220	46	948	30	34	38	32	21	27
12	21	21	27	355	227	100	42	36	28	34	20	26
13	22	18	26	559	40	44	44	38	27	38	20	26
14	20	15	34	114	32	46	48	44	32	34	20	24
15	21	15	38	61	38	40	50	44	30	32	18	26
16	20	20	42	36	38	44	46	34	30	36	20	24
17	16	24	1480	38	36	36	38	36	32	32	20	22
18	20	21	337	48	34	38	38	85	32	26	21	21
19	a 21	20	96	70	36	40	44	287	30	27	24	22
20	20	22	70	1790	28	127	40	145	26	32	27	27
21	20	18	70	180	26	34	38	58	30	30	24	27
22	20	15	157	87	40	40	44	44	30	27	22	27
23	19	18	219	342	32	78	38	34	36	23	21	26
24	18	21	110	103	44	61	30	38	36	20	20	26
25	a 17	20	67	78	187	58	30	38	30	18	18	22
26	16	13	54	78	48	40	38	44	36	18	18	22
27	21	13	1080	82	237	32	42	44	36	18	18	20
28	22	15	218	75	50	28	44	44	34	16	18	20
29	22	15	100	61		40	44	34	36	15	18	16
30	22	18	100	50		38	42	32	38	15	18	16
31	21		82	40		40		30		15	18	
	741	561	4712	4902	2519	2981	1192	1572	993	877	619	690
MEAN	23.9	18.7	152.	158.	90.0	96.2	39.7	50.7	33.1	28.3	20.0	23.0
ACRE-FEET	1470.	1110.	9350.	9720.	5000.	5910.	2360.	3120.	1970.	1740.	1230.	1370.

Remarks:

YEAR OR PERIOD MEAN 61.3
ACRE-FEET 44350.


STA. NO. F180-R
LOS ANGELES RIVER
at
Pacific Coast Highway
Storm of Mar. 24, 1948
DISCHARGE IN SECOND-FEET
10,000
8000
6000
4000
2000
0
CALCULATED FLOW
METER RATED FLOW
NOON
MAR. 24
2
4
6
8
10
MID
2
4
6
8
10
NOON
MAR. 25
2


STA. NO. F180-R
LOS ANGELES RIVER
at
Pacific Coast Highway
Storm of Dec. 16 to 17, 1948
DISCHARGE IN SECOND-FEET
6000
5000
4000
3000
2000
1000
0
CALCULATED FLOW
METER RATED FLOW
MID
4
8
NOON
DEC. 17
4
8
MID
4
8
NOON
DEC. 18
4
8
MID

STATION F130-R
MALIBU CREEK at Crater Camp

LOCATION: WATER-STAGE RECORDER LAT. 34°04'38", LONG. 118°42'05", AT UPPER END OF MALIBU GORGE, ABOUT 0.2 MILE DOWNSTREAM FROM CRATER CAMP IN THE SANTA MONICA MOUNTAINS, AND 6 MILES SOUTHWEST OF CALABASAS. ELEVATION OF ZERO GAGE HEIGHT, 430.51 FEET.

DRAINAGE AREA: 103 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - COARSE SAND AND GRAVEL LINED WITH BRUSH AND TREES. COMMUNICATION THROUGH 31 FEET OF 8-INCH DIAMETER IRON PIPE.

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, 1947 TO SEPTEMBER 30, 1949.

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, 1949.

EXTREMES OF DISCHARGE:
1947-1948
MAXIMUM 113 SECOND-FEET, MARCH 24.
MINIMUM 0.03 SECOND-FOOT VARIOUS TIMES.
1948-1949
MAXIMUM 0.6 SECOND-FOOT, MAY 18.
MINIMUM PLUS FLOW VARIOUS TIMES.
1931-1949
MAXIMUM 12,240 SECOND-FEET, JANUARY 22, 1943.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

DISCHARGE MEASUREMENTS OF MALIBU CREEK

AT ~~NEAR~~ Crater Camp DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
466	10-2	1639 / 1643	BOLLINGER	2.0	0.44	0.39	4.09	0.17	FLOATS		4	0	
467	10-20	1347 / 1353	"	3.3	0.47	0.19	4.11	0.09		.5	4	0	FC6
468	11-20	1635 / 1640	"	2.7	0.70	0.19	4.16	0.13		.5	4	0	"
469	12-11	1003 / 1008	"	2.7	0.51	0.20	4.15	0.11		.5	4	0	"
470	12-18	0843 / 0849	"	3.5	0.65	0.17	4.16	0.11		.5	5	0	"
471	12-31	1023 / 1028	"	2.5	0.57	0.25	4.18	0.14		.5	3	0	"
472	1-14	1400 / 1407	"	2.7	0.74	0.32	4.17	0.24		.5	4	0	"
473	2-4	1520 / 1526	"	2.5	0.77	0.34	4.20	0.26		.5	4	0	"
474	2-14	1036 / 1042	"	2.5	0.82	0.46	4.20	0.38		.5	4	0	"
475	2-25	1401 / 1406	"	2.0	0.51	0.41	4.21	0.21		.5	3	0	"
476	3-17	0922 / 0927	BOLLINGER - PAULL	12.0	2.72	0.26	4.29	0.71		.5	5	0	"
477	3-24	1903 / 1914	" "	24.0	14.3	1.31	4.78	18.7		.6	14	0	"
478	4-1	1818 / 1824	BOLLINGER	2.5	0.86	0.54	4.25	0.46		.5	4	0	"
479	4-29	1804 / 1809	"	3.0	0.52	0.56	4.22	0.29		.5	4	0	"
480	5-19	1330 / 1336	"	1.5	0.27	0.56	4.22	0.15		.5	2	0	"
481	6-16	1327 / 1343	"	2.8	0.66	0.27	4.22	0.18		.5	4	0	"
482	6-30	1045 / 1053	BLAKELY	2.4	0.45	0.22	4.19	0.10		.5	5	0	FC35
483	7-15	1122 / "	"	1.8	0.34	0.29	4.18	0.10		.5	4	0	"
484	7-29	1108 / 1112	"	3.2	0.51	0.10	4.18	0.05		.5	4	0	"
485	8-24	1400 / 1405	BOLLINGER	1.4	0.12	0.33	4.15	0.04	FLOATS		3	0	

DISCHARGE MEASUREMENTS OF MALIBU CREEK

AT ~~NEAR~~ Crater Camp DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
486	10-4	1315 / 1318	BOLLINGER	1.5	0.19	0.32	4.13	0.06	FLOATS		2	0	
487	11-18	0928 / 0933	"	1.3	0.23	0.17	4.19	0.04		"	2	0	
488	3-17	1030 / 1034	"	1.7	0.40	0.40	4.24	0.16		"	3	0	
489	5-10	1548 / 1553	"	2.7	0.64	0.45	4.31	0.29		"	3	0	
490	6-2	1525 / 1530	"	1.2	0.48	0.67	4.28	0.32		"	1	0	
491	6-23	0842 / 0847	"	2.8	0.92	0.29	4.26	0.27		"	3	0	
492	7-21	1006 / 1010	BLAKELY	1.6	0.35	0.06	4.23	0.02		.5	5	2	FC35
493	8-4	0915 / 0920	BOLLINGER	2.0	0.56	0.07	4.22	0.04		.5	3	0	FC6

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F130-R

Daily discharge, in second-feet of MALIBU CREEK at Crater Camp, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.06	a0.1	0.1	0.2	0.4	0.5	0.4	0.1	0.08	0.04	0.04
2	0.2	0.06	0.1	0.1	0.2	0.4	0.5	0.2	0.2	0.08	0.04	0.04
3	0.2	0.08	0.1	0.1	0.2	0.4	0.5	0.2	0.2	0.1	0.04	0.04
4	0.2	0.08	0.9	0.1	0.2	0.3	0.5	0.2	0.2	0.1	0.04	0.04
5	0.2	0.08	1.1	0.1	0.3	0.3	0.5	0.2	0.2	0.1	0.06	0.06
6	0.2	0.08	0.1	0.1	0.3	0.3	0.6	0.2	0.2	0.1	0.04	0.04
7	0.2	0.08	0.1	0.2	0.4	0.3	0.5	0.2	0.2	0.1	0.04	0.04
8	0.2	0.08	0.1	0.2	0.3	0.3	0.5	0.2	0.2	0.1	0.04	0.04
9	0.2	0.08	0.1	0.2	0.3	0.2	0.5	0.2	0.2	0.1	0.04	0.04
10	0.2	0.08	0.1	0.2	0.3	0.4	0.5	0.2	0.2	0.1	0.04	0.03
11	0.1	0.1	a0.1	0.2	0.3	0.4	0.3	0.2	0.2	0.1	0.04	0.03
12	0.1	0.1	0.08	0.2	0.3	0.4	0.2	0.2	0.2	0.1	0.04	0.03
13	0.1	0.1	0.06	0.2	0.4	0.5	0.4	0.2	0.2	0.1	0.04	0.03
14	0.1	0.1	0.08	0.2	0.4	0.6	0.4	0.2	a0.2	0.1	0.04	0.04
15	0.1	0.1	0.1	0.3	0.4	0.5	0.4	0.2	a0.2	0.1	0.04	0.04
16	0.1	0.1	0.08	0.3	0.4	0.7	0.4	0.2	1.0	0.1	0.04	0.04
17	0.1	0.1	0.08	0.3	0.4	1.1	0.3	0.2	0.2	0.1	0.03	0.03
18	0.1	0.1	0.1	0.2	0.3	0.6	0.2	0.2	0.2	0.08	0.04	0.03
19	0.1	0.1	0.1	0.2	0.4	0.6	0.2	0.2	0.1	0.06	0.04	0.04
20	0.1	0.1	0.1	0.2	0.3	0.5	0.3	0.2	0.1	0.06	0.04	0.04
21	0.08	a0.1	0.1	0.2	0.3	0.5	0.3	0.2	0.1	0.06	0.04	0.04
22	0.08	0.1	0.1	0.2	0.2	0.5	0.4	0.2	0.1	0.06	0.04	0.04
23	0.08	0.1	0.1	0.2	0.2	0.5	0.4	0.2	0.1	0.06	0.04	0.04
24	0.06	0.1	0.1	0.3	0.2	1.5	0.3	0.2	0.08	0.06	0.04	0.04
25	0.06	0.1	0.1	0.2	0.2	2.4	0.2	0.2	0.08	0.06	0.03	0.04
26	0.04	0.1	0.1	0.2	0.3	3.1	0.2	0.2	0.1	0.08	0.04	0.04
27	0.06	0.1	0.1	0.2	0.3	2.7	0.2	0.2	0.1	0.06	0.04	0.04
28	0.06	0.1	0.1	0.3	0.3	0.8	0.4	0.2	0.1	0.06	0.04	0.04
29	0.06	0.1	0.1	0.3	0.3	0.6	0.3	0.2	0.1	0.06	0.04	0.06
30	0.06	a0.1	0.1	0.3		0.6	0.4	0.1	0.1	0.06	0.04	0.06
31	0.06		0.1	0.3		0.5		0.1		0.04	0.04	
	3.70	2.76	4.78	6.40	8.60	36.40	11.30	6.20	4.66	2.52	1.24	1.20
MEAN	0.12	.092	0.15	0.21	0.30	1.17	0.38	0.20	0.16	.081	0.04	0.04
ACRE-FEET	7.3	5.5	9.5	13.	17.	72.	22.	12.	9.2	5.0	2.5	2.4

Remarks:

YEAR OR PERIOD MEAN 0.25
ACRE-FEET 177.

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

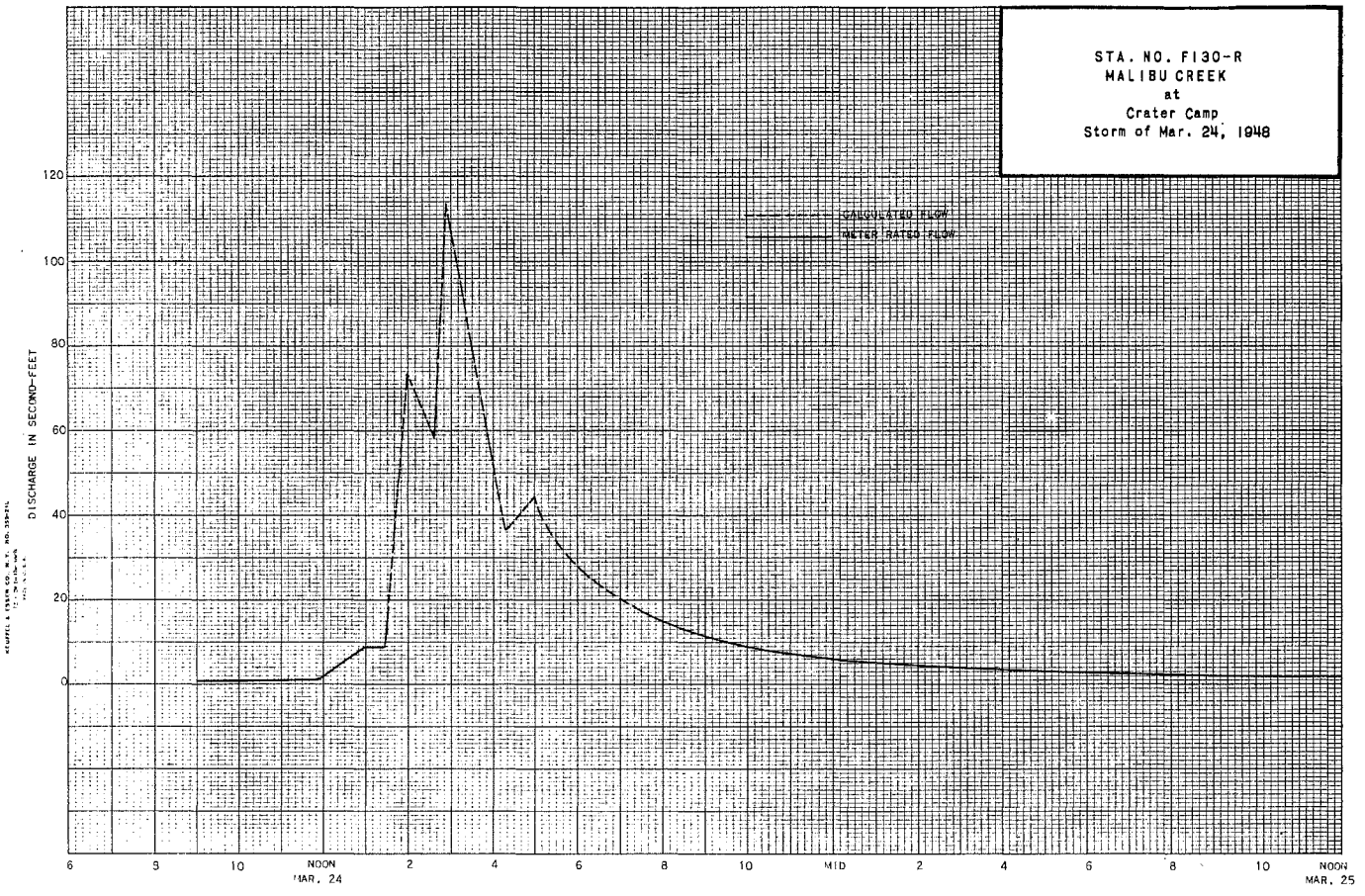
Sta. No. F130-R

Daily discharge, in second-feet of MALIBU CREEK at Crater Camp, for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.06	0.04	0.1	0.08	0.08	0.06	0.1	0.2	0.4	0.2	0.08	0.02
2	0.04	0.04	0.1	0.08	0.08	0.06	0.2	0.2	0.4	0.2	0.06	0.03
3	0.03	0.04	0.1	0.06	0.1	0.08	0.2	0.3	0.4	0.2	0.04	0.03
4	a0.06	0.04	0.1	0.06	0.1	0.1	0.2	0.3	0.4	0.2	0.04	0.03
5	0.06	0.03	0.1	0.06	0.1	0.1	0.2	0.3	0.4	0.2	0.04	0.03
6	0.06	0.03	0.1	0.06	0.08	0.1	0.2	0.2	0.5	0.2	0.04	0.02
7	0.06	0.03	0.1	0.06	0.1	0.1	0.2	0.2	0.5	0.1	0.04	0.02
8	0.05	0.03	0.1	0.06	0.1	0.1	0.2	0.2	0.4	0.1	0.04	0.02
9	0.05	0.03	0.1	0.06	0.08	0.1	0.2	0.2	0.2	0.1	0.04	0.02
10	0.05	0.03	0.1	0.06	0.08	0.2	0.2	0.2	0.2	0.08	0.04	0.02
11	0.05	0.03	0.1	0.06	0.08	0.2	0.2	0.3	0.3	0.06	0.04	0.02
12	0.05	0.02	0.1	0.08	0.08	0.1	0.1	0.3	0.3	0.04	0.04	0.02
13	0.04	0.02	0.1	0.08	0.08	0.1	0.1	0.4	0.4	0.03	0.04	0.02
14	0.04	0.03	0.1	0.08	0.08	0.1	0.1	0.4	0.4	0.03	0.04	0.02
15	0.04	0.03	0.1	0.06	0.08	0.1	0.2	0.4	0.4	0.03	0.04	0.02
16	0.04	0.04	0.1	0.04	0.06	0.1	0.2	0.4	0.4	0.02	0.04	0.02
17	0.04	0.04	0.2	0.04	0.06	a0.1	0.1	0.5	0.4	0.02	0.04	0.02
18	0.04	0.04	0.1	0.04	0.06	0.1	0.2	0.6	0.4	0.02	0.04	0.02
19	a0.03	0.04	0.1	0.1	0.06	0.1	0.2	0.5	0.4	0.02	0.04	0.02
20	0.01	0.06	0.1	0.1	0.06	0.1	0.2	0.5	0.4	0.02	0.04	0.02
21	0.02	0.06	0.1	0.1	0.06	0.2	0.2	0.5	0.3	0.02	0.04	0.02
22	0.02	0.06	0.1	0.1	0.04	0.8	0.2	0.4	0.3	0.02	0.04	0.01
23	0.01	0.08	0.1	0.1	0.04	0.2	0.2	0.4	0.3	0.03	0.04	+
24	0.02	0.08	0.1	0.1	0.08	a0.2	0.2	0.4	0.3	0.03	0.04	+
25	0.01	0.1	0.1	0.1	0.06	0.2	0.2	0.4	0.3	0.04	0.03	0.01
26	0.01	0.1	0.2	0.1	0.06	0.2	0.2	0.4	0.3	0.04	0.03	0.01
27	0.03	0.1	0.2	0.1	0.06	0.1	0.2	0.4	0.2	0.04	0.03	0.01
28	0.04	0.1	0.2	0.08	0.06	0.1	0.2	0.4	0.3	0.04	0.03	0.01
29	0.04	0.1	0.1	0.06		0.1	0.2	0.4	0.2	0.04	0.03	+
30	0.04	0.1	0.08	0.06		0.1	0.2	0.4	0.2	0.08	0.02	+
31	0.04		0.08	0.08		0.2		0.4		0.1	0.02	
	1.18	1.57	3.46	2.30	2.06	3.90	5.50	11.10	10.30	2.35	1.21	0.51
MEAN	.038	.052	.112	.074	.074	.126	0.18	0.36	0.34	0.08	0.04	.017
ACRE-FEET	2.3	3.1	6.9	4.6	4.1	7.7	11.	22.	20.	4.7	2.4	1.0

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

YEAR OR PERIOD MEAN 0.12
ACRE-FEET 90.



STATION F83-R
MISSION CREEK (formerly Rio Hondo Slough) at San Gabriel Boulevard

LOCATION: WATER-STAGE RECORDER, LAT. 34°01'47", LONG. 118°04'07", ON THE UPSTREAM END OF THE RIGHT (WEST) ABUTMENT OF SAN GABRIEL BOULEVARD BRIDGE, JUST EAST OF THE RIO HONDO, ABOUT 2 MILES NORTHEAST OF MONTEBELLO. ELEVATION OF GAGE ABOUT 193 FEET.

DRAINAGE AREA: ABOUT 6 SQUARE MILES. FLOW ORIGINATES ALMOST ENTIRELY FROM RISING WATER.

CHANNEL AND CONTROL: CHANNEL - SAND COVERED WITH WEEDS AND BRUSH; SOME CROSS FENCES WHICH CATCH DEBRIS. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING APPROXIMATELY 400 FEET BELOW STATION. HIGH FLOWS MEASURED FROM HIGHWAY BRIDGE.

RECORDER: INSTALLED JUNE 14, 1930, OVER AN 18-INCH DIAMETER, CORRUGATED IRON PIPE STILLING WELL. HORIZONTAL RATIONAL 7-DAY RECORDER IN SERVICE OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: SOME WATER PUMPED JUST DOWNSTREAM FROM BRIDGE.

DIVERSIONS: NONE.

RECORDS AVAILABLE: RECORDER RECORDS JUNE 14, 1930 TO SEPTEMBER 30, 1949. SOME WEEKLY STREAM FLOW MEASUREMENTS WERE TAKEN PRIOR TO INSTALLATION OF RECORDER.

EXTREMES OF DISCHARGE:

1947-1948
MAXIMUM 51.4 SECOND-FEET, DECEMBER 5.
MINIMUM 13.4 SECOND-FEET, SEPTEMBER 3.

1948-1949
MAXIMUM 27 SECOND-FEET, JANUARY 20.
MINIMUM 10 SECOND-FEET, JULY 26.

1930-1949
MAXIMUM DISCHARGE NOT DETERMINED, MARCH 2, 1938.
MAXIMUM DISCHARGE OF RECORD, 336 SECOND-FEET, FEBRUARY 22, 1944.
MINIMUM 4.8 SECOND-FEET, OCTOBER 4, 1934.

ACCURACY: GOOD.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

DISCHARGE MEASUREMENTS OF — MISSION CREEK

AT NEAR — San Gabriel Boulevard — DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
588	10-2	0850 / 0900	WADDICOR	16.0	15.5	1.08	5.85	16.7		6	9	0	FC37
589	10-9	0845 / 0855	"	16.0	15.8	1.14	5.84	18.0		6	9	0	"
590	10-16	0850 / 0900	"	15.7	16.0	1.08	5.89	17.2		6	9	0	"
591	10-23	0845 / 0855	"	16.0	16.2	1.06	5.88	17.2		6	9	C	"
592	10-30	0855 / 0905	"	16.2	16.4	1.05	5.90	17.3		6	9	0	"
593	11-6	0850 / 0900	"	16.0	17.C	1.01	5.94	17.2		6	9	0	"
594	11-13	0850 / 0900	"	16.0	17.9	1.06	5.95	19.0		6	9	0	"
595	11-20	0850 / 0900	"	16.0	17.3	1.09	5.97	18.8		6	9	0	"
596	11-28	0910 / 0920	"	16.0	17.8	1.04	6.00	18.6		6	9	C	"
597	12-4	0850 / 0900	"	16.0	18.0	1.07	6.03	19.4		6	9	0	"
598	12-11	0855 / 0905	"	16.0	17.4	1.12	6.03	19.5		6	9	0	"
599	12-18	0915 / 0930	STUNDEN	14.0	15.2	1.16	6.00	17.7		6	7	0	FC36
600	12-26	0855 / 0905	WADDICOR	16.0	17.0	1.02	6.04	17 3		6	9	0	FC37
601	1-2	0855 / 0905	"	16.0	19.1	1.11	6.12	21.3		6	8	0	"
602	1-8	0900 / 0910	"	17.2	19.1	1.11	6.14	21.3		6	9	0	"
603	1-15	0855 / 0905	"	17.0	17.8	1.12	6.10	20.0		6	9	0	"
604	1-22	0850 / 0900	"	16.0	15.3	1.20	5.98	18.3		6	9	0	"
605	1-29	0905 / 0915	"	17.5	24.0	0.80	6.15	19.2		6	9	0	"
606	2-13	0900 / 0910	"	16.0	17.3	1.18	6.05	20.4		6	9	0	"
607	2-19	0845 / 0855	"	16.0	14.8	1.24	6.00	18.4		6	8	C	"
608	2-26	0855 / 0910	SILL - WADDICOR	16.0	14.1	1.16	5.98	16.4		6	9	0	"
609	3-4	0855 / 0905	WADDICOR	16.0	14.4	1.23	5.98	17.7		6	8	0	"
610	3-11	0920 / 0929	"	15.8	12.9	1.28	5.97	16.5		6	8	0	"
611	3-18	0850 / 0900	"	16.2	15.7	1.19	6.06	18.7		6	9	0	"
612	3-23	1050 / 1100	"	16.0	15.3	1.16	6.05	17.7		6	9	0	"
613	4-1	0855 / 0905	"	16.0	14.4	1.31	5.98	18.9		6	9	0	"
614	4-8	0905 / 0915	"	16.0	15.2	1.33	6.06	20.4		6	9	0	"
615	4-15	0830 / 0840	"	15.5	14.1	1.35	6.00	19.0		6	9	C	"
616	5-6	0900 / 0910	"	16.0	14.8	1.18		17.5		6	8		"
617	5-13	0900 / 0910	"	16.0	14.2	1.23		17.5		6	8		"
618	5-20	0850 / 0900	"	16.0	13.6	1.27		17.3		6	8		"
619	5-27	0910 / 092C	"	16.0	13.8	1.34		18.5		6	8		"
620	6-2	0915 / 0925	"	16.0	13.6	1.23		16.7		6	8		"
621	6-10	0840 / 0850	"	16.2	13.3	1.35		18.0		6	8		"
622	6-17	0910 / 0920	"	16.C	13.3	1.26	6.09	16.7		6	8	0	"
623	6-22	1205 / 1220	WADDICOR - STUNDEN	16.0	13.2	1.24	6.07	16.4		6	9	0	"
624	6-24	0910 / 0920	WADDICOR	16.2	13.5	1.25	6.09	16.9		6	9	C	"
625	6-30	0907 / 0917	WADDICOR	16.2	13.4	1.28	6.08	17.2		6	9	0	"
626	7-8	0847 / 0857	"	16.4	17.3	0.92	6.08	15.9		6	9	0	"
627	7-15	0910 / 0920	BARON - WADDICOR	11.0	7.05	2.16	6.06	15.2		6	8	0	"
628	7-22	0852 / 0902	WADDICOR	11.0	6.76	2.18	6.06	14.8		6	9	0	"
629	7-29	0910 / 0920	WADDICOR - BONADIMAN	12.5	6.87	2.26	6.01	15.5		6	8	0	"
630	8-4	1026 / 1040	LYNN - BONADIMAN	11.0	6.27	2.29	6.03	14.4		6	9	0	FC19
631	8-11	0908 / 0925	BONADIMAN	11.3	6.77	2.01	6.06	13.6		6	9	0	FC46
632	8-19	0947 / 1004	LYNN - WADDICOR	11.0	7.08	2.09	6.08	14.8		6	11	0	FC37
633	8-20	1330 / 1340	WADDICOR - STUNDEN	11.0	6.23	2.28	6.00	14.2		6	8	0	"
634	8-26	0910 / 0920	WADDICOR	11.4	6.43	2.26	6.00	14.5		6	8	0	"
635	9-2	0920 / 0930	WADDICOR	11.2	6.47	2.29	6.01	14.8		6	8	0	"
636	9-8	0915 / 0935	STUNDEN	11.0	6.32	2.04	6.01	12.9		5 6	12	0	FC36
637	9-14	0955 / 1005	WADDICOR	10.8	6.66	2.19	6.01	14.6		6	8	0	FC37
638	9-16	0914 / 0924	"	10.8	6.69	2.11	6.02	14.1		6	8	0	"
639	9-22	0915 / 0925	"	11.5	6.82	2.06	6.02	14.0		6	8	0	"
640	9-30	0907 / 0917	"	11.0	6.47	2.01	6.02	13.0		6	8	0	"

DISCHARGE MEASUREMENTS OF — MISSION CREEK

AT NEAR — San Gabriel Boulevard — DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
641	10-7	0923 / 0933	WADDICOR	11.0	6.95	2.16	6.00	15.0		6	8	0	FC37
642	10-14	0925 / 0935	"	10.9	6.60	2.20	6.01	14.5		6	8	0	"
643	10-21	0913 / 0923	"	11.0	7.03	2.20	6.03	15.5		6	8	C	"
644	10-28	0910 / 0920	"	11.3	6.92	2.21	6.02	15.3		6	8	0	"
645	11-4	0930 / 0942	"	11.2	7.21	2.08	6.04	15.0		6	9	0	"
646	11-12	0902 / 0912	"	10.7	7.50	1.99	6.02	14.9		6	8	0	"
647	11-18	0930 / 0940	WADDICOR - WILLUT	11.0	7.41	2.20	6.05	16.3		6	7	0	"
648	11-26	0956 / 0906	WADDICOR	11.2	7.08	2.10	6.03	14.9		6	8	0	"
649	12-2	0915 / 0925	"	11.4	7.64	1.96	6.11	14.9		6	8	0	"
650	12-9	0902 / 0912	"	12.0	7.95	1.89	6.13	15.0		6	9	0	"
651	12-16	0935 / 0945	"	11.2	7.55	1.97	6.13	14.9		6	8	0	"
652	12-23	0935 / 0945	"	12.0	8.63	1.91	6.18	16.5		6	9	0	"
653	12-30	0940 / 0950	"	12.5	9.14	1.96	6.16	17.9		6	8	0	"
654	1-6	0909 / 0919	"	12.2	8.86	2.10	6.16	18.6		6	7	0	"
655	1-13	1108 / 1118	WADDICOR - PAYNE	12.2	9.06	2.08	6.20	18.9		6	8	0	"
656	1-21	1155 / 1205	" "	12.5	9.53	1.99	6.28	19.0		6	8	0	"
657	1-27	1010 / 1020	WADDICOR	12.3	8.94	2.14	6.18	19.1		6	7	C	"
658	1-31	1255 / 1305	WADDICOR - MOON	11.8	8.29	2.12	6.14	17.6		6	8	0	"
659	2-3	1215 / 1225	WADDICOR - PAYNE	12.5	8.97	2.08	6.19	18.7		6	8	0	"
660	2-10	0942 / 0952	WADDICOR	12.0	8.42	2.20	6.14	18.5		6	9	0	"
661	2-17	0928 / 0938	"	12.0	7.78	2.10	6.12	16.3		6	8	0	"
662	2-24	0908 / 0918	"	12.0	7.94	2.18	6.08	17.3		6	8	0	"
663	3-3	0952 / 1002	"	11.5	7.50	2.14	6.11	16.C		6	8	0	"
664	3-10	0950 / 1000	WADDICOR - DIAS	11.5	7.75	2.27	6.10	17.6		6	9	0	"
665	3-17	0910 / 0920	WADDICOR	11.7	7.65	2.38	6.08	18.2		6	9	C	"
666	3-24	0905 / 0915	"	11.8	7.53	2.08	6.07	15.7		6	9	0	"
667	3-30	0905 / 0915	"	11.5	7.09	2.34	6.06	16.6		6	8	C	"
668	4-7	0845 / 0856	WADDICOR - LANG	11.3	6.98	2.26	6.03	15.8		6	9	0	"
669	4-14	0907 / 0917	WADDICOR	11.1	6.99	2.29	6.02	16.0		6	8	0	"
670	4-21	0855 / 0905	"	11.1	6.84	2.22	6.04	15.2		6	8	0	"
671	4-28	0903 / 0913	"	11.0	7.06	2.18	6.05	15.4		6	8	0	"
672	5-5	0910 / 0920	"	11.1	6.51	2.16	6.02	14.1		6	9	0	"
673	5-12	0838 / 0850	"	11.2	6.52	2.30	5.99	15.0		6	8	0	"
674	5-19	0905 / 0915	"	12.0	7.51	2.10	6.01	15.8		6	8	0	"
675	5-26	0840 / 0850	"	11.1	6.61	2.07	5.96	13.7		6	9	0	"
676	6-1	0917 / 0926	WADDICOR - MOON	11.0	6.36	2.01	5.97	12.8		6	8	0	"
677	6-9	0835 / 0847	WADDICOR	11.5	6.27	2.06	5.94	12.9		6	8	0	"
678	6-16	0820 / 0832	"	12.3	6.10	2 46		15.0		6	10	0	"
679	6-23	0827 / 0837	"	14.2	11.2	1.11	6.44	12.4		6	8	C	"
680	6-30	0947 / 0957	"	13.5	9.63	1.30	6.33	12.5		6	10	C	"
681	7-7	0955 / 1006	WADDICOR-REINHARD	13.8	11.6	1.04	6.47	12.1		6	11	0	"
682	7-14	0856 / 0906	WADDICOR	13.0	7.32	1.64	6.13	12.0		6	9	0	"
683	7-20	0828 / 0840	BONADIMAN	12.2	7.78	1.38	6.12	10.7		6	8	0	FC19
684	7-20	0900 / 0910	"	12.3	8.06	1.34	6.12	10.8		6	7	0	FC46
685	7-27	0811 / 0824	"	12.5	7.87	1.30	6.12	10.2		6	9	C	"
686	8-3	0808 / 0826	"	12.4	8.67	1.27	6.17	11.0		6	8	C	"
687	8-10	0825 / 0837	"	12.0	8.31	1.47	6.13	11.2		6	9	0	"
688	8-17	0831 / 0848	"	13.0	8.53	1.37	6.15	11.7		6	10	0	"
689	8-24	0842 / 0852	WADDICOR	13.5	7.93	1.43	6.18	11.3		6	9	0	FC37
690	8-31	0838 / 0848	"	13.5	7.83	1.41	6.17	11.0		6	8	0	"
691	9-7	0850 / 0900	"	12.8	7.91	1.53	6.16	12.1		6	8	0	"
692	9-14	0935 / 0955	REINHARD-WADDICOR	12.5	7.06	1.67	6.10	11.8		6	10	0	"
693	9-21	0828 / 0838	WADDICOR	13.0	8.00	1.46	6.09	11.7		6	10	0	"
694	9-29	0852 / 0902	"	12.5	7.02	1.74	6.09	12.2		6	7	0	"

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F83-R

Daily discharge, in second-feet of MISSION CREEK at San Gabriel Boulevard for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16	17	20	21	19	17	19	b 18	a 17	17	14	14
2	16	17	20	21	20	17	20	18	17	17	14	14
3	16	17	19	21	19	17	21	18	17	17	14	14
4	17	17	20	21	20	17	21	18	17	17	14	14
5	17	17	33	21	26	17	20	18	17	16	13	13
6	18	17	29	22	26	17	21	18	17	16	13	13
7	18	17	22	22	25	17	21	18	18	16	13	13
8	18	18	21	21	24	17	20	18	18	16	13	13
9	18	18	20	20	21	17	20	18	18	16	13	13
10	17	18	20	20	20	16	20	18	18	16	14	13
11	17	19	19	20	20	16	20	b 18	18	16	13	13
12	17	19	19	20	20	16	20	a 18	18	16	13	14
13	17	19	19	20	20	17	19	18	17	16	13	14
14	17	19	18	21	20	17	19	18	17	a 16	13	14
15	17	19	18	21	20	18	19	18	16	a 15	13	a 14
16	17	19	18	21	19	17	19	18	a 16	15	14	14
17	17	19	18	21	19	20	19	17	16	15	14	14
18	17	19	18	21	19	18	19	17	16	15	14	14
19	17	19	18	20	19	19	19	17	16	15	14	14
20	17	19	18	20	18	18	19	17	16	15	14	14
21	17	19	18	19	18	18	19	17	16	15	14	14
22	17	19	17	19	18	17	b 19	17	16	15	14	14
23	17	19	17	18	18	17	19	17	17	15	14	14
24	17	19	18	19	17	20	19	18	17	15	14	14
25	17	19	18	19	17	19	19	18	17	15	14	14
26	17	19	17	20	16	19	19	18	17	15	14	13
27	17	19	18	19	17	19	19	18	17	15	14	13
28	17	19	18	19	17	19	19	18	17	16	14	13
29	17	18	19	19	17	19	18	18	17	15	15	13
30	17	19	19	19		19	b 18	18	17	15	14	13
31	17		20	19		19		a 17		14	14	
	528	552	606	624	569	550	583	550	508	483	425	408
MEAN	17.0	18.4	19.5	20.1	19.6	17.7	19.4	17.7	16.9	15.6	13.7	13.6
ACRE-FEET	1050.	1090.	1200.	1240.	1130.	1090.	1160.	1090.	1010.	960.	840.	810.

Remarks:

YEAR OR PERIOD MEAN 17.4
ACRE-FEET 12,670.

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

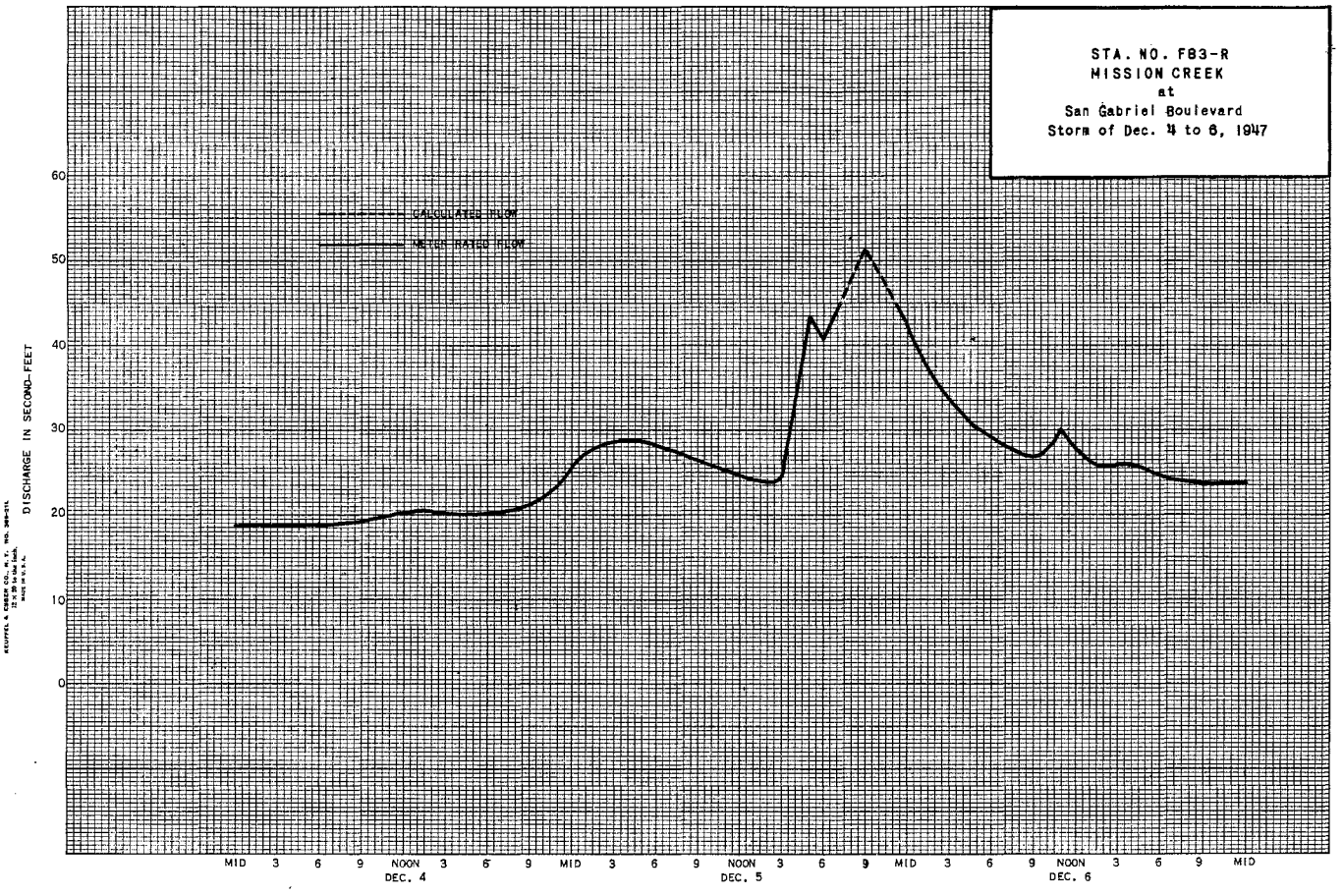
Sta. No. F83-R

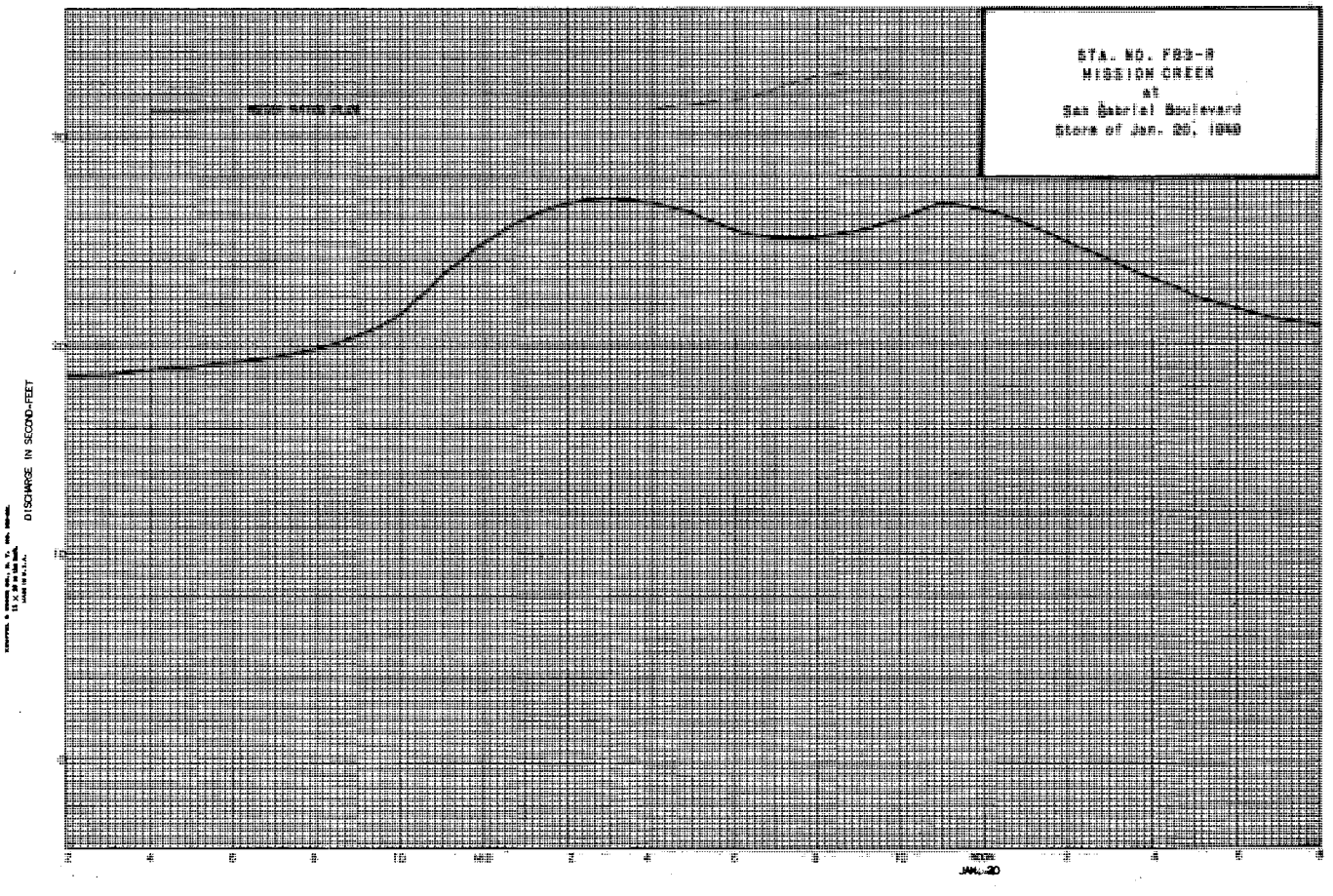
Daily discharge, in second-feet of Mission Creek at San Gabriel Boulevard for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13	15	15	a 18	17	16	16	15	13	12	11	11
2	13	15	15	18	17	16	16	15	12	12	11	12
3	13	15	15	18	18	16	16	15	12	12	11	12
4	14	15	15	18	17	17	16	14	a 13	12	11	12
5	14	15	15	18	18	17	16	14	13	12	11	12
6	14	15	15	18	17	17	16	14	13	12	11	12
7	15	15	15	18	19	17	16	14	13	12	11	12
8	15	15	15	18	19	17	16	14	13	12	11	12
9	15	15	15	18	18	17	16	14	a 13	12	11	12
10	15	15	15	18	18	18	16	14	c 13	12	11	12
11	15	15	15	18	18	18	16	15	14	12	11	12
12	15	15	15	19	18	18	16	15	14	12	11	12
13	15	15	15	19	18	18	16	15	14	12	11	12
14	15	15	15	19	17	18	16	15	14	12	11	12
15	15	16	a 15	19	17	18	16	14	15	11	11	12
16	15	16	a 15	19	17	18	16	15	15	11	11	12
17	15	16	17	a 19	16	18	16	15	15	11	11	12
18	15	16	17	18	17	18	16	15	14	11	11	12
19	15	16	16	19	17	17	15	16	14	11	11	12
20	15	16	16	24	17	17	15	16	14	11	11	12
21	15	16	16	19	17	17	15	15	13	11	11	12
22	15	16	16	19	17	16	15	15	13	10	11	12
23	15	16	a 18	19	17	16	15	15	12	10	11	a 12
24	15	15	18	19	17	16	15	14	12	10	11	12
25	15	15	18	19	17	16	15	14	12	10	11	12
26	15	15	18	19	17	16	15	14	12	10	11	12
27	15	16	18	19	17	16	15	14	12	10	11	12
28	15	16	18	19	16	16	15	14	12	11	11	a 12
29	15	16	18	18		16	15	13	12	10	11	12
30	15	15	18	18		16	15	13	c 12	10	11	12
31	15		a 18	18		16		13		10	11	
	456	462	500	579	485	523	468	448	393	346	341	359
MEAN	14.7	15.4	16.1	18.7	17.3	16.9	15.6	14.5	13.1	11.2	11.0	12.0
ACRE-FEET	904.	916.	992.	1150.	966.	1040.	928.	889	780.	686.	676.	712.

Remarks:

YEAR OR PERIOD MEAN 14.7
ACRE-FEET 10,640.


STA. NO. F83-R
MISSION CREEK
at
San Gabriel Boulevard
Storm of Dec. 4 to 6, 1947
CALCULATED FLOW
METER RATED FLOW
DISCHARGE IN SECOND-FEET
60
50
40
30
20
10
0
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
DEC. 4
DEC. 5
DEC. 6


STA. NO. F83-R
MISSION CREEK
at
San Gabriel Boulevard
Storm of Jan. 20, 1948
METER RATED FLOW
DISCHARGE IN SECOND-FEET
JAN. 20

STATION F22-R
MONROVIA CREEK above Sawpit Creek

LOCATION: WATER-STAGE RECORDER, LAT. 34°10'28", LONG. 117°59'22", ON THE RIGHT (WEST) BANK OF MONROVIA CREEK 200 FEET UPSTREAM FROM SAWPIT CREEK AND ABOUT 2.5 MILES NORTH OF MONROVIA. ELEVATION OF ZERO GAGE HEIGHT, 1152.66 FEET.

DRAINAGE AREA: 1.9 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - ROCK AND GRAVEL. CONTROL - NATURAL CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM FOOTBRIDGE AT STATION.

RECORDER: INSTALLED NOVEMBER 10, 1927 IN A CONCRETE RUBBLE HOUSE OVER A 4' FT. X 3 FT. CONCRETE STILLING WELL. AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: NONE.

DIVERSIONS: MONROVIA PIPE LINE DIVERTS WATER ABOVE GAGE.

RECORDS AVAILABLE: NOVEMBER 10, 1927 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:

1947-1948
MAXIMUM 1.4 SECOND-FEET, MARCH 24.
MINIMUM 0.02 SECOND-FEET, PART OF YEAR.

1948-1949
MAXIMUM 0.64 SECOND-FEET, JANUARY 20.
MINIMUM 0.01 SECOND-FOOT, PART OF YEAR.

1927-1949
MAXIMUM DISCHARGE NOT DETERMINED, MARCH 2, 1938.
MAXIMUM ESTIMATED 380 SECOND-FEET, JANUARY 23, 1943.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

DISCHARGE MEASUREMENTS OF MONROVIA CREEK

NEAR above Sawpit Creek DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS. SEC. NO.	D. HT. CHANGE TOTAL	METER NO.
627	10-2	1312 / 1314	MOON	0.80	0.04	0.50		0.02		.5	2	0	FC22
628	10-16	1107 / 1109	"	0.80	0.03	0.67		0.02		.5	2	0	"
629	10-30	1150 / 1152	"	0.80	0.03	1.00		0.03		.5	2	0	"
630	11-13	1105 / 1107	"	0.90	0.05	0.60		0.03		.5	2	0	"
631	11-28	0910 / 0912	"	1.0	0.07	0.43		0.03		.5	2	0	"
632	12-4	1347 / 1349	"	1.2	0.06	0.67		0.04		.5	2	0	"
633	12-11	1047 / 1049	"	1.2	0.08	0.62		0.05		.5	2	0	"
634	12-18	1055 / 1057	"	1.2	0.08	0.50		0.04		.5	2	0	"
635	1-2	1132 / 1134	"	1.0	0.07	0.57		0.04		.5	2	0	"
636	1-8	1040 / 1042	"	1.0	0.07	0.57		0.04		.5	2	0	"
637	1-15	1104 / 1106	"	1.0	0.07	0.43		0.03		.5	2	0	"
638	1-22	1138 / 1140	"	1.2	0.08	0.50		0.04		.5	2	0	"
639	1-29	1024 / 1026	"	1.2	0.07	0.57		0.04		.5	2	0	"
640	2-6	0820 / 0825	MOON - MIRANDA	1.2	0.08	0.75		0.06		.5	2	0	"
641	2-11	1057 / 1059	MOON	1.0	0.06	0.67		0.04		.5	2	0	"
642	2-25	1352 / 1354	"	1.0	0.06	0.67		0.04		.5	2	0	"
643	3-4	1310 / 1312	"	1.0	0.06	0.67		0.04		.5	2	0	"
644	3-11	1130 / 1132	"	1.0	0.06	0.67		0.04		.5	2	0	"
645	3-17	1322 / 1324	"	1.2	0.07	0.71		0.05		.5	2	0	"
646	3-24	1706 / 1712	HAIG - CUADRAZ	1.2	0.26	1.00		0.26		.6	4	0	FC5
647	4-1	1237 / 1239	MOON	1.2	0.14	0.79		0.11		.5	2	0	FC22
648	4-15	1312 / 1314	"	1.0	0.04	0.75		0.03		.5	2	0	"
649	4-28	1242 / 1244	"	0.80	0.04	0.75		0.03		.5	2	0	"
650	5-13	1047 / 1049	"	1.0	0.07	0.43		0.03		.5	2	0	"
651	5-26	1332 / 1334	"	1.0	0.08	0.38		0.03		.5	2	0	"
652	6-10	1712 / 1714	"	1.0	0.09	0.33		0.03		.5	2	0	"
653	7-7	1000 / 1002	STUNDEN	0.50	0.05	0.60		0.03		SURF.	1	0	FC36
654	7-22	1410 / 1412	MOON	0.90	0.02	1.00		0.02		SURF. FLOAT	1	0	
655	9-17	1430 / 1432	STUNDEN	0.50	0.05	0.40	3.42	0.02		SURF.	1	0	FC36

DISCHARGE MEASUREMENTS OF MONROVIA CREEK

NEAR above Sawpit Creek DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS. SEC. NO.	D. HT. CHANGE TOTAL	METER NO.
656	11-4	1242 / 1244	MOON	0.70	0.04	0.75	3.50	0.03		.5	2	0	FC22
657	11-19	1417 / 1419	"	1.0	0.04	0.75	3.49	0.03		.5	2	0	"
658	12-9	1140 / 1142	"	1.0	0.05	0.60	3.48	0.03		.5	2	0	"
659	12-23	1148 / 1150	"	1.0	0.04	0.75	3.54	0.03		.5	2	0	"
660	1-14	1109 / 1111	"	1.0	0.10	1.00	3.55	0.10		.5	2	0	"
661	1-20	1038 / 1044	MOON - MIRANDA	2.0	0.50	1.32	3.76	0.66		.5	4	0	"
662	2-2	1416 / 1418	MOON	1.4	0.14	0.71	3.54	0.10		.5	2	0	"
663	2-7	1326 / 1328	"	1.1	0.11	0.73	3.54	0.08		.5	2	0	"
664	2-10	1205 / 1207	"	1.0	0.07	0.67	3.52	0.06		.5	2	0	"
665	2-23	1000 / 1002	"	0.90	0.06	0.67	3.52	0.04		.5	2	0	"
666	3-9	1327 / 1330	WADDICOR	1.3	0.11	0.36	3.52	0.04		.5	2	0	FC37
667	3-24	1322 / 1324	MOON	1.2	0.08	0.75	3.51	0.06		.5	2	0	FC22
668	3-30	1055 / 1057	MOON - LANG	1.1	0.07	0.43	3.50	0.03		SURF.	1	0	"
669	4-20	1405 / 1407	MOON	1.0	0.05	0.40	3.48	0.02		.5	2	0	"
670	5-19	1402 / 1404	"	1.1	0.05	0.60	3.51	0.03		.5	2	0	"
671	6-9	1612 / 1614	"	1.0	0.06	0.50	3.53	0.03		.5	2	0	"
672	6-23	0942 / 0944	"	1.2	0.06	0.33	2.45	0.02		.5	2	0	"
673	7-13	1040 / 1042	STUNDEN	0.60	0.06	0.50	3.46	0.03		.5	1	0	FC36
674	7-28	1134 / 1136	MOON	0.50	0.07	0.29	3.48	0.02		.5	1	0	FC22
675	8-11	1117 / 1119	"	1.2	0.06	0.33	3.47	0.02		FLOATS	2	0	
676	9-15	1110 / 1112	"	0.80	0.05	0.40	3.48	0.02		"	2	0	

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F22-R

Daily discharge, in second-feet of MONROVIA CREEK above Sawpit Creek, for the year ending September 30, 19 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.02	0.03	0.03	0.04	0.04	0.04	0.1	0.07	0.03	0.03	0.02	0.02
2	0.02	0.03	0.04	0.04	0.04	0.04	0.1	0.07	0.03	0.03	0.02	0.02
3	0.02	0.03	0.04	0.04	0.04	0.04	0.09	0.06	0.03	0.03	0.02	0.02
4	0.02	0.03	0.05	0.04	0.04	0.04	0.09	0.06	0.03	0.03	0.02	0.02
5	0.02	0.03	0.07	0.04	0.07	0.04	0.08	0.05	0.03	0.03	0.02	0.02
6	0.02	0.03	0.6	0.04	0.06	0.04	0.08	0.04	0.03	0.03	0.02	0.02
7	0.02	0.03	0.5	0.04	0.04	0.04	0.07	0.03	0.03	0.03	0.02	0.02
8	0.02	0.03	0.5	0.04	0.04	0.04	0.07	0.03	0.03	0.03	0.02	0.02
9	0.02	0.03	0.5	0.04	0.04	0.04	0.06	0.03	0.03	0.03	0.02	0.02
10	0.02	0.03	0.5	0.04	0.04	0.04	0.06	0.03	0.03	0.03	0.02	0.02
11	0.02	0.03	0.05	0.04	0.04	0.04	0.05	0.03	0.03	0.03	0.02	0.02
12	0.02	0.03	0.05	0.03	0.04	0.04	0.05	0.03	0.03	0.03	0.02	0.02
13	0.02	0.03	0.05	0.03	0.04	0.09	0.04	0.03	0.03	0.03	0.02	0.02
14	0.02	0.03	0.05	0.03	0.04	0.06	0.04	0.03	0.03	0.03	0.02	0.02
15	0.02	0.03	0.04	0.03	0.04	0.05	0.03	0.03	0.03	0.02	0.02	0.02
16	0.02	0.03	0.04	0.03	0.04	0.05	0.03	0.03	0.03	0.02	0.02	0.02
17	0.02	0.03	0.04	0.03	0.04	0.05	0.03	0.03	0.03	0.02	0.02	0.02
18	0.02	0.03	0.04	0.03	0.04	0.05	0.03	0.03	0.03	0.02	0.02	0.02
19	0.02	0.03	0.04	0.04	0.04	0.05	0.03	0.03	0.03	0.02	0.02	0.02
20	0.02	0.03	0.04	0.04	0.04	0.05	0.03	0.03	0.03	0.02	0.02	0.02
21	0.02	0.03	0.04	0.04	0.04	0.05	0.03	0.03	0.03	0.02	0.02	0.02
22	0.02	0.03	0.04	0.04	0.04	0.05	0.03	0.03	0.03	0.02	0.02	0.02
23	0.03	0.03	0.04	0.04	0.04	0.05	0.03	0.03	0.03	0.02	0.02	0.02
24	0.03	0.03	0.04	0.04	0.04	0.2	0.03	0.03	0.03	0.02	0.02	0.02
25	0.03	0.03	0.04	0.04	0.04	0.2	0.03	0.03	0.03	0.02	0.02	0.02
26	0.03	0.03	0.04	0.04	0.04	0.1	0.03	0.03	0.03	0.02	0.02	0.02
27	0.03	0.03	0.04	0.04	0.04	0.1	0.03	0.03	0.03	0.02	0.02	0.02
28	0.03	0.03	0.04	0.04	0.04	0.1	0.1	0.03	0.03	0.02	0.02	0.02
29	0.03	0.03	0.04	0.04	0.04	0.1	0.2	0.03	0.03	0.02	0.02	0.02
30	0.03	0.03	0.04	0.04		0.1	0.07	0.03	0.03	0.02	0.02	0.02
31	0.03		0.04	0.04		0.1		0.03		0.02	0.02	
	0.71	0.90	1.37	1.17	1.21	2.08	1.74	1.10	0.90	0.76	0.62	0.60
MEAN	.023	0.03	.044	.038	.042	.067	.058	.035	0.03	.025	0.02	0.02
ACRE-FEET	1.4	1.8	2.7	2.3	2.4	4.1	3.5	2.2	1.8	1.5	1.2	1.2

Remarks:

YEAR OR PERIOD MEAN .036
ACRE-FEET 26.

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F22-R

Daily discharge, in second-feet of MONROVIA CREEK above Sawpit Creek, for the year ending September 30, 19 49

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.02	0.03	0.03	0.1	0.1	0.04	0.03	0.02	0.03	0.02	0.02	0.02
2	0.02	0.03	0.03	0.1	0.1	0.04	0.03	0.02	0.03	0.02	0.02	0.02
3	0.02	0.03	0.03	0.1	0.1	0.04	0.03	0.02	0.03	0.02	0.02	0.02
4	0.02	0.03	0.03	0.1	0.09	0.04	0.03	0.02	0.03	0.03	0.02	0.02
5	0.02	0.03	0.03	0.1	0.09	0.04	0.03	0.02	0.03	0.03	0.02	0.02
6	0.02	0.03	0.03	0.1	0.08	0.04	0.03	0.02	0.03	0.03	0.02	0.02
7	0.02	0.03	0.03	0.1	0.08	0.04	0.03	0.02	0.03	0.03	0.02	0.02
8	0.02	0.03	0.03	0.1	0.08	0.04	0.03	0.02	0.03	0.03	0.02	0.02
9	0.02	0.03	0.03	0.1	0.07	0.04	0.03	0.02	0.03	0.03	0.02	0.02
10	0.02	0.03	0.03	0.1	0.06	0.04	0.03	0.02	0.03	0.03	0.02	0.02
11	0.02	0.03	0.03	0.1	0.06	0.04	0.02	0.02	0.03	0.03	0.02	0.02
12	0.02	0.03	0.03	0.1	0.06	0.04	0.02	0.02	0.03	0.03	0.02	0.02
13	0.02	0.03	0.03	0.1	0.06	0.04	0.02	0.02	0.03	0.03	0.02	0.02
14	0.03	0.03	0.03	0.1	0.06	0.04	0.02	0.02	0.03	0.03	0.02	0.02
15	0.03	0.03	0.03	0.1	0.05	0.05	0.02	0.02	0.03	0.03	0.02	0.02
16	0.03	0.03	0.03	0.1	0.05	0.05	0.02	0.02	0.03	0.03	0.02	0.02
17	0.03	0.03	0.03	0.1	0.05	0.05	0.02	0.02	0.02	0.03	0.02	0.02
18	0.03	0.03	0.03	0.1	0.04	0.05	0.02	0.03	0.02	0.03	0.02	0.02
19	0.03	0.03	0.03	0.1	0.04	0.06	0.02	0.03	0.02	0.03	0.02	0.02
20	0.03	0.03	0.03	0.2	0.04	0.06	0.02	0.03	0.02	0.03	0.02	0.02
21	0.03	0.03	0.03	0.1	0.04	0.06	0.02	0.03	0.02	0.02	0.02	0.02
22	0.03	0.03	0.03	0.1	0.04	0.06	0.02	0.03	0.02	0.02	0.02	0.02
23	0.03	0.03	0.03	0.1	0.04	0.06	0.02	0.03	0.02	0.02	0.02	0.02
24	0.03	0.03	0.03	0.1	0.04	0.06	0.02	0.03	0.02	0.02	0.02	0.02
25	0.03	0.03	0.03	0.1	0.04	0.06	0.02	0.03	0.02	0.02	0.02	0.02
26	0.03	0.03	0.03	0.1	0.04	0.05	0.02	0.03	0.02	0.02	0.02	0.02
27	0.03	0.03	0.1	0.1	0.04	0.05	0.02	0.03	0.02	0.02	0.02	0.02
28	0.03	0.03	0.1	0.1	0.04	0.04	0.02	0.03	0.02	0.02	0.02	0.02
29	0.03	0.03	0.1	0.1		0.04	0.02	0.03	0.02	0.02	0.02	0.02
30	0.03	0.03	0.1	0.1		0.03	0.02	0.03	0.02	0.02	0.02	0.02
31	0.03		0.1	0.1		0.03		0.03		0.02	0.02	
	0.80	0.90	1.28	3.2	1.69	1.42	0.70	0.76	0.76	0.79	0.62	0.60
MEAN	.026	.030	.041	.103	.060	.046	.023	.025	.025	.025	.020	.020
ACRE-FEET	1.6	1.8	2.5	6.3	3.4	2.8	1.4	1.5	1.5	1.6	1.2	1.2

Remarks:

YEAR OR PERIOD MEAN .037
ACRE-FEET 27.

STATION F195-R
MONROVIA STORM DRAIN at Peck Road

LOCATION: WATER-STAGE RECORDER, LAT. 34°07'27", LONG. 118°00'13", ON THE LEFT (EAST) WING WALL OF APPROACH TO CONCRETE OUTLET CHANNEL OF MONROVIA STORM DRAIN INTO PECK ROAD AND ABOUT 1 MILE SOUTH OF MONROVIA. ELEVATION OF GAGE ABOUT 387 FEET.

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 FEET WIDE X 3.2 FEET 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, 1947 TO SEPTEMBER 30, 1949.

REGULATION: NONE.

DIVERSIONS: NONE.

RECORDS AVAILABLE: APRIL 25, 1932 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:

1947-1948
MAXIMUM 398 SECOND-FEET, MARCH 24.
MINIMUM NO FLOW MOST OF YEAR.

1948-1949
MAXIMUM 154 SECOND-FEET, MARCH 7.
MINIMUM NO FLOW MOST OF YEAR.

1932-1949
MAXIMUM 1,200 SECOND-FEET, ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW MOST OF EACH YEAR.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

DISCHARGE MEASUREMENTS OF MONROVIA STORM DRAIN

~~AT NEAR~~ Peck Road DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
18	2-5	1305 / 1311	MOON - MIRANDA	23.0	13.2	3.54	1.20	46.7		.6	7	0	FC22
19	3-19	1659 / 1704	MOON	18.0	15.3	1.11	0.97	17.0		.6	5	-.03	"

DISCHARGE MEASUREMENTS OF MONROVIA STORM DRAIN

~~AT NEAR~~ Peck Road DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
20	12-17	1359 / 1409	MOON	25.0	17.5	4.87	1.49	85.4		.6	8	-.14	FC22
21	12-17	1415 / 1423	"	25.0	14.0	3.59	1.27	50.2		.6	8	-.10	"
22	12-26	1040 / 1050	MOON - MIRANDA	25.0	12.3	3.17	1.21	39.0		.6	6	-.11	"
23	1-19	2244 / 2251	MOON	21.0	8.04	2.94	1.02	23.6		.6	7	-.02	"
24	1-20	0724 / 0732	MOON - MIRANDA	22.0	13.2	3.61	1.22	47.7		.6	8	+.03	"
25	2-3	1110 / 1116	MOON	12.0	3.08	2.92	0.85	9.0		.5	6	+.06	"
26	2-3	1128 / 1134	"	16.0	5.04	3.20	0.94	16.1		.6	5	0	"
27	2-7	1028 / 1037	"	20.0	14.4	1.97	1.05	28.3		.6	7	+.06	"
28	2-7	1044 / 1052	"	22.0	11.5	3.53	1.12	40.6		.6	6	-.05	"
29	2-24	1246 / 1255	"	18.0	11.0	3.65	1.15	40.1		.6	7	+.02	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F195-R

Daily discharge, in second-feet of MONROVIA STORM DRAIN at Peck Road, for the year ending September 30, 19 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0.3	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0.3	0	0	0	0	0
3	0	0	0	0	0	0	5.9	0	0	0	0	0
4	0	0	8.0	0	0	0	0	0	0	0	0	0
5	0	0	13.0	0	10.8	0	0.5	0	0	0	0	0
6	0	0	0	0	1.2	0	1.1	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	2.5	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	8.9	0	0	0	0	0	0
14	0	0	0	0	0	1.5	0	0	0	0	0	0
15	0	0	0	0	0	0.1	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	3.2	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0.9	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	16.8	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	9.8	0	0	0	0	0
29	0	0	0	0	0	0	0.6	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	21.3	0	12.0	31.4	20.7	0	0	0	0	0
MEAN	0	0	0.69	0	0.41	1.01	0.69	0	0	0	0	0
ACRE-FEET	0	0	42.	0	24.	62.	41.	0	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN 0.23
ACRE-FEET 169.

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

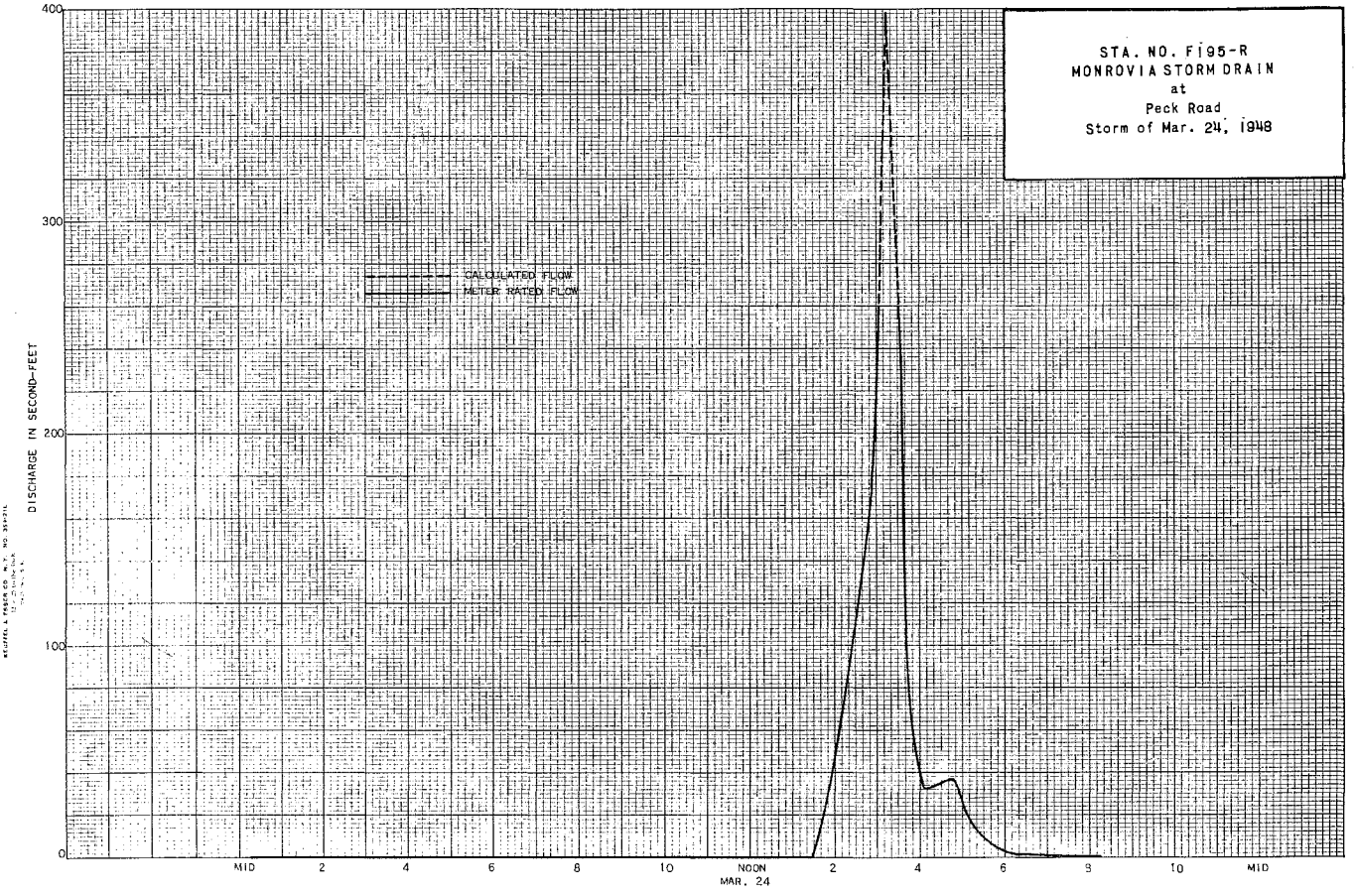
Sta. No. F195-R

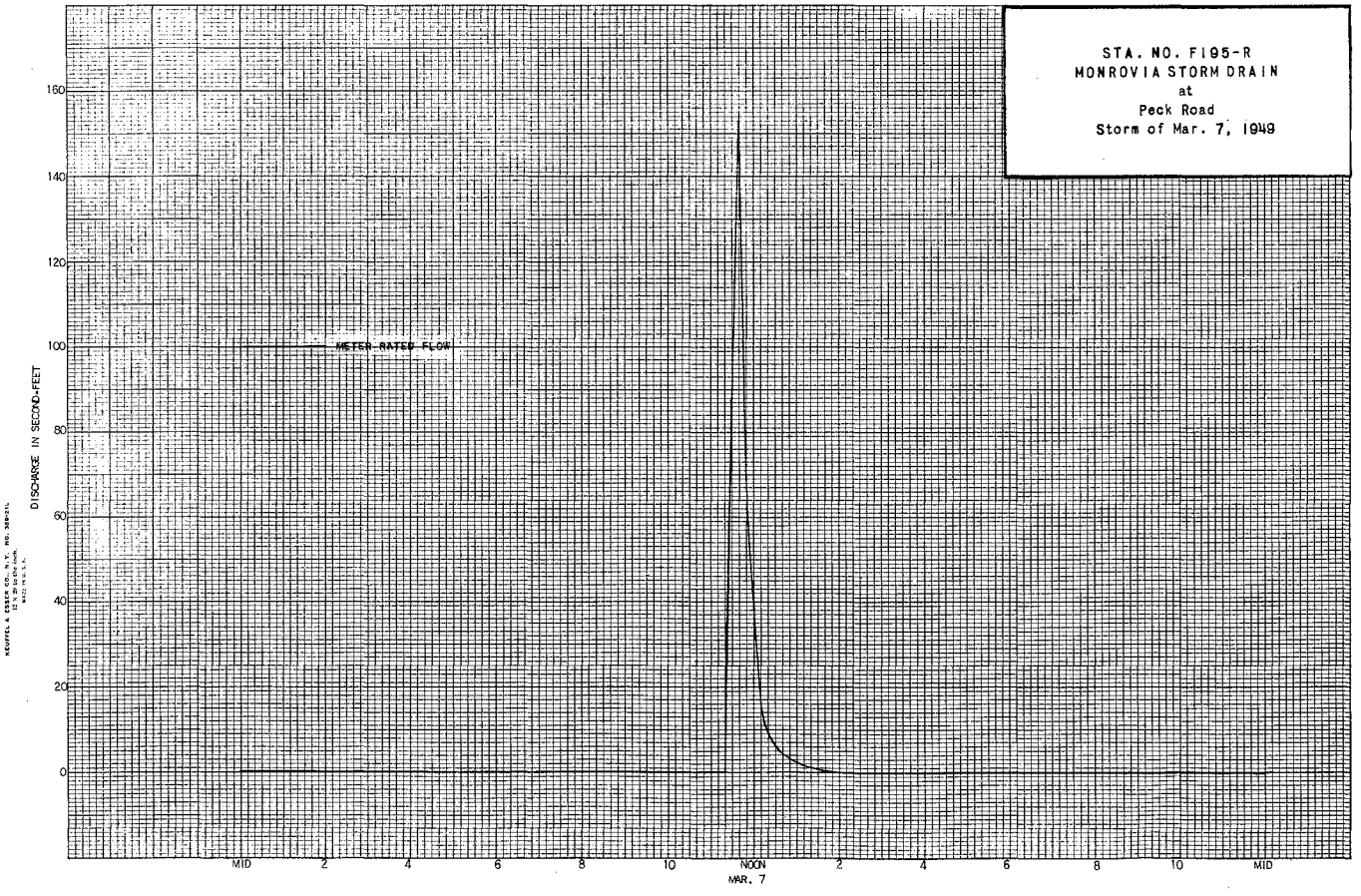
Daily discharge, in second-feet of MONROVIA STORM DRAIN at Peck Road, for the year ending September 30, 19 49

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0.8	0	0.6	0	0	0	0	0	0	0
4	0	0	0	0	0	5.1	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	1.9	3.0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0.4	0	0	0	0	0	0	0	0
10	0	0	0	0	0	1.1	0	0	0	0	0	0
11	0	0	0	1.2	4.0	4.4	0	0	0	0	0	0
12	0	0	0	0.9	0	0	0	0	0	0	0	0
13	0	0	0	6.8	0	0	0	0	0	0	0	0
14	0	0	0	2.6	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	9.3	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	5.2	0	0.1	0	0.4	0	0	0	0
20	0	0	0	7.2	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	1.4	1.5	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	2.3	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	4.5	0	6.0	0	0	0	0	0	0	0
27	0	0	2.5	0	2.3	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0.3	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0.3	0	18.5	25.8	17.1	13.7	0	0.4	0	0	0	0
MEAN	0.01	0	0.60	0.83	0.61	0.44	0	.013	0	0	0	0
ACRE-FEET	0.6	0	37.	51.	34.	27.	0	0.8	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN .208
ACRE-FEET 150.


STA. NO. F195-R
MONROVIA STORM DRAIN
at
Peck Road
Storm of Mar. 24, 1948
CALCULATED FLOW
METER RATED FLOW
DISCHARGE IN SECOND-FEET
400
300
200
100
0
MID
2
4
6
8
10
NOON
2
4
6
8
10
MID
MAR. 24


STA. NO. F195-R
MONROVIA STORM DRAIN
at
Peck Road
Storm of Mar. 7, 1949
METER RATED FLOW
DISCHARGE IN SECOND-FEET
160
140
120
100
80
60
40
20
0
MID
2
4
6
8
10
NOON
2
4
6
8
10
MID
MAR. 7

STATION F181-R
MONTEBELLO STORM DRAIN above Rio Hondo

LOCATION: WATER-STAGE RECORDER, LAT. 33°59'59", LONG. 118°06'17", ON THE RIGHT (SOUTH) WING WALL OF THE STORM DRAIN OUTLET, 200 FEET EAST OF THE EAST END OF MINES AVENUE AND 220 FEET WEST OF WEST BANK OF THE RIO HONDO NEAR MONTEBELLO. ELEVATION OF ZERO GAGE HEIGHT, 161.97 FEET.

DRAINAGE AREA: 9.6 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - CONCRETE APRON WITH WING WALLS BELOW A 14 FT. X 10 FT. CONCRETE-COVERED DRAIN. A DROP-OFF EXISTS JUST BELOW THE STATION. ON APRIL 11, 1935 A DIVERSION WALL 4 INCHES HIGH WAS BUILT ACROSS THE DRAIN 20 FEET ABOVE THE STATION. THE STAGE-DISCHARGE RELATION MAY BE AFFECTED BY BACKWATER FROM THE RIO HONDO DURING FLOOD FLOWS.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING AT OUTLET. HIGH FLOWS MEASURED FROM HEAD WALL AT END OF COVERED SECTION.

RECORDER: INSTALLED JANUARY 21, 1932 OVER AN 18-INCH DIAMETER CORRUGATED IRON PIPE STILLING WELL. AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

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, 1949.

EXTREMES OF DISCHARGE:

1947-1948
MAXIMUM 1,230 SECOND-FEET, DECEMBER 5.
MINIMUM NO FLOW AT VARIOUS TIMES.

1948-1949
MAXIMUM 347 SECOND-FEET, DECEMBER 17.
MINIMUM NO FLOW AT VARIOUS TIMES.

1931-1949
MAXIMUM 1,400 SECOND-FEET, ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: FAIR. 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. Dist. Form 55 4-45

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F181-R

Daily discharge, in second-feet of MONTEBELLO STORM DRAIN above Rio Hondo, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.5	0.7	11.2	0.3	a 0.1	0.1	0.5	0.5	0.7			
2	0.5	0.3	1.1	0.3	0.1	0.1	0.7	0.1	2.1			
3	0.5	0.9	0.3	0.5	0.1	0.1	8.8	0.1	0.5			
4	0.3	0.7	27	0.3	a 0.1	0.1	1.1	0.1	0.3			
5	0.5	0.1	8.6	0.1	f 3.9	0.1	2.4	0.1	0.1			
6	0.5	0.1	0.7	0.5	3.1	0.1	4.2	0.3	0.3			
7	0.5	0.1	0.3	0.1	0.1	0.1	0.3	0.3	0.7			
8	0.7	0.1	0.3	0.1	0.1	0.7	0.1	0.3	0.3			
9	0.5	0.1	0.1	0.1	0.1	0.5	0.1	0.1	0.3			
10	0.9	a 0.1	0.1	0.1	0.1	0.1	6.1	0.3	0.5			
11	0.7	a 0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.5			
12	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.7	0.5			
13	0.7	0.7	0.1	0.1	0.1	14.6	0.1	0.5	0.5			
14	0.7	0.5	0.1	0.3	0.1	8.7	0.5	0.7	0.5			
15	0.7	0.5	0.1	0.1	0.1	a 2.3	0.5	0.1	0.7			
16	0.9	0.5	0.1	0.1	0.1	a 0.3	0.1	0.3				
17	0.5	0.7	0.1	0.1	0.1	14.4	0.1	0.9				
18	0.5	0.5	0.1	0.1	0.1	0.9	0.1	0.5				
19	0.5	0.7	0.1	a 0.1	0.7	12.9	0.1	0.5				
20	0.9	a 0.7	0.1	0.1	0.3	0.7	0.1	0.5				
21	1.1	0.5	0.3	a 0.1	0.1	0.1	0.1	0.5	Clock stopped for summer			
22	0.5	5.0	0.1	0.3	0.1	0.1	0.1	0.7				
23	0.5	0.7	0.1	0.3	0.1	0.1	0.1	0.3				
24	0.5	0.5	0.1	0.3	0.1	56	0.1	0.9				
25	0.3	0.3	0.1	0.3	0.3	1.1	0.1	0.5				
26	0.3	a 0.3	0.1	0.3	0.1	0.5	0.1	0.5				
27	0.1	0.3	0.1	0.3	0.1	0.3	0.1	0.7				
28	0.3	0.3	0.1	0.1	0.7	0.1	23	0.9				
29	0.7	0.3	0.9	0.7	0.1	0.1	6.0	0.9				
30	0.3	0.3	0.3	a 0.1		0.7	0.5	0.7				
31	0.5		0.3	a 0.1		0.5		0.3				
	17.1	16.7	130.6	6.5	46.4	116.6	56.3	14.1	14.0	14.0	14.0	14.0
MEAN	0.55	0.56	4.21	0.21	1.60	3.76	1.88	0.45	a 0.47	a 0.45	a 0.45	a 0.47
ACRE-FEET	34.	33.	259.	13.	92.	231.	112.	28.	a 28.	a 28.	a 28.	a 28.

Remarks:

YEAR OR PERIOD MEAN 1.26
ACRE-FEET 913.

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F181-R

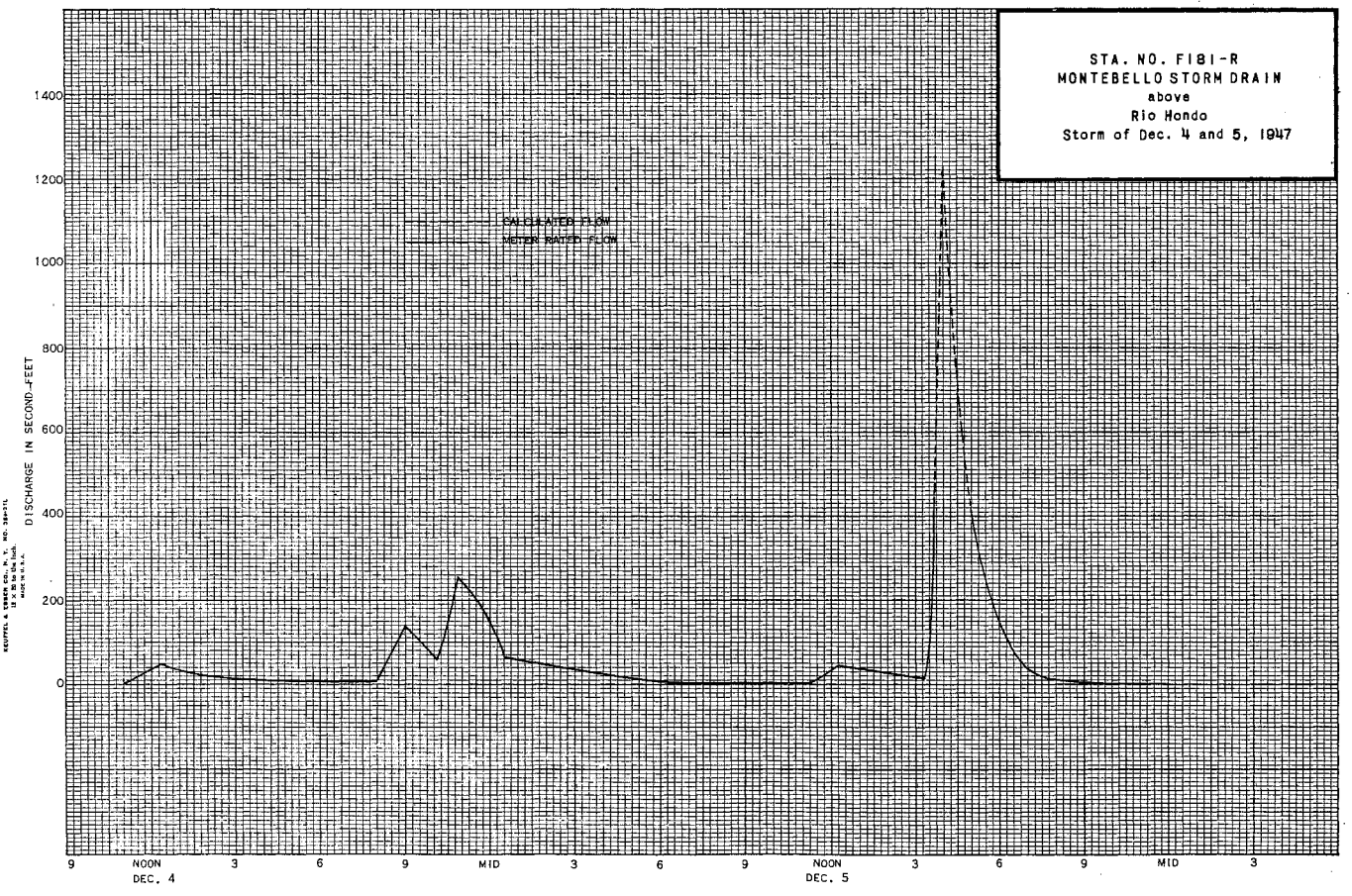
Daily discharge, in second-feet of MONTEBELLO STORM DRAIN above Rio Hondo, for the year ending September 30, 1948

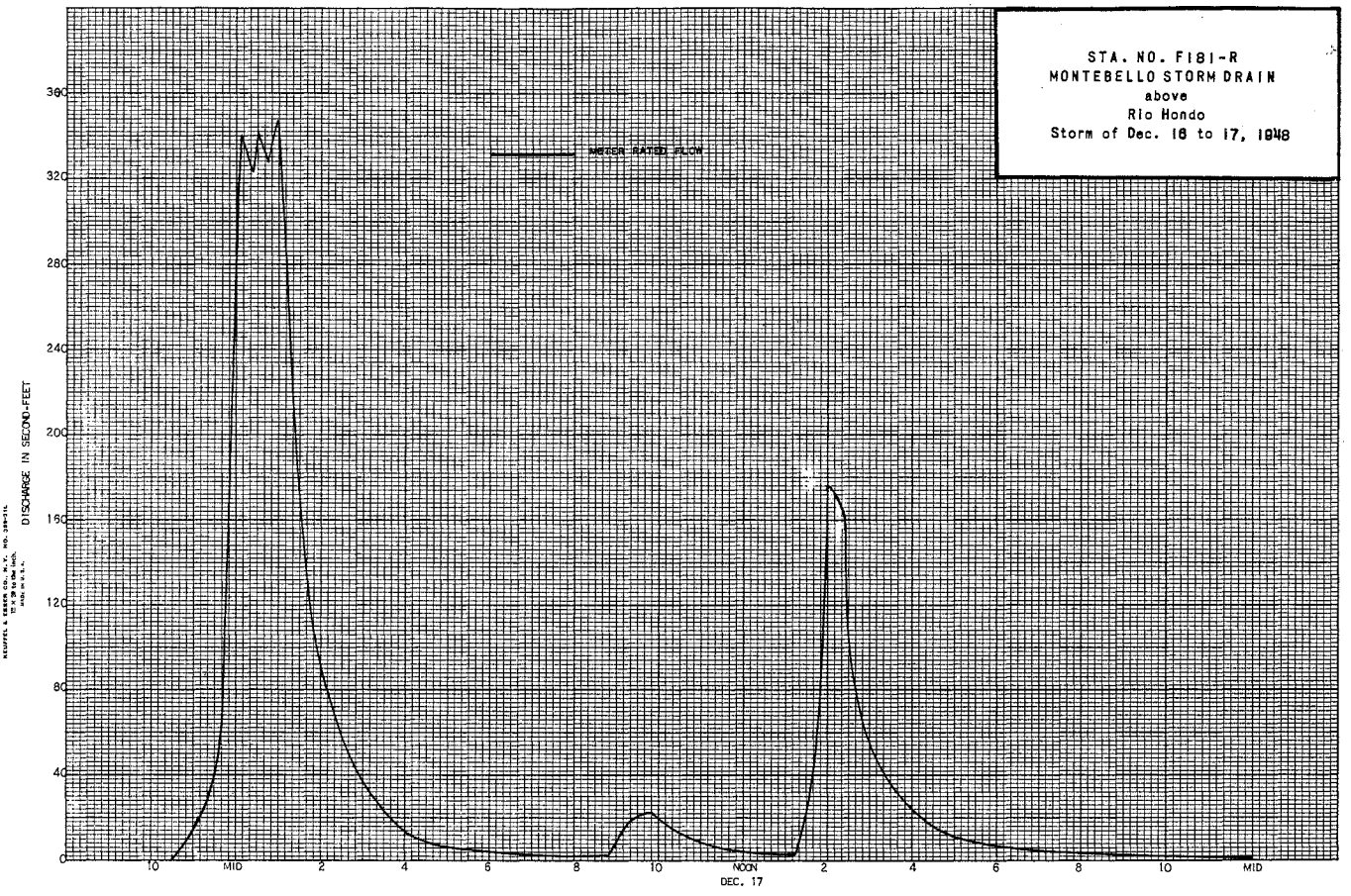
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.5	e 0.1	e 0.1	e 0.1	e 0.1	e 0.1	0.3	0.5				
2	1.1	0.1	e 0.1	0.1	e 0.1	e 0.1	0.7	0.3				
3	1.1	0.1	2.2	0.1	10.0	e 0.1	0.5	0.5				
4	1.5	0.1	0.3	0.1	e 0.1	2.1	0.9	0.3				
5	1.5	0.1	e 0.1	0.1	e 0.1	1.7	0.7	0.3				
6	1.5	0.1	0.1	0.1	e 0.1	0.7	0.9	0.3				
7	1.3	0.1	0.1	0.1	17.9	0.9	0.7	0.5				
8	1.3	0.1	0.1	e 0.1	0.7	0.3	1.3	0.3				
9	1.3	0.1	0.1	0.7	0.5	e 0.1	0.5	0.3				
10	1.5	e 0.1	0.1	e 0.1	0.7	5.6	0.7	0.3				
11	1.7	0.3	0.1	12.1	5.0	19.6	1.1	0.3				
12	1.3	0.3	0.1	2.1	0.3	0.7	0.7	1.3				
13	1.5	e 0.1	0.1	7.0	e 0.1	0.3	0.9	0.7				
14	1.9	e 0.1	e 0.1	2.2	0.1	0.7	1.1	0.9				
15	1.5	0.9	0.1	e 0.1	e 0.1	e 0.1	1.1	0.3				
16	1.3	e 0.1	6.6	e 0.1	0.1	0.5	0.9	1.1				
17	2.1	0.3	4.1	e 0.1	0.1	0.3	0.7	3.4				
18	3.1	e 0.1	0.5	0.3	0.1	0.3	0.7	2.6				
19	1.7	e 0.1	e 0.1	3.2	0.1	2.9	0.7	8.8				
20	1.9	0.3	e 0.1	3.1	0.1	0.5	0.7	0.7				
21	1.7	e 0.1	e 0.1	0.5	0.1	0.3	0.7	e 0.1				
22	1.5	e 0.1	7.8	6.9	0.1	0.3	0.7	e 0.1				
23	1.5	0.1	e 0.1	0.9	e 0.1	0.5	0.7	0.3				
24	1.5	0.1	e 0.1	0.3	4.2	0.7	0.9	e 0.1				
25	1.3	0.1	e 0.1	e 0.1	0.5	0.5	0.9	a 0.1				
26	1.1	0.1	19.8	0.1	4.7	0.5	0.5	0.1				
27	0.9	e 0.1	18.2	0.1	2.1	0.3	0.5	0.1				
28	0.7	0.3	0.7	0.1	0.9	0.7	0.5	0.1				
29	0.7	0.3	e 0.1	0.1		0.3	0.9	0.1				
30	0.3	0.1	e 0.1	0.1		0.3	0.5	0.1				
31	0.1		e 0.1	e 0.1		0.3		a 0.1				
	42.9	5.0	99.3	116.8	49.1	61.2	22.6	25.0	3.0	3.1	3.1	3.0
MEAN	1.38	0.17	3.20	3.77	1.75	1.97	0.75	0.81	0.10	0.10	0.10	0.10
ACRE-FEET	85.	9.9	197.	232.	97.	121.	45.	50.	6.0	6.1	6.1	6.0

Recorder stopped for summer

Remarks:

YEAR OR PERIOD MEAN 1.19
ACRE-FEET 861.





STATION F118B-R
PACOIMA CREEK FLUME below Pacoima Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°20'07", LONG. 118°23'50", 4 MILES NORTHEAST OF SAN FERNANDO, AND ABOUT 500 FEET DOWNSTREAM FROM PACOIMA DAM; FORMER STATION F118-R WAS APPROXIMATELY 450 FEET DOWNSTREAM. FORMER STATION U13-R WAS APPROXIMATELY 0.5 MILE DOWNSTREAM. ELEVATION OF GAGE, ABOUT 1,650 FEET.

DRAINAGE AREA: 28.2 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - GRAVEL AND BOULDERS ABOVE AND BELOW FLUME. CONTROL - A 10-FOOT SAN DIMAS TYPE RUBBLE AND CONCRETE FLUME. A 90° V-NOTCH WEIR CAN BE DROPPED TO MEASURE LOW FLOWS.

DISCHARGE MEASUREMENTS: FROM FOOTBRIDGE OVER FLUME.

RECORDER: INSTALLED AT STATION F118-R ON MARCH 24, 1933; REMOVED FEBRUARY 1, 1935. INSTALLED AT STATION F118B-R ON FEBRUARY 9, 1935; REMOVED APRIL 28, 1937. REINSTALLED JUNE 25, 1937. AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: REGULATED BY PACOIMA DAM. STATIONS F118-R AND F118B-R DO NOT INCLUDE SPILLWAY DISCHARGE. STATION U13-R WAS SO LOCATED THAT IT WOULD HAVE INCLUDED SPILLWAY DISCHARGE.

DIVERSIONS: WATER PASSING OVER PACOIMA DAM SPILLWAY ENTERS PACOIMA CREEK BELOW STATION F118B-R.

RECORDS AVAILABLE: AT STATION U13-R, PACOIMA CREEK NEAR SAN FERNANDO, CALIFORNIA AT OFFICE OF U.S. GEOLOGICAL SURVEY, WATER RESOURCES BRANCH, LOS ANGELES, FROM MARCH 1916 TO SEPTEMBER 1929. FROM OCTOBER 1, 1929 TO MARCH 23, 1933 RECORDS BASED ON DAM OUTFLOW RECORDS AND GAGE READINGS AT THE PARSHALL FLUME BELOW PACOIMA DAM. THESE RECORDS ARE AVAILABLE AT THE OFFICE OF THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.
AT STATION F118-R - MARCH 24, 1933 TO FEBRUARY 1, 1935.
AT STATION F118B-R - FEBRUARY 9, 1935 TO APRIL 28, 1937 AND JUNE 25, 1937 TO JUNE 15, 1943, AND FROM SEPTEMBER 15, 1943 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:
1947-1948
MAXIMUM 10 SECOND-FEET, JUNE 22.
MINIMUM NO FLOW AT VARIOUS TIMES.
1948-1949
MAXIMUM 10 SECOND-FEET, JUNE 24.
MINIMUM NO FLOW AT VARIOUS TIMES.
1916-1929 (STATION U13-R)
MAXIMUM 1,860 SECOND-FEET, FEBRUARY 16, 1927.
MINIMUM NO FLOW AT VARIOUS TIMES.
1929-1949 (STATIONS F118-R, F118B-R, AND PARSHALL FLUME AND DAM RECORDS)
MAXIMUM 685 SECOND-FEET, MARCH 2, 1938.
MAXIMUM 2,060 SECOND-FEET, MARCH 3, 1938 INCLUDING SPILLWAY DISCHARGE.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: EXCELLENT FOR LIMITS OF FLOW.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

DISCHARGE MEASUREMENTS OF PACOIMA CREEK

~~AT~~ NEAR below Pacoima Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
505	10-8	1530 / 1535	TURNER	2.1	0.47	1.02		0.48		.5	4		FC43
506	7-2	1545	"				1.25	4.4		V NOTCH WEIR			
507	7-15	0915	"				0.48	0.41		"			
508	7-22	1053	"				0.48	0.41		"			
509	7-29	1545	"				0.46	0.37		"			
510	8-12	1530	"				0.15	0.02		"			
511	9-23	0930	"				0.355	0.20		"			

DISCHARGE MEASUREMENTS OF PACOIMA CREEK

~~AT~~ NEAR below Pacoima Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
512	4-28	1205	TURNER				1.40	5.8		V-NOTCH WEIR			
513	5-5	0930 / 0939	"	10.0	9.28	0.52	1.30	4.8		.6	9		FC43
514	5-12	1505	"				1.36	5.4		V-NOTCH WEIR			
515	5-18	0830	"				1.38	5.6		V-NOTCH WEIR			
516	6-9	0915	"				1.29	4.7		V-NOTCH WEIR			
517	6-22	1620	"				1.24	4.3		V-NOTCH WEIR			
518	8-3	1420	"				1.34	5.2		V-NOTCH WEIR			
519	8-11	1345	"				0.56	0.60		V-NOTCH WEIR			
520	8-25	1130	"				0.455	0.36		V-NOTCH WEIR			
521	9-8	1640	"				0.47	0.39		V-NOTCH WEIR			

F. C. Dist. Form 82 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F116B-R

Daily discharge, in second-feet of PACOIMA CREEK below Pacoima Dam, for the year ending September 30, 19 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	b0.4	0.3	0	0	0	0	0	0	0	5.8	0.4	0
2	0.5	0.3	0	0	0	0	0	0	0	5.1	0.4	0
3	0.5	0.3	0	0	0	0	0	0	0	2.2	0.5	0
4	0.5	0.2	0	0	0	0	0	0	0	1.5	0.4	0
5	0.5	0.1	0	0	0	0	0	0	0	1.2	0.4	0
6	0.5	0.1	0	0	0	0	0	0	0	0.8	0.3	0
7	0.5	0.1	0	0	0	0	0	0	0	0.6	0.3	0
8	0.5	0	0	0	0	0	0	0	0	0.6	0.3	0
9	0.5	0	0	0	0	0	0	0	0	0.4	0.3	0
10	0.4	0	0	0	0	0	0	0	4.3	+	0.3	0
11	0.4	0	0	0	0	0	0	0	6.4	+	0.3	0
12	0.4	0	0	0	0	0	0	0	6.4	0.1	0.1	0
13	0.4	0	0	0	0	0	0	0	6.3	0.4	+	0
14	b0.4	0	0	0	0	0	0	0	6.2	0.4	+	0
15	0.3	0	0	0	0	0	0	0	6.2	0.4	+	0
16	0.3	0	0	0	0	0	0	0	6.2	0.4	0	0
17	0.3	0	0	0	0	0	0	0	6.0	0.4	0	+
18	0.4	0	0	0	0	0	0	0	5.9	0.4	0	0.1
19	0.4	0	0	0	0	0	0	0	5.9	0.4	0	0.1
20	0.4	0	0	0	0	0	0	0	5.8	0.4	0	0.1
21	0.3	0	0	0	0	0	0	0	5.7	0.4	0	0.2
22	0.3	0	0	0	0	0	0	0	5.8	0.4	0	0.2
23	0.3	0	0	0	0	0	0	0	5.7	0.4	0	0.2
24	0.3	0	0	0	0	0	0	0	5.6	0.4	0	0.2
25	0.3	0	0	0	0	0	0	0	6.0	0.4	0	0.2
26	0.3	0	0	0	0	0	0	0	5.8	0.4	0	0.2
27	0.3	0	0	0	0	0	0	0	5.6	0.4	0	0.2
28	0.3	0	0	0	0	0	0	0	5.4	0.4	0	0.2
29	0.3	0	0	0	0	0	0	0	6.0	0.4	0	0.2
30	0.3	0	0	0		0	0	0	6.3	0.4	0	0.2
31	0.3		0	0		0		0		0.4	0	
	11.8	1.4	0	0	0	0	0	0	123.5	25.9	4.0	2.3
MEAN	0.38	0.46	0	0	0	0	0	0	4.11	0.84	0.13	0.08
ACRE-FEET	23.	2.8	0	0	0	0	0	0	245.	51.	7.9	4.6

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

YEAR OR PERIOD MEAN 0.46
ACRE-FEET 334.

F. C. Dist. Form 58 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F118B-R

Daily discharge, in second-feet of Pacoima Creek below Pacoima Dam, for the year ending September 30, 19 49

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.2	0.1	0	0	0	+	5.5	5.0	+	+	0.3
2	0.2	0.2	0.1	0	0	0		5.5	4.9		3.6	0.2
3	0.2	0.2	0.1	0	0	0		5.4	4.6		5.2	0.3
4	0.2	0.1	0.1	0	0	0		5.4	4.6		4.5	0.3
5	0.2	0.1	0.1	0	0	0		5.4	4.6		4.1	0.3
6	0.2	0.1	0.1	0	0	0		5.4	4.6		3.3	0.3
7	0.2	0.1	0.1	0	0	+		5.2	4.6		2.4	0.3
8	0.2	0.1	0.1	0	0			5.4	4.7		2.3	0.4
9	0.2	0.1	0.1	0	0			5.4	4.7		0.9	0.3
10	0.2	0.1	0.1	0	0			5.4	4.7		0.4	0.3
11	0.2	0.1	0.1	0	0			5.4	4.7		0.6	0.2
12	0.2	0.1	0.1	0	0			5.4	3.8		0.6	0.3
13	0.2	0.1	0.1	+	0			5.4	4.0		0.6	0.3
14	0.2	0.1	0.1	0	0			5.5	4.7		0.5	0.3
15	0.2	0.1	0.1	0	0			5.5	4.6		0.5	0.3
16	0.2	0.1	+	0	0			5.5	4.6		0.5	0.3
17	0.2	0.1	0	0	0			5.6	4.8		0.4	0.3
18	0.2	0.1	0	0	0			5.6	4.5		0.3	0.3
19	0.2	0.1	0	0	0			5.6	4.4		0.3	0.3
20	0.2	0.1	0	0	0			5.6	4.7		0.3	0.3
21	0.2	0.1	0	0	0			5.6	4.2		0.3	0.3
22	0.2	0.1	0	0	0			5.6	4.3		0.4	0.3
23	0.2	0.1	0	0	0			5.6	3.9		0.4	0.1
24	0.2	0.1	0	0	0			5.1	5.1		0.4	+
25	0.2	0.1	0	0	0			4.8	7.9		0.4	+
26	0.2	0.1	0	0	0			4.8	7.6		0.4	0.2
27	0.2	0.1	0	0	0		+	4.8	7.2		0.4	0.6
28	0.2	0.1	0	0	0		4.0	4.8	5.6		0.4	+
29	0.2	0.1	0	0			5.5	4.8	1.3		0.3	0.4
30	0.2	0.1	0	0			5.5	4.8	+		0.2	0.5
31	0.2		0	0		+		4.8		+	0.3	
	6.2	3.3	1.5		0		15.0	164.6	138.9		35.2	8.3
MEAN	0.20	0.11	0.05	+	0	+	0.50	5.31	4.63	+	1.13	0.28
ACRE-FEET	12.	6.5	3.0	+	0	+	3.0	326.	276.	+	70.	16.

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

YEAR MEAN 1.02
OR PERIOD ACRE-FEET 740.

STATION F16-R
PACOIMA WASH at Parthenia Street

LOCATION: WATER-STAGE RECORDER, LAT. 34°13'42", LONG. 118°27'32", ON THE DOWNSTREAM SIDE OF PARTHENIA STREET BRIDGE APPROXIMATELY 3 MILES NORTHWEST OF VAN NUYS. ELEVATION OF ZERO GAGE HEIGHT, 812.94 FEET.

DRAINAGE AREA: 50.6 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - COMPOSED OF SAND AND GRAVEL. WEEDS AND BRUSH ALONG BANKS. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM UPSTREAM SIDE OF HIGHWAY BRIDGE.

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, 1947 TO SEPTEMBER 30, 1949.

REGULATION: FLOW PARTIALLY REGULATED BY PACOIMA DAM AND PACOIMA SPREADING GROUNDS.

DIVERSIONS: TWO SMALL DIVERSIONS FOR IRRIGATION NEAR MOUTH OF CANYON. WATER DIVERTED TO THE PACOIMA SPREADING GROUNDS DURING SPREADING OPERATIONS.

RECORDS AVAILABLE: DECEMBER 26, 1928 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:

1947-1948
MAXIMUM 178 SECOND-FEET, MARCH 24.
MINIMUM NO FLOW MOST OF YEAR.

1948-1949
MAXIMUM 60 SECOND-FEET, DECEMBER 26.
MINIMUM NO FLOW MOST OF YEAR.

1929-1949
MAXIMUM 2,400 SECOND-FEET, ESTIMATED MARCH 3, 1938.
MINIMUM NO FLOW MOST OF YEAR.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

DISCHARGE MEASUREMENTS OF PACOIMA WASH

AT ~~NEAR~~ Parthenia Street DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
232	2-5	1416 / 1425	TURNER - RILEY	TWO CHANNELS			3.92	2.8		.5	7	0	FC43
233	2-6	1455 / 1500	" "	4.0	0.36	0.78	3.60	0.28		.5	4	0	"
234	3-14	1655 / 1658	TURNER	6.0	0.80	1.50	3.70	1.2		.5	3	0	"
235	3-17	1527 / 1530	"	1.1	0.08	0.75	3.47	0.06		.5	3	0	"
236	3-24	2007 / 2013	"	12.0	3.12	1.83	3.71	5.7		.5	6	-.02	"
237	4-10	0955 / 0958	"	2.8	0.44	0.80	3.48	0.35		.5	4	0	"

DISCHARGE MEASUREMENTS OF PACOIMA WASH

AT ~~NEAR~~ Parthenia Street DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
238	12-17	0920 / 0926	TURNER	7.0	0.91	0.97	3.58	0.88		.5	5	0	FC43
239	1-20	0848 / 0857	"	19.0	4.28	1.99	3.83	8.5		.6	9	-.02	"
240	1-22	1547 / 1553	TURNER - RILEY	16.0	3.84	1.49	3.78	5.7		.6	8	+.01	"
241	1-22	1654 / 1703	" "	25.0	10.6	3.75	4.08	39.7		.6	11	-.01	"
242	2-3	1042 / 1045	TURNER	2.5	0.33	1.09	3.47	0.36		.5	5	0	"

F. C. Dist. Form 82 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F16-R

Daily discharge, in second-feet of PACOIMA WASH at Parthenia Street, for the year ending September 30, 19 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	+	0	0	0	0	0
4	0	0	0.6	0	0	0	0	0	0	0	0	0
5	0	0	6.6	0	4.2	0	0	0	0	0	0	0
6	0	0	0	0	5.5	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	+	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	5.6	0	0	0	0	0	0
14	0	0	0	0	0	3.3	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	+	0	0	0	0	0	0
17	0	0	0	0	0	6.6	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	1.9	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0.1	0	0	0	0	0
29	0	0	0	0	0	0	0.3	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	7.2	0	9.7	34.5	0.4	0	0	0	0	0
MEAN	0	0	0.23	0	0.33	1.11	0.01	0	0	0	0	0
ACRE-FEET	0	0	14.	0	19.	68.	0.8	0	0	0	0	0

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

YEAR OR PERIOD MEAN 0.14
ACRE-FEET 102.

F. C. Dist. Form 82 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

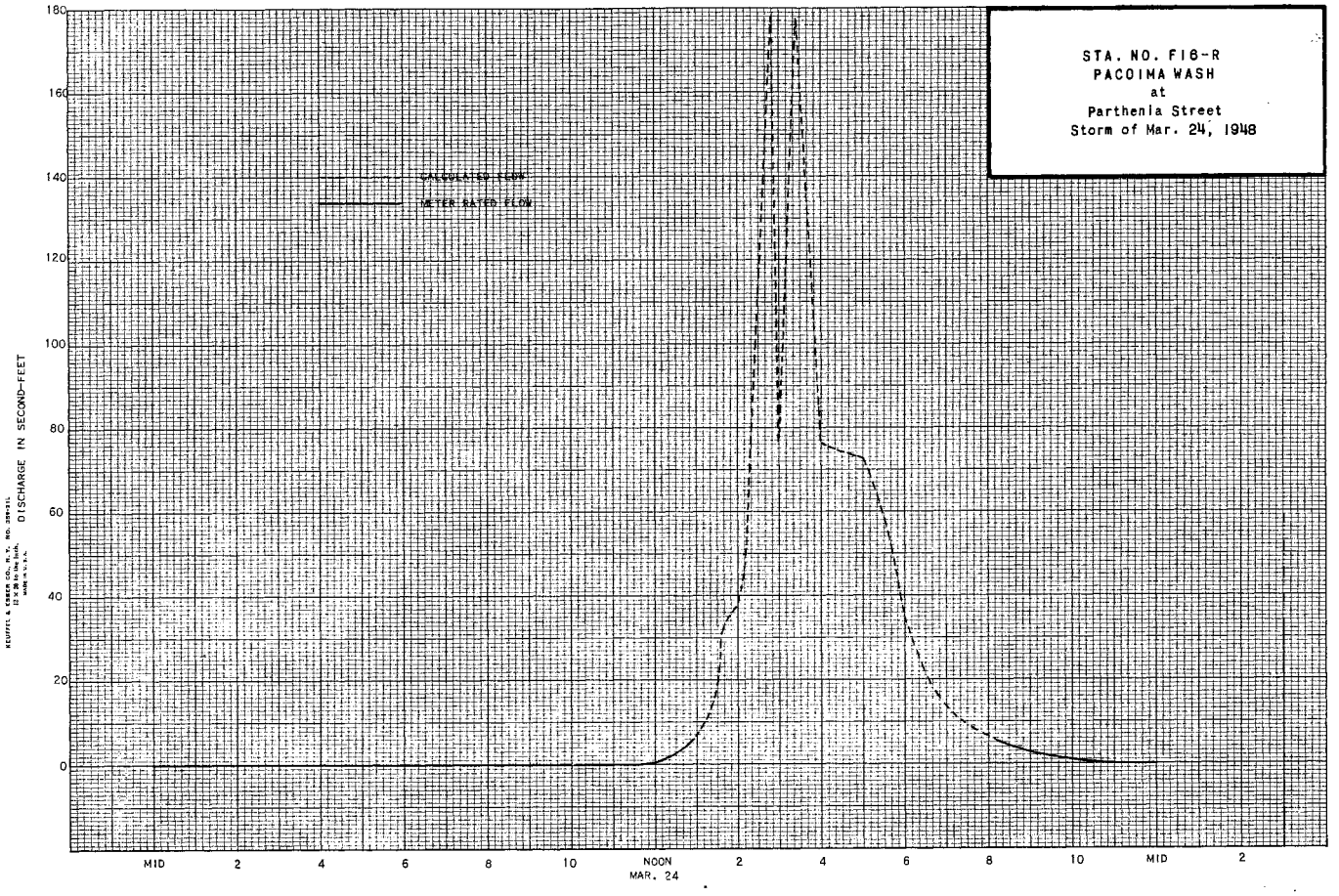
Sta. No. F16-R

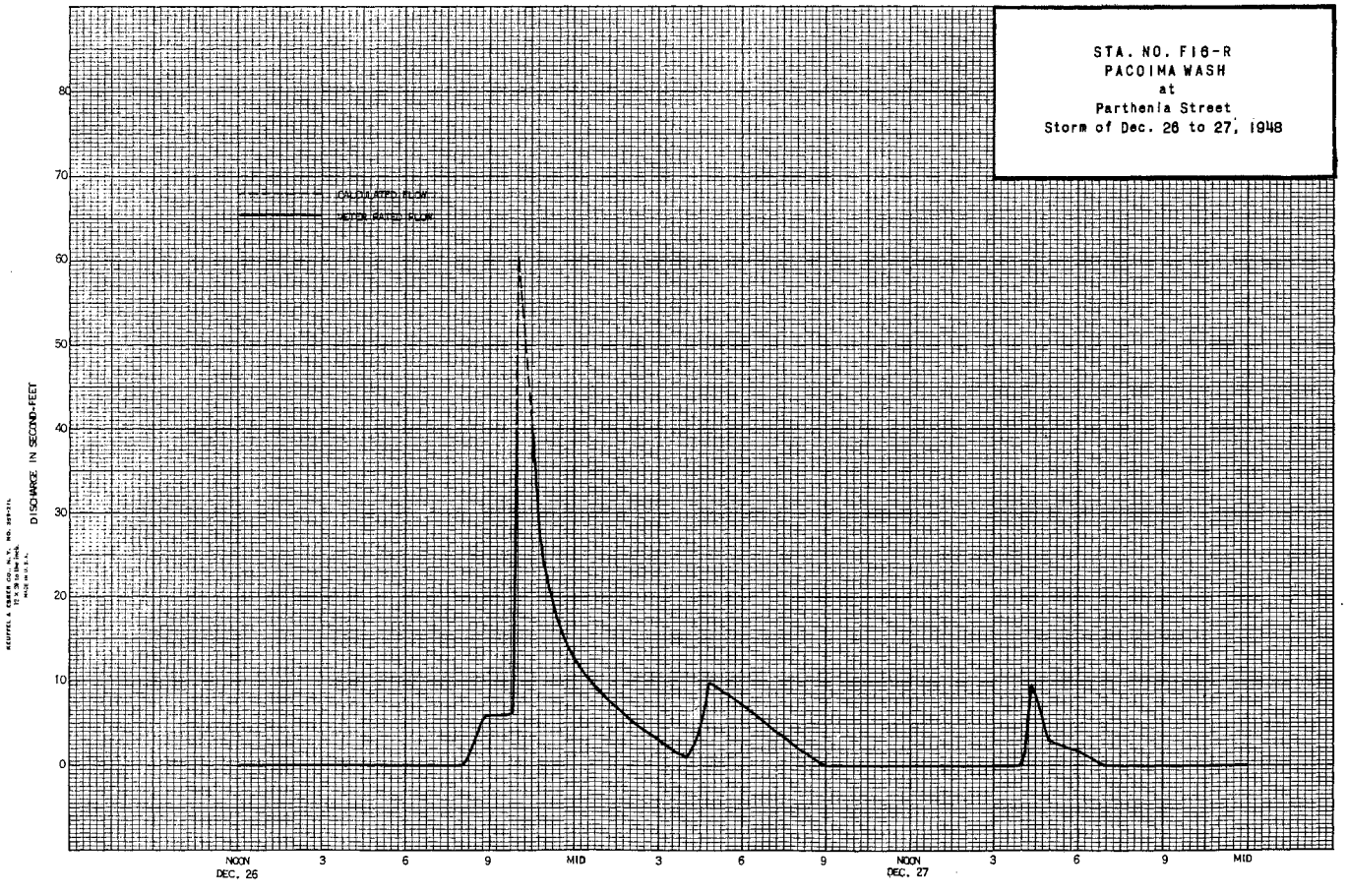
Daily discharge, in second-feet of PACOIMA WASH at Parthenia Street, for the year ending September 30, 19 49

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0.1	+	0	0	0	0	0	0
4	0	0	0	0	0	0.1	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0.2	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	+	0	0	0	0	0	0
11	0	0	0	0	+	0.1	0	0	0	0	0	0
12	0	0	0	0.9	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0.4	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	6.6	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0.2	0	0	0	0
19	0	0	0	2.9	0	+	0	1.3	0	0	0	0
20	0	0	0	2.3	0	0	0	0	0	0	0	0
21	0	0	0.9	0	a 0	0	0	0	0	0	0	0
22	0	0	0	4.5	a 0	0	0	0	0	0	0	0
23	0	0	0	0	a 0	0	0	0	0	0	0	0
24	0	0	0	0	+	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	3.2	0	0.1	0	0	0	0	0	0	0
27	0	0	2.9	0	+	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	13.6	11.0	0.4	0.2	0	1.5	0	0	0	0
MEAN	0	0	0.44	0.35	.014	.006	0	.005	0	0	0	0
ACRE-FEET	0	0	27.	22.	0.8	0.4	0	3.	0	0	0	0

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

YEAR OR PERIOD MEAN 0.07
ACRE-FEET 53.


STA. NO. F16-R
PACOIMA WASH
at
Parthenia Street
Storm of Mar. 24, 1948
CALCULATED FLOW
METER RATED FLOW
DISCHARGE IN SECOND-FEET
180
160
140
120
100
80
60
40
20
0
MID
2
4
6
8
10
NOON
MAR. 24
2
4
6
8
10
MID
2


STA. NO. F16-R
PACOIMA WASH
at
Parthenia Street
Storm of Dec. 26 to 27, 1948
CALCULATED FLOW
METER RATED FLOW
DISCHARGE IN SECOND-FEET
80
70
60
50
40
30
20
10
0
NOON
DEC. 26
3
6
9
MID
3
6
9
NOON
DEC. 27
3
6
9
MID

STATION F135-R
PLACERITA CREEK on Ridge Route Highway

LOCATION: WATER-STAGE RECORDER, LAT. 34°24'52", LONG. 118°32'34", ON THE RIGHT (EAST) BANK AND ON THE UPSTREAM SIDE OF RIDGE ROUTE HIGHWAY BRIDGE, ABOUT 700 FEET WEST OF RIDGE ROUTE AND HIGHWAY 6 JUNCTION.

DRAINAGE AREA: 40.9 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL, SAND AND GRAVEL WITH BRIDGE PIERS ACTING AS A CONTROL FOR HIGH FLOWS.

DISCHARGE MEASUREMENTS: LOW FLOWS BY WADING. HIGH FLOWS MEASURED BY CABLE CAR 300± FEET UPSTREAM FROM STATION.

RECORDER: INSTALLED SEPTEMBER 9, 1947 OVER A 24-INCH DIAMETER IRON PIPE STILLING WELL. AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: NONE. FLOWS OCCASIONALLY ORIGINATE FROM LOS ANGELES AQUEDUCT BLOWOFF.

DIVERSIONS: NONE.

RECORDS AVAILABLE: SEPTEMBER 9, 1947 TO SEPTEMBER 30, 1949. FOR PREVIOUS MEASUREMENTS AND RECORD SEE STAFF GAGE STATION F135-S, NEWHALL CREEK IN THE LOS ANGELES FLOOD CONTROL DISTRICT FILES.

EXTREMES OF DISCHARGE:
1947-1948
MAXIMUM 82 SECOND-FEET, MARCH 24.
MINIMUM NO FLOW MOST OF YEAR.
1948-1949
MAXIMUM 37 SECOND-FEET, DECEMBER 26.
MINIMUM NO FLOW MOST OF YEAR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

DISCHARGE MEASUREMENTS OF PLACERITA CREEK (formerly Newhall Creek)

AT ~~NEAR~~ Ridge Route Highway DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1	3-17	1145 / 1148	LUCE	3.0	0.56	0.75	2.78	0.42		.6	4	0	FC39
2	3-24	1710 / 1725	LUCE - WRIGHT	34.0	17.3	3.70	3.42	64.0		.6	9	-.02	"
3	3-24	2050 / 2100	LUCE	15.0	5.00	1.80	3.17	9.0		.6	7	+.02	"
4	4-8	1542 / 1544	"	2.0	0.14	0.43	2.75	0.06		.6	2	0	"
5	4-29	0830 / 0835	"	5.0	0.91	1.09	2.71	1.0		.6	5	-.01	"
6	5-20	1140 / 1145	"	3.3	0.59	1.03	2.51	0.61		.6	5	+.02	"
7	5-26	1240 / 1245	"	3.0	0.60	0.90	2.50	0.54		.6	5	0	"
8	6-4	1230 / 1235	"	1.4	0.10	0.70	2.43	0.07		.5	3	0	"
9	6-9	1005 / 1008	"	1.7	0.37	0.95	2.49	0.35		.6	3	-.01	"
10	6-23	1115 / 1118	TURNER	3.3	0.48	1.19	2.52	0.57		.5	4	0	FC43
11	7-29	1800 / 1803	LUCE	2.0	0.26	0.77	2.50	0.20		.6	4	0	FC39

DISCHARGE MEASUREMENTS OF PLACERITA CREEK

AT ~~NEAR~~ Ridge Route Highway DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
12	1-20	0800 / 0810	LUCE - WRIGHT	24.5	9.78	2.08	3.14	20.3		.6	10	0	FC39
13	1-20	1315 / 1325	" "	9.5	2.80	2.18	2.86	6.1		.6	7	0	"
14	3-3	1135 / 1140	LUCE	8.5	3.07	2.38	2.80	7.3		.6	6	0	"
15	3-11	0410 / 0415	"	13.0	5.16	1.74	2.93	9.0		.6	6	0	"
16	3-11	0835 / 0845	"	6.0	1.87	1.76	2.66	3.3		.6	7	0	"
17	6-9	1045 / 1050	"	2.4	0.58	1.24	2.44	0.72		.6	5	0	"
18	6-23	1120 / 1123	TURNER	2.0	0.18	1.00	2.28	0.18		.5	4	0	FC43
19	7-14	1020 / 1025	LUCE	3.0	0.46	1.00	2.34	0.46		.6	6	0	FC39
20	7-28	0946 / 0950	"	1.4	0.17	0.82	2.31	0.14		.6	3	0	"

F. C. Dist. Form 82 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F135-R

Daily discharge, in second-feet of PLACERITA CREEK at Ridge Route Highway, for the year ending September 30, 19 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	+	0.1	0	0	0
2	0	0	0	0	0	0	0	+	0	0.1	0	0
3	0	0	0	0	0	0	0.4	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0.1	0	0	0
5	0	0	0	0	0	0	0	0	0.3	0	0	0
6	0	0	0	0	0	0	0	0	0.3	0	0	0
7	0	0	0	0	0	0	0	0	0.2	0	0	0
8	0	0	0	0	0	0	0.1	0	0.2	0	0	0
9	0	0	0	0	0	0	0.2	0	0.4	0	0	0
10	0	0	0	0	0	0	0	0	0.2	0	0	0
11	0	0	0	0	0	0	0	0	0.1	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0.3	0.1	0	0.3	0	0	0
14	0	0	0	0	0	0.5	0.1	0	0.3	0	0	0
15	0	0	0	0	0	2.8	+	0	0.1	0	0	0
16	0	0	0	0	0	0.7	+	0	0	0	0	0
17	0	0	0	0	0	4.4	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	+	0	0	0	0	0
20	0	0	0	0	0	0	+	0.3	0	0	0	0
21	0	0	0	0	0	0	0	0.6	0	0	0	0
22	0	0	0	0	0	0	0	1.0	0	0	0	0
23	0	0	0	0	0	0	0	0.9	0	0	0	0
24	0	0	0	0	0	1.9	0	0.4	0	0	0	0
25	0	0	0	0	0	0	0	0.4	0	0	0	0
26	0	0	0	0	0	0	0	0.8	0.2	0	0	0
27	0	0	0	0	0	0	0	0.8	0.2	0	0	0
28	0	0	0	0	0	0	0	0.6	0.1	0	0	0
29	0	0	0	0	0	0	3.0	0.2	0.2	0	0	0
30	0	0	0	0		0	+	1.0	0.1	0	0	0
31	0		0	0		0		0		0	0	
	0	0	0	0	0	27.7	3.9	7.0	3.4	0.1	0	0
MEAN	0	0	0	0	0	0.89	0.13	0.23	0.11	.003	0	0
ACRE-FEET	0	0	0	0	0	55.	7.7	14.	6.7	0.2	0	0

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

YEAR OR PERIOD MEAN 0.12
ACRE-FEET 84.

F. C. Dist. Form 82 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

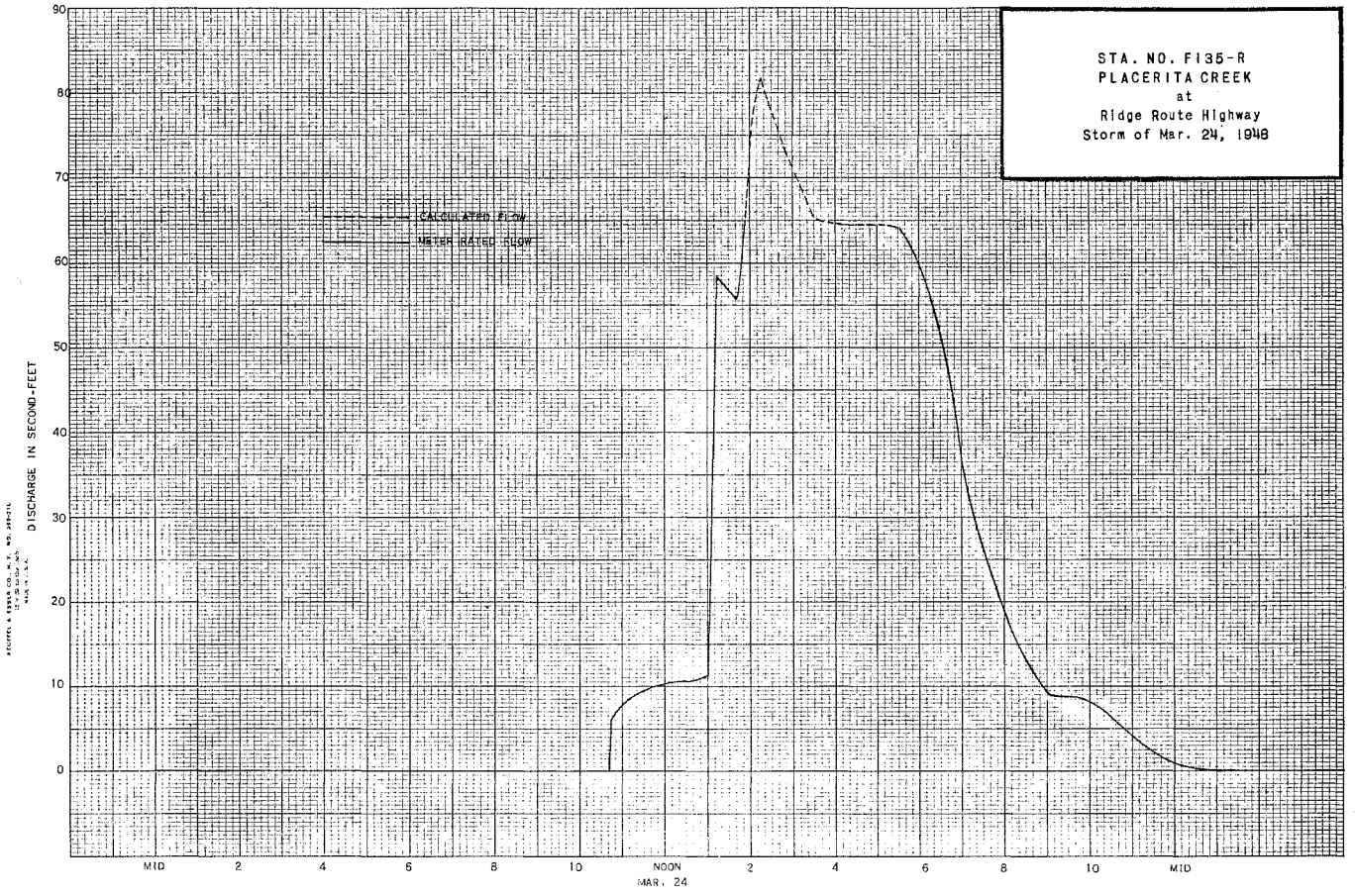
Sta. No. F135-R

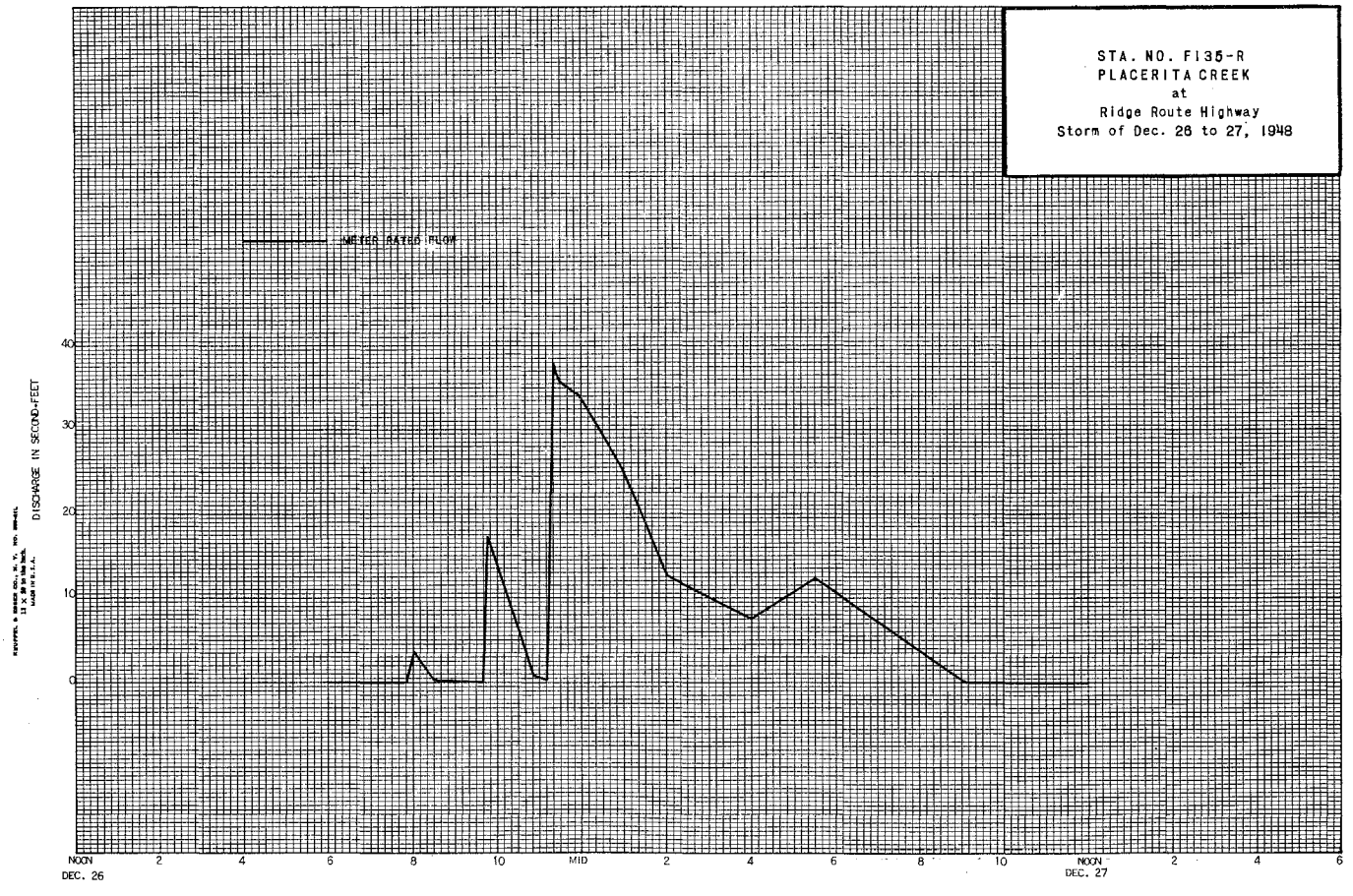
Daily discharge, in second-feet of Placerita Creek at Ridge Route Highway, for the year ending September 30, 19 49

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	a 0.3	0.1	0	0
2	0	0	0	0	0	0	0	0	0.3	0.1	0	0
3	0	0	0	0	0	3.1	0	0	0.3	0.1	0	0
4	0	0	0	0	0	3.2	0	0	0.3	0.2	0	0
5	0	0	0	0	0	0.4	0	0	0.4	0.1	0	0
6	0	0	0	0	0	0	0	0	0.4	0.2	0	0
7	0	0	0	0	0	0	0	0	0.4	+	0	0
8	0	0	0	0	0	0	0	0	a 0.4	+	0	0
9	0	0	0	0	0	0	0	0	0.4	0.1	0	0
10	0	0	0	0	0	+	0	0	0.5	0.1	0	0
11	0	0	0	0	0	5.3	0	0	0.6	0.5	0	0
12	0	0	0	0	0	0	0	0	0.2	0.3	0	0
13	0	0	0	0	0	0	0	0	0.1	0.4	0	0
14	0	0	0	0	0	0	0	0	0.1	0.2	0	0
15	0	0	0	0	0	0	0	0	0.1	+	0	0
16	0	0	0.2	0	0	0	+	0	+	0.1	0	0
17	0	0	1.6	0	0	0	+	0	0.1	+	0	0
18	0	0	0	0	0	0	+	0	+	0.2	0	0
19	0	0	0	1.1	0	0	0	0	b +	0.2	0	0
20	0	0	0	8.6	0	0	0	0	+	+	0	0
21	0	0	0	0	0	0	0	0	0.1	+	0	0
22	0	0	0	6.4	0	0	0	0	b 0.1	0	0	0
23	0	0	0	1.0	0	0	0	0	0.1	+	0	0
24	0	0	0	0	+	0	0	0	0.1	0	0	0
25	0	0	0	0	+	0	0	0	+	0	0	0
26	0	0	1.6	0	1.7	+	0	0	+	+	0	0
27	0	0	4.3	0	0.2	0	0	0	0.1	0	0	0
28	0	0	0	0	0	0	0	0	0.1	+	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	+		0	0	0	+	0	0	0
31	0		0	0		+		0		0	0	
	0	0	7.7	17.1	1.9	12.0		0	5.5	2.9	0	0
MEAN	0	0	0.25	0.55	0.07	0.39	+	0	0.18	0.09	0	0
ACRE-FEET	0	0	15.	34.	3.8	24.	+	0	11.	5.8	0	0

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

YEAR OR PERIOD MEAN 0.13
ACRE-FEET 94.


STA. NO. F135-R
PLACERITA CREEK
at
Ridge Route Highway
Storm of Mar. 24, 1948
CALCULATED FLOW
METER RATED FLOW
DISCHARGE IN SECOND-FEET
90
80
70
60
50
40
30
20
10
0
MID
2
4
6
8
10
NOON
2
4
6
8
10
MID
MAR. 24


STA. NO. F135-R
PLACERITA CREEK
at
Ridge Route Highway
Storm of Dec. 26 to 27, 1948
METER RATED FLOW
DISCHARGE IN SECOND-FEET
40
30
20
10
0
NOON
DEC. 26
2
4
6
8
10
MID
2
4
6
8
10
NOON
DEC. 27
2
4
6

STATION F40-R
PUDDINGSTONE CREEK below Puddingstone Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°05'35", LONG. 117°48'38", ON THE RIGHT (EAST) BANK ABOUT 1000 FEET BELOW PUDDINGSTONE DAM NEAR SAN DIMAS. ELEVATION OF ZERO GAGE HEIGHT, 1624.45 FEET.

DRAINAGE AREA: 32.2 SQUARE MILES, INCLUDING AREAS CONTROLLED BY SEVERAL DAMS IN THE MOUNTAIN TRIBUTARIES.

CHANNEL AND CONTROL: CHANNEL - SAND, GRAVEL AND PUDDINGSTONE. CONTROL - REINFORCED CONCRETE CIPOLLETTI WEIR WITH A 25-FOOT CREST AND 3-FOOT DEPTH, AND A CIPOLLETTI WEIR NOTCH IN CENTER WITH A 24-INCH CREST AND 18-INCH DEPTH.

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, 1947 TO SEPTEMBER 30, 1949.

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. SAN DIMAS WATER COMPANY DIVERTS OUTFLOW FROM DAM ABOVE THE STATION. INFLOW PARTIALLY REGULATED BY LIVE OAK DAM.

RECORDS AVAILABLE: DECEMBER 28, 1927 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:

1947-1948
MAXIMUM 7.3 SECOND-FEET, JULY 13.
MINIMUM LESS THAN 0.05 SECOND-FOOT AT VARIOUS TIMES.

1948-1949
MAXIMUM 2.5 SECOND-FEET, JULY 22.
MINIMUM LESS THAN 0.05 SECOND-FOOT AT VARIOUS TIMES.

1929-1949
MAXIMUM 287 SECOND-FEET, MARCH 4, 1943.
MINIMUM LESS THAN 0.05 SECOND-FOOT AT VARIOUS TIMES.

ACCURACY: GOOD.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

DISCHARGE MEASUREMENTS OF PUDDINGSTONE CREEK

AT ~~NEAR~~ below Puddingstone Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	D. MT. CHANGE TOTAL	METER NO.
536	10-1	0813 / 0818	BREWSTER	0.50	0.16	1.50	0.13	0.24		.6	1	0	FC12
537	10-8	0821 / 0826	"	0.50	0.12	0.67	0.05	0.08		.6	1	0	"
538	10-15	0825 / 0830	"	1.0	0.27	0.85	0.14	0.23		.6	2	0	"
539	10-22	0805 / 0810	"	1.5	0.40	0.75	0.14	0.30		.6	3	0	"
540	10-29	0800 / 0805	"	1.0	0.23	0.61	0.08	0.14		.6	2	0	"
541	11-5	0810 / 0815	"	0.50	0.11	1.00	0.06	0.11		.6	1	0	"
542	11-12	0800 / 0806	"	0.50	0.12	1.50	0.10	0.18		.6	1	0	"
543	11-19	0815 / 0820	"	1.0	0.28	0.86	0.12	0.24		.6	2	0	"
544	12-4	1105 / 1110	"	0.50	0.12	0.67	0.05	0.08		.6	1	0	"
545	12-10	0925 / 0930	"	0.50	0.10	0.70	0.05	0.07		.6	1	0	"
546	12-17	0610 / 0615	"	0.50	0.10	0.50	0.04	0.05		.6	1	0	"
547	12-26	0925 / 0930	"	0.50	0.10	0.40	0.03	0.04		.6	1	0	"
548	1-2	0920 / 0925	"	0.50	0.10	0.30	0.03	0.03		.6	1	0	"
549	1-8	0625 / 0630	"	0.50	0.10	0.30	0.02	0.03		.6	1	0	"
550	1-15	1000 / 1003	"	0.50	0.13	0.15	0.02	0.02		FLOAT	1	0	
551	1-22	0826 / 0830	"	0.50	0.11	0.27	0.03	0.03		.6	1	0	FC12
552	1-29	0835 / 0840	"	0.50	0.11	0.27	0.03	0.03		.6	1	0	"
553	2-5	0840 / 0845	"	0.50	0.26	0.50	0.06	0.13		.6	1	0	"
554	2-11	0850 / 0855	"	0.50	0.11	0.27	0.03	0.03		.6	1	0	"
555	2-19	0850 / 0855	"	0.50	0.06	0.50	0.03	0.03		FLOAT	1	0	
556	2-25	0850 / 0855	STUNDEN-BREWSTER	0.50	0.15	0.20	0.03	0.03		.6	1	0	FC36
557	3-4	1015 / 1018	STUNDEN	0.50	0.12	0.17	0.04	0.02		.5	1	0	"
558	3-11	1100 / 1103	"	0.50	0.15	0.13	0.02	0.02		FLOATS	1	0	
559	3-18	1035 / 1038	"	0.50	0.14	0.21	0.02	0.03		FLOATS	1	0	
560	3-25	1445 / 1448	"	0.50	0.18	0.33	0.03	0.06		"	1	0	
561	3-31	0940 / 0945	"	0.50	0.11	0.27	0.02	0.03		"	1	0	
562	4-8	1020 / 1025	"	0.50	0.16	0.25	0.02	0.04		"	1	0	
563	4-13	1010 / 1012	"	0.50	0.18	0.22	0.02	0.04		"	1	0	
564	4-22	1000 / 1005	"	0.50	0.15	0.13	0.01	0.02		"	1	0	
565	4-28	1330 / 1335	"	0.50	0.15	0.13	0.01	0.02		"	1	0	
566	5-5	1110 / 1112	"	0.50	0.18	0.11	0.01	0.02		"	1	0	
567	5-13	1530 / 1535	"	0.50	0.15	0.13	0.01	0.02		"	1	0	
568	5-20	0735 / 0738	"	0.50	0.17	0.11	0.02	0.02		"	1	0	
569	5-27	1120 / 1125	"	0.50	0.15	0.13	0.01	0.02		"	1	0	
570	6-10	1450 / 1455	"	0.35	0.04	0.25	0.01	0.01		"	1	0	
571	6-17	1352 / 1357	"	4.5	3.85	0.78	0.60	3.0		.6	5	0	FC36
572	6-23	0915 / 0917	"	0.50	0.10	0.20	0.02	0.02		FLOATS	1	0	
573	7-1	1428 / 1430	"	0.50	0.05	0.20	0.01	0.01		FLOATS	1	0	
574	8-4	1425 / 1430	"	2.0	0.89	0.73	0.21	0.65		.5	4	0	FC36
575	9-22	1145 / 1147	"	0.40	0.02	0.50	.005	0.01		FLOAT	1	0	
576	9-30	0920 / 0922	"	0.50	0.05	0.40	0.01	0.02		"	1	0	

DISCHARGE MEASUREMENTS OF PUDDINGSTONE CREEK

~~AT~~ NEAR below Puddingstone Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
577	10-7	0920 / 0922	STUNDEN	0.40	0.04	0.50	0.01	0.02		FLOATS	1	0	
578	10-14	0925 / 0930	"	0.40	0.05	0.40	0.01	0.02		"	1	0	
579	10-21	0950 / 0955	"	0.50	0.10	0.20	0.01	0.02		"	1	0	
580	10-28	1000 / 1002	"	0.50	0.11	0.18	0.02	0.02		"	1	0	
581	11/4	0915 / 0918	"	0.50	0.10	0.20	0.03	0.02		"	1	0	
582	11-12	0915 / 0918	"	0.50	0.10	0.20	0.01	0.02		"	1	0	
583	11-19	0905 / 0908	"	0.50	0.12	0.25	0.02	0.03		"	1	0	
584	11-26	1537 / 1540	"	0.50	0.13	0.23	0.02	0.03		"	1	0	
585	12-2	1445 / 1448	"	0.50	0.13	0.23	0.02	0.03		"	1	0	
586	12-7	1110 / 1113	"	0.50	0.11	0.45	0.03	0.05	.5	1	0	FC36	
587	12-16	1400 / 1403	"	0.50	0.11	0.27	0.03	0.03	.5	1	0	"	
588	12-23	1000 / 1003	"	0.50	0.12	0.25	0.02	0.03	FLOATS	1	0	"	
589	12-30	1007 / 1010	"	0.50	0.13	0.23	0.02	0.03	FLOATS	1	0		
590	1-6	1000 / 1003	"	0.50	0.13	0.23	0.04	0.03	"	1	0		
591	1-19	1015 / 1017	"	0.50	0.15	0.20	0.04	0.03	"	1	0		
592	1-27	1416 / 1420	"	0.50	0.15	0.33	0.03	0.05	"	1*	0		
593	2-3	0938 / 0942	"	0.50	0.16	0.63	0.04	0.10	.5	1	0	FC36	
594	2-10	0940 / 0943	"	0.40	0.13	0.54	0.04	0.07	FLOATS	1	0		
595	2-17	0940 / 0943	"	0.40	0.14	0.57	0.04	0.08	"	1	0		
596	2-23	1525 / 1529	"	0.40	0.12	0.42	0.04	0.05	.5	1	0	FC36	
597	3-4	0855 / 0858	"	0.50	0.15	0.80	0.05	0.12	.5	1	0	"	
598	3-9	1240 / 1243	"	0.50	0.15	0.67	0.05	0.10	.5	1	0	"	
599	3-16	1027 / 1030	"	0.40	0.12	0.42	0.04	0.05	.5	1	0	"	
600	3-24	1032 / 1035	"	0.50	0.15	0.40	0.04	0.06		.5	1	0	"
601	3-31	0940 / 0942	"	0.50	0.15	0.33	0.04	0.05		.5	1	0	"
602	4-7	1030 / 1033	"	0.50	0.15	0.33	0.04	0.05		.5	1	0	"
603	4-13	0915 / 0918	"	0.50	0.18	0.28	0.04	0.05		.5	1	0	"
604	4-21	1500 / 1503	"	0.50	0.17	0.18	0.02	0.03		.5	1	0	"
605	4-28	1115 / 1118	"	0.50	0.15	0.20	0.04	0.03		.5	1	0	"
606	5-5	1430 / 1433	"	0.50	0.16	0.19	0.03	0.03		FLOATS	1	0	
607	5-12	1520 / 1523	"	0.50	0.15	0.20	0.06	0.03		.5	1	0	FC36
608	5-19	1550 / 1553	"	0.50	0.16	0.44	0.05	0.08		FLOATS	1	0	
609	5-25	1055 / 1058	"	0.50	0.12	0.25	0.03	0.03		FLOATS	1	0	
610	6-1	1625 / 1627	"	0.50	0.12	0.17	0.01	0.02		FLOATS	1	0	
611	6-9	0935 / 0938	"	0.50	0.12	0.25	0.02	0.03		FLOATS	1	0	
612	6-16	1040 / 1042	STUNDEN - TURNER	0.50	0.10	0.40	0.02	0.04		.5	1	0	FC36
613	6-23	0850 / 0853	STUNDEN	0.50	0.10	0.30	0.02	0.03		.5	1	0	"
614	6-29	1400 / 1403	"	0.50	0.12	0.25	0.02	0.03		FLOATS	1	0	
615	7-7	0910 / 0913	"	0.50	0.09	0.33	0.02	0.03		.5	1	0	FC36
616	7-14	1142 / 1144	"	0.50	0.06	0.12	0.01	0.01		.5	1	0	"
617	7-22	1121 / 1126	"	2.0	1.03	1.26	0.38	1.3		.5 / .6	4	0	"
618	7-27	1135 / 1140	"	1.3	0.36	0.47	0.08	0.17		.5	3	0	"
619	8-4	0756 / 0800	"	1.5	0.71	1.34	0.25	0.95		.5	3	0	"
620	8-11	1010 / 1013	"	0.70	0.14	1.07	0.06	0.15		.5	1	0	"
621	9-7	1230 / 1233	"	0.60	0.09	1.11	0.10	0.10		.5	1	0	"
622	9-15	1235 / 1238	"	0.60	0.21	1.24	0.13	0.26		.5	1	0	"
623	9-22	1435 / 1438	"	0.50	0.05	0.40	0.02	0.02		FLOATS	1	0	"
624	9-30	1415 / 1418	"	0.60	0.12	0.25	0.02	0.03		"	1	0	"

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F40-R

Daily discharge, in second-feet of PUDDINGSTONE CREEK below Puddingstone Dam for the year ending September 30, 19 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.2	0.2	0.03	0.03	0.03	0.03	0.02	0.04	0.02	0.02	0.02
2	0.2	0.1	0.1	0.03	0.03	0.02	0.03	0.02	0.04	0.03	0.02	0.02
3	0.1	0.1	0.1	0.03	0.03	0.02	0.06	0.02	0.04	0.02	0.02	0.1
4	0.1	0.1	0.1	0.03	0.03	0.02	0.06	0.02	0.04	0.03	0.2	0.08
5	0.2	0.1	0.2	0.03	0.3	0.02	0.04	0.02	0.03	0.02	0.05	0.02
6	0.2	0.1	0.1	0.03	0.08	0.02	0.04	0.02	0.03	0.02	0.01	0.03
7	0.2	0.2	0.1	0.03	0.06	0.02	0.04	0.02	0.02	0.02	0.01	0.03
8	0.2	0.2	0.1	0.03	0.04	0.02	0.04	0.02	0.03	0.02	0.1	0.03
9	0.2	0.2	0.1	0.03	0.04	0.02	0.03	0.02	0.02	0.02	0.05	0.02
10	0.2	0.2	0.1	0.03	0.04	0.02	0.04	0.02	0.02	0.02	0.02	0.02
11	0.2	0.2	0.1	0.03	0.03	0.02	0.04	0.02	0.02	0.02	0.01	0.02
12	0.2	0.2	0.04	0.03	0.03	0.06	0.04	0.04	0.02	0.02	0.04	0.02
13	0.2	0.2	0.04	0.03	0.03	0.06	0.04	0.02	0.02	0.4	0.06	0.04
14	0.2	0.2	0.04	0.03	0.03	0.06	0.03	0.03	0.02	0.02	0.06	0.04
15	0.2	0.2	0.1	0.03	0.03	0.06	0.03	0.02	0.02	0.02	0.06	0.03
16	0.2	0.2	0.1	0.03	0.03	0.04	0.03	0.02	0.3	0.02	0.1	0.03
17	0.2	0.2	0.04	0.03	0.03	0.03	0.03	0.02	0.6	0.02	0.03	0.02
18	0.2	0.2	0.04	0.03	0.03	0.03	0.02	0.02	0.1	0.02	0.02	0.02
19	0.1	0.2	0.04	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02
20	0.2	0.2	0.04	0.03	0.03	0.04	0.02	0.02	0.02	0.02	0.02	0.02
21	0.2	0.2	0.1	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.06	0.02
22	0.2	0.2	0.1	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.26	0.01
23	0.2	0.2	0.1	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.06	0.03
24	0.2	0.2	0.1	0.03	0.03	0.1	0.02	0.02	0.02	0.02	0.7	0.06
25	0.2	0.2	0.1	0.03	0.03	0.06	0.02	0.02	0.02	0.02	0.03	0.08
26	0.2	0.2	0.04	0.03	0.03	0.04	0.02	0.02	0.02	0.02	0.02	0.04
27	0.2	0.1	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.04
28	0.2	0.2	0.04	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.04	0.1
29	0.1	0.2	0.04	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.1	0.2
30	0.1	0.2	0.03	0.03		0.03	0.02	0.03	0.02	0.02	0.02	0.04
31	0.1		0.03	0.03		0.03		0.03		0.02	0.02	
	5.7	5.4	2.49	0.93	1.25	1.06	0.92	0.68	1.65	1.02	2.25	1.25
MEAN	0.18	0.18	0.08	0.03	0.04	0.03	.031	.022	0.06	0.03	0.07	0.05
ACRE-FEET	11.	11.	4.9	1.8	2.5	2.1	1.8	1.3	3.3	2.0	4.5	2.5

Remarks:

YEAR OR PERIOD MEAN 0.07
ACRE-FEET 49.

F. C. Dist. Form 32 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F40-R

Daily discharge, in second-feet of PUDDINGSTONE CREEK below Puddingstone Dam, for the year ending September 30, 19 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.02	0.03	0.04	0.06	0.2	0.06	0.04	0.03	0.03	0.04	0.02
2	0.02	0.02	0.03	0.04	0.08	0.1	0.06	0.04	0.03	0.03	0.1	0.03
3	0.02	0.03	0.03	0.04	0.1	0.1	0.06	0.04	0.02	0.03	0.08	0.08
4		0.02	0.04	0.03	0.1	0.2	0.04	0.06	0.02	0.03	0.3	0.02
5	0.03	0.02	0.04	0.04	0.08	0.2	0.04	0.04	0.02	0.03	0.1	0.06
6	0.02	0.02	0.04	0.03	0.06	0.1	0.04	0.06	0.02	0.03	0.09	0.03
7	0.02	0.02	0.03	0.03	0.1	0.1	0.04	0.04	0.02	0.03	0.04	0.03
8	0.02	0.02	0.03	0.03	0.06	0.1	0.04	0.04	0.03	0.04	0.06	0.02
9	0.02	0.02	0.03	0.03	0.06	0.1	0.04	0.04	0.03	0.04	0.2	0.03
10	0.02	0.02	0.03	0.03	0.06	0.1	0.03	0.04	0.02	0.06	0.2	0.03
11	0.03	0.02	0.04	0.04	0.2	0.3	0.03	0.04	0.02	0.04	0.1	0.1
12	0.04	0.02	0.04	0.04	0.08	0.1	0.03	0.06	0.02	0.04	0.08	0.2
13	0.1	0.02	0.04	0.04	0.08	0.1	0.04	0.08	0.02	0.04	0.1	0.3
14	0.02	0.02	0.04	0.04	0.06	0.08	0.04	0.08	0.04	0.04	0.08	0.5
15	0.03	0.02	0.04	0.04	0.1	0.06	0.06	0.08	0.04	0.03	0.04	0.3
16	0.02	0.03	0.03	0.04	0.1	0.06	0.06	0.08	0.04	0.03	0.02	0.1
17	0.02	0.03	0.3	0.04	0.08	0.06	0.04	0.08	0.04	0.02	0.02	0.06
18	0.02	0.03	0.02	0.03	0.08	0.06	0.06	0.08	0.04	0.02	0.03	0.04
19	0.02	0.03	0.02	0.08	0.08	0.08	0.08	0.08	0.03	0.1	0.04	0.03
20	0.02	0.03	0.03	0.9	0.06	0.06	0.06	0.08	0.03	0.04	0.03	0.03
21	0.02	0.03	0.03	0.1	0.06	0.06	0.04	0.04	0.03	0.3	0.03	0.02
22	+	0.03	0.04	0.2	0.06	0.06	0.04	0.04	0.03	0.5	0.02	0.02
23	+	0.03	0.04	0.2	0.06	0.06	0.06	0.02	0.03	0.02	0.02	0.02
24	+	0.03	0.04	0.2	0.08	0.06	0.04	0.02	0.03	0.03	0.02	0.02
25	+	0.03	0.06	0.1	0.1	0.06	0.06	0.03	0.03	0.03	0.02	0.04
26	+	0.03	0.06	0.06	0.3	0.06	0.06	0.03	0.03	0.04	0.02	0.03
27	0.02	0.04	0.2	0.06	0.3	0.06	0.04	0.03	0.03	0.2	0.03	0.03
28	0.04	0.04	0.08	0.06	0.4	0.06	0.03	0.03	0.03	0.3	0.03	0.03
29	0.1	0.03	0.06	0.04		0.06	0.04	0.03	0.03	0.2	0.08	0.03
30	0.03	0.03	0.04	0.04		0.06	0.03	0.02	0.03	0.2	0.2	0.03
31	0.03		0.03	0.06		0.06		0.02		0.06	0.02	
	0.83	0.76	1.61	2.75	3.06	2.92	1.39	1.49	0.86	2.63	2.24	2.28
MEAN	.027	.026	.052	.089	0.11	.094	.046	.048	.029	.085	.072	.076
ACRE-FEET	1.6	1.5	3.2	5.5	6.1	5.8	2.8	3.0	1.7	5.2	4.4	4.5

Remarks: + = less than 0.02 c.f.s.

YEAR OR PERIOD MEAN .063
ACRE-FEET 45.

STATION F280-R
RIO HONDO DIVERSION below Santa Fe Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°06'46", LONG. 117°56'16", ON THE LEFT (SOUTH) BANK OF THE DIVERSION CANAL, 400 FEET DOWNSTREAM FROM THE STILLING BASIN OUTLET AT SANTA FE DAM AND 1.5 MILES NORTH OF BALDWIN PARK. ELEVATION OF ZERO GAGE HEIGHT, 401.94 FEET.

DRAINAGE AREA: 231 SQUARE MILES. 202 SQUARE MILES ARE CONTROLLED BY SAN GABRIEL DAMS NO. 1 AND NO. 2.

CHANNEL AND CONTROL: CHANNEL - SAND AND GRAVEL. CONTROL - CONCRETE APRON 3 FEET WIDE 10 FEET BELOW STATION.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM FOOTBRIDGE AT CONTROL.

RECORDER: INSTALLED MAY 12, 1944 OVER A 16-INCH DIAMETER IRON PIPE STILLING WELL. A STEVENS TYPE L RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: FLOW REGULATED BY 5 GATED OPENINGS FROM THE STILLING BASIN OUTLET OF SANTA FE DAM TO THE RIO HONDO DIVERSION CANAL.

RECORDS AVAILABLE: OCTOBER 1, 1942 TO MAY 12, 1944, FLOW DETERMINED BY GATE OPENINGS AND MEASUREMENTS. RECORDER RECORDS FROM MAY 12, 1944 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:
1947-1948
MAXIMUM 800 SECOND-FEET, JUNE 4.
MINIMUM NO FLOW MOST OF YEAR.
1948-1949
NO FLOW ENTIRE YEAR.
1943-1949
MAXIMUM 800 SECOND-FEET, JUNE 4, 1948
MINIMUM NO FLOW MOST OF YEAR.

ACCURACY: GOOD.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY, AND THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

DISCHARGE MEASUREMENTS OF RIO HONDO DIVERSION

AT ~~NEAR~~ Below Santa Fe Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
48	6-3	0150 0212	BLAKELY	41.0	154.	4.66	6.23	717.		.6	11	.02	FC35
49	6-3	0907 0626	BLAKELY - SILL	40.0	151.	4.66	6.19	704.		.6	11	0	"
50	6-3	1048 1107	" "	41.0	159.	4.70	6.38	747.		.6	12	0	"
51	6-4	1128 1141	" "	41.5	159.	4.89	6.33	778.		.6	12	0	"
52	6-4	1144 1209	" "	41.5	159.	5.04	6.34	801.		.2 .8	12	0	"
53	6-5	1135 1150	MOON - STUNDEN	32.5	85.3	3.85	4.46	328.		.6	11	0	FC22
54	6-5	1338 1435	STUNDEN - MOON	39.5	150.	4.85	6.09	728.		.2 .8	13	0	"
55	6-7	1101 1152	BLAKELY - SILL	41.0	160.	4.96	6.24	794.		.2 .8	12	0	FC35
56	6-8	0834 0840	MOON - STUNDEN	23.5	26.5	1.94	2.49	51.5		.6	8	-.02	FC36
57	6-8	0956 1000	" "	21.5	17.8	1.38	2.09	24.6		.6	9	-.01	"
58	6-8	1400 1404	" "	6.0	1.45	1.66	1.60	2.4		.5	4	-.01	"

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

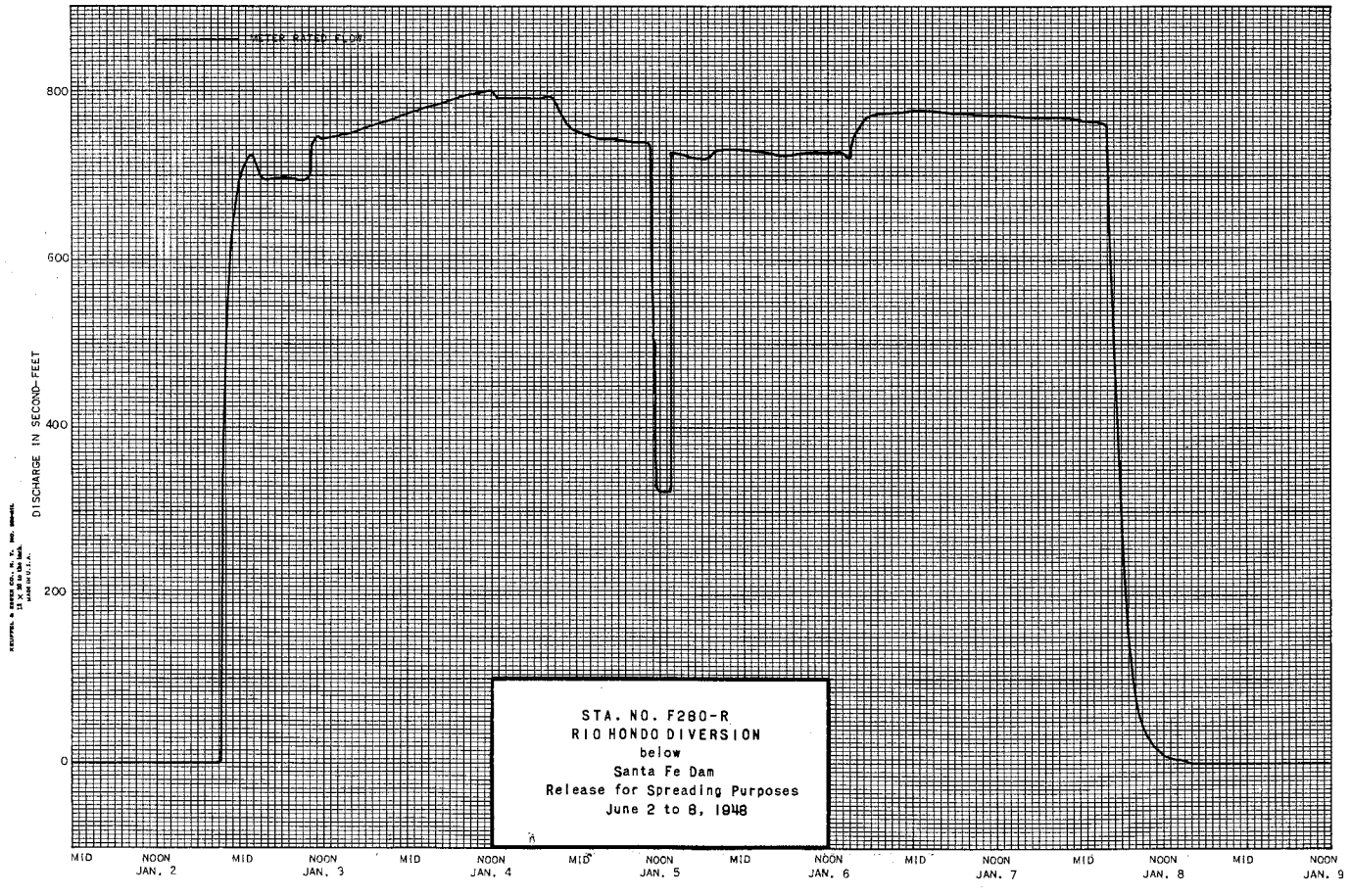
Sta. No. F280-R

Daily discharge, in second-feet of RIO HONDO DIVERSION below Santa Fe Dam, for the year ending September 30, 19 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	60	0	0	0
3	0	0	0	0	0	0	0	0	733	0	0	0
4	0	0	0	0	0	0	0	0	786	0	0	0
5	0	0	0	0	0	0	0	0	692	0	0	0
6	0	0	0	0	0	0	0	0	742	0	0	0
7	0	0	0	0	0	0	0	0	771	0	0	0
8	0	0	0	0	0	0	0	0	191	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	0	0	0	0	0	0	3975	0	0	0
MEAN	0	0	0	0	0	0	0	0	133.	0	0	0
ACRE-FEET	0	0	0	0	0	0	0	0	7880.	0	0	0

Remarks:

YEAR OR PERIOD MEAN 10.9
ACRE-FEET 7880.



STATION F192-R
RIO HONDO at Lower Azusa Road

LOCATION: WATER-STAGE RECORDER, LAT. 34°05'33", LONG. 118°01'52", ON THE DOWNSTREAM SIDE OF THE LOWER AZUSA ROAD BRIDGE, ABOUT 1.5 MILES NORTH OF EL MONTE. ELEVATION OF ZERO GAGE HEIGHT, 287.37 FEET.

DRAINAGE AREA: 40.9 SQUARE MILES. (EXCLUDES DRAINAGE ABOVE SANTA FE DAM).

CHANNEL AND CONTROL: CHANNEL - CLAY, SAND AND GRAVEL. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM CABLE CAR 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, 1947 TO SEPTEMBER 30, 1949.

REGULATION: FLOW PARTIALLY REGULATED BY SIERRA MADRE DAM, BIG SANTA ANITA DAM, SAWPIT DAM. ALSO SPILLWAY AND DIVERSION AT SANTA FE DAM.

DIVERSIONS: THE CITY OF MONROVIA DIVERTS WATER FROM MONROVIA CREEK AND SAWPIT CREEK. THE CITY OF SIERRA MADRE DIVERTS WATER FROM LITTLE SANTA ANITA CANYON. FLOW FROM SAN GABRIEL RIVER BELOW SANTA FE DAM IS OCCASIONALLY DIVERTED TO RIO HONDO. THERE ARE ALSO SEVERAL DIVERSIONS FOR IRRIGATION AND SPREADING GROUNDS.

RECORDS AVAILABLE:
FEBRUARY 22, 1932 TO MARCH 29, 1932 - STREAM MEASUREMENTS ONLY.
RECORDER RECORDS FROM MARCH 29, 1932 TO SEPTEMBER 30, 1949. (FOR RECORDS PRIOR TO MARCH 29, 1932, SEE STATE DIVISION OF WATER RIGHTS BULLETIN).

EXTREMES OF DISCHARGE:
1947-1948
MAXIMUM 584 SECOND-FEET, JUNE 7.
MINIMUM NO FLOW MOST OF YEAR.
1948-1949
MAXIMUM 50 SECOND-FEET, FEBRUARY 27.
MINIMUM NO FLOW FOR MOST OF YEAR.
1932-1949
MAXIMUM 31,000 SECOND-FEET, ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW MOST OF YEAR FOR SEVERAL YEARS.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

DISCHARGE MEASUREMENTS OF RIO HONDO

AT ~~NEAR~~ Lower Azusa Road DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
		1530											
641	2-5	1544	WADDICOR - PAYNE	TWO CHANNELS				7.6		.6	8	-.01	FC37
		1620											
642	3-24	1630	" "	15.2	6.24	0.83	2.92	5.2		.6	8	- 05	"
		1445											
643	6-3	1500	MOON - STUNDEN	101.0	114.	3.19	4.73	364.		.6	15	.01	FC22
		1552											
644	6-4	1618	BLAKELY - SILL	92.0	135.	3.89	4.85	525.		.6	26	0	FC35
		1650											
645	6-7	1715	" "	86.0	119.	4.78	4.20	569.		.6	16	0	"
		1105											
646	6-8	1110	MOON - STUNDEN	6.5	2.03	1.13	0.85	2.3		.6	5	0	FC36

DISCHARGE MEASUREMENTS OF RIO HONDO

AT ~~NEAR~~ Lower Azusa Road DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
		2055											
647	1-19	2105	WADDICOR - PAYNE	9.0	4.41	1.93	2.66	8.5		.6	5	+.01	FC37
		1112											
648	1-20	1122	" "	5.0	2.00	1.00	2.58	2.0		.6	5	-.03	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F192-R

Daily discharge, in second-feet of RIO HONDO at Lower Azusa Road, for the year ending September 30, 19 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	3.6	0	289	0	0	0
4	0	0	0	0	0	0	0	0	512	0	0	0
5	0	0	0.2	1.4	0	0	0	0	519	0	0	0
6	0	0	0	0	0	0	2.4	0	553	0	0	0
7	0	0	0	0	0	0	0	0	570	0	0	0
8	0	0	0	0	0	0	0	0	178	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	3.0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	2.2	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0.7	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	7.9	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	4.4	0	0	0	0	0
29	0	0	0	0	0	0	1.2	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	0.2	1.4	0	10.8	14.6	0	2621	0	0	0
MEAN	0	0	.006	.045	0	0.35	0.49	0	87.4	0	0	0
ACRE-FEET	0	0	0.4	2.8	0	21.	29.	0	5200.	0	0	0

Remarks:

YEAR OR PERIOD MEAN 7.23
ACRE-FEET 5250.

F. C. Dist. Form 53 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

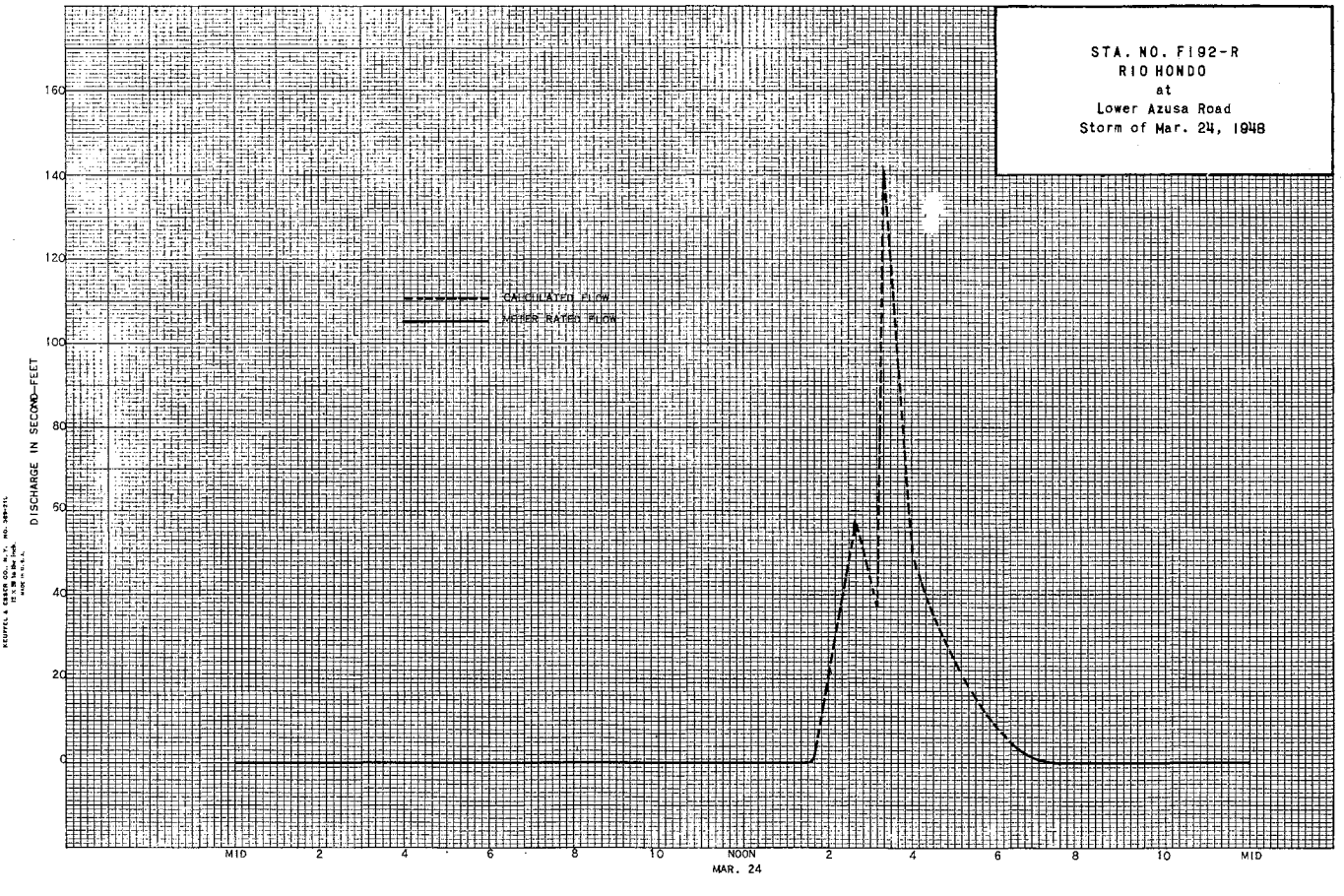
Sta. No. F192-R

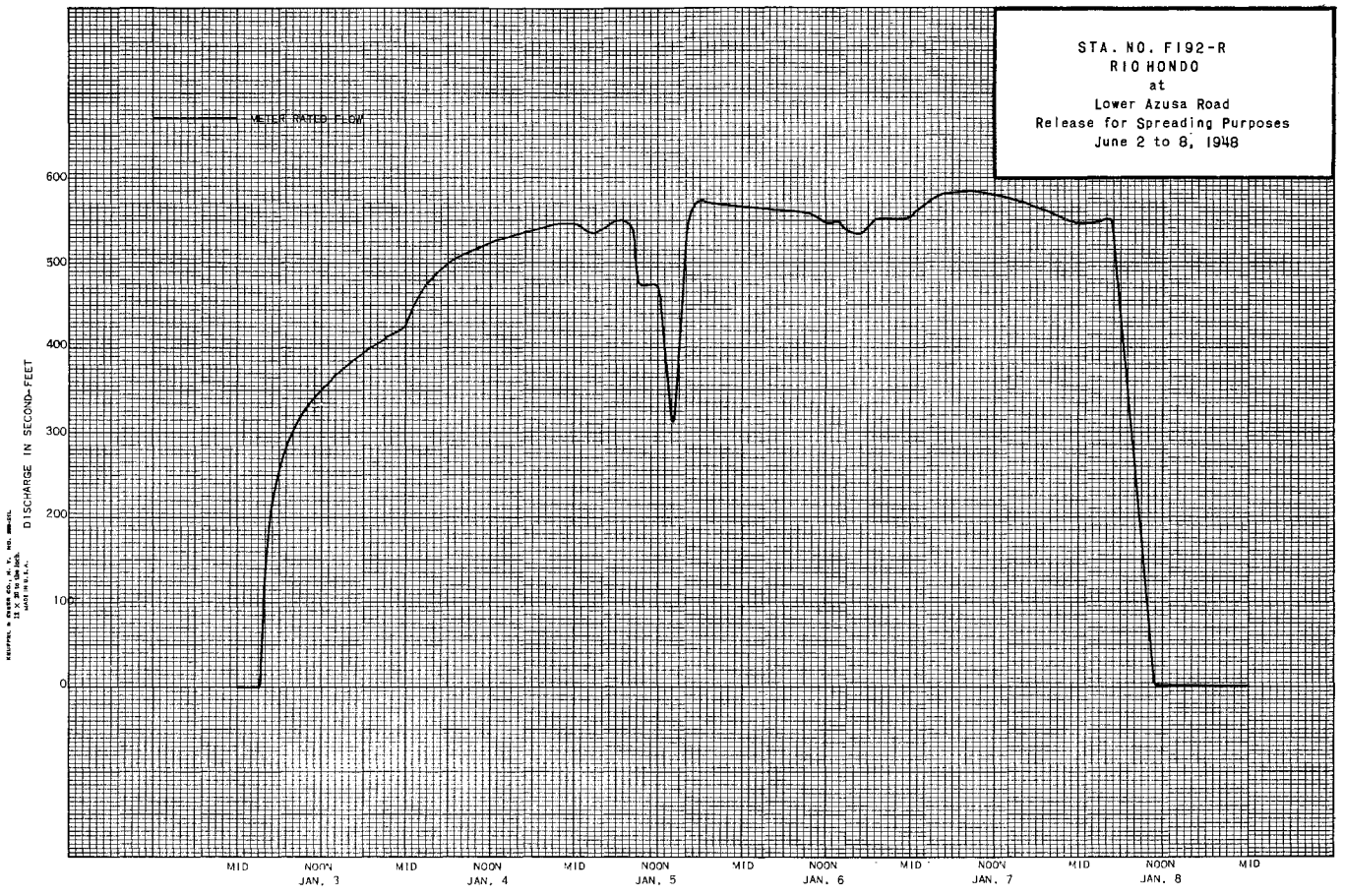
Daily discharge, in second-feet of Rio Hondo at Lower Azusa Road, for the year ending September 30, 19 49

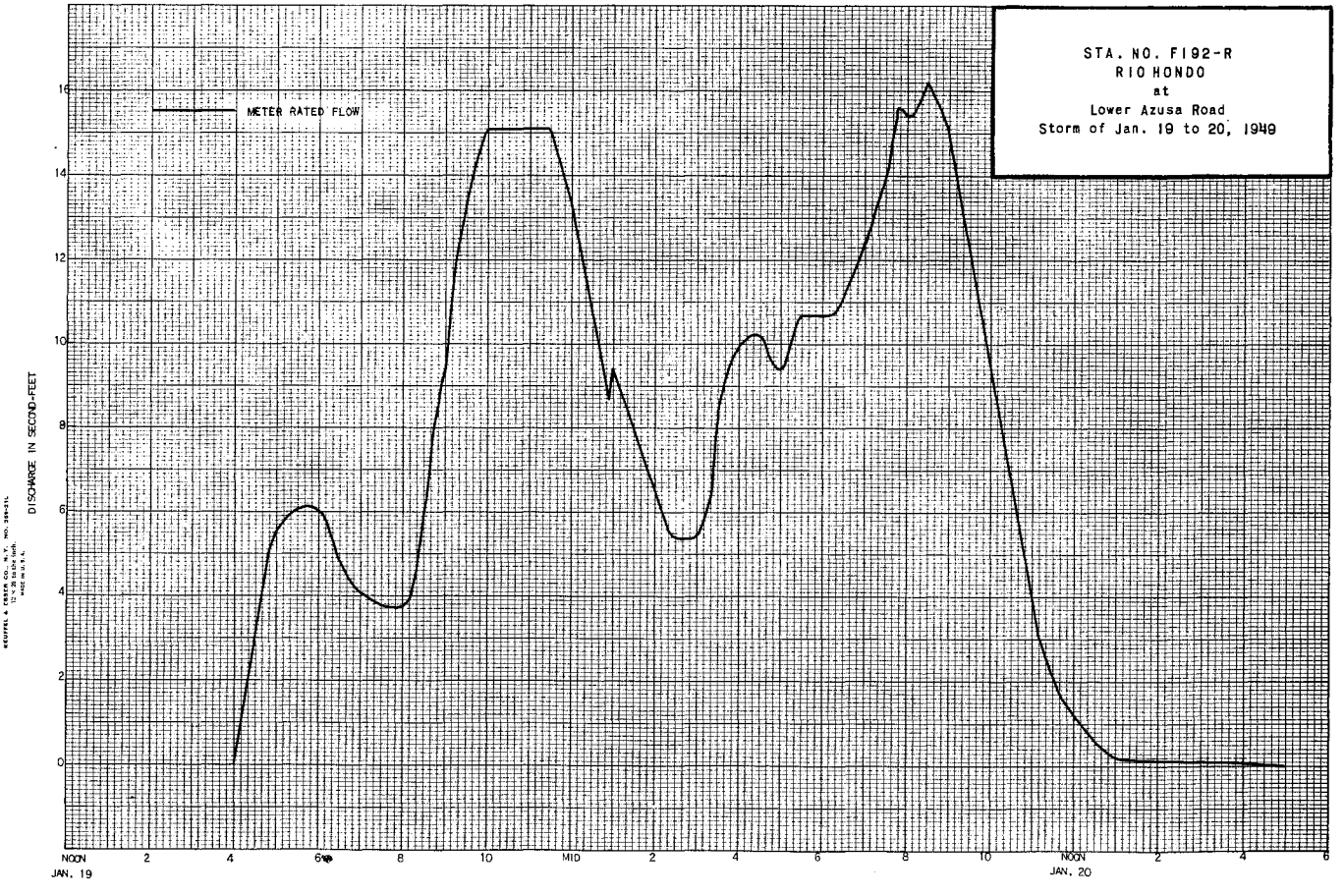
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0.3	0	0	0	0	0	0	0
4	0	0	0	0	0	3.3	0	0	0	0	0	0
5	0	0	0	0	0	0.2	0	0	0	0	0	0
6	0	0	0	0	0	0.8	0	0	0	0	0	0
7	0	0	0	0	1.3	1.8	0	0	0	0	0	0
8	0	0	0	0	0	0.2	0	0	0	0	0	0
9	0	0	0	+	0	0.7	0	0	0	0	0	0
10	0	0	0	0	0	0.6	0	0	0	0	0	0
11	0	0	0	0.6	1.0	3.9	0	0	0	0	0	0
12	0	0	0	0.5	0	0	0	0	0	0	0	0
13	0	0	0	0.7	0	0	0	0	0	0	0	0
14	0	0	0	0.1	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	2.6	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0.1	0	+	0	0	0	0
19	0	0	0	2.8	0	+	0	+	0	0	0	0
20	0	0	0	4.9	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0.1	1.0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0.3	0	0	0	0	0	0	0
25	0	0	0	0	+	+	0	0	0	0	0	0
26	0	0	1.1	0	1.6	0.1	0	0	0	0	0	0
27	0	0	0.7	0	4.3	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		+		0		0	0	
	0	0	4.5	10.6	8.8	11.9	0		0	0	0	0
MEAN	0	0	0.15	0.34	0.31	0.38	0	0	0	0	0	0
ACRE-FEET	0	0	8.9	21.	17.	24.	0	0	0	0	0	0

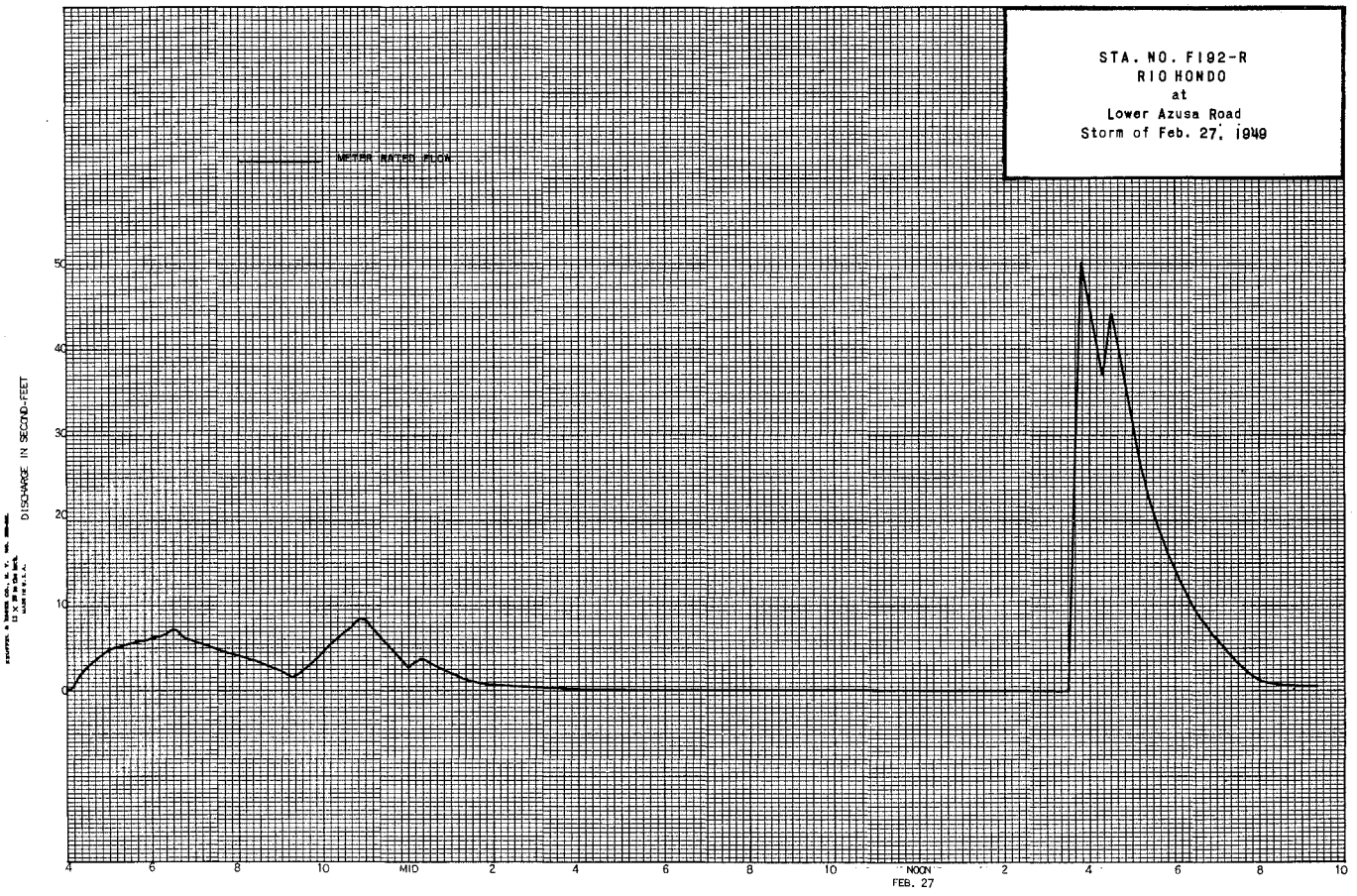
Remarks: + = 0.05 c.f.s. or less.

YEAR OR PERIOD MEAN 0.10
ACRE-FEET 71.




STA. NO. F192-R
RIO HONDO
at
Lower Azusa Road
Release for Spreading Purposes
June 2 to 8, 1948
METER RATED FLOW
DISCHARGE IN SECOND-FEET
600
500
400
300
200
100
0
MID
NOON
JAN. 3
JAN. 4
JAN. 5
JAN. 6
JAN. 7
JAN. 8


STA. NO. F192-R
RIO HONDO
at
Lower Azusa Road
Storm of Jan. 19 to 20, 1949
METER RATED FLOW
DISCHARGE IN SECOND-FEET
16
14
12
10
8
6
4
2
0
NOON
JAN. 19
JAN. 20
MID



STATION F64-R
RIO HONDO above Mission Bridge

LOCATION: WATER-STAGE RECORDER, LAT. 34°04'57", LONG. 118°04'18", ON THE RIGHT (WEST) BANK APPROXIMATELY 1,000 FEET ABOVE MISSION (SAN GABRIEL BOULEVARD) AND 2 MILES NORTHEAST OF MONTEBELLO. THIS SUPPLEMENTS THE STATION OPERATED FROM 1923 TO 1928 BY THE STATE DIVISION OF WATER RIGHTS AT MISSION BRIDGE. ELEVATION OF ZERO GAGE HEIGHT, 194.63 FEET.

DRAINAGE AREA: 115 SQUARE MILES (EXCLUDES DRAINAGE ABOVE SANTA FE DAM).

CHANNEL AND CONTROL: CHANNEL - SAND AND SILT. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM CABLE CAR 60 FEET BELOW STATION.

RECORDER: INSTALLED IN JULY 1928. REMOVED ABOUT 10 P.M. MARCH 2, 1938. RE-INSTALLED ON MARCH 6 AT A TEMPORARY STATION F64B-R ON MISSION BRIDGE. REMOVED ON MARCH 26, 1938. REINSTALLED AT STATION F64-R IN A 48-INCH DIAMETER CORRUGATED IRON PIPE WHICH SERVES BOTH AS A STILLING WELL AND SHELTER HOUSE. AN AU CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: FLOW PARTIALLY REGULATED BY SIERRA MADRE DAM, BIG SANTA DAM, SAWPIT DAM, EATON DAM, LAS FLORES AND RUBIO DEBRIS BASINS, AND SANTA FE DAM.

DIVERSIONS: THE CITY OF PASADENA DIVERTS WATER FROM EATON CREEK. THE CITY OF MONROVIA DIVERTS WATER FROM MONROVIA CREEK AND SAWPIT CREEK. THE CITY OF SIERRA MADRE DIVERTS WATER FROM LITTLE SANTA ANITA CANYON. FLOW FROM SAN GABRIEL RIVER BELOW SANTA FE DAM IS OCCASIONALLY DIVERTED TO RIO HONDO. THERE ARE ALSO SEVERAL DIVERSIONS FOR IRRIGATION AND SPREADING GROUNDS.

RECORDS AVAILABLE: JULY 1928 TO SEPTEMBER 30, 1949. (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:

1947-1948
MAXIMUM 4240 SECOND-FEET, MARCH 24.
MINIMUM 6.2 SECOND-FEET, SEPTEMBER 12.

1948-1949
MAXIMUM 984 SECOND-FEET, DECEMBER 17.
MINIMUM 4.5 SECOND-FEET, SEPTEMBER 8.

1928-1949
MAXIMUM 28,000 SECOND-FEET, ESTIMATED MARCH 2, 1938.
MINIMUM 5 SECOND-FEET, OCTOBER 15, 1931.

ACCURACY: GOOD.

OPERATION: OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN CO-OPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

DISCHARGE MEASUREMENTS OF RIO HONDO

~~AT~~ NEAR above Mission Bridge DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT-ING	METH-OD	MEAS. SEC. NO.	S. NT. CHANGE TOTAL	METER NO.
1127	10-2	0825 / 0835	WADDICOR	32.0	11.4	1.40	2.99	16.0		.6	9	0	FC37
1128	10-9	0820 / 0830	"	26.5	13.3	1.35	2.99	17.9		.6	8	0	"
1129	10-16	0827 / 0837	"	25.0	13.5	1.41	3.00	19.0		.6	8	0	"
1130	10-23	0820 / 0830	"	24.0	12.6	1.29	3.01	16.2		.6	7	0	"
1131	10-30	0845 / 0855	"	24.5	14.0	1.28	2.97	17.9		.6	10	0	"
1132	11-6	0834 / 0844	"	24.5	13.7	1.25	2.95	17.2		.6	9	0	"
1133	11-13	0828 / 0838	"	23.0	13.8	1.30	2.94	17.9		.6	8	0	"
1134	11-20	0832 / 0842	"	25.0	14.3	1.32	2.94	18.9		.6	8	0	"
1135	11-28	0830 / 0840	"	24.0	14.2	1.20	2.92	17.0		.6	8	0	"
1136	12-4	0835 / 0845	"	39.0	21.0	1.48	3.04	31.0		.6	9	+.01	"
1137	12-4	2240 / 2340	WADDICOR - PAYNE	71.0	197.	4.77	5.44	941.		.6	9	-.72	"
1138	12-5	0930 / 0941	" "	33.0	23.7	2.19	3.12	52.0		.6	10	0	"
1139	12-5	1500 / 1550	"	63.0	265.	7.85	5.68	2081.		.6	7	+.06	"
1140	12-6	0922 / 0932	"	25.0	18.1	1.93	3.07	35.0		.6	7	0	"
1141	12-8	1245 / 1255	WADDICOR	35.0	25.7	2.02	3.36	52.0		.6	7	0	"
1142	12-11	0832 / 0842	"	27.0	16.0	1.58	3.10	25.2		.6	8	C	"
1143	12-18	0830 / 0850	STUNDEN	25.0	12.1	1.54	3.12	18.6		.6	10	0	FC36
1144	12-26	0825 / 0835	WADDICOR	26.0	25.7	0.99	3.11	25.4		.6	8	0	FC37
1145	1-2	0835 / 0845	"	28.5	13.9	1.47	3.08	20.5		.6	11	0	"
1146	1-8	0837 / 0847	"	28.5	13.6	1.49	3.07	20.2		.6	11	C	"
1147	1-15	0825 / 0837	"	29.0	13.8	1.42	3.06	19.6		.6	10	0	"
1148	1-22	0827 / 0837	"	28.0	13.4	1.50	3.04	20.1		.6	10	C	"
1149	1-29	0848 / 0858	"	29.0	15.5	1.29	3.03	20.0		.6	9	0	"
1150	2-5	1010 / 1020	WADDICOR - PAYNE	60.0	79.2	2.97	3.86	235.		.6	9	-.01	"
1151	2-5	1305 / 1320	" "	75.0	123.	4.88	4.78	600.		.6	10	+.05	"
1152	2-5	1335 / 1355	" "	75.0	150.	4.18	4.76	629.		.6	13	-.12	"
1153	2-6	1020 / 1035	" "	65.0	66.5	2.53	3.70	168.		.6	10	-.01	"
1154	2-13	0832 / 0842	WADDICOR	24.0	12.3	1.67	3.01	20.5		.6	10	C	"
1155	2-19	0820 / 0830	"	28.0	13.6	1.46	3.01	19.9		.6	9	C	"
1156	2-26	0830 / 0845	WADDICOR - SILL	28.5	13.2	1.47	2.98	19.4		.6	9	0	"
1157	3-4	0820 / 0832	WADDICOR	28.5	11.0	1.26	2.91	13.9		.6	11	0	"
1158	3-11	0830 / 0842	"	25.0	9.47	1.20	2.88	11.4		.6	10	0	"
1159	3-17	0833 / 0843	"	74.0	44.0	1.95	3.26	86.6		.6	9	-.03	"
1160	3-18	0830 / 0840	"	23.5	11.5	1.57	2.89	18.1		.6	9	C	"
1161	3-23	1025 / 1035	"	30.0	12.0	1.32	2.91	15.9		.6	10	0	"
1162	3-24	1438 / 1503	WADDICOR - PAYNE	90.0	332.	8.21	7.17	2730.		FLOATS	7	+.06	
1163	3-24	1510 / 1525	WADDICOR	86.0	282.	8.44	6.02	2380		.6	8	-.04	FC37
1164	3-25	1044 / 1057	"	22.2	11.5	1.84	2.94	21.2		.6	10	0	"
1165	3-31	0903 / 0914	"	24.5	10.7	1.42	2.88	15.2		.6	11	0	"
1166	4-1	0833 / 0843	"	24.0	12.4	1.48	2.88	18.3		.6	10	0	"
1167	4-6	0102 / 0112	WADDICOR - PAYNE	74.0	54.1	2.14	3.62	116.		.6	10	-.07	"
1168	4-6	1030 / 1040	" "	26.5	14.2	1.37	3.02	19.5		.6	11	0	"
1169	4-8	0847 / 0857	WADDICOR	17.0	9.94	1.57	2.95	15.6		.6	7	C	"
1170	4-13	0814 / 0824	WADDICOR - MOON	20.0	10.5	1.54	2.88	16.2		.6	8	0	"
1171	4-15	0808 / 0818	WADDICOR	20.0	9.72	1.42	2.88	13.8		.6	8	0	"
1172	4-22	0833 / 0843	"	20.0	10.0	1.38	2.83	13.8		.6	10	0	"
1173	4-29	0840 / 0850	"	22.0	25.8	0.89	2.96	23.0		.6	7	0	"
1174	5-3	0828 / 0840	WADDICOR - BONADIMAN	19.0	14.4	1.03	2.86	14.8		.6	8	C	"
1175	5-6	0838 / 0848	WADDICOR	19.0	11.8	1.09	2.86	12.9		.6	8	C	"
1176	5-12	0838 / 0848	"	17.0	10.6	1.28	2.82	13.5		.6	8	0	"
1177	5-13	0837 / 0847	"	16.0	10.6	1.16	2.88	12.3		.6	7	C	"
1178	5-17	0844 / 0856	WADDICOR - BONADIMAN	21.0	10.0	1.19	2.78	11.9		.6	9	C	"
1179	5-20	0828 / 0838	WADDICOR	16.0	10.2	1.20	2.78	12.3		.6	8	C	"
1180	5-27	0852 / 0902	"	18.5	10.0	1.20	2.78	12.0		.6	8	0	"
1181	6-2	0853 / 0903	WADDICOR	32.5	18.8	1.64	3.00	30.9		.6	9	-.01	"
1182	6-3	1610 / 1635	STUNDEN - MOON	81.0	129.	3.17	4.47	409.		.6	17	+.02	FC22
1183	6-4	1724 / 1737	BLAKELY - SILL	83.0	131.	4.35	4.54	570.		.6	12	-.03	FC35
1184	6-7	1827 / 1908	BLAKELY - SILL	83.0	126.	4.30	4.58	542.		.6	17	-.02	"
1185	6-8	1243 / 1300	MOON - STUNDEN	TWO CHANNELS			3.38	44.0		.6	15	-.03	FC36
1186	6-9	0803 / 0815	MOON - STUNDEN	TWO CHANNELS			3.08	16.6		.6	14	-.01	"
1187	6-10	0816 / 0830	WADDICOR	TWO CHANNELS			3.02	13.3		.6	14	0	FC37
1188	6-17	0852 / 0905	"	" "			2.92	10.4		.6	12	C	"
1189	6-22	1015 / 1030	WADDICOR - STUNDEN	" "			2.95	9.1		.6	12	0	"
1190	6-24	0847 / 0903	WADDICOR	" "			2.95	10.1		.6	13	0	"
1191	6-30	0843 / 0858	"	" "			2.93	9.3		.6	13	0	"
1192	7-6	1405 / 1414	BONADIMAN - SILL	14.0	5.53	1.43	3.10	7.9		.6	7	0	FC19
1193	7-8	0820 / 0830	WADDICOR	13.5	6.46	1.33	3.09	8.6		.6	8	0	FC37
1194	7-15	0847 / 0857	WADDICOR - BARON	13.2	7.07	1.40	2.99	9.9		.6	9	0	"
1195	7-22	0830 / 0840	WADDICOR	11.4	5.79	1.54	3.02	8.9		.6	8	0	"
1196	7-28	0937 / 0947	"	23.5	7.39	1.15	3.05	8.5		.6 .5	9	0	"
1197	7-29	0851 / 0903	WADDICOR - BONADIMAN	13.5	5.86	1.54	3.05	9.0		.6 .5	8	0	"
1198	8-4	1000 / 1010	LYNN - BONADIMAN	13.0	5.52	1.38	3.05	7.6		.6 .5	7	0	FC19
1199	8-11	0847 / 0900	BONADIMAN	11.5	5.20	1.50	3.06	7.8		.6 .5	9	0	FC46
1200	8-19	0917 / 0930	WADDICOR - LYNN	14.0	5.68	1.44	3.07	8.2		.6	9	0	FC37
1201	8-26	0850 / 0900	WADDICOR	12.5	5.43	1.44	3.08	7.8		.6	8	0	"
1202	9-2	0902 / 0912	WADDICOR	12.8	5.38	1.49	3.08	8.0		.6	9	0	"
1203	9-8	0845 / 0900	STUNDEN	14.0	5.14	1.40	3.07	7.2		.5	12	C	FC36
1204	9-16	0850 / 0900	WADDICOR	11.4	4.94	1.58	3.08	7.8		.6	9	0	FC37
1205	9-22	0853 / 0903	"	11.0	4.93	1.56	3.09	7.7		.6	8	0	"
1206	9-30	0848 / 0858	"	14.2	5.96	1.42	3.11	8.5		.6	9	0	"

DISCHARGE MEASUREMENTS OF RIO HONDO

~~AT~~ NEAR above Mission Bridge DURING THE YEAR ENDING SEPTEMBER 30, 19 ~~49~~ 40

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATINGS	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1207	10-7	0900 / 0910	WADDICOR	9.0	6.02	1.44	3.13	8.7		.6	9	0	FC37
1208	10-14	0902 / 0912	"	8.0	5.44	1.54	3.16	8.4		.6	8	0	"
1209	10-21	0850 / 0900	"	7.9	5.45	1.76	3.16	9.6		.6	8	0	"
1210	10-28	0848 / 0858	"	8.2	6.55	1.42	3.21	9.3		.6	9	0	"
1211	11-4	0903 / 0915	"	21.0	8.27	1.23	3.10	10.2		.6 .5	11	0	"
1212	11-12	0825 / 0835	"	21.0	10.5	0.97	3.04	10.2		.6	11	0	"
1213	11-18	0910 / 0920	WADDICOR - WILLUT	19.2	8.67	1.13	3.05	9.8		.6	9	0	"
1214	11-26	0833 / 0843	WADDICOR	19.0	8.34	1.24	3.05	10.3		.6 .5	10	0	"
1215	12-2	0852 / 0902	"	TWO CHANNELS			3.04	9.6		.6 .5	12	0	"
1216	12-9	0840 / 0850	"	20.0	8.37	1.13	3.07	9.5		.6 .5	12	0	"
1217	12-16	0900 / 0910	"	20.8	9.13	1.06	3.11	9.7		.6 .5	12	0	"
1218	12-17	0752 / 0802	"	TWO CHANNELS			3.31	44.8		.6 .5	10	-.02	"
1219	12-17	1435 / 1500	"	80.0	113.	3.00	4.30	340.		.6	9	-.10	"
1220	12-17	1510 / 1530	"	80.0	105.	2.76	4.08	290.		.6	11	-.15	"
1221	12-22	1138 / 1200	"	75.0	82.0	2.55	4.07	209.		.6 .5	9	-.07	"
1222	12-22	1212 / 1228	"	75.0	82.2	2.59	3.99	213.		.6 .5	11	-.02	"
1223	12-23	0908 / 0918		16.0	8.04	1.44	3.04	11.6		.6	9	0	"
1224	12-26	2300 / 2318	WADDICOR - PAYNE	83.0	158.	5.39	5.05	851.		.6	9	-.01	"
1225	12-26	2334 / 2348	"	83.0	155.	5.60	4.82	868.		.6	10	-.15	"
1226	12-27	0942 / 0952	"	TWO CHANNELS			3.41	62.2		.6 EST.	6	+.01	"
1227	12-27	1010 / 1030	"	60.0	47.7	2.24	3.62	107.		.6 SURF.	12	+.03	"
1228	12-30	0925 / 0935	WADDICOR	15.9	8.45	1.43	3.05	12.1		.6	8	0	"
1229	1-6	0852 / 0902	"	14.0	7.46	1.35	3.01	10.1		.6	9	0	"
1230	1-12	2130 / 2145	WADDICOR - PAYNE	82.0	99.8	3.22	4.36	322.		.6	9	-.01	"
1231	1-12	2200 / 2215	" "	85.0	105.	3.16	4.23	332.		.6	10	0	"
1232	1-13	1040 / 1052	" "	TWO CHANNELS			3.47	62.8		.6	13	0	"
1233	1-19	2225 / 2240	" "	85.0	155.	5.43	4.93	841.		.6	9	0	"
1234	1-19	2252 / 2303	" "	85.0	170.	5.21	4.93	886.		.6	9	0	"
1235	1-20	0638 / 0650	" "	85.0	103.	3.68	4.36	379.		.6	9	+.17	"
1236	1-20	0730 / 0752	" "	85.0	168.	5.03	4.98	845.		.6	10	+.15	"
1237	1-20	1424 / 1434	" "	33.0	38.0	1.98	3.42	75.3		.6	9	-.01	"
1238	1-21	1037 / 1047	" "	21.0	13.9	1.77	3.06	24.6		.6	9	0	"
1239	1-27	0953 / 1003	WADDICOR	16.5	7.79	1.47	3.01	11.4		.6	7	0	"
1240	1-31	0857 / 0909	WADDICOR - MOON	17.7	8.90	1.53	3.04	13.6		.6	11	+.01	"
1241	2-3	1124 / 1138	WADDICOR - PAYNE	85.0	103.	2.88	4.21	296.		.6	12	+.12	"
1242	2-3	1145 / 1204	" "	85.0	105.	2.81	4.25	295.		.6	12	-.06	"
1243	2-7	1204 / 1215	" "	85.0	113.	3.10	4.31	350.		.6	10	-.10	"
1244	2-7	1215 / 1227	" "	85.0	111.	3.08	4.23	342.		.6	10	-.06	"
1245	2-10	0922 / 0932	WADDICOR	20.0	9.96	1.42	3.01	14.1		.6	8	0	"
1246	2-17	0904 / 0914	"	19.0	8.40	1.33	3.05	11.2		.6 .5	10	0	"
1247	2-24	0847 / 0857	"	18.5	8.14	1.38	3.02	11.2		.6 .5	10	0	"
1248	2-26	1920 / 1932	"	75.0	97.5	2.39	4.16	233.		.6	8	0	"
1249	3-3	0930 / 0940	"	22.0	9.48	1.45	3.06	13.7		.6 .5	9	0	"
1250	3-4	2055 / 2110	WADDICOR - PAYNE	85.0	117.	2.94	4.24	344.		.6	10	-.01	"
1251	3-10	0822 / 0932	WADDICOR - DIAS	23.5	10.2	1.44	3.04	14.7		.6 .5	10	0	"
1252	3-10	2317 / 2345	WADDICOR - PAYNE	85.0	133.	3.56	4.44	474.		.6	9	+.04	"
1253	3-11	0030 / 0047	" "	85.0	179.	4.51	4.94	807.		.6	10	+.07	"
1254	3-11	0320 / 0332	" "	85.0	164.	3.82	4.71	627.		.6	9	+.02	"
1255	3-11	0345 / 0400	" "	85.0	142.	3.59	4.66	510.		.6	9	-.11	"
1256	3-11	1417 / 1427	" "	19.5	10.3	1.98	3.05	20.4		.6	8	0	"
1257	3-17	0842 / 0852	WADDICOR	TWO CHANNELS			2.96	14.5		.6 .5	12	0	"
1258	3-24	0835 / 0845	"	18.2	7.87	1.65	3.00	13.0		.6	8	0	"
1259	3-30	0843 / 0853	"	20.0	8.57	1.34	3.00	11.5		.6	9	0	"
1260	4-7	0816 / 0829	WADDICOR - LANG	19.0	7.93	1.29	2.99	10.2		.6 .5	10	0	"
1261	4-14	0845 / 0855	WADDICOR	19.5	8.00	1.24	2.99	9.9		.6 .5	10	0	"
1262	4-21	0832 / 0842	"	19.0	7.44	1.21	2.98	9.0		.6 .5	9	0	"
1263	4-28	0845 / 0855	"	19.0	7.32	1.28	2.96	9.4		.6 .5	10	0	"
1264	5-5	0847 / 0857	"	19.0	7.53	1.27	2.95	9.6		.6 .5	10	0	"
1265	5-12	0812 / 0827	"	19.0	6.83	1.24	2.94	8.5		.6 .5	11	0	"
1266	5-19	0847 / 0857	"	71.0	38.6	1.80	3.54	69.7		.6	9	-.04	"
1267	5-25	0930 / 0944	"	20.0	7.34	1.23	2.99	9.0		.6 .5	11	0	"
1268	5-26	0813 / 0830	"	20.0	7.04	1.14	2.97	8.0		.6 .5	11	0	"
1269	6-1	0955 / 0905	WADDICOR - MOON	20.5	7.73	1.09	2.97	8.4		.6	10	0	"
1270	6-9	0803 / 0820	WADDICOR	20.1	6.94	1.17	2.97	8.1		.6 .5	11	0	"
1271	6-16	0754 / 0807	"	20.3	6.85	1.08	2.96	7.4		.6 .5	10	0	"
1272	6-23	0807 / 0817	"	20.0	6.33	1.01	2.95	6.4		.6 .5	9	0	"
1273	6-29	0902 / 0914	"	23.0	6.71	1.01	2.98	6.8		.6 .5	10	0	"
1274	6-30	0820 / 0832	"	22.0	6.28	1.05	2.98	6.6		.6 .5	9	0	"
1275	7-7	0903 / 0920	WADDICOR - REINHARD	20.5	6.50	1.02	2.97	6.6		.6 .5	9	0	"
1276	7-14	0833 / 0843	"	23.0	6.20	1.03	2.97	6.4		.6 .5	10	0	"
1277	7-20	0750 / 0802	BONADIMAN	13.0	5.40	1.06	2.97	5.7		.6	7	0	FC19
1278	7-26	1116 / 1128	"	15.0	7.08	0.76	2.98	5.4		.6	9	0	FC46
1279	7-27	0732 / 0744	"	11.0	5.69	0.98	2.99	5.6		.6	9	0	"
1280	8-3	0730 / 0745	"	14.0	6.95	0.86	2.99	6.0		.6	7	0	"
1281	8-11	0752 / 0802	"	16.0	6.90	0.78	2.99	5.4		.6	9	0	FC46
1282	8-17	0802 / 0814	"	15.0	7.34	0.80	2.99	5.9		.6	9	0	"
1283	8-24	0823 / 0833	WADDICOR	11.5	5.80	0.98	3.01	5.7		.6 .5	7	0	FC37
1284	8-31	0818 / 0828	"	14.0	6.17	0.86	3.01	5.3		.6	8	0	"
1285	9-2	1033 / 1043	"	14.0	6.15	0.90	3.02	5.5		.6	8	0	"
1286	9-7	0828 / 0838	"	15.0	6.20	0.82	3.01	5.1		.6 .5	8	0	"
1287	9-14	0855 / 0914	REINHARD-WADDICOR	15.0	6.53	0.87	3.02	5.7		.6 .5	9	0	"
1288	9-21	0803 / 0813	WADDICOR	15.0	6.01	0.85	3.02	5.1		.6 .5	10	0	"
1289	9-29	0833 / 0843	"	13.5	6.18	0.81	3.04	5.0		.6 .5	8	0	"

P. C. Dist. Form 82 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F64-R

Daily discharge, in second-feet of RIO HONDO above Mission Bridge, for the year ending September 30, 19 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	33	33	81	41	35	15	18	15	27	8.6	8.2	8.2
2	30	32	43	39	36	15	22	16	27	8.6	8.2	8.2
3	30	34	46	39	36	14	67	14	293	8.6	7.8	8.2
4	30	32	217	38	36	13	24	14	533	8.2	7.8	8.2
5	29	32	448	40	326	11	20	14	481	8.2	8.6	8.2
6	33	32	69	39	103	9.9	31	12	506	8.1	8.6	7.8
7	34	32	40	38	46	9.9	15	13	548	8.2	8.6	7.8
8	34	33	33	38	41	12	15	14	210	8.2	8.2	7.8
9	34	33	38	38	46	12	16	12	16	7.8	8.2	7.4
10	35	34	41	38	44	12	90	12	14	7.0	8.2	7.0
11	35	35	43	36	41	12	20	13	13	7.0	8.2	7.0
12	33	35	43	40	40	11	16	14	12	7.4	8.6	6.6
13	36	34	40	38	38	136	16	13	11	8.2	8.6	6.6
14	36	34	38	36	39	48	14	14	8.2	8.6	8.6	7.0
15	34	34	38	36	38	23	14	12	8.6	9.9	8.2	7.0
16	35	33	36	38	38	31	14	12	9.0	9.9	8.2	7.0
17	35	36	36	39	39	174	14	12	11	12	8.2	7.4
18	34	36	35	39	40	18	14	13	11	12	8.2	8.6
19	33	35	35	39	36	53	13	16	9.9	12	7.8	7.4
20	34	35	38	39	38	20	13	14	9.0	11	8.2	7.4
21	32	36	38	39	38	17	13	14	8.6	9.9	8.2	7.8
22	30	49	44	38	36	16	14	12	11	9.0	8.2	8.2
23	32	33	44	38	38	16	14	16	11	9.0	8.2	8.2
24	32	35	46	38	38	500	18	21	9.9	8.6	8.2	8.6
25	34	34	41	36	38	25	18	21	9.9	9.0	8.2	8.6
26	29	34	43	40	36	16	18	14	9.0	9.0	8.2	9.0
27	34	32	44	39	29	15	18	14	8.6	11	8.6	8.2
28	33	32	41	38	23	15	165	17	8.6	8.6	8.6	7.8
29	33	35	47	38	15	15	56	20	8.6	8.6	12	7.8
30	35	35	43	38		15	15	20	8.6	8.6	8.2	9.0
31	33		41	36		15		19		8.2	8.2	
	1024	1029	1910	1186	1427	1314.8	815	457	28515	279.0	260.0	234.0
MEAN	33.0	34.3	61.6	38.3	49.2	42.4	27.2	14.7	95.0	9.00	8.39	7.80
ACRE-FEET	2030.	2040.	3790.	2350.	2830.	2610.	1620.	906.	5660.	553.	516.	464.

Remarks:

YEAR OR PERIOD MEAN 34.9
ACRE-FEET 25,370.

P. C. Dist. Form 82 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

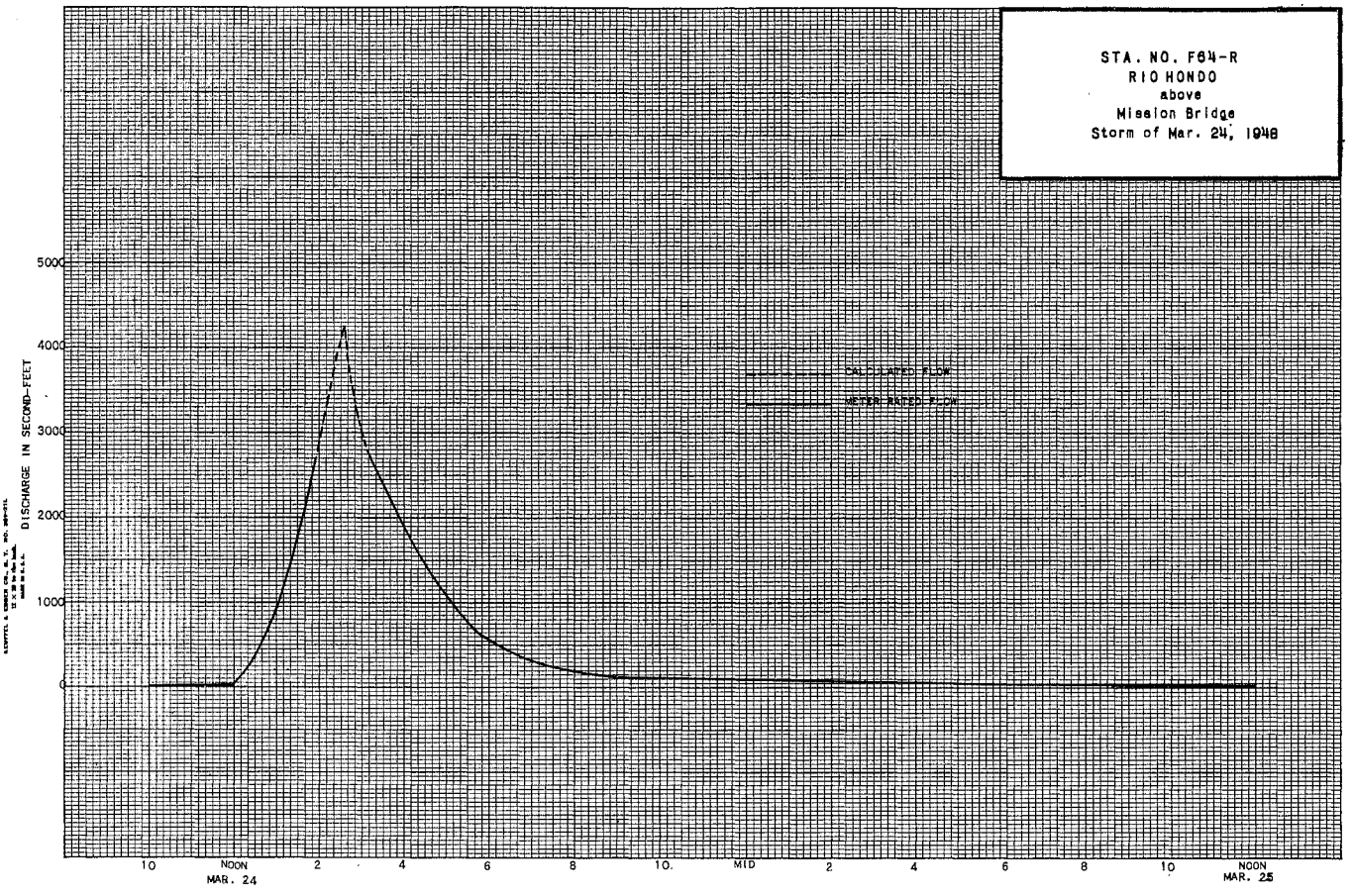
Sta. No. F64-R

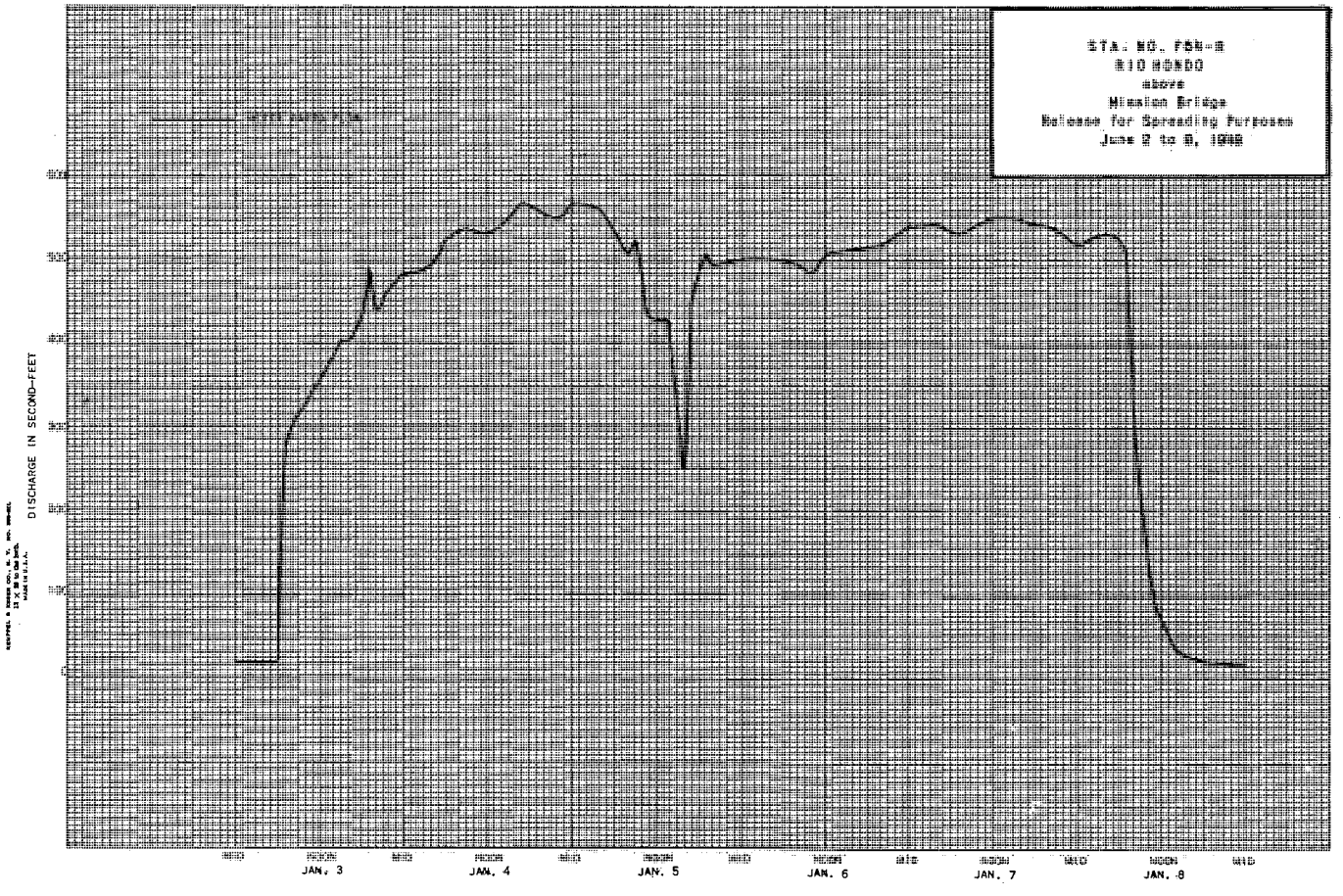
Daily discharge, in second-feet of Rio Hondo above Mission Bridge, for the year ending September 30, 19 49

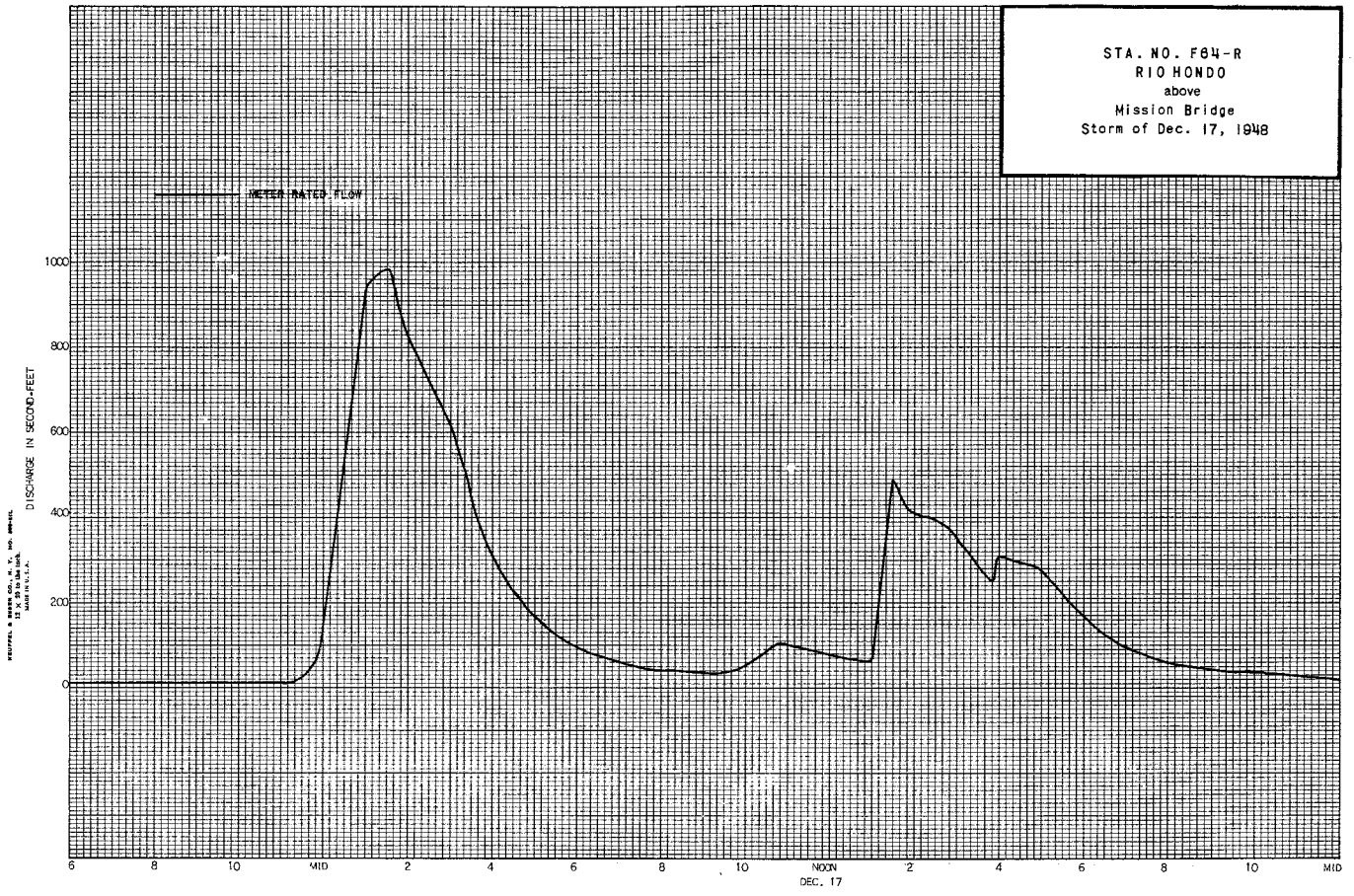
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.9	8.6	11	14	14	12	12	8.6	8.6	6.2	a 6.1	5.8
2	7.8	9.0	11	13	15	13	12	8.6	8.6	6.2	6.1	5.8
3	7.4	9.9	35	13	52	14	11	9.0	8.2	6.6	6.1	6.2
4	7.4	9.0	12	13	21	118	9.9	9.9	8.2	6.6	6.0	6.2
5	7.8	8.6	9.0	14	19	21	9.9	9.0	8.2	6.2	6.0	7.0
6	8.6	8.6	9.9	14	16	8.6	9.9	9.0	7.8	6.2	6.0	4.9
7	8.2	9.0	11	13	101	28	9.9	9.0	7.8	7.4	5.9	4.9
8	7.4	9.9	11	12	21	12	9.9	8.6	8.2	7.4	5.9	4.8
9	7.4	11	12	24	18	14	9.0	8.2	8.6	7.4	a 5.9	4.9
10	7.8	9.9	12	13	17	51	8.6	8.2	12	7.0	5.8	4.8
11	8.6	11	14	79	65	172	8.2	8.2	14	6.6	5.8	5.4
12	8.6	9.9	14	79	14	13	8.6	9.9	14	6.6	5.8	6.2
13	8.6	9.9	13	73	12	14	9.0	9.0	14	6.2	5.8	6.6
14	8.2	9.9	13	31	12	14	9.9	11	11	6.6	6.2	6.6
15	9.0	11	9.9	15	13	13	12	9.9	8.2	6.2	6.6	6.2
16	8.6	12	14	14	12	14	11	11	7.4	6.6	5.8	6.6
17	13	13	227	14	11	14	9.0	31	7.4	6.2	5.8	6.2
18	18	13	12	15	9.9	14	9.9	30	7.0	5.4	6.2	5.0
19	11	12	8.6	181	12	30	9.9	74	7.0	5.8	5.8	5.0
20	9.9	13	8.2	269	11	13	9.0	9.9	6.6	5.4	5.8	5.0
21	9.9	9.9	9.0	23	12	12	8.6	8.2	6.6	5.0	6.2	5.4
22	9.0	12	56	79	11	12	8.2	8.6	6.6	5.4	5.4	5.4
23	8.2	12	13	34	11	12	7.8	8.2	7.4	5.0	5.8	5.4
24	7.8	13	11	21	52	16	8.2	7.8	9.9	5.4	5.8	5.8
25	11	9.9	11	16	14	14	8.6	8.2	9.0	5.0	6.2	5.4
26	9.0	12	122	15	79	12	9.0	8.2	7.8	5.0	6.2	6.6
27	9.9	9.9	167	14	39	11	9.0	8.2	7.4	a 6.2	5.8	6.6
28	9.9	9.9	a13	14	11	11	8.6	8.2	7.0	6.2	5.8	5.8
29	9.9	9.9	a12	13		12	8.6	8.2	6.6	6.2	5.0	5.4
30	28	11	12	13		12	9.0	8.6	6.2	6.2	5.0	5.4
31	9.0		11	14		12		8.6		a 6.2	5.8	
	304.8	317.7	904.6	1169.0	694.9	738.6	284.2	383.0	257.3	190.6	182.4	171.3
MEAN	9.83	10.6	29.2	37.7	24.8	23.8	9.47	12.4	8.58	6.15	5.88	5.71
ACRE-FEET	605.	630.	1790	2320.	1380	1460.	564.	760.	510.	378.	362.	340.

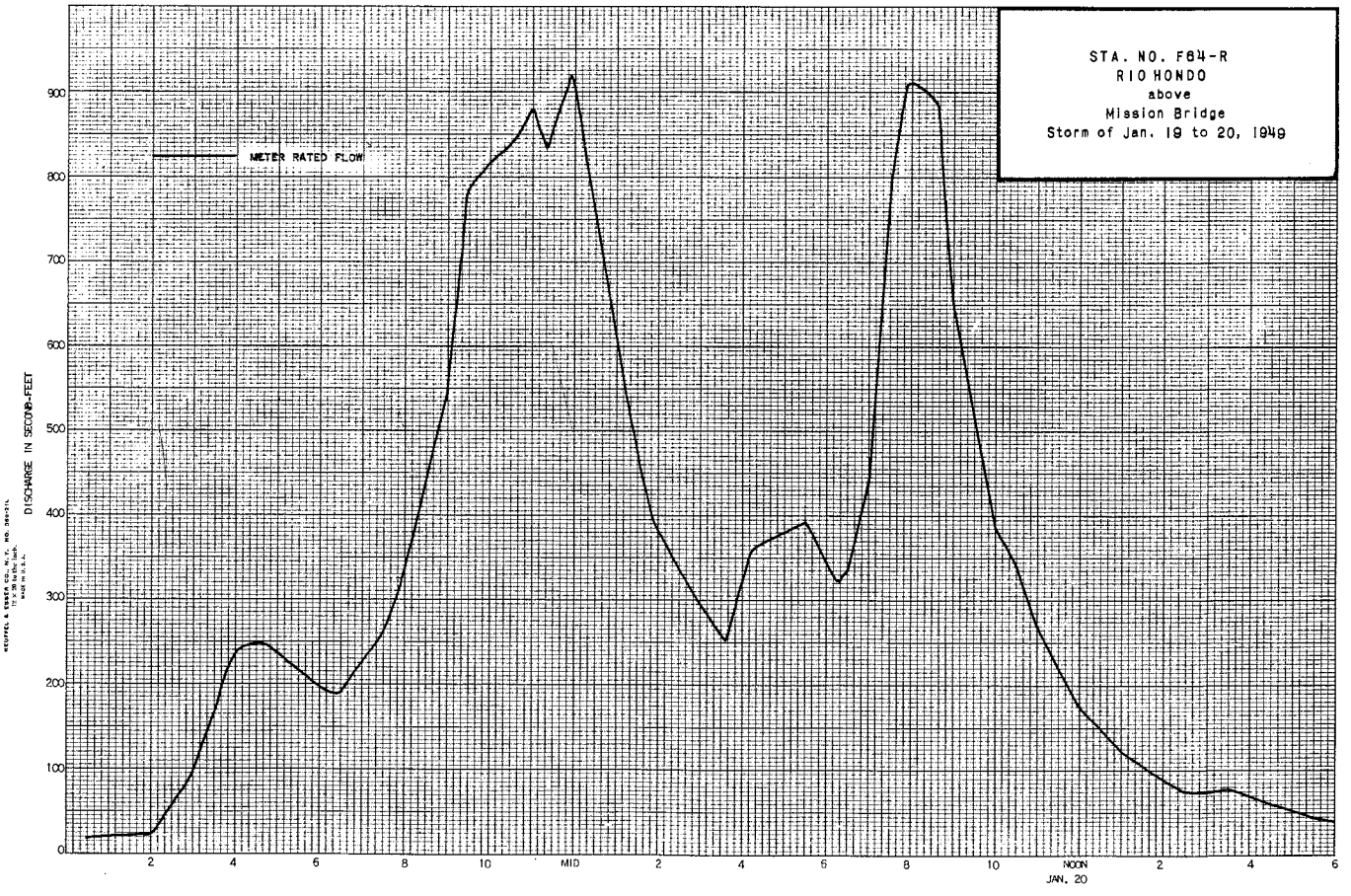
Remarks:

YEAR OR PERIOD MEAN 15.3
ACRE-FEET 11,100


STA. NO. F64-R
RIO HONDO
above
Mission Bridge
Storm of Mar. 24, 1948
DISCHARGE IN SECOND-FEET
5000
4000
3000
2000
1000
0
CALCULATED FLOW
METER RATED FLOW
10
NOON
MAR. 24
2
4
6
8
10.
MID
2
4
6
8
10
NOON
MAR. 25


STA. NO. F64-R
RIO HONDO
above
Mission Bridge
Release for Spreading Purposes
June 2 to 8, 1948
DISCHARGE IN SECOND-FEET
JAN. 3
JAN. 4
JAN. 5
JAN. 6
JAN. 7
JAN. 8


STA. NO. F64-R
RIO HONDO
above
Mission Bridge
Storm of Dec. 17, 1948
METER RATED FLOW
DISCHARGE IN SECOND-FEET
1000
800
600
400
200
0
6
8
10
MID
2
4
6
8
10
NOON
2
4
6
8
10
MID
DEC. 17


STA. NO. F64-R
RIO HONDO
above
Mission Bridge
Storm of Jan. 19 to 20, 1949
METER RATED FLOW
DISCHARGE IN SECOND-FEET
900
800
700
600
500
400
300
200
100
0
2
4
6
8
10
MID
2
4
6
8
10
NOON
2
4
6
JAN. 20

STATION F45-R

RIO HONDO at Stewart and Gray Road

LOCATION: WATER-STAGE RECORDER, LAT. 33°56'40", LONG. 118°09'50", ON THE DOWNSTREAM SIDE OF HIGHWAY BRIDGE, 0.5 MILE UPSTREAM FROM JUNCTION OF RIO HONDO AND LOS ANGELES RIVER AND ABOUT 1.5 MILES WEST OF DOWNEY. THIS STATION IS NEAR THE LOCATION OF THE STATION OPERATED FROM 1923 TO 1928 BY THE STATE DIVISION OF WATER RIGHTS. ELEVATION OF ZERO GAGE HEIGHT, 89.91 FEET.

DRAINAGE AREA: 140 SQUARE MILES. (EXCLUDES DRAINAGE ABOVE SANTA FE DAM).

CHANNEL AND CONTROL: CHANNEL - CLAY AND SAND BETWEEN GRANITE RIPRAP LEVEE ON LEFT (EAST) BANK AND EARTH LEVEE ON RIGHT BANK. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING NEAR GAGE. HIGH FLOWS MEASURED FROM CABLE CAR 250 FEET ABOVE STATION.

RECORDER: INSTALLED MAR. 1, 1928, OVER A 21-INCH DIAMETER CORRUGATED IRON PIPE STILLING WELL. AN AU CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: FLOW PARTIALLY REGULATED BY SIERRA MADRE DAM, BIG SANTA ANITA DAM, SAWPIT DAM, EATON DAM, SANTA FE DAM, LAS FLORES AND RUBIO DEBRIS BASINS.

DIVERSIONS: THE CITY OF PASADENA DIVERTS WATER FROM EATON CREEK. THE CITY OF MONROVIA DIVERTS WATER FROM MONROVIA CREEK AND SAWPIT CREEK. THE CITY OF SIERRA MADRE DIVERTS WATER FROM LITTLE SANTA ANITA CANYON. THERE ARE ALSO SEVERAL DIVERSIONS FOR IRRIGATION AND SPREADING. FLOW FROM SAN GABRIEL RIVER BELOW SANTA FE DAM IS OCCASIONALLY DIVERTED TO RIO HONDO.

RECORDS AVAILABLE: MARCH 1928 TO SEPTEMBER 30, 1949. (FOR RECORDS PRIOR TO MARCH 1928, SEE STATE DIVISION OF WATER RIGHTS BULLETINS).

EXTREMES OF DISCHARGE:

1947-1948
MAXIMUM 2,880 SECOND-FEET, MARCH 24.
MINIMUM NO FLOW AT VARIOUS TIMES.

1948-1949
MAXIMUM 713 SECOND-FEET, JANUARY 20.
MINIMUM NO FLOW AT VARIOUS TIMES.

1929-1949
MAXIMUM 24,400 SECOND-FEET, ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	U. MT. CHANGE TOTAL	METER NO.
820	5-6	0952 / 1000	"	17.0	6.62	1.25	3.98	7.6		.6	5	0	"
821	5-13	0857 / 0905	"	17.0	6.85	1.04	3.92	7.1		.6	5	0	"
822	5-20	0932 / 0941	"	18.0	6.59	0.99	3.96	6.5		.6	6	0	"
823	5-27	0834 / 0844	"	13.0	3.65	1.01	3.96	3.7		.6	6	0	"
824	6-9	0920 / 0928	"	8.0	3.40	0.68	3.91	2.3		.6	5	0	"
825	6-17	0916 / 0922	"	12.0	4.49	1.05	3.99	4.7		.6	5	0	"
826	6-24	0946 / 1006	BARON - BONADIMAN	10.0	3.17	0.80	3.96	1.9		.6	4	0	"
827	7-2	0847 / 0854	BONADIMAN	5.0	2.40	0.54	3.94	1.3		.6	4	0	"
828	7-8	0938 / 0944	"	12.0	3.25	0.80	3.90	2.6		.6	4	0	"
829	7-15	0848 / 0856	"	14.0	4.40	0.66	3.93	2.9		.6	4	0	"
830	7-22	0937 / 0945	"	17.0	5.34	0.64	3.99	3.4		.6	5	0	"
831	8-5	0820 / 0828	"	5.0	1.20	0.54	3.80	0.65		.6	3	0	"
832	8-19	0909 / 0914	"	5.0	0.97	0.49	3.84	0.47		.5	3	0	FC46
833	8-26	0912 / 0916	"	4.0	0.60	0.60	3.90	0.36		.5	2	0	"
834	9-7	1500 / 1510	WADDICOR	6.7	1.79	0.78	3.99	1.4		.5 .6	6	0	FC37
835	9-23	1400 / 1410	"	4.7	1.13	1.06	3.97	1.2		.5	5	0	"
836	9-29	0814 / 0822	"	5.0	1.46	0.82	3.99	1.2		.6	5	0	"

DISCHARGE MEASUREMENTS OF RIO HONDO

AT NEAR Stewart and Gray Road DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	U. MT. CHANGE TOTAL	METER NO.
797	10-2	0906 / 0913	BONADIMAN	7.0	6.95	0.47	5.08	3.3		.6	4	0	FC19
798	10-16	0904 / 0912	"	12.0	9.00	0.62	4.97	5.6		.6	5	0	"
799	10-30	0910 / 0916	"	7.0	4.15	0.75	4.87	3.1		.6	4	0	"
800	11-6	0902 / 0910	"	7.0	3.25	0.80	4.82	2.6		.6	4	0	"
801	12-5	0218 / 0245	BONADIMAN-KASIMOFF	145.0	296.	3.12	7.00	923.		.6	10	-.19	"
802	12-5	1204 / 1221	"	43.0	40.4	1.76	5.11	71.3		.6	5	-.02	"
803	12-6	0935 / 0945	"	35.0	31.8	1.58	4.67	50.2		.6	6	0	"
804	12-11	0902 / 0907	BONADIMAN	5.0	1.04	0.62	4.13	0.65		.6	3	0	"
805	1-22	0918 / 0926	"	10.0	2.90	0.66	4.12	1.9		.6	5	0	"
806	1-29	0934 / 0942	"	15.0	4.00	0.65	4.15	2.6		.6	6	0	"
807	2-5	0930 / 0954	"	110.0	144.	3.79	5.76	546.		.6	9	+.10 -.03	"
808	2-6	1012 / 1030	KASIMOFF-BONADIMAN	53.0	30.2	1.44	4.79	43.4		.6	10	-.02	"
809	2-26	0932 / 0942	BONADIMAN	19.0	6.39	0.81	4.20	5.2		.6	7	0	"
810	3-4	0917 / 0926	"	12.0	5.20	0.92	4.15	4.8		.6	6	0	"
811	3-11	0908 / 0914	"	9.0	2.60	0.69	4.14	1.8		.6	4	0	"
812	3-15	1042 / 1048	"	12.0	3.35	0.60	4.20	2.0		.6	4	0	"
813	3-17	0602 / 0624	BONADIMAN - SILL	60.0	88.8	4.38	5.60	389.		.6	6	0	"
814	3-17	1330 / 1342	" "	53.0	31.6	1.33	4.83	42.0		.6	7	0	"
815	3-18	0922 / 0928	BONADIMAN	4.0	0.66	0.44	4.32	0.29		.6	3	0	"
816	3-24	1649 / 1706	BONADIMAN - SILL	140.0	377.	6.64	7.90	2500.		.6	10	-.54	"
817	3-25	1000 / 1010	SILL	14.0	3.67	0.68	4.23	2.5		.6	6	0	"
818	4-22	0852 / 0902	BONADIMAN	17.0	4.75	1.03	3.84	4.9		.6	6	0	"
819	4-29	0922 / 0930	BONADIMAN - MILLS	20.0	10.7	1.09	4.32	11.6		.6	5	0	"

DISCHARGE MEASUREMENTS OF RIO HONDO

AT NEAR Stewart and Gray Road DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	U. MT. CHANGE TOTAL	METER NO.
837	10-6	0823 / 0828	WADDICOR	4.5	1.04	0.95	4.08	0.99		.5	5	0	FC37
838	10-14	0832 / 0838	BONADIMAN	4.0	1.84	1.20	4.02	2.2		.5	4	0	FC19
839	10-28	0840 / 0850	"	8.0	4.90	1.02	4.15	5.0		.5	5	0	"
840	11-4	0908 / 0914	"	6.0	2.36	0.84	3.98	2.0		.5	4	0	"
841	11-19	0910 / 0916	"	7.0	4.15	0.99	4.18	4.1		.5	4	0	"
842	11-24	0825 / 0944	BONADIMAN-WILLUT	12.0	6.07	0.94	4.20	5.7		.5	7	0	"
843	12-2	0830 / 0840	BONADIMAN	8.0	4.30	1.21	4.20	5.2		.5	5	0	"
844	12-9	0848 / 0858	"	7.0	3.68	0.92	4.15	3.4		.6	5	0	"
845	12-17	1110 / 1124	BONADIMAN-JOHNSON	50.0	27.2	1.15	4.54	31.4		.6	8	0	"
846	12-18	0847 / 0852	" "	4.0	1.70	0.44	4.09	0.75		.6	3	0	"
847	12-27	1008 / 1020	" "	55.0	36.2	1.91	4.76	69.2		.6	7	-.02	"
848	1-13	0652 / 0708	"	55.0	24.0	1.13	4.46	27.2		.6	8	0	"
849	1-20	0204 / 0224	"	55.0	97.0	5.33	5.50	518.		.6	7	+.12	"
850	1-21	0926 / 0932	BONADIMAN	6.0	1.60	0.69	4.12	1.1		.5	3	0	"
851	2-24	0834 / 0842	"	11.0	3.42	0.61	3.82	2.1		.5	5	0	"
852	3-5	0036 / 0050	BONADIMAN-JOHNSON	55.0	64.3	2.44	4.92	157.		.6	6	0	"
853	3-5	0842 / 0850	BONADIMAN	8.0	1.95	0.92	4.21	1.8		.5	4	0	"
854	3-11	0424 / 0434	BONADIMAN-JOHNSON	55.0	68.2	3.37	5.23	230.		.6	6	+.09	"
855	3-11	1312 / 1324	" "	55.0	21.0	0.93	4.42	19.6		.6	9	0	"
856	4-7	0840 / 0856	BONADIMAN	4.0	1.86	1.02	4.08	1.9		.6	4	0	"
857	4-14	0857 / 0902	"	9.0	2.28	0.44	4.04	1.0		.5	3	0	"
858	5-5	0855 / 0902	"	5.5	3.80	1.00	4.24	3.8		.6	4	0	"
859	5-19	0852 / 0900	"	7.0	2.55	0.51	4.18	1.3		.5	4	0	"
860	5-26	0842 / 0850	"	6.0	1.55	0.28	4.08	0.44		.5	3	0	"
861	6-2	0835 / 0840	BONADIMAN-STUNDEN	10.0	4.08	1.00	4.25	4.1		.5	4	0	"
862	6-9	0835 / 0842	BONADIMAN	4.5	1.95	0.82	4.12	1.6		.5	4	0	"
863	7-21	0822 / 0828	"	3.0	0.76	0.42	3.98	0.32		.5	2	0	"
864	8-11	0840 / 0850	"	5.0	1.25	0.62	4.00	0.78		.5	4	0	FC19

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F46-R

Daily discharge, in second-feet of RIO HONDO at Stewart and Gray Road, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.7	1.7	3.8	0	2.6	0	0	2.0	2.5	1.3	1.5	0.4
2	1.1	0.6	0	0	1.6	3.1	0	2.3	2.3	1.2	1.6	0.4
3	0.4	1.0	0	0	1.6	4.5	+	3.8	2.3	1.3	1.2	0.7
4	0.4	1.4	2.2	0	2.6	4.3	0	4.8	3.3	1.8	1.2	0.4
5	0.7	1.3	425	0	209	3.3	0	6.0	3.3	2.3	0.6	0.1
6	0.8	2.4	53	0	67	2.6	0	7.7	3.1	2.5	0.9	0
7	0.8	4.8	15	0	6.0	2.2	0	7.7	3.8	2.3	0.2	0.7
8	1.3	3.8	6.7	0	1.8	2.6	0	6.7	3.1	2.3	0	0.2
9	2.4	3.8	3.3	0	0	2.0	0	6.4	2.3	2.3	0.2	0.4
10	1.7	5.5	1.6	0	0	1.3	0	6.4	2.8	1.6	1.0	0.6
11	1.0	5.5	0.4	0	0	1.2	0	5.3	3.1	1.6	1.1	0.4
12	1.3	3.8	0.3	0	0	1.0	0	4.0	4.0	2.5	0.8	0.1
13	1.3	6.2	0.2	0	0	3.9	0	7.4	3.3	2.6	0.9	0.1
14	2.1	4.5	0.2	0	0	18	0	7.0	3.6	1.9	1.2	1.0
15	5.5	5.5	0.1	0	0	3.8	0	6.4	4.0	2.3	1.2	0.2
16	4.8	4.5	0.1	0	0	0.6	0	4.0	4.0	1.9	1.5	0
17	1.4	3.8	0.1	0	0	83	0	3.8	4.5	1.9	1.5	0
18	2.4	0	0.1	0	0	0.4	1.3	4.5	3.3	1.8	0.8	0
19	3.4	0	0.1	0	0	1.5	1.9	4.8	2.8	1.8	0.3	0.8
20	0.7	0	0	0	0	3.0	2.8	5.7	2.2	1.6	0.5	0.8
21	0	+	0	1.0	0	0.6	3.8	4.8	1.8	1.5	0.8	0.2
22	1.1	2.1	0	2.0	0	0.3	5.0	4.0	1.8	3.4	0.9	0.2
23	1.4	0	0	2.5	0	0	4.5	3.3	2.0	1.6	1.1	1.6
24	1.0	+	0	3.1	0	237	2.8	4.0	1.9	2.0	1.0	0.7
25	1.7	2.4	0	2.6	3.8	6.0	0.9	4.3	1.8	2.3	0.6	0.9
26	1.4	4.5	0	2.5	5.0	0	0.2	3.3	1.8	1.8	0	1.5
27	2.1	0	0	2.3	4.8	0	0.4	3.3	1.6	1.2	0.4	0.7
28	1.7	+	0	2.8	4.5	0	0.4	3.8	1.8	1.2	0.1	0.3
29	3.8	3.1	0	2.6	0	0	50	3.6	1.9	1.1	0.4	0.6
30	4.1	2.1	0	2.5		0	4.3	3.1	1.8	1.1	0.1	1.1
31	3.4		0	2.8		0		2.5		1.1	0.2	
	569	743	5122	26.7	3103	3862	783	1467	818	571	238	151
MEAN	1.84	2.48	16.5	0.86	10.7	12.5	2.61	4.73	2.73	1.83	0.77	0.50
ACRE-FEET	113.	147.	1020.	53.	615.	766.	155.	291.	162.	113.	47.	30.

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

YEAR OR PERIOD MEAN 4.83
ACRE-FEET 3,510.

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

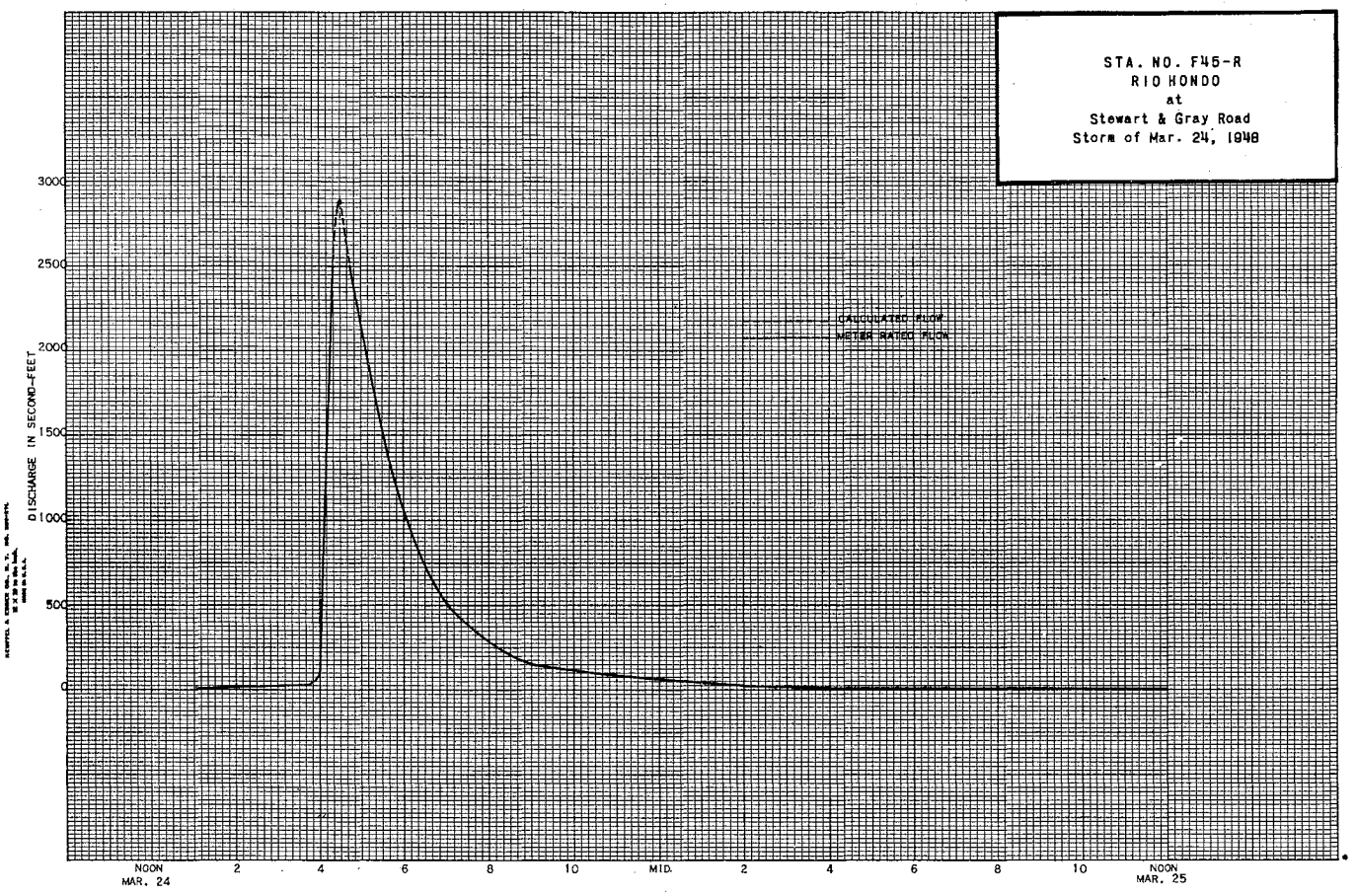
Sta. No. F46-R

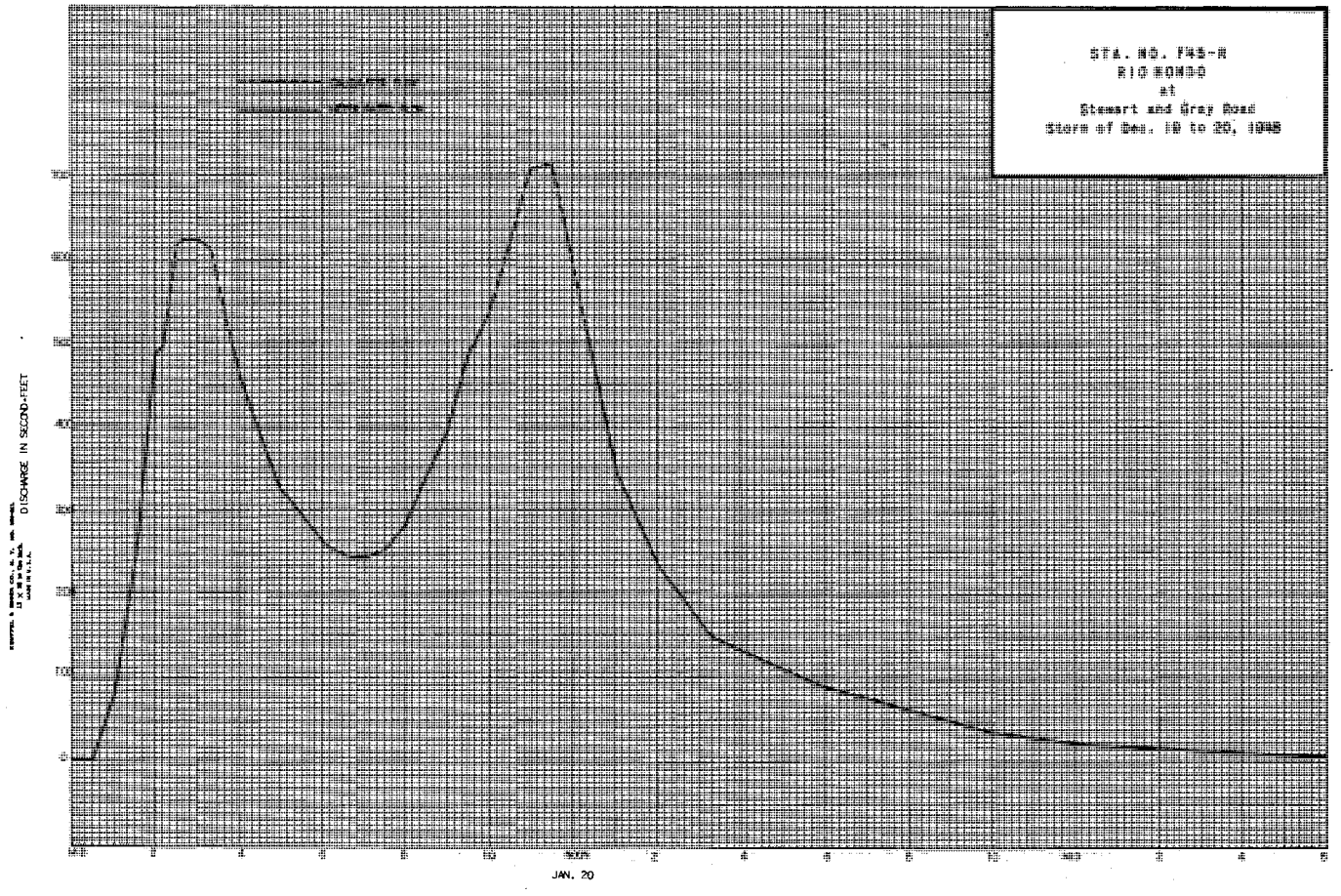
Daily discharge, in second-feet of Rio Hondo at Stewart and Gray Road, for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.3	3.8	2.0	0	2.7	0.1	1.6	1.2	2.2	0	0.2	0
2	0.9	3.6	2.0	0	0	0.2	1.3	1.2	1.6	0	0.1	0
3	0.4	3.6	2.2	0	0.3	0.1	1.1	1.8	0.3	0	0	0
4	0.1	2.6	0.8	0	0.3	12	0	1.5	0.1	0	0	0.1
5	0.6	3.1	2.3	0	0	21	0	1.9	0.5	0	0	0.2
6	0.1	1.9	2.3	0	0	0.1	1.2	1.8	1.3	0.2	0	0.1
7	0.2	2.2	1.9	0	0.7	0	1.3	0.7	1.1	0.4	0	0
8	0.5	4.3	3.1	0	0	0	1.2	1.0	1.3	0.9	0.1	0
9	0.2	2.6	3.1	0	0	0	0.9	1.3	1.0	0.1	0	0.1
10	1.0	1.6	1.0	0	0	0	0	0.6	1.2	0.1	0	0
11	0.9	2.5	1.6	0.4	0	62	0	0.7	1.3	0.5	0	0
12	1.1	1.8	1.5	0	0	2.2	0	0.7	1.6	1.2	1.8	0
13	1.6	1.5	1.2	15	0	0.3	0	0.2	1.1	0.6	1.1	0
14	a 1.4	1.9	1.9	0	0	0	0.7	1.0	1.5	0.5	1.2	0
15	1.2	1.2	1.0	0	0	0	0.9	1.0	0.5	0.1	0.7	0
16	1.0	1.5	1.6	0	0	0	0.9	0.1	0.1	0.2	0.8	0.1
17	0.8	2.2	51	0	0	0	0	0.6	1.0	0.2	0.8	0.1
18	a 0.6	1.2	2.6	0	0	0	0	0	1.8	0.2	0.1	0.1
19	0.4	2.2	0.1	0	0	0	0.9	1.2	1.9	0.5	0	0.3
20	1.2	2.3	0	2.68	0	0	1.1	0.1	1.3	0	0.3	0.6
21	1.1	2.8	0.1	1.5	0	0	0.7	0	0.6	0.1	0.1	1.0
22	2.3	2.6	1.5	1.8	0	0	0.7	0	0.2	0.6	0	0.2
23	1.8	1.9	0	1.5	0	0	0.6	0	0.2	0	0	0.1
24	1.3	2.2	0	0.1	2.0	0	0.1	0	0.2	0.3	0.1	0.2
25	1.1	0	0	0	4.5	0	0	0	0.2	1.6	0	0.1
26	1.9	0	0	b 0	2.6	0	0.5	0.1	1.2	0.2	0.1	0
27	1.9	1.5	a 5.8	0	14	0	0.7	0.3	1.0	0	0.5	0
28	2.8	1.3	a 2.6	0	0.1	0	0.6	0.5	1.3	0	0.1	0
29	2.8	1.2	a 1.1	0		0	1.2	1.0	0.6	0.6	0.1	0
30	1.2	2.5	0.2	0		0	1.5	1.5	0	0.1	0.2	0
31	1.9		0	0		0		1.8		0	0	
	356	636	146.7	288.3	272	980	197	238	282	92	84	33
MEAN	1.15	2.12	4.73	9.30	0.97	3.16	0.66	0.77	0.94	.297	0.27	0.11
ACRE-FEET	71.	126.	291.	572.	54.	194.	39.	47.	56.	18.	17.	6.5

Remarks:

YEAR OR PERIOD MEAN 2.06
ACRE-FEET 1490.


STA. NO. F45-R
RIO HONDO
at
Stewart & Gray Road
Storm of Mar. 24, 1948
DISCHARGE IN SECOND-FEET
3000
2500
2000
1500
1000
500
0
CALCULATED FLOW
METER RATED FLOW
NOON
MAR. 24
2
4
6
8
10
MID.
2
4
6
8
10
NOON
MAR. 25


STA. NO. F45-R
RIO HONDO
at
Stewart and Gray Road
Storm of Dec. 19 to 20, 1948
DISCHARGE IN SECOND-FEET
JAN. 20

STATION U14-R
ROCK CREEK above Mouth of Canyon

LOCATION: WATER-STAGE RECORDER, LAT. 34°25'10", LONG. 117°50'17". IN NE 1/4 SEC. 20, T. 4 N., R. 9 W., 1-3/4 MILES SOUTHEAST OF VALYERMO. ALTITUDE OF GAGE ABOUT 4,050 FEET.

DRAINAGE AREA: 23.0 SQUARE MILES.

RECORDS AVAILABLE: JANUARY 1923 TO SEPTEMBER 1937, MAY 1938 TO SEPTEMBER 1949.

AVERAGE DISCHARGE: 24 YEARS (1923-37, 1938-48) 16.7 SECOND-FEET.
25 " (" " " 49) 15.2 " "

EXTREMES OF DISCHARGE:
1947-1948
MAXIMUM DISCHARGE 84 SECOND-FEET, APRIL 29. (GAGE HEIGHT, 2.63 FEET).
MINIMUM 2.9 SECOND-FEET, SEPTEMBER 25-30.
1948-1949
MAXIMUM DISCHARGE, 26 SECOND-FEET, APRIL 23 (GAGE HEIGHT, 2.32 FEET).
MINIMUM 2.4 SECOND-FEET, OCTOBER 24-26.
1923-1949
MAXIMUM DISCHARGE, 8,300 SECOND-FEET, MARCH 2, 1938 BY SLOPE-AREA METHOD.
MINIMUM 1.2 SECOND-FEET, AUGUST 22, 1925.

REMARKS: RECORDS FAIR. NO DIVERSIONS ABOVE STATION.

COOPERATION: RECORDS FURNISHED BY THE UNITED STATES GEOLOGICAL SURVEY WITH THE EXCEPTION OF 40 DISCHARGE MEASUREMENTS FURNISHED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT, IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY.

DISCHARGE MEASUREMENTS OF ROCK CREEK

~~AT~~ NEAR above Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAN SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
806	10-6		U.S.G.S.	13.5	5.5	0.98	1.92	5.4		.5 / .6	15	0	
807	10-15	1405 / 1415	LUCE	14.0	6.26	0.96	1.90	5.9		.6	7	0	FC39
808	10-21		U.S.G.S.	14.0	5.4	0.94	1.80	5.1		.5 / .6	12	0	
809	11-4		"	13.8	5.57	0.84	1.92	4.70		.5 / .6	12	0	
810	11-12	1345 / 1355	LUCE	12.0	6.30	0.77	1.90	4.8		.6	7	0	FC39
811	12-4		U.S.G.S.	11.0	5.9	1.18	2.00	7.0		.6	11	0	
812	12-10	1425 / 1440	LUCE	12.0	6.2	0.90	1.95	5.6		.6	7	0	FC39
813	12-23	1220 / 1230	"	13.5	6.6	1.09	1.96	7.2		.6	7	0	"
814	1-5		U.S.G.S.	12.4	6.1	0.85	1.96	5.2		.6	14	0	
815	1-14	1550 / 1600	LUCE	12.5	6.7	0.82	1.95	5.5		.6	7	0	FC39
816	1-26	1535 / 1545	"	12.0	5.5	0.83	1.95	4.6		.6	6	0	"
817	2-2		U.S.G.S.	12.0	5.3	0.79	1.94	4.19		.6	12	0	
818	2-10	1535 / 1545	LUCE	12.5	6.39	0.91	1.93	5.7		.6	7	0	FC39
819	2-26	1345 / 1355	"	13.5	6.6	1.07	1.94	7.1		.6	7		"
820	3-1		U.S.G.S.	13.5	6.0	0.95	1.95	5.7		.5 / .6	12	0	
821	3-10	1315 / 1325	LUCE	12.5	6.6	1.05	1.95	7.0		.6	8	0	FC39
822	3-23	1110 / 1120	"	14.0	6.7	1.19	1.95	7.9		.6	7		"
823	3-29		U.S.G.S.	14.0	6.6	1.09	1.98	7.2		.5 / .6	13	0	
824	4-7	1440 / 1450	LUCE	14.0	7.2	1.39	1.98	10.0		.6	7	0	FC39
825	4-16	1425 / 1430	"	14.0	8.8	1.66	2.08	14.7		.6	7	0	"
826	4-27		U.S.G.S.	15.0	8.1	1.31	2.06	10.6		.5 / .6	12	0	
827	4-30	0950 / 1000	LUCE	17.8	12.7	1.96	2.27	24.9		.6	8	0	FC39
828	5-12	1315 / 1325	"	15.5	7.6	1.42	2.03	10.8		.6	8	0	"
829	5-26		U.S.G.S.	14.0	6.7	1.14	1.98	7.6		.6	13	0	
830	5-27	0900 / 0910	LUCE	14.0	7.4	1.22	1.98	9.0		.6	8	0	FC39
831	6-10	1355 / 1405	"	13.7	6.4	1.32	1.94	8.4		.6	7	0	"
832	6-24		U.S.G.S.	13.0	5.7	0.90	1.92	5.1		.6	12	0	
833	7-15	1045 / 1055	LUCE	13.5	5.6	0.99	1.90	5.6		.6	8	0	FC39
834	7-26		U.S.G.S.	12.0	4.30	0.96	1.88	4.14		.5 / .6	11	0	
835	8-11	1555 / 1605	LUCE	12.5	5.0	0.77	1.85	3.9		.6	7	0	FC39
836	8-25		U.S.G.S.	14.0	5.7	0.75	1.88	3.81		.5 / .6	12	0	
837	8-25		"	8.0	3.38	1.20	1.88	4.05		.5 / .6	8	0	
838	8-25		"	11.0	3.60	1.01	1.88	3.63		.5	11	0	
839	9-10	1215 / 1225	LUCE	14.5	5.5	.71	1.85	3.9		.6	7	0	FC39
840	9-27		U.S.G.S.	5.5	2.53	1.17	1.87	2.96		.5 / .6	9	0	

DISCHARGE MEASUREMENTS OF ROCK CREEK

~~AT~~ NEAR above Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAN SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
841	10-1		U.S.G.S.	5.5	2.37	1.04	1.84	2.47		.5 / .6	9	0	
842	10-15	1220 / 1230	LUCE	12.1	4.79	0.61	1.86	2.9		.6	7		FC39
843	10-26		U.S.G.S.	6.0	2.56	0.96	1.87	2.47		.5 / .6	11	0	
844	11-9	1625 / 1635	LUCE	11.4	4.82	0.75	1.87	3.6		.6	7		FC39
845	11-26	1710 / 1720	"	11.5	5.53	0.69	1.91	3.8		.6	8		"
846	11-29		U.S.G.S.	5.5	2.50	1.09	1.91	2.73		.6	9	0	
847	12-27		"	6.0	2.96	1.12	1.94	3.32		.6	10	0	
848	1-5	1350 / 1400	LUCE	12.0	5.63	0.80	1.94	4.5		.6	8	0	FC39
849	1-19	0920 / 0930	"	13.0	6.11	0.85	1.95	5.2		.6	9	0	"
850	1-26		U.S.G.S.	6.5	2.93	1.29	1.96	3.79		.5 / .6	10	0	
851	2-2	1330 / 1340	LUCE	12.0	5.95	0.77	1.96	4.6		.6	7	0	FC39
852	2-16	1030 / 1040	"	12.5	5.53	0.99	1.98	5.5		.6	9	0	"
853	2-23		U.S.G.S.	8.0	3.57	1.35	2.02	4.82		.5 / .6	12	0	
854	3-2	1450 / 1500	LUCE	11.5	5.79	1.04	2.02	6.0		.6	7		FC39
855	3-15		U.S.G.S.	8.0	3.67	1.61	2.05	5.9		.5 / .6	13	0	
856	3-16	0930 / 0935	LUCE	11.8	6.44	1.15	2.06	7.4		.6	7	0	FC39
857	3-25		U.S.G.S.	8.0	4.09	1.64	2.08	6.7		.5 / .6	13	0	
858	3-29	1505 / 1515	LUCE	14.0	7.68	1.34	2.06	10.3		.6	10	0	FC39
859	4-6		U.S.G.S.	15.0	5.5	1.72	2.08	9.5		.5 / .6	15	0	
860	4-13	1530 / 1540	LUCE	14.7	9.9	2.02	2.22	20.0		.6	10	0	FC39
861	4-25		U.S.G.S.	18.0	9.7	2.11	2.28	20.5		.5 / .6	14	0	
862	4-27	1415 / 1425	LUCE	15.5	9.8	2.03	2.21	20.0		.6	11	0	FC39
863	5-9		U.S.G.S.	16.0	6.0	1.55	2.10	9.3		.5 / .6	13	0	
864	5-11	0945 / 0955	LUCE	14.0	7.7	14.8	2.10	11.3		.6	10	0	FC39
865	5-26		U.S.G.S.	7.5	4.22	1.68	2.04	7.1		.5 / .6	15	0	
866	5-26	1750 / 1800	LUCE	14.0	6.9	1.14	2.04	7.9		.6	9	0	FC39
867	6-8	1455 / 1505	"	14.0	6.00	1.20	2.00	7.2		.6	9	0	"
868	6-9		U.S.G.S.	7.5	4.13	1.45	2.01	6.0		.5 / .6	13	0	
869	6-22		"	5.5	3.29	1.64	1.99	5.4		.6	9	0	
870	6-24	1120 / 1132	TURNER	5.6	3.36	1.46	1.97	4.9		.6	7	0	FC43
871	7-6	0705 / 0715	LUCE	5.5	3.26	1.26	1.97	4.1		.6	7	0	FC39
872	7-6		U.S.G.S.	5.6	3.22	1.32	1.96	4.25		.6	11	0	
873	7-26		"	5.6	2.94	1.14	1.93	3.37		.6	11	0	
874	8-8		"	5.7	3.10	1.10	1.93	3.40		.6	11	0	
875	8-10	1415 / 1425	LUCE	13.5	5.24	.78	1.91	4.1		.6	9	0	FC39
876	8-23		U.S.G.S.	5.6	2.90	.98	1.90	2.83		.6	11	0	
877	9-8	1335 / 1345	LUCE	9.7	4.69	.72	1.90	3.4		.6	9	0	FC39
878	9-8	1405 / 1415	"	5.6	3.04	.99	1.90	3.0		.6	8	0	"
879	9-13		U.S.G.S.	5.6	3.03	1.05	1.92	3.17		.5 / .6	11	0	
880	9-26		"	5.6	2.76	.90	1.90	2.49		.6	11	0	
881	9-29	0820 / 0825	LUCE	5.5	3.03	.99	1.93	3.0		.6	7	0	FC39

F. C. Dist. Form 53 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U14-R

Daily discharge, in second-feet of ROCK CREEK above Mouth of Canyon, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.6	4.9	5.6	5.3	4.2	5.6	6.8	18	10	4.5	3.5	3.5
2	5.6	4.9	5.6	5.3	4.2	5.6	6.8	15	10	4.2	3.5	3.5
3	5.3	4.9	5.6	5.3	4.2	6.0	7.6	14	10	4.2	3.5	3.5
4	5.3	4.9	6.0	5.3	4.5	6.0	9.0	13	9.5	4.2	3.5	3.5
5	5.3	4.9	6.0	5.3	5.6	6.0	10	13	9.5	4.2	3.2	3.5
6	5.3	4.9	6.0	5.3	5.6	6.4	10	13	9.5	4.2	3.2	3.8
7	5.3	4.5	6.0	5.3	5.6	6.4	10	13	9.5	4.2	3.2	3.8
8	5.3	4.5	6.0	4.9	5.3	6.4	10	13	9.5	4.2	3.2	4.2
9	5.3	4.5	5.6	4.9	5.3	6.8	11	12	9.0	4.2	3.5	4.2
10	5.3	4.5	5.6	4.9	5.6	6.8	13	12	9.0	4.5	3.8	4.2
11	5.3	4.5	5.6	4.9	5.3	6.4	16	12	8.5	4.9	3.8	4.2
12	5.3	4.5	5.6	4.9	5.3	6.4	15	11	8.0	4.9	3.8	4.2
13	5.3	4.5	5.6	4.9	5.3	7.2	14	10	7.6	4.9	3.8	3.8
14	5.3	4.5	5.6	4.9	5.3	7.6	14	10	7.6	4.9	3.8	3.8
15	5.3	4.5	5.6	4.9	5.6	8.0	14	10	7.2	4.9	3.8	3.8
16	5.3	4.5	5.6	4.9	5.6	8.0	15	10	6.8	4.5	3.8	3.5
17	5.3	4.5	5.6	4.9	6.0	8.5	15	10	6.4	4.5	3.8	3.8
18	5.3	4.5	5.6	4.9	6.4	8.5	15	10	6.0	4.5	3.5	3.8
19	5.3	4.5	6.0	4.9	6.4	8.5	14	10	6.0	4.5	3.5	3.2
20	5.3	4.5	6.0	4.9	6.8	8.5	13	9.5	5.6	4.5	3.5	3.2
21	5.3	4.9	6.0	4.9	7.2	8.0	13	9.5	5.6	4.5	3.2	3.2
22	5.3	4.9	6.0	4.9	7.2	8.0	13	9.0	5.6	4.5	3.2	3.2
23	5.3	4.9	6.0	4.9	7.6	8.0	13	9.0	5.3	4.5	3.5	3.2
24	5.3	4.9	6.0	4.9	7.6	9.0	12	9.0	5.3	4.5	3.5	3.2
25	5.3	4.9	6.0	4.9	7.6	9.0	12	8.5	5.3	4.5	3.5	2.9
26	4.9	4.9	6.0	4.9	7.4	7.6	11	8.5	4.9	4.5	3.5	2.9
27	4.9	4.9	5.6	4.5	7.2	7.2	10	8.5	4.9	4.2	3.5	2.9
28	4.9	4.9	5.6	4.5	6.4	6.8	15	8.5	4.5	4.2	3.5	2.9
29	4.9	4.9	5.6	4.5	5.6	6.8	45	8.5	4.5	4.2	3.5	2.9
30	4.9	4.9	5.6	4.5		6.8	24	9.0	4.5	3.8	3.5	2.9
31	4.9		5.6	4.2		6.8		9.0		3.8	3.5	
	162.5	141.4	178.8	152.4	171.9	223.6	407.2	335.5	215.6	136.8	109.1	105.2
MEAN	5.24	4.71	5.77	4.92	5.93	7.21	13.6	10.8	7.19	4.41	3.52	3.51
ACRE-FEET	322	280	355	302	341	444	808	665	428	271	216	209

Remarks:

YEAR OR PERIOD MEAN 6.39
ACRE-FEET 4,640

F. C. Dist. Form 53 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U14-R

Daily discharge, in second-feet of Rock Creek above Mouth of Canyon, for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.6	3.5	2.8	3.7	4.7	6.0	9.5	16	7.8	4.3	3.3	3.3
2	2.9	3.5	2.5	3.7	4.7	6.0	9.5	14	7.8	4.3	3.3	3.3
3	2.9	3.5	3.0	4.0	4.7	6.0	9.0	14	7.8	4.3	3.3	3.3
4	2.9	3.5	3.0	4.3	4.7	6.0	9.0	13	7.8	4.0	3.0	3.3
5	2.9	3.5	3.0	4.3	5.1	6.0	9.0	12	7.8	4.0	3.0	3.3
6	2.9	3.5	3.0	4.3	5.1	6.0	9.5	12	7.8	4.0	3.0	3.3
7	2.9	3.5	3.0	4.3	5.1	6.0	10	11	7.8	4.0	3.0	3.3
8	2.9	3.5	3.0	4.3	5.1	6.0	11	10	7.3	3.7	3.0	3.3
9	2.9	3.5	3.0	4.3	5.1	5.5	11	10	7.3	3.3	3.0	3.3
10	2.9	3.5	3.0	4.3	5.1	5.5	12	11	7.3	3.3	3.0	3.3
11	2.9	3.3	3.0	4.3	6.0	6.0	14	11	6.8	3.0	3.0	3.0
12	2.9	3.3	3.0	5.1	6.4	6.0	17	11	6.8	3.0	3.0	3.0
13	2.9	3.3	3.3	5.1	6.0	6.0	21	11	6.8	3.0	3.0	3.0
14	3.2	3.3	3.3	5.1	5.5	6.0	24	11	6.4	3.0	3.0	3.0
15	3.2	3.3	3.3	5.1	5.5	6.0	23	10	6.4	3.0	3.0	3.0
16	2.9	3.3	3.3	5.1	5.5	7.3	22	10	6.0	3.0	3.0	3.0
17	3.2	3.3	3.7	5.1	5.5	7.3	21	10	6.0	3.0	3.0	3.0
18	3.2	3.3	3.3	5.1	5.1	7.3	21	9.5	6.0	3.0	3.0	3.0
19	3.2	3.3	3.3	5.5	5.1	7.8	20	9.5	6.0	3.0	3.3	3.0
20	2.9	3.3	3.3	7.8	4.7	7.8	19	9.5	6.0	3.0	3.3	2.8
21	2.6	3.3	3.0	6.4	4.7	7.3	22	9.0	6.0	3.0	3.3	2.8
22	2.6	3.3	3.0	5.5	4.7	7.3	23	9.0	5.5	3.0	3.3	2.8
23	2.6	3.3	3.0	4.7	4.7	7.3	24	9.0	5.5	3.0	3.3	2.5
24	2.4	3.3	3.0	4.3	5.1	6.8	22	8.4	5.5	3.3	3.3	2.5
25	2.4	3.3	3.0	4.0	6.0	6.8	21	7.8	5.1	3.3	3.3	2.5
26	2.4	3.7	3.0	3.7	5.5	7.3	22	7.8	5.1	3.3	3.3	2.8
27	3.0	3.7	3.7	3.7	6.0	7.8	22	7.8	5.1	3.3	3.3	2.8
28	3.0	3.0	3.0	4.0	5.5	7.8	20	7.8	5.1	3.3	3.3	2.8
29	3.0	2.8	3.0	4.0		10	19	7.8	5.1	3.3	3.3	2.8
30	3.0	2.8	3.3	4.3		10	17	7.8	5.1	3.7	3.3	2.8
31	3.0		3.3	4.3		9.5		7.8		3.7	3.3	
	89.2	100.5	96.4	143.7	146.9	214.4	513.5	315.5	192.8	105.4	97.8	89.9
MEAN	2.88	3.35	3.11	4.64	5.25	6.92	17.1	10.2	6.43	3.40	3.15	3.00
ACRE-FEET	177.	199.	191.	285.	291.	425.	1,020	626.	382.	209.	194	178

Remarks:

YEAR OR PERIOD MEAN 5.77
ACRE-FEET 4,180.

STATION U6-R

ROGERS CREEK above Mouth of Canyon

LOCATION: WATER-STAGE RECORDER, LAT. 34°09'55", LONG. 117°54'20", IN NW 1/4 NW 1/4 SEC. 23, T. 1 N., R. 10 W., 0.5 MILE UPSTREAM FROM MOUTH AND 2.5 MILES NORTH OF AZUSA. ALTITUDE OF GAGE ABOUT 800 FEET.

DRAINAGE AREA: 6.4 SQUARE MILES.

RECORDS AVAILABLE: MAY 1916 TO JUNE 1917 (DISCHARGE MEASUREMENTS ONLY). OCTOBER 1917 TO SEPTEMBER 1949.

AVERAGE DISCHARGE: 31 YEARS, 3.31 SECOND-FEET.
32 " 3.22 " "

EXTREMES OF DISCHARGE:
1947-1948
MAXIMUM DISCHARGE 13 SECOND-FEET, APRIL 29. (GAGE HEIGHT 3.01 FEET).
NO FLOW SEVERAL PERIODS.
1948-1949
MAXIMUM DISCHARGE 22 SECOND FEET, JANUARY 20. (GAGE HEIGHT 3.22 FEET).
NO FLOW DURING SEVERAL PERIODS.
1917-1949
MAXIMUM DISCHARGE ABOUT 2,600 SECOND-FEET, APRIL 7, 1926. NO FLOW DURING PART OF EACH YEAR.

REMARKS: RECORDS GOOD. ONE SMALL DIVERSION ABOVE STATION FOR IRRIGATION.

COOPERATION: RECORDS FURNISHED BY THE UNITED STATES GEOLOGICAL SURVEY, WITH THE EXCEPTION OF 13 DISCHARGE MEASUREMENTS FURNISHED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

DISCHARGE MEASUREMENTS OF ROGERS CREEK

~~AT~~ NEAR above Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	D. HT. CHANGE TOTAL	METER NO.
1419	11-3		U.S.G.S.	1.1	0.19	0.09	2.30	0.017		.5	6	0	
1420	11-12		"	1.0	0.19	0.11	2.31	0.021		.5	5	-.01	
1421	12-1		"	0.5	0.10	0.84	2.44	0.084		.6	2	0	
1422	12-5		"	4.5	1.16	1.91	2.76	2.21		.6	15	0	
1423	12-10		"	1.0	0.36	0.92	2.47	0.33		6	4	0	
1424	12-15		"	1.0	0.36	0.78	2.46	0.28		.6	4	0	
1425	12-23		"	1.0	0.36	0.72	2.46	0.26		.6	4	0	
1426	12-26	1357 / 1359	MOON	1.0	0.38	0.63	2.46	0.24		.5	2	0	FC22
1427	12-30		U.S.G.S.	1.0	0.34	0.56	2.42	0.19		.6	4	0	
1428	1-8		"	1.0	0.36	0.50	2.42	0.18		.6	4	0	
1429	1-16		"	1.0	0.30	0.30	2.36	0.09		.6	4	0	
1430	1-21		"	1.0	0.33	0.42	2.40	0.14		.6	4	0	
1431	1-26		"	1.0	0.28	0.32	2.40	0.09		.5	2	0	
1432	1-29	1415 / 1418	MOON	1.0	0.29	0.48	2.40	0.14		.5	2	0	FC22
1433	2-2		U.S.G.S.	1.0	0.30	0.60	2.41	0.18		.6	4	0	
1434	2-6		"	13.6	4.39	0.76	2.72	3.32		.5	13	0	
1435	2-6	1600 / 1605	MOON MIRANDA	4.0	1.76	1.65	2.73	2.9		.5	4	0	FC22
1436	2-10		U.S.G.S.	3.0	0.59	1.02	2.53	0.60		.5	6	0	
1437	2-18		"	1.0	0.41	0.22	2.38	0.091		.6	4	0	
1438	2-25		"	1.3	0.08	0.38	2.40	0.03		.5	3	0	
1439	2-26	1445 / 1447	MOON	1.0	0.50	0.32	2.43	0.16		.5	2	0	FC22
1440	3-1		U.S.G.S.	1.0	0.52	0.52	2.45	0.27		.6	4	0	
1441	3-9		"	1.6	0.19	0.89	2.44	0.17		.5	4	0	
1442	3-17	1520 / 1530	MOON	3.5	1.29	1.47	2.66	1.9		.5	6	0	FC22
1443	3-17		U.S.G.S.	3.3	1.03	1.99	2.66	2.05		.6	13	0	
1444	3-23		"	1.3	0.26	1.19	2.46	0.31		.5	4	0	
1445	3-25		"	7.4	3.90	0.58	2.67	2.25		.6	9	0	
1446	4-1		"	1.0	0.49	0.67	2.47	0.33		.6	4	0	
1447	4-1	1520 / 1524	MOON	1.0	0.52	0.60	2.46	0.31		.5	2	0	FC22
1448	4-5		U.S.G.S.	2.7	0.79	2.08	2.63	1.64		.5 / .6	5	0	
1449	4-13		"	1.0	0.49	2.20	2.58	1.08		.6	4	0	
1449A	4-22		"	2.3	0.37	0.68	2.49	0.25		.5	5	0	
1450	4-27		"	1.0	0.36	0.47	2.43	0.17		.6	4	0	
1451	4-29	1435 / 1452	MOON	3.0	1.25	1.92	2.71	2.4		.5	4	0	FC22
1452	5-3		U.S.G.S.	1.0	0.48	1.33	2.53	0.64		.6	4	0	
1452A	5-11		"	1.1	0.21	1.14	2.45	0.24		.5	3	0	
1453	5-18		"	0.5	0.13	0.29	2.34	0.038		.6	2	0	
1454	5-24		"	1.0	0.16	0.75	2.38	0.12		.5	2	0	
1455	5-27	1412 / 1414	MOON	0.70	0.24	0.42	2.37	0.10		.5	2	0	FC22
1456	6-1		U.S.G.S.	1.0	0.13	0.58	2.37	0.076		.5	4	0	
1457	6-18		"	0.5	0.059	0.20	2.27	0.013		.5	4	0	

DISCHARGE MEASUREMENTS OF ROGERS CREEK

~~AT~~ NEAR above Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	D. HT. CHANGE TOTAL	METER NO.
1458	12-21		U.S.G.S.	1.6	0.30	0.63	2.41	0.19		.5	4	0	
1459	1-4		"	1.6	.39	.28	2.42	.11		.5	4	0	
1460	1-17		"	1.6	.54	1.06	2.52	.57		.5 / .6	4	0	
1461	1-20		"	9.8	8.4	1.79	3.09	15.0		.6	11	-.02	
1462	2-2		"	1.6	.59	1.07	2.53	.63		.5 / .6	5	0	
1463	2-12		"	5.9	2.69	.77	2.68	2.06		.6	20	-.01	
1464	2-17		"	1.5	.59	1.32	2.56	.78		.5 / .6	5	0	
1465	2-24	0907 / 0910	MOON	1.5	.58	.97	2.51	.56		.5	3	0	FC22
1466	3-1		U.S.G.S.	8.8	4.89	.55	2.68	2.67		.5 / .6	22	0	
1467	3-8		"	3.0	1.44	1.57	2.67	2.26		.5	6	0	
1468	3-11	1455 / 1506	HAIG	9.1	4.61	.84	2.75	3.9		.6	7	0	FC42
1469	3-16		U.S.G.S.	5.8	2.47	.76	2.64	1.88		.5 / .6	20	0	
1470	3-22		"	3.0	1.09	1.13	2.60	1.23		.5	6	0	
1471	3-24	1607 / 1612	MOON	3.0	.85	1.18	2.59	1.0		.5	4	0	FC22
1472	4-1		U.S.G.S.	3.0	.85	.96	2.55	.81		.5	15	0	
1473	4-7		"	2.9	.74	.53	2.51	.49		.5 / .6	7	0	
1474	4-14		"	2.9	.72	.60	2.48	.43		.5	14	0	
1475	4-27		"	.9	.18	1.02	2.42	.19		.5	5	0	
1476	4-28	1112 / 1114	MOON	.8	.16	.88	2.43	.14		.5	2	0	FC22
1477	5-2		U.S.G.S.	.9	.16	.48	2.37	.077		.5	4	0	
1478	5-9		"	.55	.043	.72	2.38	.031		.5	5	0	
1479	5-18		"	0.95	0.35	1.32	2.50	0.46		.5	9	0	
1480	5-23		"	.90	.18	.32	2.38	.059		.5	9	0	
1481	5-25	0840 / 0842	MOON	.80	.10	.40	2.37	.04		FLOATS	1	0	
1482	6-1		U.S.G.S.	.70	.15	.61	2.40	.092		.5	7	0	

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U8-R

Daily discharge, in second-feet of ROGERS CREEK above Mouth of Canyon for the year ending September 30, 19 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.01	0.03	0.1	0.2	0.3	0.3	1.0	0.1	0	0	0
2	0	0.01	0.03	0.06	0.2	0.3	0.3	0.8	0.2	0	0	0
3	0	0.01	0.03	0.06	0.2	0.2	3.8	0.5	0.2	0	0	0
4	0	0.02	0.1	0.06	0.1	0.2	3.1	0.3	0.1	0	0	0
5	0	0.02	2.2	0.1	4.4	0.2	1.8	0.3	0.1	0	0	0
6	0	0.02	1.3	0.1	2.9	0.2	2.2	0.2	0.04	0	0	0
7	0	0.02	0.6	0.2	1.8	0.2	1.5	0.2	0.04	0	0	0
8	0	0.02	0.5	0.2	1.1	0.2	1.2	0.3	0.04	0	0	0
9	0	0.02	0.4	0.2	0.7	0.2	1.1	0.2	0.04	0	0	0
10	0	0.02	0.3	0.2	0.6	0.2	1.3	0.2	0.04	0	0	0
11	0	0.02	0.3	0.1	0.5	0.04	1.5	0.2	0	0	0	0
12	0	0.02	0.3	0.04	0.4	0.04	1.3	0.2	0	0	0	0
13	0	0.02	0.3	0.04	0.3	0.6	1.1	0.1	0.01	0	0	0
14	0	0.02	0.3	0.04	0.1	2.8	0.9	0.1	0.01	0	0	0
15	0	0.02	0.1	0.08	0.1	2.7	0.7	0.03	0.01	0	0	0
16	0	0.1	0.05	0.08	0.06	1.3	0.7	0.03	0.01	0	0	0
17	0	0.1	0.05	0.1	0.06	1.7	0.6	0.03	0.01	0	0	0
18	0	0.05	0.05	0.1	0.1	1.1	0.5	0.06	0.01	0	0	0
19	0	0.05	0.1	0.1	0.1	1.0	0.3	0.06	0	0	0	0
20	0	0.05	0.2	0.1	0.1	1.1	0.3	0.08	0	0	0	0
21	0	0.02	0.2	0.1	0.1	0.8	0.3	0.08	0	0	0	0
22	0	0.02	0.2	0.1	0.1	0.6	0.3	0.08	0.03	0	0	0
23	0	0.02	0.2	0.07	0.1	0.3	0.3	0.08	0.03	0	0	0
24	0	0.02	0.2	0.07	0.05	3.0	0.2	0.08	0.03	0	0	0
25	0	0.02	0.2	0.07	0.05	2.9	0.2	0.08	0.03	0	0	0
26	0	0.03	0.2	0.07	0.05	1.5	0.2	0.08	0.02	0	0	0
27	0	0.03	0.2	0.1	0.1	1.2	0.2	0.1	0.02	0	0	0
28	0	0.03	0.2	0.1	0.2	0.9	0.3	0.1	0.02	0	0	0
29	0	0.03	0.2	0.1	0.3	0.8	4.9	0.07	0	0	0	0
30	0.01	0.03	0.2	0.2		0.8	1.3	0.07	0	0	0	0
31	0.01		0.2	0.2		0.5		0.07		0	0	
	0.02	0.87	9.44	3.24	15.07	27.88	32.70	5.78	1.14	0	0	0
MEAN	0.001	.029	.305	.105	.520	.899	1.09	.186	.038	0	0	0
ACRE-FEET	0.04	1.7	19	6.4	30	55	65	11	2.3	0	0	0

Remarks:

YEAR OR PERIOD MEAN 0.263
ACRE-FEET 190

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U8-R

Daily discharge, in second-feet of Rogers Creek above Mouth of Canyon for the year ending September 30, 19 49

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0.1	0.7	2.7	0.8	0.1	0.1	0	0	0
2	0	0	0	0.1	0.6	2.3	0.7	0.1	0.1	0	0	0
3	0	0	0	0.1	0.8	2.3	0.7	0.1	0.02	0	0	0
4	0	0	0	0.1	0.7	3.2	0.6	0.1	0.02	0	0	0
5	0	0	0	0.2	0.6	4.6	0.5	0.1	0.02	0	0	0
6	0	0	0	0.2	0.5	3.1	0.5	0.1	0.02	0	0	0
7	0	0	0	0.2	1.0	2.9	0.5	0.03	0	0	0	0
8	0	0	0	0.2	1.1	2.3	0.5	0.03	0	0	0	0
9	0	0	0	0.3	0.7	2.0	0.5	0.03	0	0	0	0
10	0	0	0	0.3	0.7	2.0	0.4	0.03	0	0	0	0
11	0	0	0	0.4	1.4	4.8	0.4	0.03	0	0	0	0
12	0	0	0	0.4	2.0	3.1	0.4	0.03	0	0	0	0
13	0	0	0	0.8	1.4	2.5	0.4	0.03	0	0	0	0
14	0	0	0	1.3	1.2	2.3	0.4	0.1	0	0	0	0
15	0	0	0	1.0	1.1	2.2	0.4	0.1	0	0	0	0
16	0	0	0	0.7	1.0	1.8	0.4	0.1	0	0	0	0
17	0	0	0.2	0.5	0.9	1.5	0.4	0.1	0	0	0	0
18	0	0	0.7	0.5	0.8	1.4	0.5	0.5	0	0	0	0
19	0	0	0.3	0.7	0.7	1.5	0.5	0.7	0	0	0	0
20	0	0	0.2	1.2	0.7	1.8	0.5	0.5	0	0	0	0
21	0	0	0.2	3.9	0.7	1.4	0.4	0.2	0	0	0	0
22	0	0	0.3	3.1	0.7	1.3	0.3	0.1	0	0	0	0
23	0	0	0.4	3.4	0.6	1.2	0.3	0.1	0	0	0	0
24	0	0	0.3	2.3	1.3	1.0	0.3	0.1	0	0	0	0
25	0	0	0.2	1.8	2.5	0.9	0.2	0.03	0	0	0	0
26	0	0	0.3	1.4	2.1	0.6	0.1	0.03	0	0	0	0
27	0	0	1.8	1.2	4.8	0.8	0.2	0.03	0	0	0	0
28	0	0	0.7	1.0	3.4	0.8	0.1	0.1	0	0	0	0
29	0	0	0.3	0.9		0.8	0.1	0.1	0	0	0	0
30	0	0	0.2	0.7		0.8	0.1	0.1	0	0	0	0
31	0		0.2	0.7		0.8		0.1		0	0	
	0	0	6.3	40.5	34.7	60.9	12.1	3.90	0.28	0	0	0
MEAN	0	0	0.20	1.31	1.24	1.96	0.40	0.126	0.009	0	0	0
ACRE-FEET	0	0	12.	80.	69.	121.	24.	7.7	0.6	0	0	0

Remarks:

YEAR OR PERIOD MEAN 0.435
ACRE-FEET 314.

STATION F82C-R
RUBIO WASH at Glendon Way

LOCATION: WATER-STAGE RECORDER, LAT. 34°04'27", LONG. 118°04'35", ON THE LEFT (EAST) SIDE OF CHANNEL 10 FEET SOUTH OF THE WESTERLY EXTENSION OF GLENDON WAY, ROSEMEAD. ELEVATION OF ZERO GAGE HEIGHT, 274.06 FEET.

DRAINAGE AREA: 13.4 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - RECTANGULAR CONCRETE 48.1 FT. WIDE X 10.5 FT. DEEP TO BOTTOM OF 0.5 FT. INVERT WITH 0.5 FT. FILLETTS 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, 1947 TO SEPTEMBER 30, 1949.

REGULATION: FLOW PARTIALLY REGULATED BY LAS FLORES AND RUBIO DEBRIS BASINS.

DIVERSIONS: NONE.

RECORDS AVAILABLE: NOVEMBER 6, 1936 TO SEPTEMBER 30, 1949. FOR PREVIOUS RECORDS ON RUBIO WASH SEE STATIONS F82-R, F107-R, F82B-R, IN PREVIOUS REPORTS.

EXTREMES OF DISCHARGE:

1947-1948
MAXIMUM 2090 SECOND-FEET, MARCH 24.
MINIMUM NO FLOW PART OF YEAR.

1948-1949
MAXIMUM 530 SECOND-FEET, OCTOBER 30.
MINIMUM NO FLOW PART OF YEAR.

1930-1949 (STATIONS F82-R, F82B-R, F82C-R)
MAXIMUM 2,780 SECOND-FEET, MARCH 4, 1943.
MINIMUM NO FLOW AT TIMES EACH YEAR.

ACCURACY: GOOD.

OPERATION: LOCATED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT. THE STILLING WELL AND COMMUNICATION CHANNEL WERE CONSTRUCTED BY THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY.

F. C. Dist. Form 82 4-48

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, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	0	6.8	+	0	+	+	+	3.9			
2	+	0	+	0.1	0	0.1	2.0	+	5.2			
3	+	0	+	0.1	0	0.1	10.4	+	0.1			
4	+	0	6.2	0.1	+	+	+	+	+			
5	+	0	4.4	0.2	9.1	0	1.7	+	+			Recorder stopped for summer
6	+	0	1.3	0.1	21	+	2.3	+	+			
7	+	0	0	+	+	+	+	0.1	0.1			
8	+	0	0	+	0	0.1	+	0.1	0.1			
9	0.2	0	0.1	+	0	0.1	+	0.1	+			
10	0.6	0	0.1	+	0	+	18.8	0.1	+			
11	0.2	0	0.1	+	0	+	+	0.1	+	Recorder stopped for summer	Recorder stopped for summer	
12	0.2	0	+	+	0	+	0	+	+			
13	+	0	+	+	0	4.4	0	+	+			
14	+	0.1	+	+	0	9.3	0	+	+			
15	0	0.2	+	+	0	0.1	0	+	+			0
16	0	0.2	0	+	0	2.6	+	+	+			0.2
17	0	0.2	+	+	0.1	27	+	0.1				0.2
18	0	0.2	0	0.1	0.2	+	+	0.1				0.2
19	0	0.2	0.1	+	0.2	5.9	+	+				0.2
20	0	0.2	0	+	0.2	+	+	+				0.2
21	+	0.2	0	0	0.1	0	0.1	+	Recorder stopped for summer	Recorder stopped for summer		0.2
22	0.1	3.4	0	0.1	0.1	+	0.2	+				0.2
23	0	0.1	0	+	+	+	0.2	+				0.2
24	0	0	0	+	+	0.9	+	0.1				0.2
25	0	0	0	0	0.1	+	+	0.1				0.2
26	0	0	+	+	0.1	+	+	0.1				0.2
27	0	0	+	+	0.1	+	+	0.1				0.2
28	0	0	+	0	2.3	0	6.9	0.1		+		0.2
29	0	0.1	+	0	0.2	+	7.1	0.1				0.2
30	+	0	0.2	0		+	0.1	0.1				1.0
31	+		0.1	0		+		0.1				
	1.3	5.1	114.8	0.8	115.7	178.3	111.9	1.5	9.4			4.0
MEAN	.042	0.17	3.70	.026	3.99	5.75	3.73	.048	0.31			0.13
ACRE-FEET	2.6	10.	228.	1.6	229.	354.	222.	3.0	18.6			7.9

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

YEAR OR PERIOD MEAN 1.48
ACRE-FEET 1,080

F. C. Dist. Form 33 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

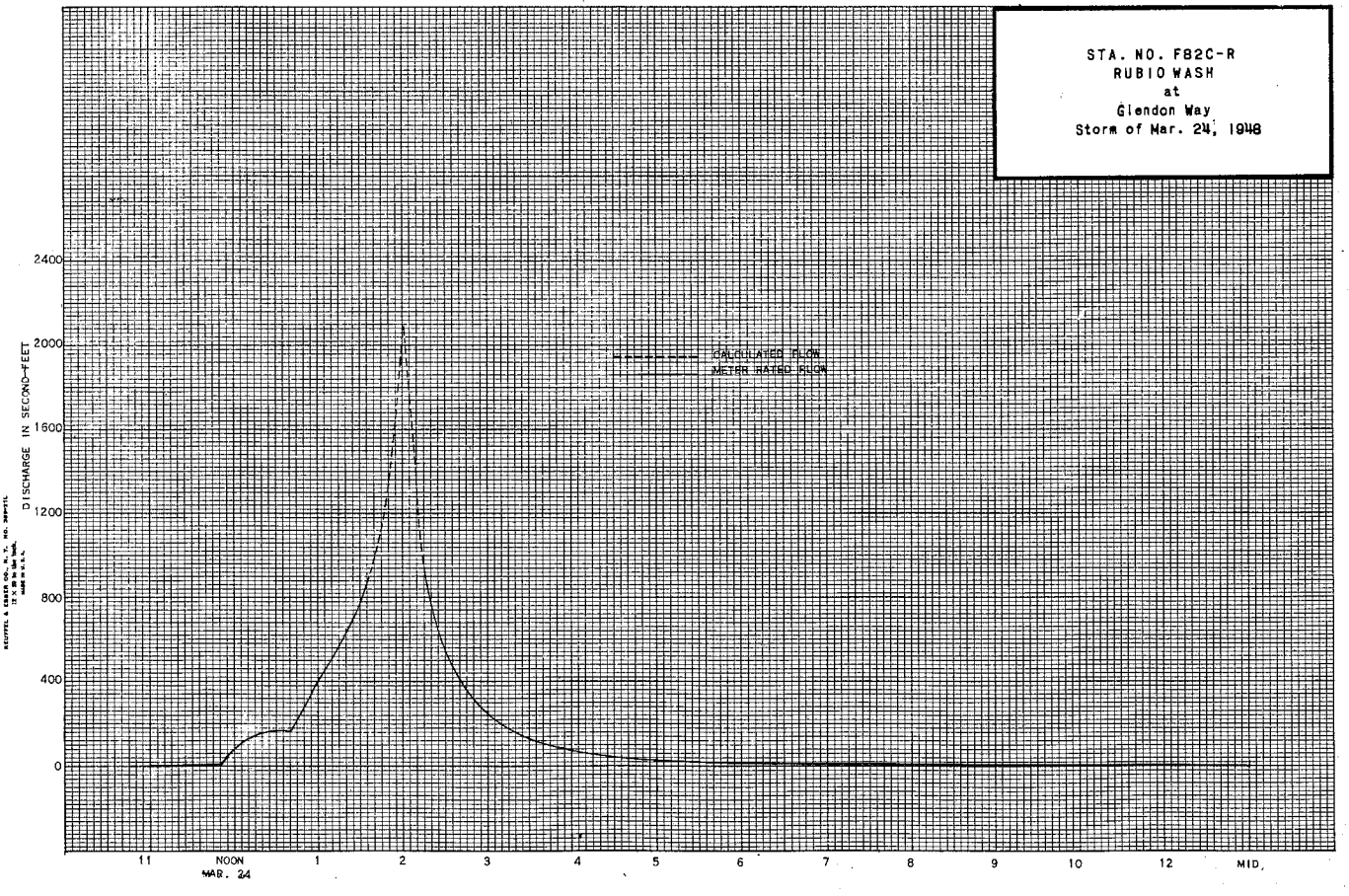
Sta. No. F82C-R

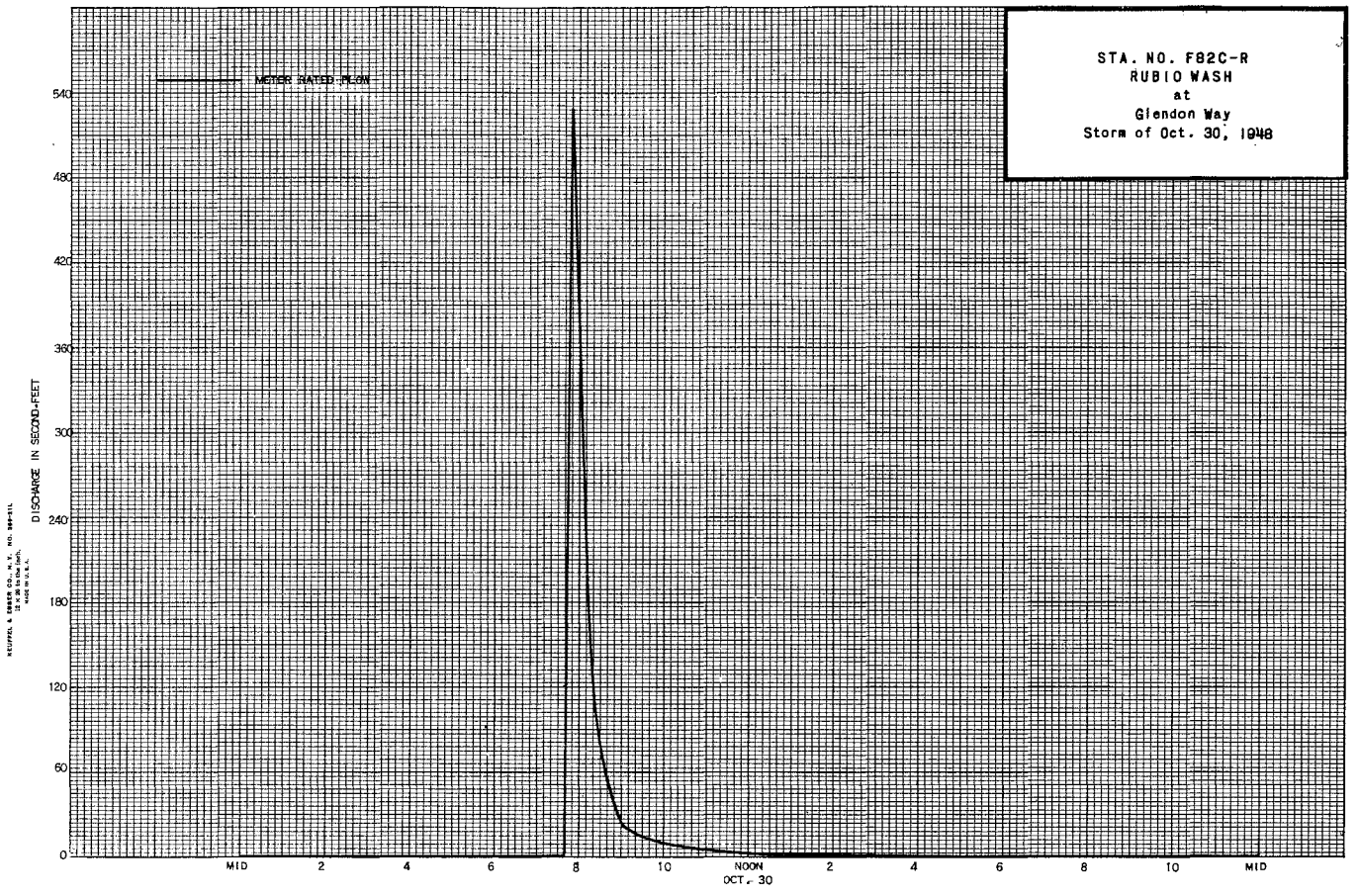
Daily discharge, in second-feet of RUBIO WASH at Glendon Way for the year ending September 30, 19 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	+	0.1	0	+	0.1	+				
2	+	+	+	+	+	+	0.1	0.1				
3	+	0.1	10.6	0	9.1	+	0.1	0.1				
4	+	+	0.6	+	+	2.5	0.1	+				
5	+	+	0.1	0.6	0.2	0.1	+	+				
6	+	+	+	0.1	0	+	+	+				
7	+	+	+	+	17.1	2.4	+	0				
8	+	+	+	0.1	0.2	+	0.1	+				+
9	+	+	+	4.7	0.1	+	0.1	+				0.2
10	+	+	0.1	1.0	+	2.2	+	+				0.6
11	0	+	0.4	23	17.7	24	+	+				1.0
12	0	+	0.2	14.2	0.2	+	+	0.1				1.9
13	+	+	+	9.8	+	+	+	0.1				1.9
14	+	+	0.2	3.2	0	+	+	0.2				2.5
15	+	0.1	+	+	0.1	+	+	0.2				2.5
16	0	0.1	4.1	0	+	+	+	0.2				3.6
17	0.1	0.2	59	0	0	+	+	7.1				2.5
18	1.2	0.1	+	0	+	+	0.2	10.0				1.9
19	+	0.2	0	32	+	5.1	0.2	19.9				1.9
20	0	0.2	0	35	+	+	0.1	0.1				1.4
21	0	0.2	0	0.1	+	0	+	+				0.6
22	0	0.1	8.6	16.1	+	0	+	+				0.4
23	0	0.1	0.1	2.6	0.1	+	+	0				0.4
24	0.6	0.1	+	0.2	16.6	0.6	0.1	+				0.4
25	2.0	0.1	+	+	0.2	0.2	0.1	0				0.2
26	0.2	0.2	35	0	32	0.1	0.1	+		+		0.2
27	0.2	+	22	0	3.3	0.2	0.1	+				0.2
28	0.2	+	0.2	+	0.1	0.2	0.1	+	+			+
29	0.2	0.1	0.2	+		0.2	0.1	+				+
30	11.7	0.1	+	0		0.2	0.1	+				+
31	0.1		0.1	0		0.2		+				+
	165	20	141.5	142.8	97.0	80.5	1.8	38.1	+	+	+	24.3
MEAN	0.53	.067	4.56	4.61	3.46	2.60	0.06	1.23	+	+	+	0.81
ACRE-FEET	33.	4.0	281.	283.	192.	160.	3.6	76.	+	+	+	48.

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

YEAR OR PERIOD MEAN 1.49 ACRE-FEET 1080.





STATION U15-R
SAN ANTONIO CREEK below Edison Company Power Plant Diversion

LOCATION: WATER-STAGE RECORDER AND BROAD-CRESTED WEIR CONTROL, LAT. 34°12'50", LONG. 117°40'00", IN NW 1/4 SE 1/4 SEC. 36 T. 2N., R. 8W. 0.5 MILE UPSTREAM FROM SOUTHERN CALIFORNIA EDISON COMPANY'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 1949.

AVERAGE DISCHARGE: 31 YEARS (1917-48), 11.1 SECOND-FEET, AVERAGE COMBINED DISCHARGE OF CREEK AND CONDUIT; 31 YEARS (1917-48), 24.6 SECOND-FEET; 32 YEARS (1917-49), 10.8 SECOND-FEET. AVERAGED COMBINED DISCHARGE OF CREEK AND CONDUIT, 32 YEARS (1917-49), 23.7 SECOND-FEET.

EXTREMES OF DISCHARGE:

1947-1948
MAXIMUM DISCHARGE DURING YEAR, 20 SECOND-FEET, APRIL 28. (GAGE HEIGHT 1.59 FEET).
MINIMUM 0.2 SECOND-FOOT, AUGUST 30 TO SEPTEMBER 15.

1948-1949
MAXIMUM DISCHARGE DURING YEAR 10 SECOND-FEET, APRIL 20. (GAGE HEIGHT 1.32 FEET).
MINIMUM 0.1 SECOND-FOOT, SEVERAL DAYS IN AUGUST AND SEPTEMBER.

1917-1949
MAXIMUM DISCHARGE, 7,900 SECOND-FEET, MARCH 2, 1938. (REVISED BY HYDROLOGIC STUDIES).
MINIMUM LESS THAN 0.1 SECOND-FOOT SEVERAL DAYS IN OCTOBER 1934.

REMARKS: RECORDS FAIR. SOUTHERN CALIFORNIA EDISON COMPANY'S CONDUIT DIVERTS WATER ABOVE STATION AND COMBINED FLOW IS PUBLISHED HEREWITH.

COOPERATION: RECORDS FURNISHED BY THE UNITED STATES GEOLOGICAL SURVEY.

REVISIONS: FIGURES OF DISCHARGE OF SAN ANTONIO CREEK AND SOUTHERN CALIFORNIA EDISON COMPANY'S CONDUIT HAVE BEEN REVISED FOR THE PERIOD MAR. 2 TO APR. 23, 1938. REVISED MAXIMUM DISCHARGE SHOWN.

DISCHARGE MEASUREMENTS OF SAN ANTONIO CREEK

~~AT~~ NEAR above Edison Company Power Plant DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1113	10-1	1410 / 1420	BREWSTER	2.0	0.91	0.71	0.80	0.65		.6	4	0	FC12
1114	10-7		U.S.G.S.	2.0	0.91	0.74	0.78	0.67		.6	4	0	
1115	10-22		"	2.0	0.91	0.80	0.78	0.73		.6	4	0	
1116	11-4		"	2.0	0.89	0.75	0.80	0.67		.6	4	0	
1117	11-17		"	2.0	0.92	0.86	0.78	0.79		.5 .6	4	0	
1118	12-3		"	2.0	0.96	1.49	0.82	1.43		.6	4	0	
1119	12-15		"	2.0	0.99	0.82	0.77	0.81		.6	4	0	
1120	12-30		"	2.0	0.69	1.19	0.78	0.82		.5 .6	4	0	
1121	1-12		"	2.0	0.83	0.99	0.77	0.82		.5 .6	4	0	
1122	1-26		"	2.0	0.82	0.88	0.84	0.72		.5 .6	4	0	
1123	2-9		"	2.0	0.82	0.96	0.78	0.79		.5 .6	4	0	
1124	2-24		"	2.0	0.82	1.05	0.68	0.86		.5 .6	4	-.01	
1125	3-8		"	2.0	0.75	0.99	0.72	0.74		.5 .6	4	0	
1126	3-22		"	2.0	0.82	1.11	0.68	0.91		.5	4	0	
1127	4-5		"	CHANNELS			0.90	1.82		.6	4	0	
1128	4-19		"	CHANNELS			0.80	0.98		.5	4	0	
1129	5-3		"	CHANNELS			0.79	1.50		.6	5	0	
1130	5-25		"	1.6	0.56	1.16	0.75	0.65		.5 .6	4	0	
1131	6-16		"	1.5	0.49	1.24	0.72	0.61		.5	3	0	
1132	6-29		"	1.5	0.44	1.23	0.71	0.54		.5	3	0	
1133	7-12		"	1.6	0.48	1.08	0.74	0.52		.5	6	0	
1134	7-27		"	1.3	0.45	0.80	0.69	0.36		.5	4	0	
1135	8-16		"	1.6	0.52	0.77	0.69	0.40		.5 .6	4	0	
1136	8-30		"	1.5	0.55	0.58	0.68	0.32		.5 .6	5	0	
1137	7-17		"	1.5	0.53	0.70	0.68	0.37		.5 .6	5	0	

DISCHARGE MEASUREMENTS OF SAN ANTONIO CREEK

~~AT~~ NEAR above Edison Company Power Plant DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1138	10-11		U.S.G.S.	1.6	.52	.69	.69	.36		.5 .6	4	0	
1139	10-27		"	1.7	.66	.62	.71	.41		.5 .6	6	0	
1140	11-15		"	2.2	.53	.90	.69	.48		.5	6	0	
1141	11-29		"	2.2	.44	.73	.73	.32		.5	6	0	
1142	12-13		"	2.4	.41	1.10	.74	.45		.5	6	0	
1143	12-28		"	2.4	.45	1.24	.76	.56		.5	6	0	
1144	1-10		"	2.3	.54	1.02	.73	.55		.5	6	0	
1145	1-28		"	2.0	.52	1.17	.74	.61		.5	5	0	
1146	2-10		"	2.2	.54	1.09	.73	.59		.5	6	0	
1147	2-21		"	2.2	.62	1.19	.79	.74		.5 .6	6	0	
1148	3-7		"	2.0	.62	1.50	.78	.93		.5	5	0	
1149	3-21		"	2.0	.60	1.90	.79	1.14		.5	4	0	
1150	4-4		"	2.0	.45	1.91	.78	.86		.5	4	0	
1151	4-18		"	2.3	.55	1.58	.80	.87		.5	6	0	
1152	5-5		"	2.3	.59	1.12	.75	.66		.5 .6	6	0	
1153	5-16		"	2.0	.53	1.60	.75	.85		.5	5	0	
1154	5-31		"	1.8	.45	1.11	.73	.50		.5	5	0	
1155	6-13		"	2.1	.44	1.02	.71	.45		.5	4	0	
1156	6-27		"	2.1	.40	.95	.70	.38		.5	7	+.01	
1157	7-11		"	2.0	.36	.58	.69	.21		.5	5	0	
1158	7-25		"	1.7	.32	.84	.70	.27		.5	4	0	
1159	8-8		"	1.5	.27	.78	.70	.21		.5	3	0	
1160	8-23		"	1.2	.13	.92	.70	.12		.5	3	0	
1161	9-6		"	1.2	.14	1.07	.70	.15		.5	3	0	
1162	9-19		"	2.0	.30	.60	.70	.18		.5	4	0	

F. C. Dist. Form 82 4-48

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U15-R

Daily discharge, in second-feet of SAN ANTONIO CREEK above Edison Co. Power Plant for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	0.8	1.3	0.9	0.7	0.9	1.2	1.7	0.9	0.7	0.3	0.2
2	0.6	0.7	1.4	0.8	0.8	0.8	1.2	1.3	1.0	0.6	0.3	0.2
3	0.7	0.6	1.4	0.8	0.8	0.8	1.9	1.4	1.0	0.8	0.3	0.2
4	0.6	0.6	1.7	0.7	0.8	0.8	1.8	1.3	0.9	0.6	0.3	0.2
5	0.6	0.6	2.9	0.7	1.4	0.7	1.9	1.3	0.8	0.6	0.3	0.2
6	0.8	0.8	1.4	0.9	1.2	0.7	1.3	1.4	0.9	0.6	0.3	0.2
7	0.7	1.1	1.3	0.9	1.2	0.7	0.8	1.4	0.8	0.6	0.3	0.2
8	0.7	1.0	1.4	0.9	0.9	0.7	0.6	1.3	0.7	0.6	0.3	0.2
9	0.7	0.8	1.1	0.9	0.8	0.7	0.5	1.3	0.7	0.5	0.3	0.2
10	0.8	1.0	1.0	0.9	0.8	0.7	0.5	1.3	0.7	0.5	0.3	0.2
11	0.7	1.0	0.9	0.9	0.8	0.7	0.5	1.2	0.8	0.4	0.4	0.2
12	0.8	1.1	1.0	0.8	0.7	0.7	0.4	1.1	0.8	0.4	0.4	0.2
13	1.0	1.2	1.0	0.8	0.6	0.7	0.4	1.0	0.8	0.5	0.4	0.2
14	0.8	0.9	0.8	0.9	0.6	0.6	0.4	1.0	0.7	0.4	0.4	0.2
15	0.8	0.9	0.8	0.9	0.6	0.6	0.4	0.9	0.7	0.4	0.4	0.2
16	0.8	1.0	0.8	0.9	0.7	0.6	0.4	0.8	0.7	0.4	0.4	0.3
17	0.7	0.8	0.8	0.8	0.7	0.8	0.4	0.8	0.8	0.4	0.4	0.3
18	0.7	0.9	0.8	0.8	0.7	0.7	0.7	0.8	0.7	0.4	0.4	0.4
19	0.6	0.9	0.8	0.7	0.8	0.9	0.9	0.9	0.7	0.5	0.4	0.4
20	0.6	0.9	0.8	0.7	0.8	0.9	1.0	0.9	0.6	0.6	0.4	0.3
21	0.7	1.0	0.8	0.7	0.8	0.9	1.1	0.8	0.6	0.6	0.4	0.3
22	0.7	1.1	0.9	0.6	0.9	0.9	1.0	0.7	0.7	0.4	0.4	0.3
23	0.8	1.3	0.9	0.6	0.9	0.8	1.0	0.7	0.8	0.4	0.4	0.3
24	0.8	1.3	1.0	0.7	0.8	1.4	0.9	0.7	0.7	0.4	0.4	0.3
25	0.8	1.3	1.1	0.7	0.8	1.4	0.8	0.6	0.6	0.3	0.4	0.4
26	0.8	1.0	1.1	0.7	0.9	1.3	0.7	0.6	0.6	0.3	0.4	0.4
27	0.9	1.0	0.8	0.7	1.0	1.2	0.7	0.6	0.7	0.3	0.3	0.4
28	1.0	0.9	0.7	0.8	0.8	1.1	2.0	0.7	0.6	0.3	0.3	0.3
29	1.0	1.1	0.7	0.8	0.9	1.1	2.1	0.7	0.6	0.3	0.3	0.2
30	1.0	1.2	0.8	0.8		1.1	2.0	0.7	0.6	0.3	0.2	0.2
31	1.0		1.1	0.7		1.3		0.8		0.3	0.2	
	23.8	28.8	33.3	24.4	24.2	27.2	29.5	30.7	22.2	14.4	10.7	7.8
MEAN	0.77	0.96	1.07	0.79	0.83	0.88	0.98	0.99	0.74	0.46	0.35	0.26
ACRE-FEET	47	57	66	48	48	54	59	61	44	29	21	15

Remarks:

YEAR OR PERIOD MEAN 0.76
ACRE-FEET 549

F. C. Dist. Form 82 4-48

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No.

Daily discharge, in second-feet of combined SAN ANTONIO CREEK and SO. CALIF. EDISON CO.'S CONDUIT for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.6	9.2	9.1	8.5	8.0	8.7	9.6	17	13	9.4	7.0	6.1
2	9.6	9.1	9.2	8.6	8.1	8.6	9.6	16	14	9.6	7.0	6.1
3	9.7	9.0	9.2	8.6	8.1	8.6	13	15	12	9.8	7.0	6.1
4	9.0	9.0	13	8.5	8.1	8.6	11	15	12	9.6	6.7	6.1
5	9.0	9.0	14	8.5	9.2	8.5	11	15	12	9.3	6.7	6.1
6	9.8	9.2	12	8.7	8.5	8.5	11	15	12	8.8	6.7	6.1
7	9.7	9.5	9.7	8.7	8.5	8.5	10	16	11	9.0	6.7	5.8
8	9.7	9.4	9.8	8.5	8.5	8.5	9.8	16	12	9.0	6.7	5.8
9	9.7	9.2	9.5	8.5	8.9	8.5	9.7	16	12	8.9	6.7	5.8
10	9.8	9.4	10	8.5	8.9	8.5	9.7	16	12	8.9	6.7	5.8
11	10	9.4	9.3	8.5	8.6	8.5	9.7	16	12	8.8	6.8	5.8
12	9.8	9.5	9.4	8.4	8.5	8.5	9.6	16	12	8.5	6.8	5.8
13	10	9.6	9.4	8.4	8.4	8.5	9.6	15	12	8.6	6.8	5.8
14	9.8	9.3	9.2	8.5	8.4	9.0	9.6	15	12	8.5	6.6	5.8
15	9.5	9.3	9.2	8.5	8.4	9.0	8.9	15	12	8.2	6.6	5.8
16	9.8	9.4	8.9	8.5	8.5	9.0	10	15	12	8.2	6.6	5.9
17	9.7	9.2	8.9	8.4	8.5	9.2	10	15	12	8.2	6.6	5.9
18	9.7	9.3	8.9	8.4	8.5	8.8	11	16	11	8.2	6.6	6.0
19	9.0	9.0	8.9	8.3	8.9	9.3	11	16	11	8.1	6.6	6.0
20	9.3	9.0	8.9	8.3	8.9	9.3	12	15	11	8.2	6.6	5.9
21	9.4	9.1	8.9	8.3	8.9	9.3	11	15	11	7.9	6.6	5.9
22	9.4	9.2	9.0	8.2	8.7	9.0	12	15	11	7.7	6.6	5.9
23	9.5	9.4	9.0	8.2	8.7	8.9	12	14	11	7.7	6.6	6.2
24	9.5	9.4	9.1	8.3	8.4	10	12	13	10	7.7	6.6	5.9
25	9.5	9.4	9.1	8.0	8.1	10	12	13	10	7.6	6.6	6.0
26	9.5	9.1	8.7	7.7	8.5	10	12	13	10	7.3	6.6	6.0
27	9.6	8.8	8.6	8.0	8.6	9.9	13	13	9.9	7.3	6.5	6.0
28	9.7	8.7	8.5	8.1	8.6	9.8	14	13	9.8	7.3	6.5	5.9
29	9.4	8.9	8.5	8.1	8.7	9.5	18	12	9.6	7.3	6.5	5.8
30	9.4	9.0	8.4	8.1		9.5	18	13	9.3	7.3	6.1	5.8
31	9.4		8.7	8.0		9.7		13		7.3	6.1	
	296.5	276.0	293.0	258.8	247.6	280.2	339.8	458.0	340.6	258.2	205.8	177.9
MEAN	9.56	9.20	9.45	8.35	8.54	9.04	11.3	14.8	11.4	8.33	6.64	5.93
ACRE-FEET	588	547	581	513	491	556	674	908	676	512	408	353

Remarks:

YEAR OR PERIOD MEAN 9.38
ACRE-FEET 6,810

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U15-R

Daily discharge, in second-feet of San Antonio Creek above Edison Company Power Plant, for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.4	0.3	0.4	0.6	1.1	1.0	0.7	0.6	0.4	0.2	0.2
2	0.2	0.4	0.4	0.4	0.6	1.0	1.0	0.7	0.6	0.4	0.2	0.2
3	0.2	0.4	0.4	0.4	0.6	1.0	0.9	0.7	0.5	0.4	0.2	0.2
4	0.2	0.4	0.4	0.5	0.6	1.0	0.9	0.7	0.5	0.4	0.2	0.2
5	0.3	0.4	0.4	0.4	0.6	1.0	0.9	0.6	0.5	0.4	0.2	0.2
6	0.3	0.4	0.4	0.4	0.6	1.0	0.9	0.6	0.5	0.3	0.2	0.2
7	0.3	0.4	0.4	0.4	0.7	1.0	0.9	0.6	0.5	0.3	0.2	0.1
8	0.3	0.4	0.4	0.5	0.7	0.9	1.0	0.6	0.5	0.3	0.2	0.1
9	0.2	0.4	0.4	0.6	0.7	0.9	1.0	0.6	0.4	0.3	0.2	0.1
10	0.3	0.4	0.4	0.6	0.6	0.9	1.0	0.6	0.4	0.3	0.2	0.1
11	0.4	0.4	0.5	0.6	0.7	1.0	1.0	0.6	0.5	0.2	0.2	0.2
12	0.4	0.4	0.5	0.6	0.8	1.0	1.0	0.6	0.5	0.2	0.2	0.2
13	0.4	0.4	0.5	0.6	0.8	1.0	1.0	0.7	0.5	0.2	0.2	0.2
14	0.4	0.4	0.5	0.6	0.8	1.1	1.1	0.7	0.5	0.2	0.2	0.2
15	0.4	0.5	0.4	0.6	0.7	1.1	1.1	0.8	0.5	0.2	0.2	0.2
16	0.4	0.5	0.4	0.6	0.7	1.1	1.1	0.9	0.4	0.2	0.2	0.2
17	0.4	0.5	0.6	0.5	0.6	1.1	1.0	0.9	0.4	0.2	0.2	0.2
18	0.5	0.4	0.4	0.5	0.6	1.1	1.1	1.0	0.4	0.2	0.2	0.2
19	0.4	0.4	0.4	0.6	0.6	1.1	1.1	1.0	0.4	0.2	0.2	0.2
20	0.5	0.4	0.4	1.3	0.6	1.1	2.3	1.0	0.4	0.2	0.1	0.2
21	0.5	0.4	0.4	1.0	0.8	1.2	1.1	1.1	0.4	0.2	0.1	0.1
22	0.4	0.4	0.4	1.0	0.8	1.2	1.0	1.0	0.3	0.2	0.1	0.1
23	0.4	0.4	0.3	0.9	0.8	1.2	1.0	0.8	0.3	0.3	0.1	0.1
24	0.4	0.4	0.3	0.8	0.9	1.2	0.9	0.7	0.3	0.3	0.1	0.1
25	0.4	0.4	0.4	0.7	1.0	1.1	0.9	0.6	0.3	0.3	0.1	0.1
26	0.4	0.4	0.5	0.7	1.1	1.0	0.9	0.6	0.3	0.3	0.1	0.1
27	0.4	0.3	0.6	0.7	1.2	1.0	0.9	0.6	0.4	0.3	0.2	0.1
28	0.4	0.3	0.6	0.6	1.2	1.0	0.8	0.5	0.5	0.3	0.2	0.1
29	0.4	0.3	0.6	0.6		1.0	0.8	0.6	0.6	0.3	0.2	0.2
30	0.4	0.3	0.5	0.6		1.1	0.8	0.6	0.5	0.3	0.2	0.2
31	0.4		0.5	0.6		1.1		0.6		0.3	0.2	
	11.1	11.9	13.6	19.3	21.0	32.6	31.4	22.3	13.4	8.6	5.5	4.8
MEAN	0.36	0.40	0.44	0.62	0.75	1.05	1.05	0.72	0.45	0.28	0.18	0.16
ACRE-FEET	22.	24.	27.	38.	42.	65.	62.	44.	27.	17.	11.	9.5

Remarks:

YEAR OR PERIOD MEAN 0.54
ACRE-FEET 388.

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No.

Combined
Daily discharge, in second-feet of San Antonio Creek and Southern California Edison Co.'s Conduit, for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.5	5.7	5.3	5.4	5.9	7.5	10	18	13	7.6	5.8	5.2
2	5.5	5.7	5.4	5.4	5.9	7.4	10	19	11	8.1	5.8	5.2
3	5.5	5.7	5.4	5.4	5.9	7.4	10	19	10	7.2	5.8	5.2
4	5.5	5.7	5.4	5.5	5.9	7.4	10	19	12	7.2	5.8	5.2
5	5.6	5.7	5.4	5.4	5.9	8.0	11	18	12	7.8	5.7	5.2
6	5.6	5.7	5.4	5.4	5.9	7.4	11	18	10	7.7	5.7	5.2
7	5.6	5.4	5.4	5.4	6.0	7.4	11	18	10	7.7	5.7	5.1
8	5.6	5.4	5.4	5.5	6.0	7.3	11	18	10	7.7	5.7	5.1
9	5.5	5.4	5.4	5.6	6.0	7.3	11	17	10	7.4	5.7	5.1
10	5.5	5.4	5.4	5.6	5.9	7.6	11	17	10	7.3	5.7	5.1
11	5.7	5.4	5.5	5.6	6.0	8.3	11	17	10	6.8	5.7	5.2
12	5.7	5.4	5.5	5.6	6.7	8.3	11	16	10	6.6	5.7	5.2
13	5.7	5.4	5.5	5.6	6.4	8.3	12	16	10	6.6	5.5	5.2
14	5.7	5.4	5.5	5.6	6.4	8.4	12	16	10	6.6	5.5	5.2
15	5.5	5.5	5.4	5.6	6.3	8.4	12	16	9.4	6.6	5.5	5.2
16	5.7	5.5	5.4	5.6	6.3	8.4	12	16	9.3	6.6	5.5	5.2
17	7.1	5.5	6.5	5.5	6.2	8.7	13	16	9.3	6.6	5.9	5.2
18	6.1	5.4	5.4	5.5	6.2	9.7	13	15	9.0	6.2	5.9	5.2
19	6.0	5.4	5.4	5.6	6.2	9.5	14	16	9.0	6.2	5.9	5.2
20	6.4	5.4	5.4	7.5	6.2	8.7	14	14	8.8	6.2	5.5	5.2
21	6.3	5.4	5.4	6.6	6.4	8.8	13	14	8.7	6.2	5.5	5.1
22	6.2	5.4	5.4	6.6	6.4	9.6	13	13	8.3	6.2	5.5	5.1
23	5.7	5.4	5.3	6.5	6.7	9.6	14	13	8.1	6.3	5.5	5.1
24	5.7	5.4	5.3	6.4	6.8	9.6	16	12	8.1	6.3	5.5	5.1
25	6.0	5.4	5.4	6.0	6.9	9.5	17	13	7.4	6.3	5.5	5.1
26	6.0	5.4	5.5	6.0	7.3	9.4	17	13	8.1	5.9	5.5	5.1
27	6.0	5.3	6.2	6.0	7.6	9.4	17	13	8.4	5.9	5.4	5.1
28	6.0	5.3	5.9	5.9	7.6	9.6	18	12	7.9	5.9	5.4	5.1
29	6.0	5.3	5.6	5.9		9.6	19	13	7.0	5.9	5.4	5.2
30	6.0	5.3	5.5	5.9		9.8	18	12	7.9	5.9	5.4	5.2
31	6.0		5.5	5.9		10		13		5.9	5.2	
	180.9	163.7	170.4	180.0	177.9	265.3	392.0	480.0	282.7	207.4	173.8	154.8
MEAN	5.84	5.46	5.50	5.81	6.35	8.56	13.1	15.5	9.42	6.69	5.61	5.16
ACRE-FEET	359.	325.	338.	357.	353.	526.	7.78	952.	561.	411.	345.	307.

Remarks:

YEAR OR PERIOD MEAN 6.34
ACRE-FEET 5,610

STATION F151-R
SAN ANTONIO CREEK at Mouth of Canyon

LOCATION: WATER-STAGE RECORDER, LAT. 34°09'20", LONG. 117°40'54", ON THE RT. (WEST) BANK, UPSTREAM FROM ALL HEADGATES OF POMONA VALLEY PROTECTIVE ASSOCIATION SPREADING GROUNDS AND ABOUT 4 MILES NORTHEAST OF CLAREMONT. ELEVATION OF ZERO GAGE HEIGHT, 2,081.66 FEET.

DRAINAGE AREA: 26.5 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - GRAVEL AND BOULDERS. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: FLOWS UP TO 300 SECOND-FEET MEASURED BY WADING. NO FACILITIES FOR MEASURING HIGHER FLOW.

RECORDER: INSTALLED FEBRUARY 20, 1931, OVER A 21-INCH DIAMETER CORRUGATED IRON PIPE STILLING WELL. STATION WAS OUT OF SERVICE FROM MARCH 2, 1938 TO MARCH 30, 1938 AND FROM JANUARY 24, 1943 TO JULY 1, 1943. AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: NONE.

DIVERSIONS: THERE ARE DIVERSIONS FOR IRRIGATION AND POWER DEVELOPMENT.

RECORDS AVAILABLE: FEBRUARY 20, 1931 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:
1947-1948
MAXIMUM 17 SECOND-FEET, APRIL 29.
MINIMUM NO FLOW FOR MOST OF YEAR.
1948-1949
NO FLOW FOR ENTIRE YEAR.
1930-1949
MAXIMUM 23,400 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.

DISCHARGE MEASUREMENTS OF SAN ANTONIO CREEK

AT ~~NEAR~~ Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
523	3-24	1525 / 1530	STUNDEN	0.50	0.10	0.80	7.36	0.08		.5	1	0	FC36
524	4-29	1045 / 1050	"	2.0	0.45	0.87	7.42	0.39		.5	4	-.01	"

F. C. Dist. Form 53 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

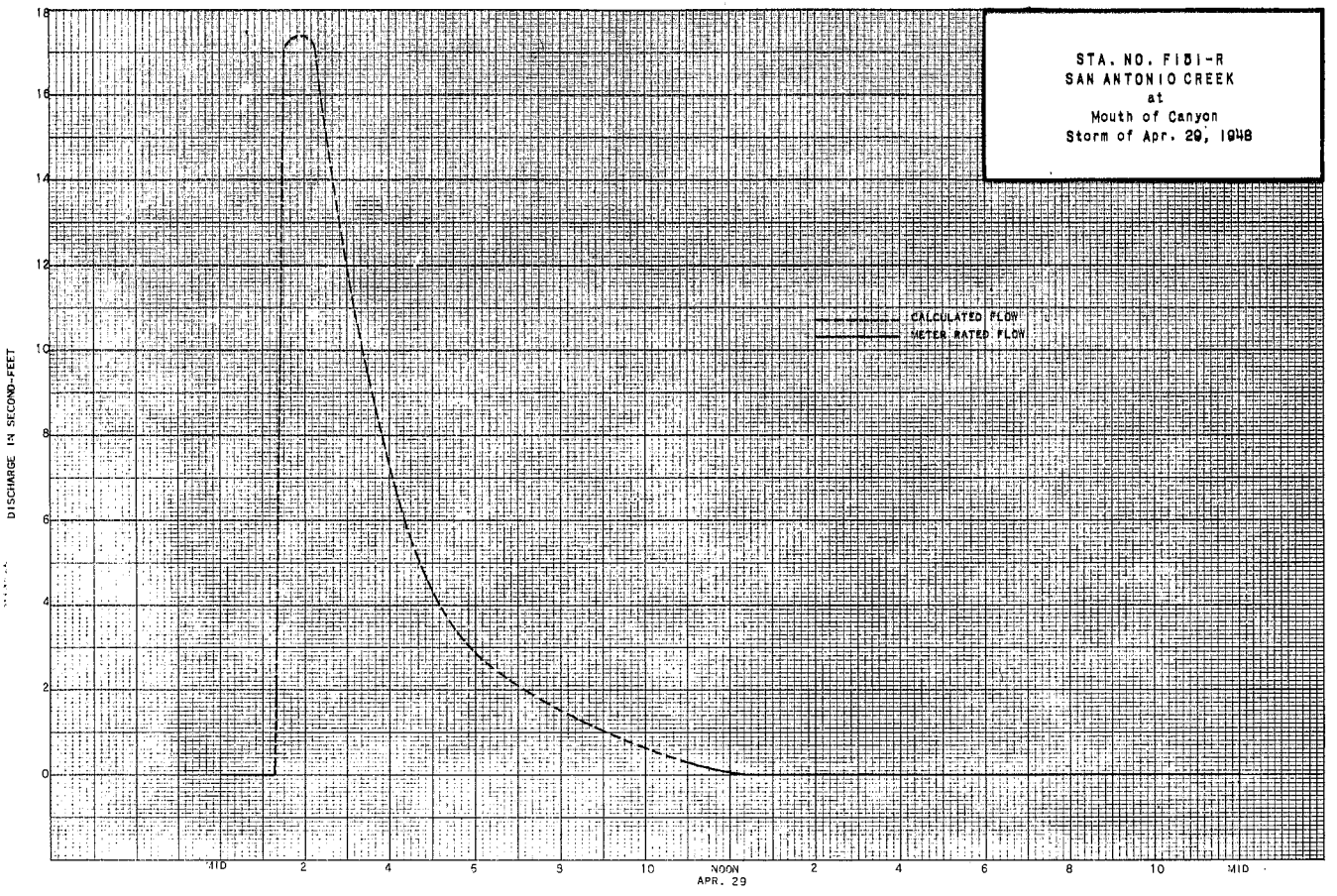
Sta. No. F151-R

Daily discharge, in second-feet of SAN ANTONIO CREEK at Mouth of Canyon for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0.6	0	0	0	0	0
4	0	0	0	0	0	0	0.2	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	+	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	2.2	0	0	0	0	0
31	0		0	0		0	0	0		0	0	
	0	0	0	0	0	+	3.0	0	0	0	0	0
MEAN	0	0	0	0	0	+	0.10	0	0	0	0	0
ACRE-FEET	0	0	0	0	0	+	6.0	0	0	0	0	0

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

YEAR OR PERIOD MEAN .008
ACRE-FEET 6.0



STATION U10-R
SAN DIMAS CREEK at Mouth of Canyon

LOCATION: WATER-STAGE RECORDER AND BROAD-CRESTED WEIR CONTROL, LAT. 34°08'45", LONG. 117°46'35", IN SW 1/4 NE 1/4 SEC. 25, T. 1 N., R. 9 W., AT MOUTH OF SAN DIMAS CANYON, 0.7 MILE DOWNSTREAM FROM FLOOD CONTROL RESERVOIR AND 3 MILES NORTHEAST OF SAN DIMAS. ALTITUDE OF GAGE, ABOUT 1,245 FEET.

DRAINAGE AREA: 18.8 SQUARE MILES.

RECORDS AVAILABLE: APRIL TO SEPTEMBER 1916. (DISCHARGE MEASUREMENTS ONLY). DECEMBER 1916 TO SEPTEMBER 1949.

AVERAGE DISCHARGE: 31 YEARS (1917-48, 4.96 SECOND-FEET.
32 " (1917-49, 4.83 SECOND-FEET.

EXTREMES OF DISCHARGE:

1947-1948
MAXIMUM DISCHARGE, ABOUT 55 SECOND-FEET, JULY 27 (GAGE HEIGHT 0.52 FT.)
MINIMUM DAILY DISCHARGE LESS THAN 0.1 SECOND-FOOT FOR MANY DAYS.

1948-1949
MAXIMUM DISCHARGE 6.5 SECOND-FEET, JANUARY 25. (GAGE HEIGHT 0.56 FT.)
MINIMUM DAILY DISCHARGE, NO FLOW DURING PARTS OF AUGUST AND SEPTEMBER.

1916-1949
MAXIMUM DISCHARGE (REVISED), 5,000 SECOND-FEET MARCH 2, 1938 FROM RECORDS OF RELEASE AT SAN DIMAS FLOOD CONTROL DAM AND COMPUTED INFLOW BETWEEN DAM AND GAGING STATION. NO FLOW FOR SEVERAL MONTHS DURING MOST YEARS.

REMARKS: RECORDS GOOD. FLOW REGULATED BY SAN DIMAS DAM ABOVE STATION. SAN DIMAS WATER COMPANY DIVERTS WATER JUST BELOW GAGE FOR IRRIGATION.

COOPERATION: RECORDS FURNISHED BY THE UNITED STATES GEOLOGICAL SURVEY, 104 MEASUREMENTS FURNISHED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

DISCHARGE MEASUREMENTS OF SAN DIMAS CREEK

AT OR NEAR Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT-ING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1843	10-1	1215 / 1220	BREWSTER	0.5	0.10	0.60	0.01	0.06		.6	1	0	FC12
1844	10-6		U.S.G.S.	0.5	0.07	0.04	-.02	0.003		.5	5	0	
1845	10-8	1255 / 1300	BREWSTER	0.5	0.11	0.36	0.01	0.04		.6	1	0	FC12
1846	10-15	1250 / 1255	"	0.5	0.11	0.45	0.01	0.05		.6	1	0	"
1847	10-22	1300 / 1305	"	0.5	0.11	0.27	0	0.03		.6	1	0	"
1848	10-29	1240 / 1245	"	0.5	0.10	0.20	-.01	0.02		.6	1	0	"
1849	11-3		U.S.G.S.	0.6	0.11	0.14	-.01	0.015		.5	5	0	
1850	11-5	1205 / 1209	BREWSTER	0.5	0.10	0.20	-.02	0.02		.6	1	0	FC12
1851	11-12	1245 / 1250	"	0.5	0.12	0.33	.00	0.04		.6	1	0	"
1852	11-19	1250 / 1255	"	0.5	0.11	0.36	-.01	0.04		.6	1	0	"
1853	11-26	1110 / 1115	"	0.5	0.10	0.20	-.02	0.02		.6	1	0	"
1854	12-1		U.S.G.S.	0.5	0.06	0.68	.00	0.041		.5	2	0	
1855	12-3	1125 / 1130	BREWSTER	0.5	0.11	0.36	.00	0.04		.6	1	0	FC12
1856	12-10	1225 / 1230	"	0.5	0.11	0.55	.00	0.06		.6	1	0	"
1857	12-17	1247 / 1252	"	0.5	0.11	0.82	0.01	0.09		.6	1	0	"
1858	12-23		U.S.G.S.	0.5	0.11	0.52	0.02	0.057		.5	2	0	
1859	12-26	1405 / 1410	BREWSTER	0.5	0.11	0.73	0.01	0.08		.6	1	0	FC12
1860	1-2	1350 / 1355	"	0.5	0.12	0.83	0.01	0.10		.6	1	0	"
1861	1-7	1254 / 1258	"	0.5	0.10	0.70	0.00	0.07		.6	1	0	"
1862	1-14	1425 / 1430	"	0.5	0.2	0.67	0.02	0.08		.6	1	0	"
1863	1-16		U.S.G.S.	0.5	0.09	0.38	0.01	0.034		.5	2	0	
1864	1-21	1325 / 1330	BREWSTER	0.5	0.13	0.77	0.02	0.10		.6	1	0	FC12
1865	1-28	1140 / 1150	STUNDEN - BREWSTER	4.0	1.92	0.99	0.20	1.9		.6	4	0	"
1866	2-3		U.S.G.S.	5.8	2.48	0.68	0.20	1.69		.5 .6	6	0	
1867	2-4	1316 / 1328	BREWSTER - STUNDEN	4.0	2.00	0.85	0.20	1.7		.6	4	0	FC12
1868	2-11	1400 / 1405	BREWSTER	0.5	0.12	0.92	0.03	0.11		.6	1	0	"
1869	2-18	1245 / 1250	STUNDEN - BREWSTER	0.5	0.10	1.00	0.03	0.10		.6	1	0	"
1870	2-25	1305 / 1310	" "	0.5	0.10	0.90	0.03	0.09		.6	1	0	FC36
1871	3-2		U.S.G.S.	1.1	0.14	0.79	0.03	0.11		.5	3	0	
1872	3-3	1300 / 1309	STUNDEN	0.5	0.12	0.58	0.04	0.07		.5	1	0	FC36
1873	3-10	1240 / 1243	"	0.05	0.12	0.75	0.03	0.09		.5	1	0	"
1874	3-17	1205 / 1210	"	0.60	0.16	1.00	0.05	0.16		.5	1	0	"
1875	3-24	1315 / 1320	"	0.60	0.16	1.19	0.05	0.19		.5	1	0	"
1876	3-31	1255 / 1259	"	0.60	0.16	1.12	0.06	0.18		.6	1	0	"
1877	4-6		U.S.G.S.	1.2	0.29	1.24	0.08	0.36		.5	3	0	
1878	4-7	1240 / 1245	STUNDEN	0.60	0.17	1.18	0.07	0.20		.6	1	0	FC36
1879	4-13	1225 / 1230	"	1.1	0.21	0.90	0.07	0.19		.5	2	0	"
1880	4-22	1400 / 1405	"	1.00	0.21	0.76	0.07	0.16		.5	2	0	"
1881	4-29	0920 / 0925	"	1.0	0.23	1.17	0.10	0.27		.5	2	0	"
1882	5-6	1140 / 1145	STUNDEN - SILL	1.0	0.20	0.65	0.12	0.13		.5	2	0	"
1883	5-13	1130 / 1135	STUNDEN	1.0	0.20	0.60	0.11	0.12		.5	2	0	"
1884	5-14	1550 / 1600	STUNDEN	2.2	0.71	2.39	0.32	1.7		.5	5	0	"
1885	5-18		U.S.G.S.	2.5	1.57	1.69	0.29	2.65		.6	10	0	
1886	5-20	1030 / 1040	STUNDEN	2.2	0.65	3.08	0.29	2.0		.5	5	0	FC36
1887	5-24		U.S.G.S.	2.5	1.60	1.66	0.28	2.66		.6	5	0	
1888	5-27	1215 / 1230	STUNDEN	2.5	1.52	1.64	0.28	2.5		.6	5	0	FC36
1889	6-6	1055 / 1105	"	2.5	1.69	1.65	0.32	2.8		.6	5	0	"
1890	6-10	1110 / 1115	"	2.4	1.70	1.64	0.33	2.8		.6	5	0	"
1891	6-16		U.S.G.S.	2.6	1.77	1.71	0.43	3.02		.6	5	0	
1892	6-17	0945 / 0957	STUNDEN - MOON	2.4	1.65	1.58	0.44	2.6		.6	5	0	FC36
1893	6-23	1240 / 1250	STUNDEN - BARON	2.4	1.58	1.71	0.46	2.7		.6	5	0	"
1894	7-1	1135 / 1140	STUNDEN	2.4	1.59	1.70	0.30	2.7		.6	5	0	"
1895	7-6		U.S.G.S.	2.5	1.63	1.77	0.30	2.89		.6	5	0	
1896	7-8	0950 / 0955	STUNDEN	2.4	1.52	1.84	0.29	2.8		.6	5	0	FC36
1897	7-15	1330 / 1335	"	2.4	1.50	1.73	0.28	2.6		.6	5	0	"
1898	7-19		U.S.G.S.	3.5	1.97	1.40	0.30	2.76		.6	7	0	
1899	7-21	1214 / 1220	MOON	3.5	1.93	1.45	0.31	2.8		.6	4	0	"
1900	7-28	1310 / 1315	"	2.4	0.92	4.89	0.44	4.5		.6	5	-.01	"
1901	8-4	1135 / 1145	STUNDEN	2.3	.99	4.75	.44	4.7		.5	5	0	FC36
1902	8-5		U.S.G.S.	6.7	4.08	1.15	0.44	4.70		.6	15	0	
1903	8-9		"	3.7	1.90	1.54	0.36	2.92		.5 .6	10	0	
1904	8-12	1137 / 1146	STUNDEN	2.3	0.84	3.10	0.38	2.6		.5	5	0	FC36
1905	8-19	1150 / 1200	"	2.2	0.81	2.96	0.36	2.4		.5	5	0	"
1906	8-23		U.S.G.S.	5.5	2.79	1.32	0.30	3.67		.6	6	0	
1907	8-25	1330 / 1335	STUNDEN - B. STUNDEN	2.2	0.62	3.06	0.29	1.9		.5	5	0	FC36
1908	9-2	1025 / 1032	STUNDEN	2.2	0.59	2.54	0.28	1.5		.5	5	0	"
1909	9-7	1215 / 1230	"	3.0	1.28	0.94	0.26	1.2		.5	6	0	"
1910	9-8		U.S.G.S.	3.0	1.26	1.38	0.25	1.73		.5 .6	6	0	
1911	9-15	1307 / 1317	STUNDEN	2.1	0.47	2.34	0.23	1.1		.5	5	+.02	FC36
1912	9-21		U.S.G.S.	2.8	0.48	0.35	0.06	0.17		.5	7	0	
1913	9-22	1120 / 1125	STUNDEN	2.0	0.40	0.33	0.05	0.13		.5	4	0	FC36
1914	9-30	1306 / 1310	"	0.6	0.10	0.40	0.02	0.04		.5	1	0	"

DISCHARGE MEASUREMENTS OF SAN DIMAS CREEK

AT OR NEAR Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT-ING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1915	10-6		U.S.G.S.	.6	.11	.45	.03	.047		.5	3	0	
1916	10-7	1300 / 1305	STUNDEN	.6	.09	.22	0	.02		FLOATS	1	0	
1917	10-14	1215 / 1220	"	.6	.09	.11	.02	.01		.5	1	0	FC36
1918	10-18		U.S.G.S.	.6	.11	.27	.02	.03		.6	3	0	
1919	10-21	1205 / 1208	STUNDEN	.5	.10	.30	.005	.03		FLOATS	1	0	
1920	10-28	1415 / 1418	"	.5	.10	.20	.04	.02		"	1	0	
1921	11-4	1417 / 1420	"	.6	.09	.22	.01	.02		"	1	0	
1922	11-9		U.S.G.S.				-.02	.005		EST.			
1923	11-12	1210 / 1212	STUNDEN	.5	.06	.17	0	.01		FLOATS	1	0	
1924	11-19	1255 / 1258	"	.5	.06	.17	0	.01		"	1	0	
1925	11-23		U.S.G.S.				-.02	.005		EST.			
1926	11-26	1425 / 1430	STUNDEN	.5	.07	.29	0	.02		FLOATS	1	0	
1927	12-2	0745 / 0750	"	.5	.07	.29	.02	.02		"	1	0	
1928	12-6		U.S.G.S.	.5	.10	.30	.04	.03		.5	2	0	
1929	12-9	1040 / 1043	STUNDEN	.5	.10	.30	.01	.03		FLOATS	1	0	
1930	12-16	0755 / 0758	"	.5	.09	.33	.02	.03		.5	1	-.01	FC36
1931	12-17	1045 / 1048	"	.5	.12	.50	.07	.06		.5	1	0	"
1932	12-20		U.S.G.S.	.5	.12	.25	.03	.03		.5	2	0	
1933	12-23	1430 / 1433	STUNDEN	.5	.13	.61	.03	.08		.5	1	0	FC36
1934	12-30	1500 / 1505	"	.5	.12	.83	.02	.10		.5	1	0	"
1935	1-3		U.S.G.S.	.6	.17	.24	.03	.043		.5	2	0	
1936	1-6	1050 / 1052	STUNDEN	.5	.15	.53	.05	.08		FLOAT	1	0	
1937	1-13	1205 / 1209	"	.5	.16	.50	.06	.08		.5	1	0	FC36
1938	1-17		U.S.G.S.	.6	.19	.42	.08	.077		.6	2	0	
1939	1-20	1550 / 1555	STUNDEN	.9	.35	.89	.09	.31		.6	2	0	FC36
1940	1-22	1540 / 1546	"	4.5	2.19	2.42	.47	5.3		.5	6	+.01	"
1941	1-26	1410 / 1414	"	.8	.27	1.07	.05	.29		.5	2	0	"
1942	1-31		U.S.G.S.	.8	.24	.79	.04	.19		.6	4	0	
1943	2-3	1236 / 1209	STUNDEN	.6	.20	1.10	.10	.22		.5	1	0	FC36
1944	2-9	1512 / 1515	"	.6	.18	.89	.04	.16		.5	2	0	"
1945	2-12		U.S.G.S.	.6	.175	.82	.05	.14		.5	6	0	
1946	2-16		"	1.1	.35	.71	.05	.25		.5 .6	4	0	
1947	2-17	1245 / 1248	STUNDEN	1.0	.33	.67	.04	.22		.5	2	0	FC36
1948	2-23	1445 / 1449	"	1.0	.33	.91	.04	.30		.5	2	0	"
1949	3-2		U.S.G.S.	1.0	.34	1.24	.07	.42		.5 .6	2	0	
1950	3-3	1230 / 1234	STUNDEN	.5	.17	1.12	.06	.19		.5	1	0	FC36
1951	3-10	1220 / 1225	"	1.0	.34	1.09	.07	.37		.5	2	0	"
1952	3-16	1250 / 1253	"	.7	.25	1.60	.075	.40		.5	2	0	"

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1953	3-23	1315 / 1320	"	1.0	.32	.94	.06	.30		.5	2	0	"
1954	3-31	1203 / 1206	"	.6	.20	1.40	.05	.28		.5	2	0	"
1955	4-7	1110 / 1115	"	.5	.18	1.33	.05	.24		.5	1	0	"
1956	4-13		U.S.G.S.	1.7	.57	.37	.07	.21		.6	4	0	
1957	4-14	1445 / 1450	STUNDEN	1.7	.56	.43	.05	.24		.5	4	0	FC36
1958	4-18	1530 / 1536	"	2.1	1.19	1.76	.21	2.1		.5 / .6	4	0	"
1959	4-21	1125 / 1130	"	1.6	0.87	2.07	0.21	1.8		.6	3	0	"
1960	4-21	1320 / 1325	"	2.1	1.42	2.18	.33	3.1		.6	4	0	"
1961	4-28	1330 / 1338	"	2.6	1.69	1.89	.34	3.2		.5 / .6	5	0	"
1962	5-5	0910 / 0915	"	2.5	1.51	2.05	.36	3.1		.5	5	0	"
1963	5-9		U.S.G.S.	13.5	9.64	.49	.40	4.79		.6	23	0	
1964	5-12	0856 / 0908	STUNDEN	2.5	1.67	2.22	.36	3.7		.6	5	0	FC36
1965	5-18	1525 / 1533	"	2.5	1.57	2.29	.33	3.6		.6	5	0	"
1966	5-23		U.S.G.S.	2.6	1.35	1.35	.23	1.83		.5 / .6	14	-.01	
1967	5-24	0945 / 0955	STUNDEN	2.5	1.27	1.73	.23	2.2		.5 / .6	5	0	FC36

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1968	5-26	1425 / 1435	"	2.5	1.29	1.71	.21	2.2		.6	5	0	"
1969	6-1	1058 / 1110	"	2.3	1.34	1.72	.23	2.3		.6	5	0	"
1970	6-9	1410 / 1416	"	2.6	1.66	1.93	.33	3.2		.6	5	0	"
1971	6-16	1530 / 1536	STUNDEN - TURNER	2.4	1.45	1.86	.43	2.7		.6	5	0	"
1972	6-17	0850 / 0858	STUNDEN	2.5	1.58	2.02	.46	3.2		.6	5	0	"
1973	6-22		U.S.G.S.	5.5	3.09	1.60	.61	4.95		.5 / .6	23	0	
1974	6-23	1400 / 1410	STUNDEN	5.0	2.89	1.59	.60	4.6		.5 / .6	10	0	FC36
1975	6-30	1045 / 1100	"	5.0	2.61	1.65	.44	4.3		.6	10	-.01	"
1976	7-7	1530 / 1540	"	5.0	2.57	1.71	.33	4.4		.6	10	0	"
1977	7-14	1310 / 1325	"	5.0	2.30	1.61	.31	3.7		.5 / .6	10	0	"
1978	7-22	1655 / 1705	"	4.5	2.03	1.38	.26	2.8		.5 / .6	9	0	"
1979	7-25		U.S.G.S.	5.2	.04	1.38	.26	2.82		.6	24	+.01	
1980	7-27	1655 / 1700	STUNDEN	2.0	.30	0.53	.04	0.16		.5	4	0	FC36
1981	8-4	1038 / 1040	STUNDEN	0.6	.12	0.83	.05	0.10		.5	1	-.01	"
1982	8-11	1115 / 1118	"	.5	.08	.50	.02	.04		.5	1	0	"

P. C. Dist. Form 53 4-48

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U10-R

Daily discharge, in second-feet of SAN DIMAS CREEK at Mouth of Canyon, for the year ending September 30, 19 46

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.04	0.03	0.04	0.05	1.7	0.1	0.2	0.2	2.5	2.8	4.5	1.4
2	0.04	0.03	0.04	0.05	1.7	0.1	0.2	0.2	2.5	2.8	4.5	1.5
3	0.04	0.03	0.04	0.05	1.7	0.1	0.4	0.2	2.7	2.7	4.6	1.4
4	0.04	0.03	0.04	0.05	1.7	0.1	0.4	0.1	2.8	2.7	4.7	1.4
5	0.04	0.03	0.1	0.05	2.3	0.1	0.3	0.1	2.8	2.7	4.7	1.5
6	0.03	0.03	0.05	0.05	1.3	0.1	0.4	0.1	2.8	2.7	4.2	1.5
7	0.03	0.03	0.05	0.05	0.4	0.1	0.4	0.2	2.8	2.7	2.8	1.5
8	0.03	0.03	0.05	0.05	0.2	0.1	0.3	0.1	2.8	2.8	2.8	1.5
9	0.03	0.03	0.05	0.05	0.2	0.1	0.2	0.1	2.8	2.6	3.0	1.5
10	0.03	0.03	0.05	0.05	0.2	0.1	0.2	0.2	3.0	2.6	2.8	1.5
11	0.04	0.02	0.03	0.07	0.1	0.1	0.2	0.2	3.0	2.7	2.7	1.5
12	0.04	0.02	0.03	0.07	0.1	0.1	0.2	0.1	3.0	2.7	2.6	1.4
13	0.04	0.02	0.03	0.07	0.1	0.1	0.2	0.1	3.0	2.7	2.8	1.4
14	0.04	0.02	0.03	0.07	0.1	0.2	0.1	2.0	3.0	2.7	2.8	1.2
15	0.04	0.02	0.03	0.07	0.1	0.2	0.1	2.7	2.8	2.7	2.7	1.0
16	0.04	0.02	0.07	0.08	0.1	0.2	0.1	2.7	2.7	2.7	2.6	1.0
17	0.04	0.02	0.07	0.08	0.1	0.2	0.2	2.7	2.8	2.7	2.6	0.8
18	0.04	0.02	0.07	0.08	0.1	0.1	0.2	2.6	2.8	2.7	2.6	0.5
19	0.04	0.02	0.07	0.08	0.1	0.2	0.2	2.6	2.8	2.8	2.4	0.2
20	0.04	0.02	0.07	0.08	0.1	0.2	0.2	2.6	2.8	2.8	2.3	0.1
21	0.02	0.03	0.08	0.08	0.1	0.2	0.2	2.6	2.7	2.8	2.3	0.2
22	0.02	0.03	0.08	0.08	0.1	0.2	0.2	2.5	2.8	2.8	2.3	0.1
23	0.02	0.03	0.08	0.3	0.1	0.2	0.2	2.6	2.8	2.8	2.3	0.1
24	0.02	0.03	0.08	2.1	0.1	0.3	0.2	2.6	2.8	2.8	2.0	0.1
25	0.02	0.03	0.08	2.4	0.1	0.4	0.2	2.5	2.8	2.8	2.0	0.05
26	0.02	0.03	0.04	3.4	0.1	0.3	0.2	2.5	2.8	2.8	1.8	0.05
27	0.02	0.03	0.04	3.0	0.1	0.3	0.2	2.4	2.8	4.1	1.7	0.05
28	0.02	0.03	0.04	1.8	0.1	0.2	0.2	2.3	2.8	4.6	1.6	0.05
29	0.02	0.03	0.04	1.8	0.1		0.2	0.4	2.3	2.8	4.6	1.4	0.05
30	0.02	0.03	0.04	1.8			0.2	0.3	2.4	2.8	4.5	1.3	0.05
31	0.02		0.04	1.8			0.2		2.4		4.5	1.4	
	0.97	0.80	1.65	19.81	13.3	5.3	7.0	46.9	84.1	93.4	84.8	24.60
MEAN	0.031	.027	.053	.639	0.46	0.17	0.23	1.51	2.80	3.01	2.74	.820
ACRE-FEET	1.9	1.6	3.3	39	26	11	14	93	167	185	168	49

Remarks:

YEAR OR PERIOD MEAN 1.05
ACRE-FEET 759

F. C. Dist. Form 18 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U10-R

Daily discharge, in second-feet of San Dimas Creek at Mouth of Canyon, for the year ending September 30, 19 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.02	0.02	0.02	0.1	0.2	0.5	0.3	3.1	2.3	4.3	0.1	0
2	0.02	0.02	0.02	0.1	0.2	0.4	0.3	3.1	2.3	4.3	0.03	0
3	0.02	0.02	0.02	0.1	0.3	0.4	0.2	3.1	2.2	4.3	0.03	0
4	0.02	0.02	0.02	0.1	0.2	0.5	0.2	3.1	2.6	4.5	0.03	0
5	0.02	0.02	0.02	0.1	0.2	0.5	0.2	2.6	3.1	4.5	0.03	0
6	0.02	0.01	0.03	0.1	0.2	0.5	0.2	2.3	3.2	4.5	0.01	0
7	0.02	0.01	0.03	0.1	0.2	0.4	0.2	2.3	3.3	4.5	0.01	0
8	0.02	0.01	0.03	0.1	0.2	0.4	0.2	3.3	3.3	4.5	0.01	0
9	0.02	0.01	0.03	0.2	0.2	0.4	0.2	4.7	3.3	4.3	0	0
10	0.02	0.01	0.03	0.1	0.2	0.4	0.2	4.3	3.4	4.2	0.01	0.2
11	0.02	0.01	0.03	0.1	0.3	0.5	0.2	3.8	3.6	3.9	0.01	0.5
12	0.02	0.01	0.03	0.1	0.2	0.5	0.2	3.6	3.6	3.8	0	0.8
13	0.02	0.01	0.03	0.1	0.1	0.4	0.2	3.6	3.6	3.8	0	0.7
14	0.02	0.01	0.03	0.1	0.1	0.4	0.2	3.7	3.4	3.7	0	0.6
15	0.02	0.01	0.03	0.1	0.1	0.4	0.2	3.6	3.2	3.7	0	0.5
16	0.02	0.01	0.04	0.1	0.2	0.4	1.1	3.4	2.8	3.6	0	0.4
17	0.02	0.01	0.04	0.1	0.3	0.4	2.5	3.7	3.1	3.3	0	0.1
18	0.02	0.01	0.04	0.1	0.3	0.4	2.2	3.6	3.2	3.2	0	0
19	0.02	0.01	0.04	0.2	0.3	0.4	2.0	3.7	3.2	3.1	0	0
20	0.02	0.01	0.04	0.5	0.3	0.3	1.9	3.7	3.1	2.8	0	0
21	0.02	0.01	0.05	0.1	0.3	0.3	2.5	3.7	3.1	2.7	0	0
22	0.02	0.01	0.05	2.8	0.3	0.3	3.0	3.6	4.0	2.8	0	0
23	0.02	0.01	0.05	5.4	0.3	0.3	3.0	3.1	4.7	2.8	0	0
24	0.02	0.01	0.05	5.5	0.4	0.3	3.0	2.0	4.6	2.7	0	0
25	0.02	0.01	0.05	2.8	0.4	0.3	3.1	2.2	4.6	1.8	0	0
26	0.02	0.02	0.1	0.4	0.4	0.3	3.1	2.3	4.6	0.4	0	0
27	0.02	0.02	0.2	0.4	0.6	0.3	3.0	2.3	4.6	0.3	0	0
28	0.02	0.02	0.2	0.4	0.7	0.3	3.1	2.3	4.5	0.2	0	0
29	0.02	0.02	0.1	0.2		0.2	3.2	2.3	4.5	0.1	0	0
30	0.02	0.02	0.1	0.2		0.2	3.2	2.3	4.3	0.1	0	0
31	0.02		0.1	0.2		0.3		2.3		0.1	0	
	0.62	0.40	1.65	21.0	7.7	11.6	43.1	96.7	105.3	92.8	0.27	3.8
MEAN	.020	.013	.053	0.68	0.28	0.37	1.44	3.12	3.51	2.99	.009	0.13
ACRE-FEET	1.2	0.8	3.3	42.	15.	23.	85.	192.	209.	184	0.5	7.5

Remarks:

YEAR OR PERIOD MEAN 1.05
ACRE-FEET 763.

STATION F218-R
SAN DIMAS WASH below Puddingstone Diversion Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°07'52", LONG. 117°46'58", ON SAN DIMAS TYPE FLUME ABOUT 75 FEET WEST OF THE SOUTHERLY END OF PUDDINGSTONE DIVERSION DAM. ABOUT 3.0 MILES NORTHWEST OF LA VERNE. ELEVATION OF ZERO GAGE HEIGHT, 1126.86 FEET.

DRAINAGE AREA: 18.8 SQUARE MILES. 16.2 SQUARE MILES CONTROLLED BY SAN DIMAS DAM AND 2.6 SQUARE MILES CONTROLLED BY PUDDINGSTONE DIVERSION DAM.

CHANNEL AND CONTROL: CHANNEL - SAND AND GRAVEL. CONTROL - 3 FT. X 3 FT. SAN DIMAS TYPE FLUME.

DISCHARGE MEASUREMENTS: LOW AND HIGH FLOWS MEASURED BY WADING.

RECORDER: INSTALLED NOVEMBER 28, 1945 IN A WOODEN HOUSE OVER A 2 FT. X 4 FT. CONCRETE STILLING WELL. A RATIONAL HORIZONTAL WEEKLY RECORDER WAS IN SERVICE FROM NOVEMBER 28, 1947 TO SEPTEMBER 30, 1949.

REGULATION AND/OR DIVERSIONS: FLOW ENTIRELY REGULATED BY PUDDINGSTONE DIVERSION DAM. SPILLWAY DISCHARGE ENTERS WASH BELOW THE STATION. INFLOW TO PUDDINGSTONE DIVERSION DAM IS REGULATED BY SAN DIMAS DAM. SAN DIMAS WATER COMPANY DIVERTS WATER FOR IRRIGATION.

RECORDS AVAILABLE: NOVEMBER 28, 1945 TO SEPTEMBER 30, 1949. SOME STREAM MEASUREMENTS FOR EARLIER YEARS ARE AVAILABLE.

EXTREMES OF DISCHARGE:
1947-1948
NO FLOW FOR ENTIRE YEAR.
1948-1949
NO FLOW FOR ENTIRE YEAR.
1945-1949
MAXIMUM 42 SECOND-FEET, APRIL 4, 1946
MINIMUM NO FLOW MOST OF EACH YEAR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

REMARKS: NO FLOW FOR ENTIRE YEAR.

STATION F209-R
SAN GABRIEL RIVER-WEST FORK below San Gabriel Dam No. 2

LOCATION: WATER-STAGE RECORDER, LAT. 34°14'39", LONG. 117°57'25", ON THE LEFT (NORTHEAST) BANK OF THE WEST FORK OF THE SAN GABRIEL RIVER ABOUT 7 MILES ABOVE JUNCTION OF THE EAST AND WEST FORKS AND 0.5 MILE DOWNSTREAM FROM SAN GABRIEL DAM NO. 2. ELEVATION OF ZERO GAGE HEIGHT, 2083.37 FEET.

DRAINAGE AREA: 41.0 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - SAND, GRAVEL AND BOULDERS. CONTROL - CONCRETE CONTROL WITH LOW FLOW NOTCH ABOUT 35 FEET BELOW THE STATION.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM CABLE CAR 6 FEET BELOW STATION.

RECORDER: INSTALLED DECEMBER 8, 1933. WASHED OUT IN THE MARCH 2, 1938 STORM. REINSTALLED MARCH 10, 1938. REMOVED MAY 30, 1938. INSTALLED JULY 8, 1938, IN A CONCRETE HOUSE OVER A 4 FT. X 4 FT. CONCRETE WELL IN THE SAME LOCATION AS THE OLD WELL. AN AU CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

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, 1949.

EXTREMES OF DISCHARGE:

1947-1948
MAXIMUM 79 SECOND-FEET, MAY 17.
MINIMUM 0.1 SECOND-FOOT, SEVERAL DAYS.

1948-1949
MAXIMUM 67 SECOND-FEET, JULY 21.
MINIMUM 0.1 SECOND-FOOT, SEVERAL DAYS.

1933-1949
MAXIMUM 25,000 SECOND-FEET, ESTIMATED, MARCH 2, 1938.
MINIMUM LESS THAN 0.1 SECOND-FOOT AT VARIOUS TIMES.

ACCURACY: GOOD.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT, FOR MEASURING OUTFLOW FROM SAN GABRIEL DAM NO. 2.

DISCHARGE MEASUREMENTS OF SAN GABRIEL-WEST FORK

~~AT~~ NEAR 1/2 mi below San Gabriel Dam #2 DURING THE YEAR ENDING SEPTEMBER 30, 19~~49~~ 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT/PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
2030	10-2	0945 / 0954	MIDDLETON	4.5	1.47	1.29	3.24	1.9		.6	8	0	FC26
2031	10-6	0942 / 0947	"	2.5	0.49	0.14	3.14	0.07		.6	5	0	"
2032	10-9	1436 / 1442	"	1.5	0.28	0.18	3.14	0.05		.6	3	0	"
2033	10-14	1353 / 1357	"	1.9	0.42	0.19	3.16	0.08		.6	4	0	"
2034	10-16	1329 / 1332	H. WILSON - MIDDLETON	1.4	0.23	0.26	3.16	0.06		.6	3	0	"
2035	10-20	1409 / 1412	MIDDLETON - D. WILSON	1.5	0.24	0.25	3.16	0.06		.6	3	0	"
2036	10-23	1423 / 1427	H. WILSON - MIDDLETON	1.5	0.28	0.25	3.16	0.07		.6	3	0	FC29
2037	10-27	1330 / 1335	D. WILSON	2.5	0.34	0.21	3.17	0.07		.6	2	0	FC26
2038	10-27	1354 / 1357	MIDDLETON - D. WILSON	1.7	0.31	0.32	3.17	0.10		.6	3	0	"
2039	10-30	1453 / 1456	H. WILSON - MIDDLETON	1.5	0.28	0.30	3.17	0.08		.6	3	0	"
2040	11-3	1425 / 1430	MIDDLETON - D. WILSON	1.5	0.28	0.39	3.17	0.11		.6	3	0	FC29
2041	11-6	1154 / 1157	MIDDLETON	1.5	0.31	0.45	3.16	0.14		.6	4	0	"
2042	11-10	1423 / 1426	"	1.6	0.36	0.44	3.18	0.16		.6	4	0	"
2043	11-13	1403 / 1406	"	1.6	0.34	0.44	3.18	0.15		.6	4	0	"
2044	11-17	1349 / 1352	"	1.6	0.36	0.50	3.19	0.18		.6	4	0	"
2045	11-20	1054 / 1057	"	1.6	0.37	0.51	3.19	0.19		.6	4	0	"
2046	11-24	1024 / 1027	"	1.7	0.40	0.52	3.19	0.21		.6	4	0	"
2047	11-28	0943 / 0946	"	1.7	0.39	0.54	3.19	0.21		.6	4	0	"
2048	12-1	1108 / 1112	"	1.7	0.41	0.59	3.20	0.24		.6	4	0	"
2049	12-4	1022 / 1027	"	2.0	0.54	0.91	3.25	0.49		.6	5	0	"
2050	12-8	1119 / 1124	"	2.0	0.53	0.45	3.18	0.24		.6	5	0	"
2051	12-10	0905 / 0927	"	16.3	5.16	1.47	3.51	7.6		.6	13	0	"
2052	12-10	1130 / 1142	"	10.5	3.21	1.25	3.37	4.0		.6	10	0	"
2053	12-10	1327 / 1340	MIDDLETON	10.5	2.67	1.16	3.34	3.1		.6	9	0	"
2054	12-11	1137 / 1148	"	6.0	2.16	1.33	3.34	2.9		.6	8	0	"
2055	12-15	1205 / 1214	"	6.0	2.14	1.17	3.33	2.5		.6	8	0	"
2056	12-18	1015 / 1026	"	5.6	1.86	1.08	3.32	2.0		.6	8	0	"
2057	12-22	1008 / 1018	"	5.6	1.70	1.00	3.31	1.7		.6	8	0	"
2058	12-24	0906 / 0920	MIDDLETON-H. WILSON	6.2	2.19	1.19	3.34	2.6		.6	8	0	"
2059	12-24	1028 / 1040	H. WILSON-MIDDLETON	6.8	2.75	1.75	3.40	4.8		.6	8	0	"
2060	12-24	1048 / 1100	MIDDLETON-H. WILSON	6.8	2.75	1.75	3.39	4.8		.6	9	0	"
2061	12-26	1055 / 1108	MIDDLETON	6.2	2.28	1.32	3.34	3.0		.6	9	0	"
2062	12-29	1045 / 1103	"	10.0	3.68	1.98	3.46	7.3		.6	11	-.01	"
2063	12-29	1120 / 1133	"	10.0	3.66	1.94	3.45	7.1		.6	10	0	"
2064	12-30	1050 / 1058	"	6.3	1.76	1.24	3.30	2.2		.6	7	0	"
2065	12-30	1140 / 1153	"	7.5	3.26	2.27	3.45	7.4		.6	10	+.01	"
2066	12-30	1315 / 1328	"	7.0	2.20	1.32	3.32	2.9		.6	9	0	"
2067	1-2	1110 / 1122	"	6.0	1.93	1.30	3.30	2.5		.6	8	0	"
2068	1-5	1142 / 1147	"	2.0	0.42	0.83	3.16	0.35		.6	4	0	"
2069	1-8	1042 / 1049	"	1.8	0.38	0.71	3.15	0.27		.6	5	0	"
2070	1-12	1035 / 1042	"	1.9	0.42	0.64	3.15	0.27		.6	5	0	"
2071	1-13	1348 / 1403	"	7.1	2.74	1.68	3.38	4.6		.6	11	0	"
2072	1-15	1108 / 1115	"	2.3	0.57	0.60	3.16	0.34		.6	5	0	"
2073	1-15	1235 / 1252	"	6.5	3.52	1.93	3.44	6.8		.6	12	0	"
2074	1-15	1342 / 1402	"	7.0	2.74	1.61	3.37	4.4		.6	11	0	"
2075	1-19	0940 / 0952	"	7.0	2.33	1.12	3.32	2.6		.6	9	0	"
2076	1-19	1030 / 1048	"	8.6	3.46	1.68	3.42	5.8		.6	13	0	"
2077	1-22	0920 / 0938	"	8.5	3.03	1.35	3.38	4.1		.6	14	0	"

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATINGS	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
2078	1-22	1038 / 1100	"	9.2	3.52	1.62	3.42	5.7		.6	16	0	"
2079	1-26	1007 / 1030	"	9.2	3.47	1.56	3.42	5.4		.6	16	0	"
2080	1-29	1135 / 1157	"	9.2	3.49	1.49	3.41	5.2		.6	16	0	"
2081	2-2	1050 / 1112	"	8.6	3.39	1.53	3.41	5.2		.6	16	0	"
2082	2-5	1155 / 1208	"	9.5	3.87	1.65	3.46	6.4		.6	9	0	"
2083	2-5	1230 / 1245	"	16.5	10.5	2.77	3.85	29.1		.6	10	0	"
2084	2-6	1305 / 1327	H. WILSON-MIDDLETON	16.5	11.6	2.44	3.81	28.3		.6	13	0	FC26
2085	2-7	1010 / 1025	H. WILSON	15.0	11.0	2.40	3.78	26.4		.6	13	0	"
2086	2-7	1125 / 1145	"	14.0	8.25	2.01	3.64	16.6		.6	13	0	"
2087	2-9	0940 / 1002	MIDDLETON	16.0	7.88	1.80	3.61	14.2		.6	14	0	FC29
2088	2-9	1028 / 1048	"	6.8	3.27	1.38	3.37	4.5		.6	13	0	"
2089	2-11	1115 / 1136	"	8.0	2.91	1.31	3.35	3.8		.6	15	0	"
2090	2-11	1230 / 1248	"	12.5	5.72	1.31	3.46	7.5		.6	13	0	"
2091	2-13	1035 / 1056	"	12.0	5.30	1.34	3.45	7.1		.6	12	0	"
2092	2-15	1212 / 1229	WILSON - DE VORE	12.0	5.43	1.29	3.46	7.0		.6	12	0	FC32
2093	2-16	1018 / 1035	MIDDLETON	12.0	5.22	1.30	3.44	6.8		.6	12	0	FC29
2094	2-16	1015 / 1033	"	12.0	5.30	1.26	3.44	6.7		.6	12	0	"
2095	2-24	1339 / 1357	"	12.0	5.34	1.25	3.45	6.7		.6	12	0	"
2096	2-26	1030 / 1046	"	12.3	5.69	1.24	3.45	6.8		.6	12	0	"
2097	3-1	1342 / 1358	"	12.5	5.61	1.18	3.45	6.6		.6	12	0	"
2098	3-4	1045 / 1103	"	12.5	5.59	1.18	3.45	6.6		.6	12	0	"
2099	3-6	1100 / 1120	"	12.5	5.62	1.17	3.45	6.6		.6	12	0	"
2100	3-11	1100 / 1120	"	12.5	5.09	1.14	3.45	6.5		.6	12	0	"
2101	3-15	1025 / 1039	"	3.5	1.25	0.40	3.16	0.50		.6	7	0	"
2102	3-15	1151 / 1210	"	12.7	6.65	1.36	3.53	9.2		.6	12	0	"
2103	3-18	1055 / 1115	"	12.7	6.81	1.40	3.54	9.5		.6	12	0	"
2104	3-22	1056 / 1116	"	12.7	6.16	1.22	3.50	7.5		.6	12	0	"
2105	3-25	1007 / 1028	"	12.5	6.17	1.12	3.50	6.9		.6	12	0	"
2106	3-25	1055 / 1118	"	14.0	9.37	2.02	3.71	18.9		.6	14	0	"
2107	3-29	1025 / 1046	"	14.0	9.49	1.82	3.59	17.3		.6	14	0	"
2108	4-1	1015 / 1033	"	13.0	8.70	1.84	3.68	16.0		.6	13	0	"
2109	4-1	1105 / 1123	"	12.2	6.89	1.44	3.56	9.9		.6	12	0	"
2110	4-5	1037 / 1053	"	12.2	7.19	1.41	3.59	10.1		.6	12	0	"
2111	4-8	1118 / 1136	"	12.3	7.58	1.32	3.60	10.0		.6	12	0	"
2112	4-13	1400 / 1417	"	12.7	8.02	1.16	3.64	9.3		.6	12	0	"
2113	4-15	1005 / 1010	"	5.2	1.70	0.25	3.30	0.43		.6	4	0	"
2114	4-15	1230 / 1248	"	12.2	7.74	1.11	3.64	8.6		.6	12	0	"
2115	4-15	1035 / 1057	"	12.2	8.08	1.11	3.67	9.0		.6	12	0	"
2116	4-22	1036 / 1056	"	12.0	8.14	1.03	3.70	8.4		.6	12	0	"
2117	4-26	1057 / 1118	"	12.5	8.40	0.99	3.70	8.3		.6	12	0	"
2118	4-29	1230 / 1248	"	12.4	7.87	0.94	3.65	7.4		.6	12	0	"
2119	4-29	1325 / 1345	"	13.5	10.9	1.73	3.87	18.9		.6	13	-.01	"
2120	5-3	1150 / 1212	"	12.0	7.02	0.97	3.58	6.8		.6	12	0	"
2121	5-4	0928 / 0943	MIDDLETON-D.E.WILSON	12.0	6.86	0.94	3.57	6.5		.6	12	0	"
2122	5-4	1032 / 1046	" "	13.2	9.79	2.03	3.78	19.9		.6	13	-.01	"
2123	5-6	0838 / 0957	MIDDLETON	13.0	9.18	2.08	3.72	19.1		.6	12	0	"
2124	5-10	0925 / 0945	"	12.8	8.68	1.98	3.66	17.2		.6	12	0	"
2125	5-11	0944 / 1000	"	12.8	8.44	1.94	3.66	16.4		.6	12	0	"
2126	5-11	1039 / 1053	"	10.0	4.86	1.17	3.43	5.7		.6	12	0	"
2127	5-13	1315 / 1333	"	10.0	4.68	1.07	3.40	5.0		.6	12	0	"
2128	5-17	1028 / 1032	"	3.0	0.70	0.61	3.17	0.43		.6	5	0	"
2129	5-17	1235 / 1250	"	11.5	5.77	1.20	3.47	6.9		.6	12	0	"
2130	5-20	1015 / 1035	"	11.0	5.29	1.17	3.45	6.2		.6	12	0	"
2131	5-24	1005 / 1022	"	11.0	5.19	1.08	3.43	5.6		.6	12	0	"
2132	5-27	1005 / 1023	"	11.0	5.15	1.05	3.42	5.4		.6	12	0	"
2133	5-31	1000 / 1018	"	10.5	4.98	1.06	3.42	5.3		.6	12	0	"
2134	6-3	1335 / 1355	"	10.7	5.07	1.05	3.42	5.3		.6	12	0	"
2135	6-7	1130 / 1152	"	10.7	5.07	1.05	3.42	5.3		.6	12	0	"
2136	6-10	1020 / 1040	"	10.7	5.07	1.03	3.42	5.2		.6	12	0	"
2137	6-14	1030 / 1049	"	10.5	4.81	1.00	3.40	4.8		.6	11	0	"
2138	6-15	1047 / 1054	"	4.0	1.33	0.32	3.17	0.43		.6	6	0	"
2139	6-15	1150 / 1202	"	8.0	3.12	1.09	3.34	3.4		.6	8	0	"
2140	6-17	1415 / 1430	"	7.0	2.79	1.15	3.33	3.2		.6	9	0	"
2141	6-21	1003 / 1015	"	7.0	2.81	1.07	3.33	3.0		.6	8	0	"
2142	6-24	1010 / 1028	"	6.2	2.52	1.11	3.32	2.8		.6	12	0	"
2143	7-1	1250 / 1307	"	6.2	2.41	1.08	3.30	2.6		.6	12	0	"
2144	7-8	1030 / 1047	"	6.0	2.28	1.05	3.29	2.4		.6	12	0	"
2145	7-15	0728 / 0750	MIDDLETON	6.2	2.09	0.77	3.26	1.6		.6	12	0	"
2146	7-15	1123 / 1128	"	4.5	0.88	0.47	3.16	0.41		.6	6	0	"
2147	7-15	1215 / 1228	"	5.0	1.35	0.96	3.23	1.3		.6	10	0	"
2148	7-19	0935 / 0955	"	7.5	3.10	1.52	3.37	4.7		.6	13	0	"
2149	7-19	1120 / 1137	"	6.5	2.98	1.48	3.36	4.4		.6	13	-.01	"
2150	7-19	1250 / 1308	"	7.0	2.91	1.17	3.32	3.4		.6	13	0	"
2151	7-28	1520 / 1534	"	5.0	1.68	0.77	3.25	1.3		.6	10	0	"
2152	8-5	1049 / 1100	BARON - LYNN	5.0	1.36	0.66	3.21	0.90		.6	5	0	FC26
2153	8-12	0800 / 0810	H. E. WILSON	5.0	1.34	0.63	3.20	0.85		.6	5	0	"
2154	8-12	1113 / 1127	"	5.0	1.11	0.27	3.16	0.30		.6	5	0	"
2155	8-12	1230 / 1238	"	7.0	2.75	1.24	3.38	3.4		.6	7	0	"
2156	8-12	1405 / 1415	"	7.0	2.70	1.30	3.37	3.5		.6	7	0	"
2157	8-16	0940 / 0957	LANG	7.3	2.13	0.89	3.28	1.9		.6	10	0	"
2158	8-19	1048 / 1100	"	7.2	2.07	0.77	3.27	1.6		.6	9	0	"
2159	8-26	1001 / 1011	H. E. WILSON	7.0	1.64	0.73	3.22	1.2		.6	7	0	"
2160	8-30	0955 / 1012	MIDDLETON	6.2	1.72	0.81	3.25	1.4		.6	12	0	FC29
2161	9-2	1009 / 1024	DE VORE-H. E. WILSON	8.3	2.78	0.61	3.26	1.7		.6	10	0	FC26
2162	9-9	1117 / 1132	" "	5.7	1.72	0.49	3.20	0.85		.6	9	0	"
2163	9-16	1123 / 1133	MIDDLETON-VAN DER GOOT	6.0	1.79	0.39	3.19	0.69		.6	10	0	"
2164	9-23	1036 / 1047	H.E.WILSON-DE VORE	2.8	0.75	0.68	3.17	0.51		.6	6	0	"
2165	9-30	1000 / 1008	MIDDLETON	3.5	0.87	0.59	3.18	0.51		.6	7	0	FC29

DISCHARGE MEASUREMENTS OF SAN GABRIEL-WEST FORK

1/2 mile below San Gabriel Dam #2 DURING THE YEAR ENDING SEPTEMBER 30, 19 46

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
2166	10-7	0956 / 1016	H. E. WILSON - DE VORE	3.1	0.76	0.59	3.18	0.45		.6	8	0	FC26
2167	10-14	1405 / 1413	MIDDLETON	2.8	0.65	0.71	3.18	0.46		.6	5	0	FC29
2168	10-21	1040 / 1048	"	3.0	0.64	0.72	3.18	0.46		.6	6	0	"
2169	10-28	1013 / 1026	DE VORE - H. E. WILSON	2.6	0.43	0.30	3.12	0.13		.5	4	0	FC26
2170	11-4	1029 / 1041	" "	2.5	0.43	0.28	3.12	0.12		.5	5	0	"
2171	11-11	0917 / 0934	H. E. WILSON	2.6	0.46	0.26	3.13	0.12		.6 .5	8	0	"
2172	11-18	1410 / 1420	E. K. DE VORE	2.7	0.47	0.30	3.13	0.14		.6 .5	5	0	"
2173	11-25	1025 / 1040	H. E. WILSON - DE VORE	2.8	0.51	0.25	3.14	0.13		.6 .5	8	0	"
2174	12-2	1305 / 1318	MIDDLETON - WILLUT	2.0	0.52	0.63	3.18	0.33		.6	5	0	FC29
2175	12-9	1110 / 1115	MIDDLETON	1.5	0.25	0.48	3.14	0.12		.6	5	0	"
2176	12-16	1040 / 1100	H. E. WILSON	1.6	0.24	0.50	3.14	0.12		.6	6	0	FC26
2177	12-23	1332 / 1344	"	1.6	0.26	0.54	3.15	0.14		.5	7	0	"
2178	12-30	1043 / 1046	MIDDLETON	1.2	0.23	0.57	3.14	0.13		.6	4	0	"
2179	1-6	1038 / 1042	DE VORE - H. E. WILSON	1.4	0.18	0.44	3.17	0.08		.5	2	0	"
2180	1-14	1105 / 1110	H. E. WILSON	1.6	0.24	0.67	3.18	0.16		.5	4	0	"
2181	1-20	1206 / 1217	DE VORE	3.0	0.68	0.85	3.26	0.58		.6	6	0	"
2182	1-27	1510 / 1517	E. DIAS - MIDDLETON	2.8	0.57	0.37	3.22	0.21		.5	6	0	FC29
2183	2-3	1417 / 1433	H. E. WILSON - DE VORE	2.8	0.58	0.56	3.22	0.33		.6	10	C	FC26
2184	2-10	0926 / 0941	H. E. WILSON	2.7	0.55	0.45	3.22	0.25		.5 .6	9	0	"
2185	2-17	1050 / 1056	MIDDLETON - DE VORE	2.9	0.59	0.51	3.22	0.30		.6	5	0	"
2186	2-24	0950 / 1005	H. E. WILSON	2.8	0.60	0.55	3.23	0.33		.6	10	0	"
2187	3-3	1027 / 1032	MIDDLETON	2.4	0.54	0.78	3.20	0.42		.6	5	0	FC29
2188	3-10	1016 / 1030	H. E. WILSON	2.4	0.48	0.96	3.20	0.46		.6	9	0	FC26
2189	3-17	1105 / 1112	MIDDLETON	2.0	0.46	0.93	3.22	0.43		.6	5	0	FC29
2190	3-24	1015 / 1030	H. WILSON	2.2	0.45	0.98	3.23	0.44		.5 .6	10	0	FC26
2191	3-31	1050 / 1058	MIDDLETON	2.0	0.47	1.11	3.25	0.52		.6	6	0	FC29
2192	4-7	1022 / 1028	"	1.8	0.42	1.17	3.28	0.49		.6	5	0	"
2193	4-14	1048 / 1058	"	2.0	0.48	1.08	3.28	0.52		.6	6	C	"
2194	4-21	1128 / 1138	H. WILSON	2.1	0.51	0.98	3.27	0.50		.6	10	0	FC26
2195	4-28	0751 / 0756	LANG - MIDDLETON	2.0	0.48	1.17	3.28	0.56		.6	4	0	FC29
2196	4-28	0903 / 0920	" "	11.1	6.41	1.28	3.56	8.2		.6	11	0	"
2197	4-28	1023 / 1035	LANG - H. WILSON	11.3	7.27	1.49	3.63	10.8		.6	12	0	"
2198	5-2	1132 / 1150	LANG	11.0	6.67	1.40	3.59	9.3		.6	11	0	"
2199	5-5	0937 / 0955	"	11.0	6.34	1.32	3.56	8.4		.6	11	0	"
2200	5-5	1130 / 1144	"	11.2	6.54	1.44	3.57	9.4		.6	11	0	"
2201	5-9	1004 / 1025	DE VORE	11.2	6.21	1.29	3.54	8.0		.6	12	0	FC26
2202	5-12	0900 / 0914	LANG	11.1	6.14	1.30	3.54	8.0		.6	11	0	FC29
2203	5-12	1053 / 1100	"	3.3	1.01	0.67	3.21	0.67		.6	4	0	"
2204	5-12	1210 / 1225	"	11.3	6.44	1.40	3.57	9.0		.6	12	0	"
2205	5-19	0852 / 0907	MIDDLETON	11.5	6.31	1.33	3.54	8.4		.6	11	0	"
2206	5-19	0940 / 0956	"	11.7	7.58	1.65	3.66	12.5		.6	12	0	"
2207	5-19	1040 / 1056	"	11.5	7.15	1.47	3.61	10.5		.6	12	0	"
2208	5-26	1000 / 1018	"	11.8	7.16	1.41	3.58	10.1		.6	12	0	"
2209	5-31	0845 / 0905	DE VORE	11.2	6.71	1.39	3.58	9.3		.6	12	0	FC26
2210	5-31	1010 / 1018	" "	3.5	1.02	0.89	3.24	0.91		.6	6	-.02	"
2211	5-31	1117 / 1135	" "	10.8	5.42	1.03	3.46	5.6		.6	12	0	"
2212	5-31	1401 / 1430	" "	11.3	6.91	1.43	3.59	9.9		.6	16	0	"
2213	6-3	1118 / 1136	MIDDLETON	11.5	6.99	1.46	3.58	10.2		.6	12	0	FC29
2214	6-9	1025 / 1044	"	11.2	7.01	1.43	3.58	10.0		.6	12	0	"
2215	6-16	1040 / 1048	"	2.6	0.69	0.74	3.19	0.51		.6	6	0	"
2216	6-16	1132 / 1149	"	11.5	7.27	1.53	3.62	11.1		.6	12	0	"
2217	6-23	1133 / 1200	DE VORE	11.1	6.81	1.47	3.58	10.0		.6	17	0	FC26
2218	6-30	0935 / 0942	MIDDLETON	2.6	0.62	1.00	3.22	0.62		.6	6	0	FC29
2219	6-30	1032 / 1049	"	11.0	6.34	1.39	3.56	8.8		.6	14	0	"
2220	7-7	1412 / 1439	DE VORE	10.9	5.87	1.19	3.50	7.0		.6	15	0	FC26
2221	7-14	0850 / 0900	MIDDLETON	10.9	5.68	1.16	3.49	6.6		.6	11	0	"
2222	7-14	1058 / 1102	"	2.4	0.57	1.25	3.20	0.71		.6	5	0	"
2223	7-14	1132 / 1150	"	11.3	6.67	1.44	3.58	9.6		.6	12	0	"
2224	7-21	1032 / 1100	DE VORE - CROWELL	11.0	6.21	1.30	3.54	8.1		.6	16	0	"
2225	7-21	1538 / 1547	DE VORE	11.8	8.99	1.98	3.77	17.8		.6	8	0	"
2226	7-21	1625 / 1639	"	11.4	8.16	1.84	3.72	15.0		.6	11	0	"
2227	7-21	1719 / 1735	"	11.4	7.69	1.68	3.67	12.9		.6	12	0	"
2228	7-22	1250 / 1308	MIDDLETON	11.5	7.89	1.69	3.66	13.3		.6	12	0	"
2229	7-22	1410 / 1427	"	11.3	7.05	1.55	3.61	10.9		.6	12	0	"
2230	7-28	0928 / 0932	"	2.5	0.60	1.08	3.20	0.65		.6	5	0	"
2231	7-28	1038 / 1055	"	10.7	5.85	1.20	3.51	7.0		.6	12	-.01	"
2232	7-28	1130 / 1147	"	11.5	7.63	1.68	3.65	12.8		.6	12	0	"
2233	7-28	1230 / 1248	"	11.6	7.76	1.71	3.66	13.3		.6	12	0	"
2234	7-28	1510 / 1528	"	11.3	7.07	1.50	3.60	10.6		.6	12	0	"
2235	8-4	0925 / 0943	"	11.3	7.04	1.45	3.60	10.2		.6	12	0	"
2236	8-11	1200 / 1228	H. E. WILSON	10.7	6.51	1.40	3.59	9.1		.6	20	0	"
2237	8-16	1040 / 1100	"	3.3	0.87	0.54	3.18	0.47		.6	11	0	"
2238	8-16	1210 / 1236	"	11.3	7.09	1.45	3.61	10.3		.6	22	0	FC26
2239	8-18	1005 / 1023	MIDDLETON	11.6	7.08	1.43	3.60	10.1		.6	12	0	"
2240	8-25	1350 / 1410	H. E. WILSON	11.1	6.56	1.36	3.56	8.9		.6	12	0	"
2241	8-31	1510 / 1525	"	11.0	5.85	0.97	3.52	5.7		.6	11	0	"
2242	9-1	0950 / 0958	MIDDLETON	2.8	0.78	0.56	3.17	0.44		.6	7	0	"
2243	9-1	1102 / 1120	"	11.3	6.97	1.41	3.59	9.8		.6	12	0	"
2244	9-8	1002 / 1020	DE VORE	11.0	5.43	1.07	3.47	5.8		.6	11	0	FC32
2245	9-15	0857 / 0909	MIDDLETON	10.6	4.98	0.92	3.42	4.6		.6	11	0	FC29
2246	9-15	1052 / 1058	"	2.0	0.47	0.62	3.17	0.29		.6	6	0	"
2247	9-15	1201 / 1216	"	11.0	5.56	1.04	3.46	5.8		.6	11	-.01	"
2248	9-15	1423 / 1438	"	11.5	7.39	1.58	3.62	11.7		.6	11	0	"
2249	9-15	1540 / 1556	"	11.1	6.24	1.40	3.52	7.7		.6	11	0	"
2250	9-21	1548 / 1604	DE VORE	11.0	5.70	1.14	3.49	6.5		.6	11	C	FC32
2251	9-22	0756 / 0808	MIDDLETON	4.5	1.17	1.19	3.28	1.4		.6	9	0	FC26
2252	9-27	1540 / 1600	H. E. WILSON	11.0	6.84	1.74	3.62	11.9		.6	11	0	"
2253	9-29	1136 / 1137	REINHARD - MIDDLETON	1.3	0.19	0.42	3.11	0.08		.6	2	0	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F209-R

Daily discharge, in second-feet of SAN GABRIEL-WEST FORK 1/2 miles below San Gabriel Dam #2, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	0.1	0.2	2.6	5.1	6.5	12.6	10.1	5.4	2.6	1.1	1.9
2	0.9	0.1	0.2	2.6	5.1	6.5	9.8	8.0	5.4	2.6	1.0	1.7
3	0.6	0.1	0.2	2.6	5.1	6.5	10.2	7.2	5.4	2.6	1.0	1.6
4	0.1	0.1	0.6	2.6	5.1	6.5	10.2	14.0	5.4	2.6	0.9	1.6
5	0.1	0.1	0.9	1.5	17.0	6.5	10.2	19.1	5.4	2.4	0.9	1.5
6	0.2	0.1	0.4	0.3	28	6.5	10.2	19.1	5.4	2.4	0.9	1.4
7	0.1	0.1	0.3	0.3	21	6.5	10.2	18.2	5.4	2.4	0.9	1.3
8	0.1	0.1	0.2	0.3	a15.2	6.5	9.8	18.2	5.4	2.4	0.9	1.2
9	0.1	0.2	0.2	0.3	8.8	6.5	9.8	17.8	5.4	2.4	0.8	0.9
10	0.1	0.2	2.6	0.3	4.4	6.5	9.8	17.4	5.4	2.2	0.8	0.9
11	0.1	0.2	3.0	0.3	5.7	6.5	9.8	10.3	5.4	2.2	0.8	0.8
12	0.1	0.2	3.0	0.3	7.2	6.5	9.4	5.4	5.0	2.0	3.0	0.8
13	0.1	0.2	3.0	2.2	7.2	6.8	9.4	5.4	5.0	1.8	3.0	0.7
14	0.1	0.2	2.6	4.7	7.2	6.9	9.8	4.7	4.7	1.6	2.6	0.7
15	0.1	0.2	2.6	3.8	6.7	7.8	8.1	4.4	3.8	1.9	2.0	0.7
16	0.1	0.2	2.4	4.0	6.8	9.1	8.7	4.4	3.6	0.9	1.8	0.7
17	0.1	0.2	2.2	3.2	6.8	9.4	8.7	5.7	3.4	0.8	1.8	0.7
18	a 0.1	0.2	2.0	2.8	6.8	9.4	8.7	6.4	3.2	0.7	1.7	0.7
19	a 0.1	0.2	2.0	4.3	6.8	9.4	9.1	6.1	3.0	3.6	1.7	0.7
20	0.1	0.2	1.9	5.0	6.8	9.1	9.1	6.1	3.0	3.2	1.6	0.6
21	0.1	0.2	1.7	4.4	6.8	7.9	8.7	5.8	3.0	2.8	1.6	0.6
22	0.1	0.2	1.7	5.2	6.8	7.5	8.3	5.8	3.0	2.4	1.5	0.6
23	0.1	0.2	1.4	5.8	6.8	7.5	8.3	5.8	2.8	2.0	1.5	0.6
24	0.1	0.2	3.5	5.8	6.8	7.5	8.3	5.8	2.8	1.8	1.4	0.6
25	0.1	0.2	4.0	5.4	6.8	13.3	8.3	5.6	2.6	1.7	1.3	0.6
26	0.1	0.2	3.2	5.4	6.8	18.2	8.3	5.8	2.6	1.5	1.1	0.6
27	0.1	0.2	2.6	5.4	6.8	17.8	8.3	5.4	2.6	1.4	3.6	0.6
28	0.1	0.2	2.8	5.1	6.8	17.4	9.0	5.4	2.6	1.4	4.8	0.5
29	0.1	0.2	5.5	5.1	6.5	17.4	12.6	5.4	2.6	1.3	1.4	0.5
30	0.1	0.2	5.1	5.1		17.4	13.0	5.4	2.6	1.2	1.6	0.5
31	0.1		2.8	5.1		16.9		5.4		1.1	4.0	
	5.4	5.2	65.0	101.8	243.7	294.7	286.7	269.8	121.3	61.9	53.0	26.8
MEAN	0.17	0.17	2.10	3.28	8.40	9.51	9.56	8.70	4.04	2.00	1.71	0.89
ACRE-FEET	11.	10.	129.	202.	483.	585.	569.	535.	241.	123.	105.	53.

Remarks:

YEAR OR PERIOD MEAN 4.19 ACRE-FEET 3050.

F. C. Dist. Form 52 4-48

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F209-R

Daily discharge, in second-feet of SAN GABRIEL-WEST FORK 1/2 mi. below San Gabriel Dam #2, for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.5	0.1	a 0.3	0.1	a 0.3	0.4	0.5	10.6	10.2	8.3	10.2	8.6
2	0.5	0.1	0.3	0.1	a 0.3	0.4	0.5	9.4	10.2	7.9	10.2	9.8
3	0.5	0.1	0.3	0.1	0.3	0.4	0.5	9.1	10.2	7.9	10.2	9.4
4	0.5	0.1	a 0.3	0.1	0.3	0.6	0.5	8.7	10.2	7.9	10.2	9.4
5	0.5	0.1	— 0.3	0.1	0.3	0.6	0.5	9.1	10.2	7.5	10.2	9.1
6	0.5	0.1	— 0.2	0.1	0.3	0.5	0.5	9.1	9.8	7.2	10.2	6.8
7	0.5	0.1	— 0.2	0.1	0.4	0.5	a 0.5	9.1	9.8	7.2	9.4	6.1
8	0.5	0.1	a 0.1	0.1	0.3	0.5	— 0.5	8.3	9.8	7.2	9.4	5.8
9	0.5	0.1	0.1	0.2	0.3	0.5	— 0.5	7.9	9.8	7.2	9.4	5.4
10	0.5	0.1	0.1	0.2	0.3	0.6	— 0.5	7.9	9.4	7.2	9.1	5.0
11	0.5	0.1	0.1	0.5	0.4	0.8	— 0.5	7.9	9.4	6.8	9.1	5.0
12	0.5	0.1	0.1	0.2	0.3	0.5	— 0.5	8.2	9.4	6.4	9.1	5.0
13	0.5	0.1	0.1	0.2	0.3	0.5	a 0.5	9.1	9.4	6.4	9.1	5.0
14	0.5	0.1	0.1	0.2	0.3	0.4	0.5	8.7	9.4	7.8	8.7	4.7
15	0.5	0.1	0.1	0.2	0.3	0.4	0.5	8.7	9.4	9.1	8.7	6.6
16	0.5	0.1	0.1	0.2	0.3	0.4	0.5	8.7	9.3	8.7	8.9	7.9
17	0.5	0.1	0.7	0.2	0.3	0.4	0.5	8.3	11.0	8.3	10.2	7.9
18	0.5	0.1	0.1	0.2	0.3	0.4	0.5	8.3	10.6	8.3	10.2	7.9
19	0.5	0.1	0.1	0.3	0.3	0.4	0.5	9.8	10.2	8.3	10.2	7.2
20	0.5	0.1	0.1	0.7	0.3	0.4	0.5	10.2	10.2	8.3	9.8	7.2
21	0.5	0.1	0.1	0.4	0.3	0.4	0.5	10.2	9.8	10.6	9.8	7.0
22	0.5	0.2	0.1	0.4	0.3	0.4	0.5	10.2	9.8	12.3	9.8	1.4
23	0.5	0.2	0.1	0.4	0.3	0.4	0.5	10.2	9.8	11.0	9.4	1.4
24	0.5	0.2	0.1	0.3	0.4	0.4	0.5	10.2	9.8	11.0	9.1	0.8
25	0.3	0.2	0.1	0.2	0.3	0.5	0.5	10.2	9.8	11.0	9.1	b 0.1
26	0.1	0.2	0.5	0.2	0.4	0.5	0.6	10.2	9.8	11.0	9.1	b 0.1
27	0.1	0.3	0.6	0.2	0.4	0.5	0.6	10.2	9.8	11.0	9.1	3.5
28	a 0.1	a 0.3	0.2	a 0.2	0.4	0.5	7.4	9.8	9.8	10.7	9.1	1.3
29	0.1	a 0.3	0.1	— 0.2		0.5	11.0	9.8	9.4	10.6	8.7	0.1
30	0.1	a 0.3	0.1	— 0.2		0.5	11.0	9.4	8.4	10.6	8.3	0.1
31	a 0.1		0.1	a 0.2		0.5		9.3		10.6	7.5	
	12.9	4.3	5.9	7.0	9.0	14.7	43.1	286.8	294.1	274.3	291.5	155.6
MEAN	0.42	0.14	0.19	0.23	0.32	0.47	1.44	9.25	9.80	8.85	9.40	5.19
ACRE-FEET	26.	8.5	12.	14.	18.	29.	85.	569.	583.	544.	578.	309.

Remarks:

YEAR OR PERIOD MEAN 3.83 ACRE-FEET 2780.

STATION P3-R
SAN GABRIEL RIVER-WEST FORK above Forks

LOCATION: WATER-STAGE RECORDER, LAT. 34°14'30", LONG. 117°51'45", ON THE RIGHT (SOUTH) BANK, 0.2 MILE ABOVE RINCON RANGER STATION, 2 MILES ABOVE EAST FORK AND ABOUT 13.5 MILES NORTH OF AZUSA. ELEVATION OF ZERO GAGE HEIGHT, 1474.94 FEET.

DRAINAGE AREA: 102 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - SAND, GRAVEL AND BOULDERS. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM CABLE CAR 15 FEET BELOW STATION.

RECORDER: INSTALLED DECEMBER 3, 1930 AT P3-R. REMOVED MARCH 2, 1938. INSTALLED ON APRIL 4, 1938, IN A TEMPORARY RECORDER HOUSE AND WELL AT THE ORIGINAL LOCATION. REMOVED JULY 12, 1938 AND INSTALLED AT STATION P3B-R. REMOVED ON SEPTEMBER 27, 1938 AND REINSTALLED AT ORIGINAL LOCATION IN A CONCRETE HOUSE OVER A 4 FT. X 4 FT. CONCRETE WELL. AN AU CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: FLOW PARTIALLY REGULATED BY SAN GABRIEL DAM NO. 2.

DIVERSIONS: NONE.

RECORDS AVAILABLE: DECEMBER 3, 1930 TO SEPTEMBER 30, 1949, FOR RECORDS PRIOR TO DECEMBER 3, 1930 AT THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT OFFICE FILED WITH STATION P1-R, SAN GABRIEL RIVER-WEST FORK 0.5 MILE ABOVE FORKS; RECORDS FROM JULY 12, 1938 TO SEPTEMBER 27, 1938, ARE FROM STATION P3B-R. SAN GABRIEL RIVER-WEST FORK, 400 FEET BELOW NORTH FORK.

EXTREMES OF DISCHARGE:

1947-1948
MAXIMUM 329 SECOND-FEET, APRIL 29.
MINIMUM 2.9 SECOND-FEET, SEPTEMBER 14.

1948-1949
MAXIMUM 78 SECOND-FEET, JANUARY 20.
MINIMUM 2.2 SECOND-FEET, SEPTEMBER 30.

1930-1949 (STATIONS P1-R, P3-R, P3B-R)
MAXIMUM 34,000 SECOND-FEET, ESTIMATED, MARCH 2, 1938.
MINIMUM 0.3 SECOND-FOOT, OCTOBER 17, 1931.

ACCURACY: GOOD.

OPERATION: MOVED FROM A PREVIOUS LOCATION BY THE DISTRICT FOR THE PASADENA WATER DEPARTMENT. THIS STATION WAS LATER TAKEN OVER, RECONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

DISCHARGE MEASUREMENTS OF SAN GABRIEL - WEST FORK

~~AT~~ NEAR above Forks DURING THE YEAR ENDING SEPTEMBER 30, 1948

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
2008	10-2	1326 / 1342	MIDDLETON	20.7	11.7	0.67	7.10	7.8		0.6	11	0	FC29
2009	10-6	1226 / 1344	"	21.0	11.4	0.63	7.08	7.2		0.6	11	0	"
2010	10-9	1130 / 1147	"	21.0	12.2	0.69	7.11	8.4		0.6	11	0	"
2011	10-14	1103 / 1122	"	21.5	13.1	0.73	7.14	9.5		0.6	11	0	"
2012	10-16	1043 / 1057	MIDDLETON - H. WILSON	21.5	13.0	0.72	7.14	9.4		0.6	11	0	"
2013	10-16	1058 / 1115	H. WILSON - MIDDLETON	21.5	12.9	0.71	7.14	9.1		0.6	11	0	"
2014	10-20	0945 / 1002	MIDDLETON - D. WILSON	21.4	12.8	0.69	7.14	8.8		0.6	11	0	"
2015	10-23	1090 / 1051	H. WILSON - MIDDLETON	21.3	12.9	0.67	7.15	8.6		0.6	11	0	"
2016	10-27	1110 / 1125	MIDDLETON - D. WILSON	21.7	13.4	0.64	7.15	8.6		0.6	11	0	"
2017	10-30	1250 / 1310	H. WILSON - MIDDLETON	21.1	13.0	0.68	7.16	8.8		0.6	11	0	"
2018	11-3	1110 / 1126	D. WILSON - MIDDLETON	21.0	13.0	0.71	7.16	9.2		0.6	11	0	"
2019	11-6	1403 / 1422	MIDDLETON	21.3	13.0	0.69	7.14	9.0		0.6	11	0	"
2020	11-10	1543 / 1600	"	21.2	12.9	0.71	7.14	9.2		0.6	11	0	"
2021	11-13	1118 / 1136	"	21.5	13.0	0.72	7.14	9.4		0.6	11	0	"
2022	11-17	1102 / 1120	""	21.0	13.1	0.76	7.15	10.0		0.6	12	0	"
2023	11-20	1352 / 1410	"	21.0	13.0	0.77	7.15	10.0		0.6	12	0	"
2024	11-24	1258 / 1316	"	21.0	13.0	0.78	7.15	10.1		0.6	12	0	"
2025	11-28	1032 / 1050	"	21.0	13.1	0.76	7.15	10.0		0.6	11	0	"
2026	12-1	1240 / 1257	"	21.0	13.3	0.80	7.15	10.6		0.6	11	0	"
2027	12-4	1255 / 1315	"	23.5	16.3	1.23	7.30	20.0		0.6	12	+.01	"
2028	12-5	1042 / 1108	"	32.5	23.8	1.63	7.55	38.8		0.6	15	0	"
2029	12-6	1030 / 1052	"	29.2	21.7	1.39	7.44	30.1		0.6	14	-.01	"
2030	12-8	1400 / 1422	"	22.3	16.3	1.04	7.29	17.0		0.6	13	0	"
2031	12-11	1418 / 1437	"	22.3	16.0	1.01	7.30	16.2		0.6	12	0	"
2032	12-15	1402 / 1420	"	22.5	15.3	1.05	7.28	16.0		0.6	13	0	"
2033	12-18	1343 / 1403	"	22.5	15.4	1.03	7.27	15.8		0.6	13	0	"
2034	12-22	1337 / 1358	"	22.5	15.3	0.99	7.26	15.2		0.6	13	0	"
2035	12-27	1145 / 1203	"	22.5	15.6	1.02	7.27	15.9		0.6	13	0	"
2036	12-29	1335 / 1355	"	22.5	15.5	0.96	7.26	14.9		0.6	13	0	"
2037	1-2	1345 / 1403	"	22.5	15.8	0.96	7.26	15.2		0.6	13	0	"
2038	1-5	1353 / 1415	"	22.0	15.2	0.95	7.25	14.4		0.6	13	0	"
2039	1-8	1325 / 1347	"	21.8	14.3	0.86	7.22	12.3		0.6	13	0	"
2040	1-12	1400 / 1422	"	21.7	14.1	0.91	7.21	12.8		0.6	13	0	"
2041	1-15	1510 / 1531	"	22.0	15.8	1.04	7.28	16.5		0.6	13	0	"
2042	1-19	1333 / 1352	"	22.2	15.0	0.95	7.25	14.3		0.6	13	0	"
2043	1-22	1348 / 1407	"	21.8	15.3	1.05	7.27	16.0		0.6	13	0	"
2044	1-26	1233 / 1252	"	22.5	16.0	1.06	7.29	16.9		0.6	13	0	"
2045	1-29	1338 / 1357	"	22.5	16.2	1.04	7.28	16.8		0.6	13	0	"
2046	2-2	1400 / 1422	"	22.5	16.3	1.07	7.28	17.4		0.6	13	0	"
2047	2-5	1420 / 1442	"	37.5	44.0	2.43	7.92	107.		0.6	16	0	"
2048	2-6	1038 / 1107	"	36.5	43.8	2.12	7.85	92.7		0.6	17	+.01	"
2049	2-9	1333 / 1353	"	24.7	23.7	1.45	7.49	34.4		0.6	14	0	"
2050	2-13	1335 / 1356	"	24.3	20.9	1.16	7.39	24.2		0.6	14	0	"
2051	2-16	1248 / 1308	"	24.5	21.2	1.15	7.39	24.4		0.6	13	0	"
2052	2-19	1243 / 1305	"	25.0	21.2	1.22	7.42	25.9		0.6	15	0	"
2053	2-19	1517 / 1537	"	25.0	19.4	1.31	7.34	25.5		0.6	15	0	"
2054	2-24	1110 / 1133	"	24.5	19.3	1.27	7.32	24.6		0.6	14	0	"
2055	2-26	1342 / 1400	"	24.7	19.4	1.21	7.30	23.4		0.6	14	0	"
2056	3-1	1139 / 1154	"	24.7	20.1	1.17	7.31	23.5		0.6	15	0	"
2057	3-4	1350 / 1408	"	24.5	19.2	1.18	7.29	22.7		0.6	15	0	"
2058	3-8	1334 / 1356	"	24.7	18.4	1.12	7.27	20.6		0.6	14	0	"
2059	3-11	1339 / 1400	"	24.5	17.8	1.10	7.25	19.6		0.6	14	0	"
2060	3-15	1252 / 1415	"	25.2	22.5	1.35	7.38	30.3		0.6	16	-0.01	"
2061	3-17	1105 / 1128	"	25.8	24.6	1.52	7.46	37.5		0.6	15	0	"
2062	3-18	1315 / 1337	"	25.5	22.1	1.44	7.40	31.9		0.6	15	0	"
2063	3-22	1250 / 1312	"	25.2	21.1	1.31	7.35	27.6		0.6	14	0	"
2064	3-24	1717 / 1747	"	35.0	38.6	2.32	7.79	89.6		0.6	16	+0.02	"
2065	3-24	1957 / 2030	"	34.5	38.0	2.26	7.75	85.9		0.6	18	0	"
2066	3-25	1325 / 1352	"	26.5	26.2	1.51	7.48	39.6		0.6	16	-0.01	"
2067	3-25	1612 / 1640	"	28.3	28.3	1.78	7.56	50.3		0.6	16	0	"
2068	3-29	1306 / 1330	"	26.5	26.8	1.52	7.50	40.8		0.6	16	0	"
2069	4-1	1415 / 1437	"	26.3	25.3	1.55	7.47	39.1		0.6	15	0	"
2070	4-2	0913 / 0933	"	26.1	23.5	1.37	7.40	32.3		0.6	15	0	"
2071	4-3	1333 / 1346	MIDDLETON - SPANGLER	28.5	29.7	1.79	7.59	53.2		0.6	15	+0.02	"
2072	4-3	1642 / 1913	MIDDLETON	37.5	44.5	2.19	7.91	97.4		0.6	18	-0.01	"
2073	4-4	1520 / 1545	"	27.2	32.5	1.71	7.61	55.6		0.6	19	0	"
2074	4-5	1315 / 1338	"	27.0	29.6	1.53	7.54	45.3		0.6	18	0	"
2075	4-8	1350 / 1417	"	26.5	25.5	1.60	7.47	40.9		0.6	15	0	"
2076	4-12	1453 / 1512	MIDDLETON - BAMATTRE	26.5	24.5	1.46	7.44	35.8		0.6	14	0	"
2077	4-15	1443 / 1502	MIDDLETON	26.5	21.4	1.31	7.37	28.1		0.6	14	-0.01	"
2078	4-19	1247 / 1310	"	26.5	22.1	1.32	7.38	29.1		0.6	14	0	"
2079	4-22	1324 / 1346	"	26.5	21.1	1.32	7.36	27.8		0.6	14	0	"
2080	4-26	1320 / 1342	"	26.5	19.5	1.29	7.31	25.1		0.6	14	0	"
2081	4-29	1045 / 1120	"	38.0	56.2	1.90	7.97	107.		0.6	18	-.02	"
2082	4-30	1005 / 1028	"	29.6	41.6	1.47	7.68	61.2		0.6	16	0	"
2083	5-3	1410 / 1435	"	29.2	31.2	1.08	7.42	33.7		0.6	17	0	"
2084	5-6	1220 / 1246	"	29.3	30.5	1.35	7.50	41.2		0.6	17	0	"
2085	5-10	1055 / 1122	"	29.2	29.2	1.32	7.44	38.5		0.6	18	0	"
2086	5-13	0943 / 1008	"	28.5	23.8	0.97	7.28	23.2		0.6	15	0	"
2087	5-17	1435 / 1455	"	28.5	22.8	0.86	7.23	19.7		0.6	15	-.01	"
2088	5-20	1424 / 1448	"	26.5	21.2	1.00	7.26	21.3		0.6	15	0	"
2089	5-24	1327 / 1348	"	25.0	19.6	1.00	7.23	19.6		0.6	14	0	"
2090	5-27	1325 / 1347	"	25.2	19.1	0.99	7.22	19.0		0.6	15	0	"

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
2091	5-31	1230 / 1253	"	25.5	19.2	0.98	7.22	18.8		0.6	14	0	"
2092	6-4	1102 / 1120	"	25.5	19.0	0.96	7.21	18.3		0.6	14	0	"
2093	6-7	1342 / 1405	"	25.3	18.1	0.94	7.18	17.0		0.6	14	-0.01	"
2094	6-10	1345 / 1406	"	23.7	16.3	0.93	7.15	15.2		0.6	14	0	"
2095	6-14	1345 / 1403	"	23.3	15.8	0.88	7.13	13.9		0.6	13	0	"
2096	6-17	1100 / 1121	"	23.0	15.2	0.86	7.11	13.0		0.6	13	0	"
2097	6-21	1345 / 1406	"	19.5	9.29	1.27	7.08	11.8		0.6	14	0	"
2098	6-24	1345 / 1410	"	18.2	8.62	1.30	7.06	11.2		0.6	18	-.01	"
2099	6-28	0945 / 1011	"	18.0	8.36	1.32	7.04	11.0		0.6	18	0	"
2100	7-1	1450 / 1515	"	18.0	7.26	1.10	6.99	8.0		0.6	18	0	"
2101	7-6	1010 / 1032	"	16.0	7.02	1.21	7.00	8.5		0.6	16	0	"
2102	7-8	1340 / 1402	"	14.0	6.76	1.21	6.98	8.2		0.6	14	0	"
2103	7-15	1420 / 1443	"	14.0	6.22	0.96	6.94	6.0		0.6	14	0	"
2104	7-22	1350 / 1408	"	11.0	6.02	1.11	6.96	6.7		0.6	12	0	"
2105	7-29	1335 / 1353	"	11.0	5.66	0.99	6.91	5.6		0.6	12	-.01	"
2106	8-2	1305 / 1325	LANG	11.0	5.41	0.89	6.87	4.8		0.6	11	0	"
2107	8-5	1313 / 1330	BARON - LYNN	10.8	5.29	0.93	6.86	4.9		0.6	11	0	"
2108	8-12	1140 / 1155	J. H. LANG - L. LANG	11.0	5.32	0.90	6.87	4.8		0.6	11	0	"
2109	8-19	1310 / 1325	LANG	10.8	5.42	0.96	6.88	5.2		0.6	11	0	"
2110	8-26	1420 / 1436	MIDDLETON	10.5	4.92	0.89	6.85	4.4		0.6	11	0	"
2111	9-2	1055 / 1112	"	10.7	5.48	1.00	6.88	5.5		0.6	12	0	"
2112	9-10	1610 / 1626	"	10.5	4.66	0.73	6.81	3.4		0.6	11	0	"
2113	9-16	1323 / 1336	MIDDLETON-VAN DER GOOT	7.8	4.02	0.85	6.80	3.4		0.6	11	0	"
2114	9-23	1040 / 1056	MIDDLETON	8.0	4.47	1.07	6.85	4.8		0.6	12	0	"
2115	9-30	1250 / 1310	"	8.0	4.37	1.00	6.85	4.4		0.6	11	0	"

DISCHARGE MEASUREMENTS OF SAN GABRIEL-WEST FORK

~~AT~~ above Forks DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
2116	10-7	1440 / 1458	MIDDLETON	8.0	4.27	0.84	6.83	3.6		.6	14	0	FC29
2117	10-14	1112 / 1130	"	7.8	4.55	1.03	6.87	4.7		.6	13	0	"
2118	10-18	1022 / 1040	"	9.0	4.95	1.19	6.91	5.9		.6	15	0	"
2119	10-21	1403 / 1421	"	7.3	4.37	1.12	6.88	4.9		.6	12	0	"
2120	10-28	1243 / 1300	"	7.5	4.37	1.10	6.86	4.8		.6	13	0	"
2121	11-1	1032 / 1048	"	7.5	4.49	1.18	6.88	5.3		.6	13	0	"
2122	11-4	1236 / 1250	"	7.2	4.31	1.21	6.88	5.2		.6	13	0	"
2123	11-12	1145 / 1202	"	7.5	4.50	1.13	6.88	5.1		.6	13	0	FC18
2124	11-18	1058 / 1117	"	7.5	4.83	1.22	6.89	5.9		.6	14	0	FC29
2125	11-26	1113 / 1130	"	7.6	4.69	1.22	6.90	5.7		.6	13	0	"
2126	12-2	1440 / 1500	WILLUT - MIDDLETON	7.5	4.52	1.19	6.90	5.4		.6	12	0	"
2127	12-6	1445 / 1502	MIDDLETON	7.8	5.01	1.36	6.94	6.8		.6	14	0	"
2128	12-9	1352 / 1410	"	7.3	4.92	1.36	6.93	6.7		.6	14	0	"
2129	12-16	1310 / 1328	"	7.7	5.09	1.36	6.94	6.9		.6	15	0	"
2130	12-17	1305 / 1325	MIDDLETON - SPANGLER	25.0	19.9	1.10	7.29	21.9		.6	13	+.01	"
2131	12-20	1107 / 1128	MIDDLETON	8.5	5.87	1.70	7.02	10.0		.6	15	0	"
2132	12-22	1528 / 1545	"	10.0	6.47	1.79	7.05	11.6		.6	11	0	"
2133	12-23	1412 / 1430	"	9.5	6.10	1.75	7.03	10.7		.6	15	0	"
2134	12-27	1005 / 1027	SPANGLER - MIDDLETON	26.0	24.1	1.45	7.46	35.0		.6	14	0	"
2135	12-27	1500 / 1520	"	25.5	21.8	1.24	7.38	27.1		.6	14	-.01	"
2136	12-30	1322 / 1338	MIDDLETON	12.5	7.44	1.94	7.11	14.4		.6	11	0	"
2137	1-3	1252 / 1310	"	9.5	6.23	1.75	7.06	10.9		.6	16	0	"
2138	1-6	1435 / 1456	"	9.2	6.09	1.63	7.03	9.9		.6	16	0	"
2139	1-10	1523 / 1542	"	9.5	6.40	1.77	7.06	11.3		.6	16	0	"
2140	1-11	1333 / 1355	"	10.5	6.90	1.83	7.09	12.6		.6	16	0	"
2141	1-13	1250 / 1313	"	11.0	7.40	2.12	7.15	15.7		.6	17	0	"
2142	1-17	1058 / 1117	"	10.0	6.68	1.93	7.10	12.9		.6	17	0	"
2143	1-20	1018 / 1040	MIDDLETON - SPANGLER	28.5	31.4	2.37	7.77	74.5		.6	15	+.02	"
2144	1-20	1540 / 1558	" "	28.0	33.4	1.85	7.71	61.8		.6	15	-.01	"
2145	1-22	1608 / 1628	" "	26.5	26.4	1.24	7.44	32.7		.6	14	+.01	"
2146	1-24	1418 / 1440	MIDDLETON	25.5	22.2	1.05	7.28	23.2		.6	14	0	"
2147	1-27	1117 / 1137	DIAS - MIDDLETON	25.0	19.6	0.89	7.19	17.4		.6	14	0	"
2148	1-31	1030 / 1052	" "	24.0	18.2	0.81	7.14	14.7		.6	14	0	"
2149	2-3	1115 / 1136	MIDDLETON	24.7	19.5	0.88	7.17	17.1		.6	14	0	"
2150	2-7	1037 / 1058	"	24.7	19.7	0.91	7.20	17.9		.6	14	+.01	"
2151	2-7	1502 / 1525	"	24.9	20.1	0.91	7.20	18.2		.6	14	0	"
2152	2-10	1525 / 1546	"	9.3	7.86	2.00	7.13	15.7		.6	17	0	"
2153	2-17	1400 / 1423	"	9.5	8.40	2.20	7.20	18.5		.6	17	0	"
2154	2-21	1113 / 1137	WILLUT - MIDDLETON	25.5	20.8	1.00	7.24	20.8		.6	14	0	"
2155	2-24	1402 / 1421	MIDDLETON	25.5	22.8	1.08	7.31	24.6		.6	14	0	"
2156	2-25	1405 / 1426	"	25.5	23.8	1.19	7.35	28.4		.6	15	0	"
2157	2-28	1253 / 1312	"	25.8	23.9	1.18	7.36	28.1		.6	15	0	"
2158	3-3	1237 / 1257	"	25.5	23.8	1.20	7.37	28.6		.6	14	0	"
2159	3-4	1955 / 2015	MIDDLETON - SPANGLER	26.5	28.0	1.39	7.49	38.9		.6	14	+.01	"
2160	3-7	1130 / 1151	MIDDLETON	26.5	25.9	1.22	7.41	31.6		.6	14	+.01	"
2161	3-10	1518 / 1540	"	24.5	23.3	1.12	7.33	26.2		.6	14	0	"
2162	3-11	0202 / 0223	MIDDLETON - SPANGLER	25.5	26.5	1.29	7.44	34.2		.6	15	+.01	"
2163	3-11	1132 / 1152	MIDDLETON	25.7	27.6	1.34	7.48	36.9		.6	15	0	"
2164	3-14	1255 / 1317	"	25.0	24.0	1.16	7.36	27.8		.6	14	0	"
2165	3-17	1417 / 1438	"	24.8	23.7	1.06	7.34	25.1		.6	14	0	"
2166	3-21	1427 / 1450	"	24.9	24.0	1.06	7.34	25.4		.6	14	0	"
2167	3-24	1112 / 1133	"	24.6	23.3	0.99	7.31	23.1		.6	15	0	"
2168	3-28	1403 / 1425	"	24.7	23.1	0.99	7.29	22.8		.6	14	0	"
2169	3-31	1401 / 1422	"	24.5	22.9	0.98	7.29	22.4		.6	14	0	"
2170	4-4	1110 / 1133	"	9.2	9.20	2.40	7.24	22.1		.6	18	0	"
2171	4-7	1306 / 1328	"	9.2	9.18	2.30	7.23	21.1		.6	17	0	"
2172	4-11	1433 / 1453	"	9.5	9.31	2.28	7.23	21.2		.6	13	0	"
2173	4-14	1300 / 1320	"	9.6	9.30	2.42	7.24	22.5		.6	13	0	"
2174	4-18	1215 / 1236	"	9.5	9.29	2.29	7.22	21.3		.6	12	0	"
2175	4-21	1225 / 1257	"	9.7	9.06	2.04	7.18	18.5		.6	14	0	"
2176	4-25	1208 / 1230	"	9.6	8.87	1.97	7.15	17.5		.6	18	0	"
2177	4-28	1453 / 1505	LANG - MIDDLETON	9.1	8.12	1.75	7.10	14.2		.6	9	0	"
2178	5-2	1400 / 1415	LANG	9.2	9.01	2.44	7.25	22.0		.6	9	0	"
2179	5-5	1303 / 1318	"	9.1	8.98	2.22	7.22	19.9		.6	9	0	"
2180	5-9	1010 / 1022	"	9.2	9.19	2.22	7.20	20.4		.6	10	0	"
2181	5-12	1505 / 1517	"	9.0	8.79	2.07	7.17	18.2		.6	9	+.02	"
2182	5-16	1548 / 1615	MIDDLETON	10.0	9.25	2.37	7.22	21.9		.6	18	-.01	"
2183	5-19	1332 / 1354	"	25.0	24.2	1.11	7.34	26.8		.6	14	0	"
2184	5-23	1503 / 1524	"	9.8	9.71	2.34	7.24	22.7		.6	13	0	"
2185	5-26	1357 / 1413	"	10.0	9.90	2.12	7.22	21.0		.6	12	0	"
2186	6-3	1345 / 1411	"	10.0	9.52	1.95	7.18	18.6		.6	18	0	"
2187	6-6	1538 / 1602	"	10.0	9.49	1.84	7.17	17.5		.6	18	0	"
2188	6-9	1357 / 1423	"	9.7	9.29	1.85	7.17	17.2		.6	18	0	"
2189	6-13	1536 / 1553	"	9.7	8.96	1.73	7.13	15.5		.6	12	0	"
2190	6-16	1407 / 1430	"	10.0	9.12	1.67	7.13	15.2		.6	15	0	"
2191	6-20	1536 / 1557	"	9.8	9.04	1.68	7.13	15.2		.6	13	0	"
2192	6-23	1420 / 1443	"	10.2	9.07	1.63	7.12	14.8		.6	14	-.01	"
2193	6-30	1433 / 1450	"	9.9	9.06	1.70	7.12	15.4		.6	12	-.02	"
2194	7-7	1048 / 1110	"	9.5	8.31	1.42	7.05	11.8		.6	17	0	"
2195	7-14	1427 / 1443	"	9.7	7.70	1.13	6.98	8.7		.6	10	0	"
2196	7-21	1250 / 1307	"	9.9	8.32	1.31	7.04	10.9		.6	11	0	"
2197	7-29	1138 / 1156	"	9.7	8.72	1.64	7.11	14.3		.6	18	0	"
2198	8-4	1155 / 1213	"	9.7	8.62	1.47	7.08	12.7		.6	13	0	"
2199	8-11	1120 / 1136	"	9.8	8.82	1.50	7.09	13.2		.6	13	0	"
2200	8-18	1302 / 1321	"	9.8	8.54	1.46	7.07	12.5		.6	13	0	"
2201	8-25	1132 / 1150	"	9.8	8.42	1.39	7.05	11.7		.6	13	0	"
2202	9-1	1315 / 1337	"	9.8	7.80	1.13	6.98	8.8		.6	16	0	"
2203	9-8	1158 / 1217	"	9.8	7.66	1.03	6.97	7.9		.6	17	0	"
2204	9-16	1250 / 1308	"	9.8	8.12	1.08	7.02	8.8		.6	12	0	"
2205	9-22	1250 / 1308	"	9.5	7.06	0.82	6.90	5.8		.6	14	0	"
2206	9-29	1358 / 1414	REINHARD - MIDDLETON	8.5	4.89	0.51	6.78	2.5		.6	12	0	"

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. P3-R

Daily discharge, in second-feet of SAN GABRIEL-WEST FORK above Forks for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.9	8.9	11	15	17	24	37	44	18	8.2	5.0	6.3
2	7.9	9.2	12	15	17	24	33	36	20	8.2	4.8	5.0
3	7.6	9.2	12	15	17	24	58	33	19	8.2	4.8	4.5
4	7.3	8.9	18	15	17	23	61	36	18	7.9	5.0	4.5
5	7.0	9.2	46	15	8.9	22	46	44	17	7.9	5.0	4.2
6	7.3	8.9	32	14	8.7	22	42	41	16	7.9	4.8	4.2
7	7.6	8.9	21	13	58	21	41	41	15	7.6	4.8	4.0
8	7.9	8.9	17	13	42	21	41	41	15	7.6	4.8	4.0
9	8.2	9.2	16	13	32	20	38	38	15	7.6	4.8	3.8
10	8.2	9.2	15	13	26	20	41	38	15	7.3	4.8	3.5
11	8.6	9.2	16	13	24	19	41	33	15	6.6	4.8	3.5
12	8.6	9.2	16	13	25	19	38	25	15	6.6	5.0	3.3
13	8.6	9.2	16	13	25	27	33	23	15	6.0	6.6	3.2
14	8.9	9.2	16	17	24	41	30	21	14	6.0	6.3	3.0
15	8.9	9.2	16	16	23	36	29	b 21	14	6.0	5.8	3.2
16	8.9	10	16	16	25	30	29	b 21	13	5.8	5.2	3.3
17	8.9	10	16	16	26	35	28	b 20	12	5.5	5.0	3.5
18	9.2	10	16	15	26	33	28	21	12	5.5	5.0	3.8
19	9.2	10	15	15	26	33	27	22	12	5.5	4.8	3.8
20	8.9	10	15	17	26	32	27	22	11	6.3	4.8	4.0
21	8.6	10	15	17	26	28	27	21	11	6.3	4.8	4.2
22	8.6	10	15	17	26	26	27	19	11	6.0	4.8	4.5
23	8.6	10	15	17	25	26	26	19	11	6.0	4.8	4.8
24	8.6	10	15	17	25	48	26	19	11	5.8	4.5	5.0
25	8.6	10	16	17	24	50	26	19	10	5.5	4.5	5.0
26	8.6	10	16	17	24	48	26	19	10	5.8	4.2	5.0
27	8.6	10	16	17	24	44	26	19	9.7	5.5	4.2	4.8
28	8.6	10	15	17	26	42	43	18	9.2	5.2	9.4	4.8
29	8.9	10	17	17	26	42	135	18	8.9	5.0	5.0	a 4.5
30	8.9	10	19	17		41	58	18	8.2	4.8	4.5	a 4.5
31	8.9		15	17		39		18		4.8	5.2	
	261.1	286.5	532.	479.	878.	960.	1168.	828.	401.0	198.9	157.8	125.7
MEAN	8.42	9.55	17.2	15.5	30.3	31.	38.9	26.7	13.4	6.42	5.09	4.19
ACRE-FEET	518.	568.	1060.	950.	1740.	1900.	2320.	1640.	795.	395.	313.	249.

Remarks:

YEAR OR PERIOD MEAN 17.1
ACRE-FEET 12,450

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

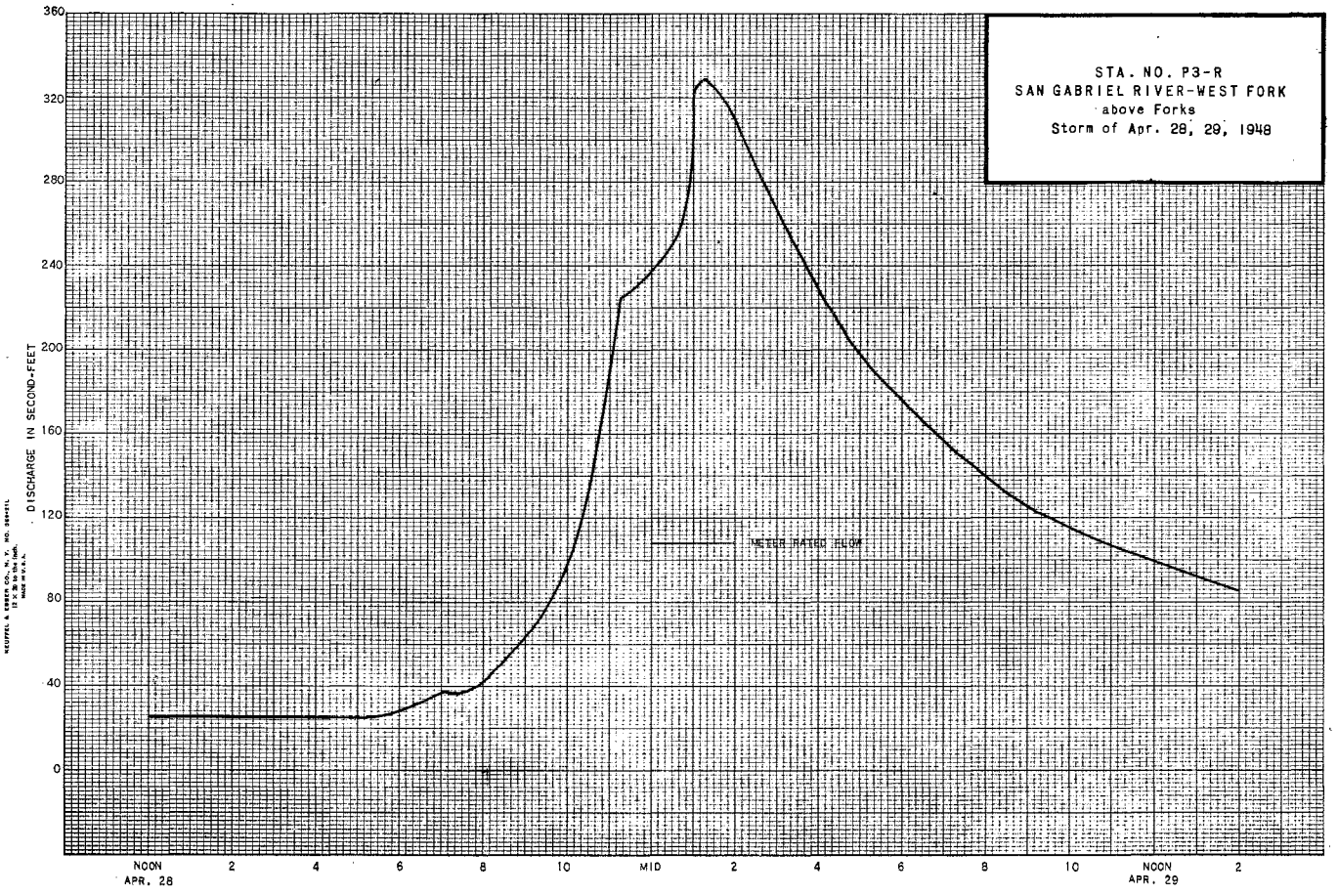
Sta. No. P3-R

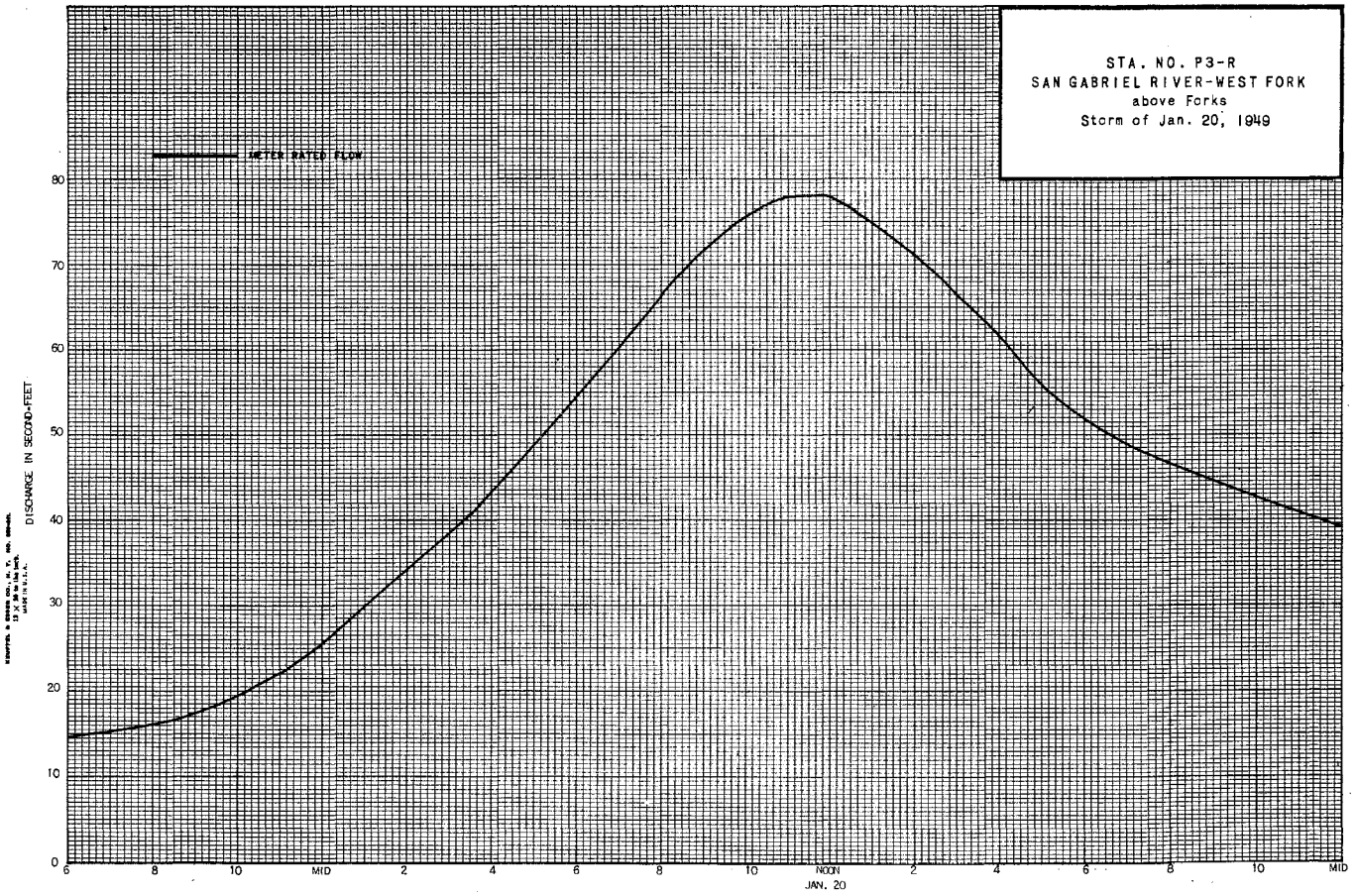
Daily discharge, in second-feet of San Gabriel-West Fork above Forks for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a 4.2	5.2	5.8	14	14	27	23	23	22	14	13	9.0
2	4.2	5.2	5.8	12	14	26	22	22	21	13	13	12
3	4.0	5.2	6.6	11	16	28	22	22	20	12	12	12
4	a 4.0	5.0	8.2	11	15	31	21	22	19	12	12	12
5	3.8	4.5	7.3	11	15	38	20	20	19	11	12	11
6	3.8	4.5	7.0	9.7	15	35	20	19	18	11	12	9.7
7	3.5	4.6	7.0	9.7	16	33	20	19	18	11	12	8.2
8	3.5	4.8	6.6	9.7	16	30	21	19	18	11	12	7.9
9	3.8	4.8	6.6	13	15	27	20	19	17	11	12	7.9
10	4.0	5.0	6.6	12	15	26	20	19	17	10	12	7.9
11	4.2	5.0	6.6	13	19	36	20	19	17	9.7	12	7.9
12	4.5	5.0	6.6	13	27	29	20	18	17	9.7	12	7.9
13	4.5	5.0	6.6	14	23	27	21	19	16	9.2	12	7.6
14	4.8	5.0	6.6	17	20	27	21	21	16	9.7	12	7.3
15	4.8	5.0	6.6	15	19	27	22	23	16	12	12	7.4
16	5.0	5.2	7.0	13	18	26	22	23	15	12	11	8.9
17	5.0	5.2	22	13	18	26	22	23	18	12	13	8.9
18	6.0	5.2	15	13	19	26	22	23	18	11	13	8.9
19	5.8	5.2	12	14	22	26	22	26	17	11	12	8.6
20	5.5	5.2	10	55	22	28	20	27	17	11	12	8.2
21	5.0	5.2	9.7	26	21	26	19	26	16	12	12	7.9
22	4.8	5.2	11	26	20	25	18	24	16	17	12	6.2
23	4.8	5.2	11	29	22	24	17	24	16	14	11	3.8
24	4.5	5.5	11	24	26	23	17	22	16	13	11	3.4
25	4.5	5.8	9.7	20	30	23	17	22	16	14	11	3.0
26	4.5	5.8	10	19	28	23	16	22	17	14	11	2.9
27	4.5	5.8	32	17	35	23	15	21	17	14	11	2.8
28	4.8	5.8	21	15	29	23	16	22	17	13	10	4.2
29	5.0	5.8	18	15		22	25	23	17	13	10	2.8
30	5.2	5.8	15	15		21	24	23	15	13	9.7	2.3
31	5.2		14	15		24		22		13	8.6	
	141.7	155.9	328.9	514.1	569.0	836.0	605.0	677.0	519.0	373.3	360.3	218.5
MEAN	4.57	5.20	10.6	16.6	20.3	27.0	20.2	21.8	17.3	12.0	11.6	7.28
ACRE-FEET	281.	309.	652.	1020.	1130.	1660.	1200.	1340.	1030.	740.	715.	433.

Remarks:

YEAR OR PERIOD MEAN 14.5
ACRE-FEET 10,510


STA. NO. P3-R
SAN GABRIEL RIVER-WEST FORK
above Forks
Storm of Apr. 28, 29, 1948
DISCHARGE IN SECOND-FEET
METER RATED FLOW
360
320
280
240
200
160
120
80
40
0
NOON
APR. 28
2
4
6
8
10
MID
2
4
6
8
10
NOON
APR. 29
2


STA. NO. P3-R
SAN GABRIEL RIVER-WEST FORK
above Forks
Storm of Jan. 20, 1949
METER RATED FLOW
DISCHARGE IN SECOND-FEET
80
70
60
50
40
30
20
10
0
6
8
10
MID
2
4
6
8
10
NOON
JAN. 20
2
4
6
8
10
MID

STATION P4B-R
SAN GABRIEL RIVER-EAST FORK above Forks

LOCATION: WATER-STAGE RECORDER, LAT. 34°14'09", LONG. 117°48'18", ON THE RIGHT (NORTH) BANK ABOVE THE HIGH WATER LINE OF SAN GABRIEL DAM NO. 1, 2.5 MI. ABOVE THE WEST FORK AND 8 MILES NORTHEAST OF GLENDORA. ELEVATION OF ZERO GAGE HEIGHT, 1567.04 FEET. FORMER STATION P4-R WAS ABOUT 0.6 OF A MILE DOWNSTREAM.

DRAINAGE AREA: 88.2 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - SAND, GRAVEL AND BOULDERS. CONTROL - A CONCRETE CONTROL WITH A 20-FOOT LOW FLOW NOTCH WAS CONSTRUCTED IN NOVEMBER 1947.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM CABLE CAR 23 FEET ABOVE GAGE.

RECORDER: INSTALLED NOVEMBER 30, 1932, AT STATION P4-R. MOVED TO STATION P4B-R DECEMBER 10, 1938 AND INSTALLED IN A CONCRETE HOUSE OVER A 4 FT. X 4 FT. CONCRETE STILLING WELL. AN AU CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: NONE.

DIVERSIONS: NONE.

RECORDS AVAILABLE: AT STATION P4-R AND P4B-R, NOVEMBER 30, 1932 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:

1947-1948
MAXIMUM 210 SECOND-FEET, APRIL 29.
MINIMUM 6.3 SECOND-FEET, SEVERAL DAYS IN OCTOBER.

1948-1949
MAXIMUM 70 SECOND-FEET, APRIL 24.
MINIMUM 5.7 SECOND-FEET, SEPTEMBER 7.

1932-1949
MAXIMUM 46,000 SECOND-FEET, MARCH 2, 1938 (COMPUTED BY GEOLOGICAL SURVEY).
MINIMUM 1.5 SECOND-FEET, OCTOBER 1, 1934.

ACCURACY: POOR DUE TO EXTREME CHANNEL SHIFT.

OPERATION: MOVED FROM A PREVIOUS LOCATION BY THE DISTRICT FOR THE PASADENA WATER DEPARTMENT. THE STATION WAS LATER TAKEN OVER, RECONSTRUCTED AND OPERATED BY THE DISTRICT IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER- EAST FORK

~~AT NEAR~~ above Forks DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	D. HT. CHANGE TOTAL	METER NO.
1660	10-2	1433 / 1455	MIDDLETON	TWO CHANNELS			9.25	13.0		.6	14	0	FC29
1661	10-6	1500 / 1521	"	"	"		9.25	12.2		.6	14	0	"
1662	10-9	0955 / 1017	"	"	"		9.28	13.7		.6	14	0	"
1663	10-14	0926 / 0950	"	"	"		9.31	15.8		.6	14	0	"
1664	10-16	0930 / 0950	MIDDLETON-H. WILSON	"	"		9.30	15.5		.6	14	0	"
1665	10-16	0952 / 1015	H. WILSON-MIDDLETON	"	"		9.30	15.5		.6	13	0	"
1666	10-20	1048 / 1105	MIDDLETON-D. WILSON	"	"		9.28	14.3		.6	14	0	"
1667	10-23	0924 / 0946	H. WILSON-MIDDLETON	"	"		9.28	14.3		.6	14	0	"
1668	10-27	0935 / 0955	D. WILSON-MIDDLETON	"	"		9.27	12.3		.6	14	0	"
1669	10-27	0955 / 1015	MIDDLETON-D. WILSON	"	"		9.27	13.6		.6	14	0	"
1670	10-30	1105 / 1130	H. WILSON-MIDDLETON	"	"		9.28	13.9		.6	15	0	"
1671	11-3	1000 / 1020	D. WILSON-MIDDLETON	"	"		9.28	14.1		.6	14	0	"
1672	11-6	1503 / 1525	MIDDLETON	"	"		9.27	13.8		.6	14	0	"
1673	11-10	1133 / 1155	"	"	"		9.28	14.3		.6	15	0	"
1674	11-13	0938 / 1002	"	"	"		9.28	14.0		.6	16	0	"
1675	11-17	0954 / 1017	"	"	"		9.29	14.4		.6	16	0	"
1676	11-20	1508 / 1532	"	"	"		9.30	14.9		.6	16	0	"
1677	11-24	1416 / 1442	"	"	"		9.30	14.8		.6	16	0	"
1678	11-26	1114 / 1137	"	"	"		9.29	14.4		.6	16	0	"
1679	12-1	1357 / 1422	"	"	"		9.29	14.2		.6	16	0	"
1680	12-4	1350 / 1420	MIDDLETON-SPANGLER	"	"		9.62	39.2		.6	21	0	"
1681	12-4	1430 / 1455	" "	"	"		9.59	36.1		.6	22	-.02	"
1682	12-5	0930 / 0957	" "	"	"		9.57	38.0		.6	23	0	"
1683	12-6	1140 / 1212	MIDDLETON	"	"		9.48	27.8		.6	22	0	"
1684	12-8	1513 / 1542	MIDDLETON-SPANGLER	"	"		9.38	20.5		.6	20	0	"
1685	12-11	1520 / 1552	" "	"	"		9.37	17.9		.6	20	0	"
1686	12-15	1507 / 1534	" "	"	"		9.36	17.9		.6	20	0	"
1687	12-18	1445 / 1508	" "	"	"		9.36	17.8		.6	20	0	"
1688	12-22	1445 / 1515	" "	"	"		9.36	17.7		.6	20	0	"
1689	12-27	1030 / 1058	MIDDLETON	"	"		9.36	18.4		.6	20	0	"
1690	12-29	1438 / 1503	SPANGLER-MIDDLETON	"	"		9.35	16.9	EST.	.6	17	0	"
1691	12-29	1506 / 1533	MIDDLETON-SPANGLER	"	"		9.35	17.1		.6	20	0	"
1692	1-2	1500 / 1530	MIDDLETON	"	"		9.35	16.9	EST.	.6	16	0	"
1693	1-5	1445 / 1520	"	"	"		9.35	17.2	EST.	.6	16	0	"
1694	1-8	1435 / 1515	MIDDLETON-SPANGLER	"	"		9.35	17.3		.6	19	0	"
1695	1-12	1500 / 1532	" "	"	"		9.35	17.2		.6	20	0	"
1696	1-16	1450 / 1515	MIDDLETON	"	"		9.33	17.0	EST.	.6	17	0	"
1697	1-19	1452 / 1520	"	"	"		9.33	16.4	EST.	.6	17	0	"
1698	1-22	1455 / 1530	"	"	"		9.32	16.5		.6	21	0	"
1699	1-26	1400 / 1427	"	"	"		9.33	16.4		.6	19	0	"
1700	1-29	1503 / 1527	"	"	"		9.33	16.5	EST.	.6	17	0	"
1701	2-2	1510 / 1542	"	"	"		9.33	17.0		.6	20	0	"
1702	2-5	0800 / 0910	SPANGLER	"	"		9.65	43.8		.6	25	+.02	FC11
1703	2-5	0943 / 1007	MIDDLETON-SPANGLER	"	"		9.69	50.7		.6	17	+.02	"
1704	2-5	1235 / 1320	SPANGLER	"	"		9.66	47.7		.6	26	+.01	"
1705	2-5	1545 / 1610	MIDDLETON-SPANGLER	"	"		9.67	50.4		.6	18	C	"
1706	2-6	1455 / 1522	MIDDLETON	"	"		9.54	32.1		.6	23	0	"
1707	2-9	1455 / 1526	"	"	"		9.41	22.2		.6	21	C	FC29
1708	2-13	1505 / 1535	"	"	"		9.38	20.7		.6	21	C	"
1709	2-16	1405 / 1436	"	"	"		9.38	19.4		.6	20	C	"
1710	2-19	1418 / 1450	"	"	"		9.45	25.0		.6	21	C	"
1711	2-24	0945 / 1021	"	"	"		9.49	27.4		.6	21	C	"
1712	2-26	1455 / 1524	"	"	"		9.45	23.8		.6	21	C	"
1713	3-1	1008 / 1037	"	"	"		9.46	24.6		.6	21	C	"
1714	3-4	1505 / 1537	"	"	"		9.43	22.6		.6	21	C	"
1715	3-8	1520 / 1548	"	"	"		9.41	21.4		.6	21	C	"
1716	3-11	1515 / 1546	"	"	"		9.40	20.6		.6	20	C	"
1717	3-15	1506 / 1540	"	"	"		9.51	28.7		.6	21	0	"
1718	3-17	0945 / 1020	"	"	"		9.57	36.0		.6	22	C	"
1719	3-18	1445 / 1512	"	"	"		9.50	28.6		.6	21	0	"
1720	3-22	1404 / 1435	"	"	"		9.48	26.7		.6	21	0	"
1721	3-24	1802 / 1830	LANG - SPANGLER	"	"		9.68	52.5		.6	23	C	FC11
1722	3-25	1503 / 1535	MIDDLETON	"	"		9.58	37.2		.6	22	-.01	FC29
1723	3-29	1430 / 1502	"	"	"		9.55	34.5		.6	22	0	"
1724	4-1	1517 / 1548	"	"	"		9.55	33.3		.6	22	0	"
1725	4-3	1230 / 1255	MIDDLETON-SPANGLER	"	"		9.65	45.7		.6	24	+.01	"
1726	4-3	1535 / 1557	" "	"	"		9.71	60.9		.6	25	+.01	"
1727	4-3	1627 / 1653	" "	"	"		9.72	65.4		.6	24	+.01	"
1728	4-3	1700 / 1732	"	"	"		9.73	67.2		.6	25	0	"
1729	4-3	1835 / 1920	SPANGLER	"	"		9.73	66.9		.6	26	C	FC11
1730	4-3	2218 / 2247	MIDDLETON-SPANGLER	"	"		9.75	74.5		.6	24	0	FC29
1731	4-3	2318 / 2350	MIDDLETON-SPANGLER	"	"		9.75	75.4		.6	26	0	"
1732	4-4	1345 / 1422	MIDDLETON	"	"		9.73	64.1		.6	26	0	"
1733	4-5	1445 / 1520	"	"	"		9.69	55.1		.6	26	C	"
1734	4-8	1512 / 1550	"	"	"		9.63	42.8		.6	25	C	"
1735	4-12	1304 / 1336	"	"	"		9.66	46.8		.6	25	-.01	"
1736	4-15	1545 / 1617	"	"	"		9.63	43.8		.6	24	C	"
1737	4-19	1308 / 1410	"	"	"		9.66	47.4		.6	24	C	"
1738	4-22	1422 / 1455	"	"	"		9.65	44.9		.6	24	0	"
1739	4-26	1428 / 1505	"	"	"		9.61	40.9		.6	24	C	"
1740	4-29	0910 / 0945	MIDDLETON-SPANGLER	"	"		9.93	137.		.6	25	-.01	"
1741	4-30	0855 / 0930	MIDDLETON	"	"		9.80	76.3		.6	25	0	"
1742	5-3	1543 / 1616	"	"	"		9.68	49.2		.6	24	0	"
1743	5-6	1404 / 1437	"	"	"		9.66	47.9		.6	24	C	"
1744	5-10	1202 / 1233	"	"	"		9.64	44.3		.6	23	0	"
1745	5-13	1046 / 1118	"	"	"		9.62	41.7		.6	23	C	"
1746	5-17	1527 / 1558	"	"	"		9.58	35.6		.6	23	0	"
1747	5-20	1538 / 1612	"	"	"		9.56	33.8		.6	23	0	"
1748	5-24	1427 / 1458	"	"	"		9.53	30.9		.6	24	C	"
1749	5-27	1443 / 1517	"	"	"		9.53	30.7		.6	23	0	"

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1750	5-31	1420 / 1452	"	"	"		9.51	28.5		.6	22	0	"
1751	6-4	0950 / 1020	"	"	"		9.52	29.7		.6	22	0	"
1752	6-7	1515 / 1540	"	"	"		9.46	24.1		.6	19	-.01	"
1753	6-10	1455 / 1527	"	"	"		9.46	23.2		.6	18	0	"
1754	6-14	1500 / 1527	"	"	"		9.44	21.1		.6	16	0	"
1755	6-17	0953 / 1025	"	"	"		9.45	21.6		.6	16	C	FC29
1756	6-21	1503 / 1527	"	14.5	11.8	1.59	9.42	18.8		.6	14	0	"
1757	6-24	1505 / 1526	"	14.C	11.2	1.57	9.4C	17.6		.6	14	0	"
1758	6-28	1104 / 1126	"	14.C	11.2	1.56	9.41	17.7		.6	14	0	"
1759	7-1	1600 / 1622	"	14.C	10.3	1.43	9.27	14.7		6	14	0	"
1760	7-6	1205 / 1227	"	14.C	10.6	1.46	9.28	15.5		.6	14	C	"
1761	7-8	1445 / 1512	"	14.0	9.92	1.44	9.25	14.3		6	14	C	"
1762	7-15	1525 / 1548	"	13.8	9.37	1.29	9.17	12.1		6	14	+.02	"
1763	7-22	1455 / 1513	"	13.8	9.49	1.20	9.16	11.4		.6	14	C	"
1764	7-29	1515 / 1535	"	13.C	9.32	1.16	9.15	10.8		.6	13	0	"
1765	8-2	1107 / 1130	LANG	12.9	9.27	1.21	9.16	11.2		.6	16	0	"
1766	8-5	1352 / 1414	LYNN - LANG	12.9	9.C5	1.11	9.15	10.0		.6	15	0	"
1767	8-12	1240 / 1302	J. H. LANG - L. LANG	13.1	9.15	1.12	9.12	10.2		.6	15	C	"
1768	8-19	1405 / 1420	LANG	12.7	8.49	0.76	9.08	8.9		.6	13	C	"
1769	8-26	1010 / 1032	MIDDLETON	13.5	9.01	1.05	9.13	9.5		.6	13	C	"
1770	9-2	1342 / 1400	"	13.1	8.48	0.92	9.08	7.8		.6	13	0	"
1771	9-10	1705 / 1727	"	12.9	8.15	0.85	9.06	6.9		.6	13	C	"
1772	9-16	1425 / 1440	"	10.9	7.62	1.01	9.12	7.7		.6	11	C	"
1773	9-23	1405 / 1421	"	11.5	8.15	1.14	9.13	9.3		.6	11	0	"
1774	9-30	1335 / 1350	"	11.3	8.13	1.06	9.12	8.6		.6	11	C	"

DISCHARGE MEASUREMENTS OF SAN GABRIEL-EAST FORK

AT above Forks DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1775	10-7	1550 / 1607	MIDDLETON	10.8	7.64	0.94	9.12	7.2		.6	11	0	FC29
1776	10-14	1017 / 1036	"	11.5	8.29	1.11	9.18	9.2		.6	11	0	"
1777	10-18	1506 / 1523	"	11.6	8.96	1.28	9.24	11.5		.6	12	0	"
1778	10-21	1520 / 1537	"	10.7	8.19	1.12	9.18	9.2		.6	12	0	"
1779	10-28	1340 / 1358	"	11.3	8.43	1.14	9.19	9.6		.6	11	+.01	"
1780	11-1	0950 / 1006	"	11.0	8.54	1.18	9.19	10.1		.6	11	0	"
1781	11-4	1353 / 1412	"	10.9	8.23	1.12	9.18	9.2		.6	11	0	"
1782	11-12	1022 / 1038	"	11.0	8.41	1.15	9.18	9.7		.6	11	0	FC18
1783	11-16	1008 / 1025	"	11.2	8.51	1.16	9.18	9.9		.6	11	0	FC29
1784	11-26	1005 / 1024	"	11.3	8.74	1.13	9.19	9.9		.6	11	0	"
1785	12-2	1535 / 1555	WILLUT - MIDDLETON	11.0	8.56	1.12	9.19	9.6		.6	11	0	"
1786	12-2	1556 / 1612	MIDDLETON - WILLUT	11.0	8.66	1.12	9.19	9.7		.6	11	0	"
1787	12-6	1325 / 1342	MIDDLETON	11.3	9.20	1.23	9.23	11.3		.6	11	0	"
1788	12-9	1520 / 1538	"	11.5	9.29	1.22	9.22	11.3		.6	12	0	"
1789	12-16	1450 / 1507	"	11.5	9.36	1.22	9.23	11.4		.6	12	C	"
1790	12-17	1403 / 1425	SPANGLER - MIDDLETON	13.5	11.3	1.72	9.37	19.4		.6	13	+.02	"
1791	12-20	0950 / 1008	MIDDLETON	12.5	9.49	1.40	9.27	13.3		.6	12	0	"
1792	12-22	1419 / 1437	SPANGLER - MIDDLETON	12.6	9.85	1.47	9.29	14.5		.6	12	+.01	"
1793	12-23	1254 / 1312	MIDDLETON	12.5	9.70	1.52	9.28	14.7		.6	12	0	"
1794	12-27	1117 / 1138	SPANGLER - MIDDLETON	14.0	12.1	1.88	9.38	22.8		.6	13	0	"
1795	12-30	1436 / 1455	MIDDLETON	12.5	9.71	1.53	9.24	14.9		.6	13	0	"
1796	1-3	1422 / 1440	"	11.8	8.87	1.34	9.17	11.9		.6	11	0	"
1797	1-6	1258 / 1315	"	12.0	8.97	1.26	9.17	11.3		.6	12	0	"
1798	1-10	1353 / 1411	"	12.7	9.69	1.47	9.24	14.2		.6	12	0	"
1799	1-11	1438 / 1457	"	13.2	10.2	1.49	9.25	15.2		.6	13	0	"
1800	1-13	1023 / 1042	"	13.2	10.3	1.61	9.27	16.6		.6	13	0	"
1801	1-17	1300 / 1318	"	12.2	9.57	1.47	9.23	14.1		.6	12	0	"
1802	1-20	0925 / 0945	MIDDLETON - SPANGLER	TWO CHANNELS			9.58	39.8		.6 EST.	16	0	"
1803	1-20	1305 / 1327	" "	" "			9.55	38.6		.6	19	0	"
1804	1-22	1525 / 1543	" "	" "			9.42	27.1		.6	17	0	"
1805	1-24	1255 / 1315	MIDDLETON	13.9	11.4	1.94	9.35	22.1		.6	13	0	"
1806	1-27	1027 / 1045	DIAS - MIDDLETON	13.2	10.3	1.79	9.31	18.4		.6	13	0	"
1807	2-3	1002 / 1020	MIDDLETON	13.7	10.8	1.69	9.30	18.3		.6	13	0	"
1808	2-7	0942 / 0958	"	13.7	11.0	1.80	9.31	19.8		.6	13	0	"
1809	2-7	1400 / 1418	"	14.3	11.7	1.90	9.35	22.2		.6	13	0	"
1810	2-10	1315 / 1334	"	13.5	10.5	1.70	9.29	17.9		.6	13	0	"
1811	2-17	1538 / 1557	"	13.5	10.9	1.77	9.30	19.3		.6	13	0	"
1812	2-21	1538 / 1600	WILLUT - MIDDLETON	13.7	11.2	1.98	9.36	22.2		.6	13	0	"
1813	2-24	1247 / 1310	MIDDLETON	15.0	13.2	2.12	9.44	28.0		.6	14	+.01	"
1814	2-24	1512 / 1533	"	16.2	13.9	2.19	9.46	30.5		.6	15	0	"
1815	2-25	1250 / 1312	"	15.5	14.8	2.44	9.51	36.1		.6	15	0	"
1816	2-28	1442 / 1503	"	15.6	14.5	2.38	9.50	34.5		.6	15	0	"
1817	3-3	1430 / 1452	"	15.2	14.0	2.29	9.47	32.0		.6	15	0	"
1818	3-4	2048 / 2110	MIDDLETON - SPANGLER	TWO CHANNELS			9.61	47.1		.6	18	+.01	"
1819	3-4	2222 / 2252	SPANGLER - MIDDLETON	" "			9.62	48.9		.6	19	0	"
1820	3-7	1033 / 1028	MIDDLETON	16.0	14.9	2.38	9.52	35.5		.6	15	0	"
1821	3-10	1254 / 1316	"	16.0	14.4	2.24	9.49	32.3		.6	15	0	"
1822	3-11	0110 / 0132	MIDDLETON-SPANGLER	TWO CHANNELS			9.56	40.8		.6 EST.	19	+.02	"
1823	3-11	1023 / 1045	MIDDLETON	"	"		9.60	44.8		.6	19	0	"
1824	3-14	1003 / 1028	"	"	"		9.54	38.7		.6	20	0	"
1825	3-17	1533 / 1558	"	"	"		9.55	39.1		.6	20	0	"
1826	3-21	1022 / 1055	"	"	"		9.61	45.3		.6	22	0	"
1827	3-24	0958 / 1028	"	"	"		9.60	45.1		.6	20	0	"
1828	3-28	1030 / 1055	"	"	"		9.58	43.2		.6	20	0	"
1829	3-31	1512 / 1548	"	"	"		9.58	41.3		.6	20	0	"
1830	4-4	1420 / 1443	"	"	"		9.52	35.8		.6	18	0	"
1831	4-7	1432 / 1454	"	"	"		9.56	37.4		.6	18	0	"
1832	4-11	1527 / 1553	"	"	"		9.61	47.0		.6	20	0	"
1833	4-14	1402 / 1433	"	"	"		9.70	57.2		.6	24	0	"
1834	4-18	1055 / 1128	"	"	"		9.71	57.6		.6	23	0	"
1835	4-21	1432 / 1503	"	"	"		9.69	54.5		.6	24	0	"
1836	4-25	1400 / 1436	"	"	"		9.73	63.0		.6	25	-.01	"
1837	4-28	1600 / 1626	LANG - MIDDLETON	"	"		9.66	49.2		.6	24	-.01	"
1838	5-2	1455 / 1532	LANG	"	"		9.62	44.1		.6	23	0	"
1839	5-5	1350 / 1423	"	"	"		9.59	41.9		.6	22	0	"
1840	5-9	1055 / 1124	"	"	"		9.58	39.3		.6	21	C	"
1841	5-12	1620 / 1646	"	"	"		9.51	33.8		.6	18	0	"
1842	5-16	1315 / 1342	MIDDLETON	"	"		9.53	35.6		.6	18	0	"
1843	5-19	1438 / 1505	"	"	"		9.58	42.8		.6	22	0	"
1844	5-23	1302 / 1325	"	"	"		9.46	30.3		.6	17	-.01	"
1845	5-26	1503 / 1532	"	"	"		9.43	27.8		.6	16	-.01	"
1846	6-3	1447 / 1507	"	13.3	12.1	1.97	9.37	23.8		.6	14	-.01	"
1847	6-6	1230 / 1252	"	13.4	12.1	1.92	9.36	23.2		.6	14	0	"
1848	6-9	1540 / 1558	"	13.0	11.0	1.78	9.31	19.6		.6	14	0	"
1849	6-13	1240 / 1300	"	13.2	11.2	1.75	9.31	19.6		.6	14	0	"
1850	6-16	1503 / 1525	"	13.1	10.5	1.67	9.27	17.5		.6	15	0	"
1851	6-20	1302 / 1323	"	13.1	10.6	1.60	9.26	17.0		.6	13	-.01	"
1852	6-23	1520 / 1542	"	13.0	10.1	1.52	9.23	15.4		.6	13	-.01	"
1853	6-30	1520 / 1538	"	13.0	10.1	1.47	9.21	14.8		.6	13	0	"
1854	7-7	1330 / 1348	"	12.8	9.44	1.38	9.19	13.0		.6	13	0	"
1855	7-14	1527 / 1545	"	12.5	8.90	1.19	9.13	10.6		.6	13	0	"
1856	7-21	1414 / 1432	"	12.5	8.75	1.10	9.13	9.6		.6	13	0	"
1857	7-29	0847 / 0905	"	12.6	9.06	1.19	9.15	10.8		.6	13	0	"
1858	8-4	1436 / 1452	"	12.2	8.25	0.99	9.08	8.2		.6	13	0	"
1859	8-11	1445 / 1503	"	10.7	8.08	1.15	9.10	9.3		.6	12	0	"
1860	8-18	1510 / 1528	"	10.7	7.70	1.03	9.07	7.9		.6	12	0	"
1861	8-25	1320 / 1338	"	10.8	7.68	1.00	9.07	7.7		.6	12	C	"
1862	9-1	1450 / 1508	"	10.8	7.47	0.90	9.04	6.7		.6	12	-.01	"
1863	9-8	0930 / 0948	"	10.8	7.65	0.97	9.06	7.4		.6	12	C	"
1864	9-16	1347 / 1405	"	10.7	7.56	0.93	9.06	7.0		.6	12	C	"
1865	9-22	1420 / 1437	"	11.0	8.21	1.09	9.10	9.0		.6	12	0	"
1866	9-29	1514 / 1530	REINHARD-MIDDLETON	11.0	7.12	0.90	9.06	6.4		.6	11	0	"

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. P4-R

Daily discharge, in second-feet of SAN GABRIEL-EAST FORK above Forks, for the year ending September 30, 19 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13	14	14	17	17	24	33	57	30	16	11	8.2
2	12	14	b14	17	17	24	35	54	33	16	10	7.6
3	12	14	14	17	17	23	50	51	30	16	10	7.3
4	12	14	36	17	17	23	67	49	29	16	10	7.3
5	12	14	b50	17	40	23	57	49	28	15	10	7.3
6	12	14	28	17	30	23	52	47	26	15	10	7.3
7	12	b 14	25	17	26	22	46	49	24	14	10	6.9
8	13	14	21	17	24	22	42	46	24	14	10	6.9
9	13	b 14	20	17	b 23	21	40	44	24	14	10	7.3
10	13	14	19	17	21	21	47	42	23	14	10	7.3
11	14	14	18	17	21	21	49	40	23	14	9.6	7.6
12	b 14	b 14	18	17	20	21	46	40	23	14	9.6	7.9
13	b 15	14	18	17	b 20	24	44	40	22	13	9.3	7.9
14	15	14	18	17	20	34	42	40	21	12	9.3	8.2
15	15	14	18	17	20	31	42	39	21	12	9.0	8.6
16	15	14	18	17	20	28	46	39	21	12	9.0	9.0
17	14	14	18	17	21	32	47	37	21	12	9.0	9.3
18	14	b 14	18	16	23	30	47	37	20	12	9.0	9.6
19	14	14	18	16	24	30	47	36	20	12	9.0	9.3
20	14	b 15	18	16	25	30	47	35	19	12	9.0	9.3
21	14	15	18	17	25	28	46	34	19	11	9.0	9.0
22	14	b 15	18	17	26	27	46	32	19	12	9.3	9.0
23	14	b 15	17	17	27	26	44	31	18	12	9.3	9.0
24	14	15	17	17	27	38	42	31	18	12	9.3	a 9.0
25	b 13	14	17	16	26	42	40	30	17	11	9.3	9.0
26	b 13	14	18	16	25	36	40	30	17	10	9.0	8.6
27	13	14	18	16	25	34	44	30	17	10	9.0	8.2
28	13	14	18	16	26	34	51	30	16	10	9.0	8.2
29	14	14	18	16	26	34	133	29	b16	10	9.0	a 8.2
30	14	14	18	16		35	74	29	15	11	9.0	8.2
31	14		17	17		33		29		11	8.6	
	418	425	615	518	679	874	1486	1206	654	395	292.6	246.5
MEAN	13.5	14.2	19.8	16.7	23.4	28.2	49.5	38.9	21.8	12.7	9.44	8.22
ACRE-FEET	829.	843.	1220.	1030.	1350.	1730.	2950.	2390.	1300.	783.	580.	489.

Remarks:

YEAR OR PERIOD MEAN 21.3
ACRE-FEET 15,490.

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

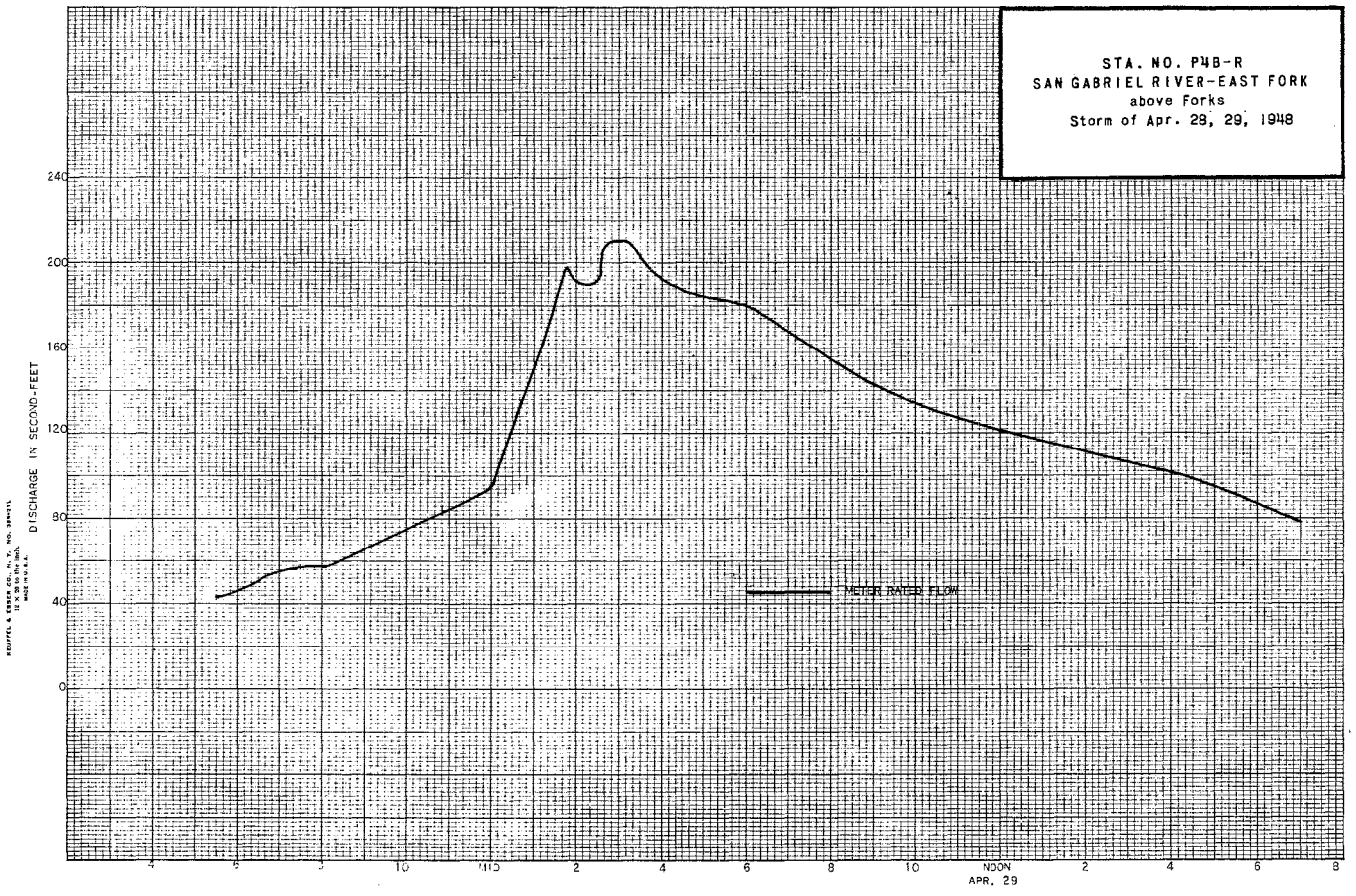
Sta. No. P4B-R

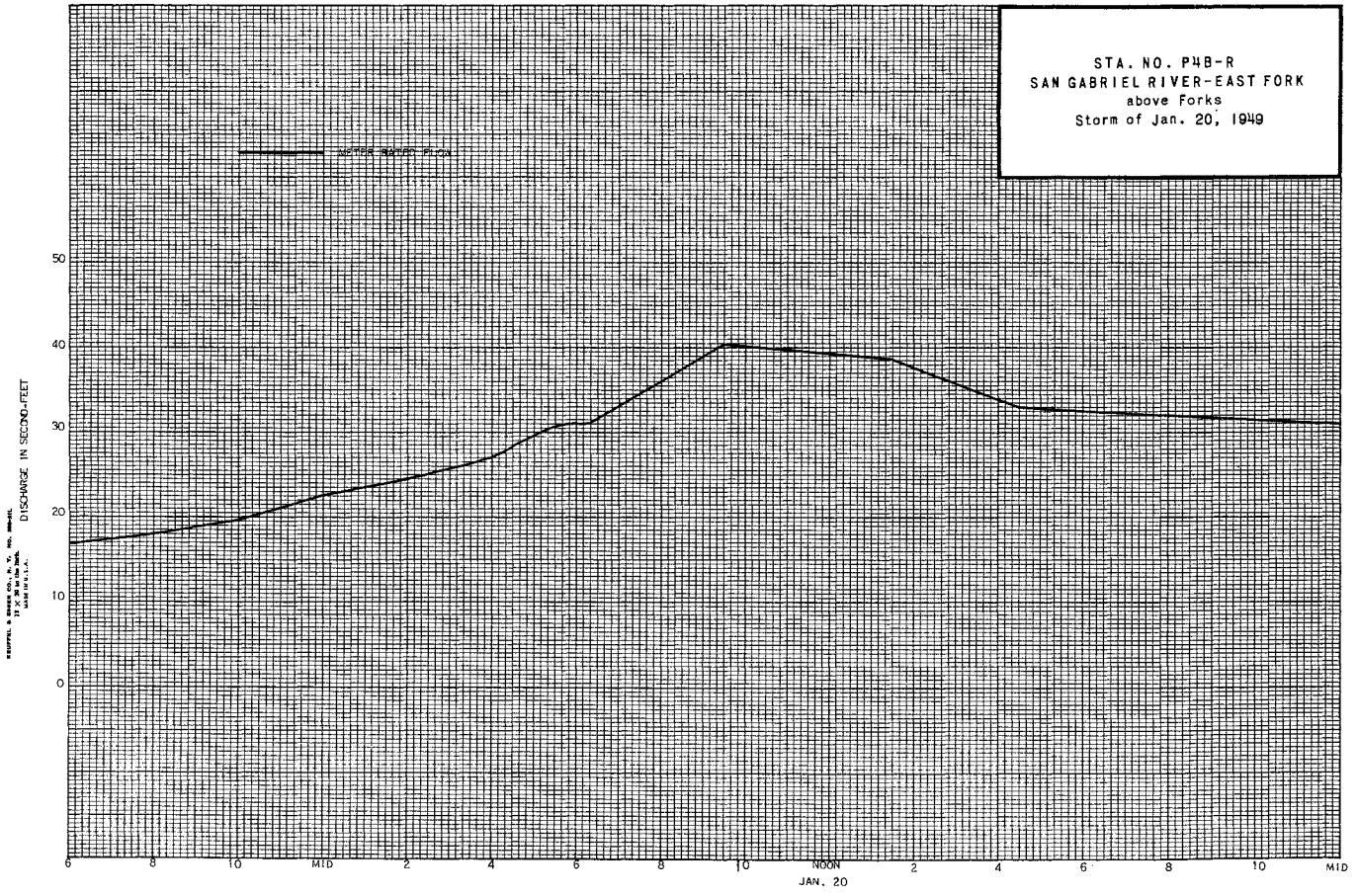
Daily discharge, in second-feet of San Gabriel-East Fork above Forks, for the year ending September 30, 19 49

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.6	a 9.6	10	15	17	33	40	49	26	16	9.0	6.9
2	9.0	9.6	10	14	17	32	40	47	25	15	8.6	6.9
3	9.3	9.6	11	12	18	32	39	47	24	14	8.6	6.9
4	9.6	a 9.6	12	10	18	36	37	46	24	14	8.2	6.6
5	9.6	9.3	12	9.6	18	39	37	46	24	14	8.6	6.3
6	9.0	9.3	11	11	18	36	39	42	23	13	8.2	6.3
7	7.9	9.3	11	12	20	36	39	40	23	13	8.2	6.3
8	7.9	9.3	11	12	20	35	40	37	21	12	8.6	6.3
9	8.2	9.3	11	14	18	32	42	37	21	12	8.6	6.9
10	8.2	9.3	11	14	18	32	47	37	20	12	9.0	7.3
11	8.6	9.3	11	15	20	43	49	37	20	12	9.0	7.3
12	9.3	9.3	11	16	23	40	52	36	20	11	9.0	7.3
13	9.3	9.3	11	17	22	40	54	36	20	11	8.6	7.3
14	9.3	9.3	11	17	21	39	61	39	19	11	8.6	7.3
15	9.0	9.3	11	16	20	39	61	37	18	11	8.6	7.3
16	8.6	9.3	11	15	20	39	57	36	18	10	8.6	7.3
17	8.6	9.3	19	14	20	39	57	36	18	10	8.2	7.3
18	11	9.3	17	14	20	40	54	36	18	10	8.2	7.3
19	11	9.3	14	16	21	44	54	39	18	10	8.2	6.9
20	10	9.3	13	33	22	46	54	36	18	10	8.2	6.9
21	9.6	9.3	13	26	22	44	57	33	17	10	8.2	7.3
22	9.0	9.3	14	27	23	44	64	31	17	10	7.9	9.0
23	8.6	9.3	15	26	24	47	64	29	16	9.6	7.6	8.2
24	9.0	9.6	14	22	29	44	64	28	16	9.6	7.6	7.9
25	9.0	9.6	14	20	37	42	64	29	16	9.6	7.6	7.9
26	9.3	10	14	18	37	39	57	29	16	10	7.6	8.2
27	9.3	10	22	18	40	39	57	29	16	10	7.3	8.2
28	9.6	10	17	18	36	42	54	29	16	10	7.3	7.9
29	9.6	10	16	17		40	54	29	16	10	7.3	7.9
30	10	10	15	17		40	51	28	16	9.6	7.3	7.9
31	10		14	17		42		27		9.3	7.3	
	285.0	284.3	407.0	522.6	639.0	1215.0	1539.0	1117.0	580.0	348.7	253.8	219.3
MEAN	9.19	9.48	13.1	16.9	22.8	39.2	51.3	36.0	19.3	11.2	8.19	7.31
ACRE-FEET	565.	564.	807.	1040.	1270	2410.	3050.	2220.	1150.	692.	503.	435.

Remarks:

YEAR OR PERIOD MEAN 20.3
ACRE-FEET 14,700.


STA. NO. P48-R
SAN GABRIEL RIVER-EAST FORK
above Forks
Storm of Apr. 29, 29, 1948
DISCHARGE IN SECOND-FEET
240
200
160
120
80
40
0
METER RATED FLOW
4
6
8
10
MID
2
4
6
8
10
NOON
2
4
6
8
APR. 29


STA. NO. P48-R
SAN GABRIEL RIVER-EAST FORK
above Forks
Storm of Jan. 20, 1949
METER RATED FLOW
DISCHARGE IN SECOND-FEET
50
40
30
20
10
0
6
8
10
MID
2
4
6
8
10
NOON
2
4
6
8
10
MID
JAN. 20

STATION F250-R
SAN GABRIEL-AZUSA CONDUIT at weir below San Gabriel Dam No. 1

LOCATION: WATER-STAGE RECORDER, LAT. 34°12'15", LONG. 117°51'18", ON THE LEFT (EAST) SIDE OF THE SANDBOX ON AZUSA CONDUIT, 12 FEET ABOVE THE 25-FOOT WEIR AND APPROXIMATELY 100 FEET BELOW THE 30-FOOT OUTLET TUNNEL AT SAN GABRIEL DAM NO. 1; APPROXIMATELY 2500 FEET BELOW THE OLD EDISON INTAKE (ABANDONED), AND APPROXIMATELY 3900 FEET ABOVE STATION F220-R.

CHANNEL AND CONTROL: CHANNEL - CONCRETE SANDBOX WITH SLUICE GATES AND A CONCRETE BY-PASS CHANNEL. A SECONDARY BOX WITH A TAINTOR GATE AND A 10-FOOT WEIR CONTROLS THE FLOW INTO THE CONDUIT. CONTROL - A 25-FOOT, SHARP-CRESTED WEIR WITH TWO END CONTRACTIONS. STATION F250-R GIVES A RECORD OF THE HEAD ON THE 25-FOOT WEIR; STATION F220-R GIVES A RECORD OF THE FLOW DOWN THE AZUSA CONDUIT BELOW THE TAINTOR GATE.

RECORDER: INSTALLED FEBRUARY 14, 1935 OVER A 24-INCH CORRUGATED IRON PIPE STILLING WELL. AN AU CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

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, 1949.

EXTREMES OF DISCHARGE: FLOW IS ENTIRELY REGULATED BY VALVE RELEASE. . CAPACITY OF SANDBOX IS APPROXIMATELY 165 SECOND-FEET. CAPACITY OF 25 FT. WEIR IS ABOUT 142 SECOND-FEET. CAPACITY OF THE AZUSA CONDUIT IS APPROXIMATELY 95 SECOND-FEET.

ACCURACY: EXCELLENT.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

REMARKS: STATION F250-R IS A RECORD OF DISCHARGES FROM SAN GABRIEL DAM NO. 1 THROUGH THE SANDBOX ONLY AND DOES NOT NECESSARILY REFLECT DISCHARGE TO THE AZUSA CONDUIT. (SEE STATION F220-R).

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F250-R

Daily discharge, in second-feet of SAN GABRIEL-AZUSA CONDUIT at Weir below San Gabriel Dam #1, for the year ending September 30, 19 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	60	60	41	36	30	19.8	20	0	44	45	50	44
2	60	59	41	36	30	19.8	20	0	44	45	50	44
3	60	59	41	36	30	19.8	20	0	44	45	50	45
4	60	59	41	36	30	19.8	20	0	46	45	50	45
5	60	59	41	36	30	19.8	20	0	46	45	50	45
6	60	59	41	36	30	19.8	20	0	45	46	49	45
7	60	59	41	35	30	19.8	20	0	45	50	49	45
8	60	59	41	34	30	19.8	20	0	45	50	49	45
9	60	46	41	34	30	19.8	21	0	45	50	49	45
10	60	41	41	34	30	19.8	20	0	45	50	49	45
11	60	41	41	34	30	19.8	20	28	45	50	46	44
12	60	40	41	34	30	19.6	10	45	45	50	45	44
13	60	40	41	34	30	20	0	45	45	50	45	45
14	60	40	41	34	30	19.2	0	45	45	50	45	45
15	60	40	41	34	30	20	0	45	45	50	45	45
16	60	39	41	34	30	20	0	45	45	50	45	45
17	60	39	41	34	25	20	0	45	45	50	45	45
18	60	39	37	34	20	20	0	45	45	50	45	45
19	60	39	35	34	20	20	0	45	45	50	45	45
20	60	39	35	34	20	20	0	45	45	50	45	45
21	60	39	35	34	20	20	0	45	45	50	45	38
22	60	39	35	33	20	20	0	45	45	50	45	35
23	60	39	35	33	20	20	0	45	45	50	45	35
24	60	39	35	32	20	20	0	45	45	50	45	35
25	60	39	35	32	20	20	0	45	45	50	45	35
26	60	40	35	32	20	20	0	45	45	50	45	35
27	60	41	35	31	20	20	0	45	45	50	45	35
28	60	41	35	30	20	20	0	45	45	50	44	35
29	60	41	35	30	20	20	0	45	45	50	44	35
30	60	41	35	30		20	0	45	45	50	44	35
31	60		36	30		20		45		50	44	
	1860	1355	1190	1040	745	616.6	231	928	1349	1521	1437	1249
MEAN	60.0	45.2	38.4	33.5	25.7	19.9	7.70	29.9	45.0	49.1	46.4	41.6
ACRE-FEET	3690.	2690.	2360.	2060	1480.	1220.	458.	1840.	2680.	3020.	2850.	2480.

Remarks:

YEAR OR PERIOD MEAN 36.9
ACRE-FEET 26830.

F. C. Dist. Form 82 4-48

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F250-R

Daily discharge, in second-feet of SAN GABRIEL-AZUSA CONDUIT at Weir below San Gabriel Dam #1, for the year ending September 30, 19 49

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	35	0	135	32	41	22	0	02	35	35	35	35
2	35	0	135	30	27	22	0	26	36	35	35	35
3	35	0	135	30	20	22	0	39	36	35	35	35
4	35	0	135	30	20	22	0	40	36	35	35	35
5	36	0	135	30	20	22	0	40	36	35	36	35
6	36	0	135	23	20	22	0	40	36	35	36	35
7	36	0	135	20	20	22	0	40	35	35	35	35
8	36	0	135	20	21	22	0	39	35	35	35	35
9	36	0	135	20	21	22	0	39	35	35	35	35
10	36	0	135	21	21	22	0	39	35	35	35	35
11	35	0	135	21	21	22	0	36	35	35	35	35
12	35	0	135	21	21	22	0	35	35	35	35	35
13	35	0	135	21	21	22	0	35	35	35	35	35
14	35	0	138	21	21	22	0	35	35	35	35	35
15	35	0	146	21	21	23	0	35	35	35	35	35
16	35	0	166	21	21	23	0	35	35	35	35	35
17	35	0	166	21	21	21	0	35	35	35	35	35
18	35	06	22	21	21	152	0	35	36	35	35	35
19	36	06	25	21	21	169	0	35	36	35	35	35
20	36	06	25	21	21	20	0	35	36	35	35	35
21	36	06	22	50	21	20	0	35	36	35	35	35
22	25	06	20	70	21	20	0	35	36	35	35	35
23	20	05	21	70	21	20	0	35	36	35	35	35
24	20	68	21	70	21	20	0	35	36	35	35	35
25	20	131	21	55	21	20	0	35	36	35	35	35
26	20	133	21	41	21	20	0	35	36	35	35	35
27	136	135	21	41	21	21	0	35	36	35	35	35
28	34	135	21	41	22	21	0	35	35	35	35	35
29	0	135	25	41		21	0	35	35	35	35	34
30	0	135	30	41		6.8	0	35	35	35	35	34
31	0		30	41		0		35		35	35	
	866.0	90.7	562.1	1027.0	610.0	616.9	0	1078.2	1065.0	1085.0	1087.0	1048.0
MEAN	27.9	3.02	18.1	33.1	21.8	19.9	0	34.8	35.5	35.0	35.1	34.9
ACRE-FEET	1720.	180.	1110.	2040.	1210.	1220.	0	2140.	2110.	2150.	2160.	2080

Remarks:

YEAR OR PERIOD MEAN 25.0
ACRE-FEET 18120.

STATION F220-R
SAN GABRIEL-AZUSA CONDUIT at Garcia Canyon

LOCATION: WATER-STAGE RECORDER, LAT. 34°11'30", LONG. 117°51'25", ON THE WEST SIDE OF OPENING IN CONCRETE CONDUIT CONNECTING TUNNELS 4-A AND 4-B OF THE AZUSA CONDUIT WHICH DIVERTS WATER FROM THE SAN GABRIEL RIVER. THE STATION IS ABOUT 0.8 MILE BELOW SAN GABRIEL DAM NO. 1 AND 2 MILES ABOVE MORRIS DAM. ELEVATION OF GAGE ABOUT 1200 FEET.

CHANNEL AND CONTROL: STATION LOCATED ON SHORT OPEN SECTION OF CONCRETE CHANNEL. THE FLOW OVER THE 25-FOOT WEIR (STATION F250-R) MAY BE SPILLED BEFORE REACHING STATION F220-R. FLOW WHICH REACHES STATION F220-R MAY BE BY-PASSED AROUND THE 25-FOOT WEIR AT STATION F250-R.

DISCHARGE MEASUREMENTS: FROM TOP OF TUNNEL PORTAL.

RECORDER: INSTALLED FEBRUARY 26, 1933 OVER A 21-INCH DIAMETER CORRUGATED IRON PIPE STILLING WELL. AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

RECORDS AVAILABLE: FEBRUARY 26, 1933 TO SEPTEMBER 30, 1949. (SEE 'RECORDER') (SEE 'REMARKS')

EXTREMES OF DISCHARGE: FLOW ENTIRELY REGULATED BY TAINTOR GATE SETTING AND VALVE DISCHARGE AT SAN GABRIEL DAM NO. 1. APPROXIMATE CAPACITY 95 SECOND-FEET.

ACCURACY: EXCELLENT.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

REMARKS: THIS RECORD REFLECTS FLOW DIVERTED TO THE AZUSA CONDUIT FROM SAN GABRIEL DAM. PUBLISHED HEREWITH ARE RECORDS OF DIVERSION TO THE AZUSA CONDUIT FROM MORRIS DAM FOR 1947-48 AND 1948-49. THESE RECORDS, TOGETHER WITH STATION 220-R, COMPLETE THE RECORDS OF ANNUAL DIVERSION THROUGH THE CONDUIT.

DISCHARGE MEASUREMENTS OF SAN GABRIEL - AZUSA CONDUIT

AT ~~NEAR~~ Garcia Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 45

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT-ING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
464	10-3	0912 / 0932	MIDDLETON	4.6	14.5	4.15	3.16	60.2		.2 .8	10	0	FC29
465	10-10	0857 / 0918	"	4.6	14.5	4.17	3.16	60.4		.2 .8	10	0	"
466	10-17	0855 / 1016	"	4.6	14.4	4.17	3.14	60.0		.2 .8	10	0	"
467	10-24	0940 / 1002	"	4.6	14.4	4.16	3.14	59.9		.2 .8	10	0	"
468	10-30	0928 / 0950	MIDDLETON-H. WILSON	4.6	14.3	4.17	3.13	59.7		.2 .8	10	0	"
469	11-7	0938 / 0959	MIDDLETON	4.6	14.2	4.14	3.11	58.8		.2 .8	10	0	"
470	11-10	0932 / 0950	"	4.6	10.5	3.88	2.30	40.7		.2 .8	10	0	"
471	11-10	0951 / 1000	"	4.6	10.5	4.03	2.30	42.3		.6 .8	10	C	"
472	11-14	0936 / 0957	"	4.6	10.5	3.83	2.30	40.2		.2 .8	10	0	"
473	11-21	1045 / 1105	"	4.6	10.3	3.82	2.26	39.3		.2 .8	10	0	"
474	11-26	0927 / 0948	"	4.6	10.8	3.80	2.36	41.0		.2 .8	10	0	"
475	11-28	1327 / 1350	"	4.6	10.7	3.79	2.34	40.6		.2 .8	10	0	"
476	12-5	1335 / 1355	"	4.6	10.7	3.79	2.34	40.5		.2 .8	10	0	"
477	12-12	1234 / 1256	"	4.6	10.9	3.75	2.38	40.9		.2 .8	10	0	"
478	12-19	1028 / 1049	"	4.6	9.61	3.66	2.11	35.2		.2 .8	10	0	"
479	12-31	1025 / 1048	"	4.6	9.76	3.65	2.14	35.6		.2 .8	10	0	"
480	1-9	1010 / 1032	"	4.6	9.50	3.60	2.08	34.2		.2 .8	10	0	"
481	1-16	1257 / 1320	"	4.6	9.42	3.65	2.07	34.4		.2 .8	10	C	"
482	1-23	0950 / 1012	"	4.6	9.12	3.59	2.00	32.7		.2 .8	10	0	"
483	1-27	0938 / 1000	"	4.6	8.66	3.50	1.90	30.3		.2 .8	10	C	"
484	1-30	1045 / 1108	"	4.6	8.66	3.50	1.90	30.3		.2 .8	10	C	"
485	2-11	1505 / 1528	"	4.6	8.69	3.52	1.91	30.6		.2 .8	10	0	"
486	2-17	1335 / 1356	"	4.6	8.30	3.21	1.39	20.2		.2 .8	10	0	"
487	2-27	0940 / 0958	"	4.6	8.32	3.18	1.39	20.1		.2 .8	10	0	"
488	3-5	0915 / 0937	"	4.6	8.31	3.15	1.39	19.9		.2 .8	10	C	"
489	3-12	0924 / 0945	"	4.6	8.18	3.14	1.36	19.4		.2 .8	10	C	"
490	3-19	0937 / 1000	"	4.6	8.46	3.16	1.42	20.4		.2 .8	10	C	"
491	3-26	0940 / 1002	"	4.6	8.46	3.16	1.42	20.4		.2 .8	10	0	"
492	4-2	1018 / 1038	"	4.6	8.36	3.14	1.40	20.0		.2 .8	10	C	"
493	4-9	1420 / 1442	"	4.6	8.20	3.62	1.80	29.7		.2 .8	10	0	"
494	4-12	0957 / 1018	"	4.6	8.46	3.17	1.42	20.5		.2 .8	10	-.01	"
495	4-23	1018 / 1023	"	4.6	0.82	0.05	0.20	0.04	FLOATS		4	0	
496	6-2	1050 / 1108	"	4.6	11.4	3.89	2.51	44.4		.2 .8	10	0	FC29
497	6-11	0942 / 1004	"	4.6	11.7	3.86	2.57	45.2		.2 .8	10	0	"
498	6-18	0952 / 1012	"	4.6	11.4	3.92	2.50	44.7		.2 .8	10	0	"
499	6-25	0925 / 0942	"	4.6	11.4	3.95	2.50	45.0		.2 .8	10	C	"
500	7-2	1328 / 1350	"	4.6	11.5	3.90	2.52	44.8		.2 .8	10	C	"
501	7-9	0920 / 0943	"	4.6	12.6	3.96	2.76	49.9		.2 .8	10	0	"
502	7-16	0913 / 0930	"	4.6	12.6	3.97	2.76	50.0		.2 .8	10	0	"
503	7-23	0912 / 0943	MIDDLETON - LANG	4.6	12.4	3.99	2.72	49.5		.2 .8	10	0	"
504	7-29	0914 / 0935	MIDDLETON	4.6	12.4	3.99	2.72	49.5		.2 .8	10	0	"
505	8-6	0945 / 1025	LANG	4.6	12.5	3.94	2.70	49.3		.2 .8	10	0	"
506	8-13	0925 / 0955	"	4.6	11.7	3.95	2.56	46.1		.2 .8	10	0	"
507	8-20	0910 / 0938	"	4.6	11.7	3.94	2.55	46.1		.2 .8	10	0	"
508	8-27	1240 / 1258	MIDDLETON	4.6	11.5	3.91	2.52	45.0		.2 .8	10	0	"
509	9-3	0855 / 0913	"	4.6	11.6	3.86	2.55	44.8		.2 .8	10	0	"
510	9-13	0915 / 0935	"	4.6	11.6	3.97	2.55	46.0		.2 .8	10	+ .02	"
511	9-16	1548 / 1610	MIDDLETON-VAN DER GOOT	4.6	11.7	3.84	2.56	44.9		.2 .8	10	0	"
512	9-24	1432 / 1453	MIDDLETON	4.6	9.76	3.65	2.14	35.6		.2 .8	10	0	"

DISCHARGE MEASUREMENTS OF SAN GABRIEL-AZUSA CONDUIT

AT ~~NEAR~~ Garcia Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 46

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT-ING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
513	10-1	0935 / 0956	MIDDLETON	4.6	9.62	3.64	2.11	35.0		.2 .8	10	0	FC29
514	10-8	0910 / 0931	"	4.6	9.86	3.62	2.16	35.7		.2 .8	10	0	"
515	10-15	1242 / 1300	"	4.6	9.81	3.58	2.15	35.1		.2 .8	10	0	"
516	10-22	1325 / 1344	"	4.6	6.55	3.16	1.44	20.7		.2 .8	10	0	"
517	11-19	0915 / 0920	"	4.6	0.37	1.70	0.38	0.63	FLOATS		4	0	
518	11-24	1327 / 1346	"	4.6	4.91	2.71	1.08	13.3		.2 .8	10	0	FC29
519	12-10	1010 / 1032	"	4.6	4.93	2.80	1.09	13.8		.2 .8	10	0	"
520	12-16	1055 / 1117	"	4.6	5.54	2.98	1.22	16.5		.2 .8	10	0	"
521	12-20	1318 / 1340	"	4.6	7.46	3.36	1.64	25.1		.2 .8	10	0	"
522	12-23	1022 / 1044	"	4.6	6.46	3.17	1.42	20.5		.2 .8	10	0	"
523	12-31	0937 / 0956	"	4.6	8.52	3.59	1.87	30.6		.2 .8	10	0	"
524	1-6	0936 / 0955	"	4.6	6.26	3.19	1.38	20.0		.2 .8	10	0	"
525	1-14	1035 / 1056	"	4.6	6.46	3.19	1.42	20.6		.2 .8	10	0	"
526	1-21	1316 / 1340	"	4.6	16.8	4.18	3.66	70.3		.2 .8	10	0	"
527	1-28	0955 / 1018	"	4.6	10.8	3.80	2.37	41.0		.2 .8	10	0	"
528	2-4	1052 / 1112	"	4.6	6.37	3.20	1.40	20.4		.2 .8	10	0	"
529	2-10	0944 / 1005	"	4.6	6.46	3.17	1.42	20.5		.2 .8	10	0	"
530	2-18	1003 / 1024	"	4.6	6.55	3.19	1.44	20.9		.2 .8	10	0	"
531	2-28	0920 / 0941	"	4.6	6.74	3.23	1.48	21.8		.2 .8	10	0	"
532	3-4	0924 / 0945	"	4.6	6.82	3.20	1.50	21.8		.2 .8	10	0	"
533	3-10	0931 / 0955	"	4.6	6.94	3.27	1.53	22.7		.2 .8	10	0	"
534	3-18	0913 / 0934	"	4.6	5.26	2.93	1.16	15.4		.2 .8	10	0	"
535	3-24	1504 / 1525	"	4.6	6.58	3.15	1.45	20.7		.2 .8	10	0	"
536	5-13	0905 / 0930	LANG	4.6	9.63	3.74	2.12	36.0		.2 .8	10	0	"
537	5-20	0922 / 0943	MIDDLETON	4.6	9.61	3.70	2.11	35.6		.2 .8	10	0	"
538	5-27	0902 / 0923	"	4.6	9.71	3.68	2.13	35.7		.2 .8	10	0	"
539	6-6	0924 / 0946	"	4.6	9.81	3.69	2.15	36.2		.2 .8	10	0	"
540	6-10	0903 / 0925	"	4.6	9.58	3.66	2.10	35.1		.2 .8	10	0	"
541	6-17	0908 / 0929	"	4.6	9.86	3.69	2.16	36.4		.2 .8	10	0	"
542	6-23	1030 / 1050	"	4.6	9.86	3.64	2.16	35.9		.2 .8	10	0	"
543	7-1	0842 / 0903	"	4.6	9.68	3.66	2.12	35.4		.2 .8	10	0	"
544	7-12	1233 / 1254	"	4.6	9.68	3.65	2.12	35.3		.2 .8	10	0	"
545	7-21	0918 / 0938	"	4.6	9.58	3.66	2.10	35.1		.2 .8	10	0	"
546	7-29	1317 / 1342	"	4.6	9.54	3.67	2.09	35.0		.2 .8	10	0	"
547	8-5	0842 / 0903	"	4.6	9.68	3.70	2.12	35.8		.2 .8	10	0	"
548	8-12	0907 / 0928	"	4.6	9.58	3.68	2.10	35.3		.2 .8	10	0	"
549	8-19	0838 / 0900	"	4.6	9.58	3.68	2.10	35.3		.2 .8	10	0	"
550	8-26	0900 / 0921	"	4.6	9.50	3.71	2.08	35.2		.2 .8	10	0	"
551	9-2	1038 / 1100	"	4.6	9.50	3.71	2.08	35.2		.2 .8	10	0	"
552	9-8	1408 / 1430	"	4.6	9.44	3.71	2.07	35.0		.2 .8	10	0	"
553	9-16	0914 / 0935	"	4.6	9.40	3.71	2.06	34.9		.2 .8	10	0	"
554	9-23	0918 / 0940	"	4.6	9.30	3.75	2.04	34.9		.2 .8	10	0	"
555	9-29	0845 / 0908	REINHARD-MIDDLETON	4.6	9.30	3.75	2.04	34.9		.2 .8	10	0	"

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F220-R

Daily discharge, in second-feet of SAN GABRIEL-AZUSA CONDUIT at Garcia Canyon, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	60	59	40	36	30	20	20	+	+	45	50	45
2	60	59	40	36	30	20	20	+	29	45	50	45
3	60	59	40	36	30	20	20	+	44	45	50	45
4	60	59	40	36	30	20	20	+	46	45	50	45
5	60	59	41	36	30	20	20	+	46	45	50	45
6	60	59	41	36	31	20	20	+	46	46	50	46
7	60	59	41	35	31	20	20	+	46	50	50	45
8	60	59	41	34	31	20	20	+	46	50	50	45
9	60	47	41	34	31	20	22	+	46	50	50	45
10	60	40	41	34	31	20	20	+	46	50	49	45
11	60	40	41	34	31	19	20	+	46	50	46	45
12	60	40	41	34	31	20	10.8	+	46	50	45	44
13	60	40	41	34	31	21	0.1	+	46	50	45	45
14	60	40	41	34	31	20	0.1	+	46	50	45	45
15	60	40	41	34	31	21	0.1	+	45	50	45	45
16	60	39	41	34	31	20	0.1	+	44	50	45	45
17	60	39	41	34	26	20	0.1	+	44	50	46	45
18	60	39	38	34	20	20	0.1	+	44	50	46	45
19	60	39	35	34	20	20	0.1	+	44	50	46	45
20	60	39	36	34	20	20	0.1	+	44	50	46	45
21	60	39	36	34	20	20	0.1	+	44	50	46	39
22	60	39	36	34	20	20	+	+	44	50	46	36
23	60	39	36	33	20	20	+	+	44	50	46	36
24	60	39	36	33	20	20	+	+	44	50	45	36
25	60	39	36	33	20	20	+	+	44	50	45	36
26	60	40	36	33	20	20	+	+	44	50	45	35
27	60	41	36	31	21	20	+	+	45	50	45	35
28	60	41	36	30	20	20	+	+	45	50	45	35
29	60	40	36	30	20	20	+	+	45	50	45	35
30	60	40	36	30		20	+	+	45	50	45	35
31	59		36	30		20		+		50	45	
	1859	1351	1198	1044	758	621	233.7	+	1288	1521	1452	1258
MEAN	60.0	45.0	38.6	33.7	26.1	20.0	7.78	+	42.9	49.1	46.8	41.9
ACRE-FEET	3690.	2680.	2380.	2070.	1500.	1230.	464.	+	2550.	3020.	2880.	2500.

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

YEAR OR PERIOD MEAN 34.4
ACRE-FEET 24,960

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F220-R

Daily discharge, in second-feet of SAN GABRIEL-AZUSA CONDUIT at Garcia Canyon, for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	35	0.1	13.2	32	41	22	0.1	0.1	36	35	35	35
2	35	0.1	13.2	31	28	22	0.1	0.1	36	35	35	35
3	34	0.1	13.4	31	20	22	0.1	0.1	36	35	36	35
4	35	0.1	13.6	31	20	22	0.1	0.1	36	35	36	35
5	36	0.1	13.8	a 31	20	22	0.1	0.1	36	35	36	35
6	36	0.1	13.8	24	20	22	0.1	0.1	36	35	36	35
7	36	0.1	13.8	20	20	22	0.1	0.1	35	35	36	35
8	36	0.1	13.8	20	20	23	0.1	0.1	35	35	36	35
9	36	0.1	13.8	20	20	23	0.1	0.1	35	35	36	35
10	35	0.1	13.8	20	20	23	0.1	0.1	35	35	36	35
11	35	0.1	13.8	20	20	23	0.1	0.1	35	35	36	35
12	35	0.1	14.0	20	21	23	0.1	0.1	35	35	35	35
13	35	0.1	14.0	20	21	23	0.1	18.0	35	35	35	35
14	35	0.1	14.0	21	21	23	0.1	36	35	35	35	35
15	35	0.1	14.9	21	21	23	0.1	36	35	35	35	35
16	35	0.1	16.6	21	21	23	0.1	36	35	35	35	35
17	35	0.1	16.8	21	21	21	0.1	36	36	35	35	35
18	35	0.7	22	21	21	15.3	0.1	36	36	35	35	35
19	36	0.6	25	21	21	16.9	0.1	36	36	35	35	35
20	36	0.6	25	21	21	20	0.1	36	36	35	35	35
21	36	0.6	22	49	21	20	0.1	36	36	35	35	35
22	26	0.6	20	70	21	20	0.1	35	36	35	35	35
23	21	a 0.4	20	70	21	21	0.1	36	36	35	35	35
24	21	a 6.4	20	70	21	21	0.1	36	36	35	35	35
25	21	13.2	20	56	22	21	0.1	36	36	35	35	35
26	21	13.2	20	41	22	21	0.1	36	36	35	35	35
27	14.0	13.0	20	41	22	21	0.1	36	36	35	35	35
28	3.9	13.0	21	41	22	21	0.1	36	36	35	35	35
29	0.1	13.0	25	41		21	0.1	36	35	35	35	35
30	0.1	13.0	31	41		7.3	0.1	36	35	35	35	35
31	0.1		31	41		0.1		36		35	35	
	870.2	90.0	562.3	1028.0	610.0	628.6	3.0	666.2	1068.0	1085.0	1094.0	1050.0
MEAN	28.1	3.00	18.1	33.2	21.8	20.3	0.10	21.5	35.6	35.0	35.3	35.0
ACRE-FEET	1730.	179.	1120.	2040.	1210.	1250.	6.0	1320.	2120.	2150.	2170.	2080.

Remarks:

YEAR OR PERIOD MEAN 24.0
ACRE-FEET 17380.

F. C. Dist. Form 52 4-46

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 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	20	44	0	0	0
2	0	0	0	0	0	0	0	20	16	0	0	0
3	0	0	0	0	0	0	0	24	0	0	0	0
4	0	0	0	0	0	0	0	30	0	0	0	0
5	0	0	0	0	0	0	0	30	0	0	0	0
6	0	0	0	0	0	0	0	30	0	0	0	0
7	0	0	0	0	0	0	0	30	0	0	0	0
8	0	0	0	0	0	0	0	29	0	0	0	0
9	0	0	0	0	0	0	0	29	0	0	0	0
10	0	0	0	0	0	0	0	29	0	0	0	0
11	0	0	0	0	0	0	0	40	0	0	0	0
12	0	0	0	0	0	0	9.0	45	0	0	0	0
13	0	0	0	0	0	0	20	45	0	0	0	0
14	0	0	0	0	0	0	20	45	0	0	0	0
15	0	0	0	0	0	0	20	44	0	0	0	0
16	0	0	0	0	0	0	20	44	0	0	0	0
17	0	0	0	0	0	0	19	44	0	0	0	0
18	0	0	0	0	0	0	19	44	0	0	0	0
19	0	0	0	0	0	0	19	45	0	0	0	0
20	0	0	0	0	0	0	20	44	0	0	0	0
21	0	0	0	0	0	0	19	44	0	0	0	0
22	0	0	0	0	0	0	19	44	0	0	0	0
23	0	0	0	0	0	0	20	44	0	0	0	0
24	0	0	0	0	0	0	20	44	0	0	0	0
25	0	0	0	0	0	0	20	44	0	0	0	0
26	0	0	0	0	0	0	19	44	0	0	0	0
27	0	0	0	0	0	0	19	44	0	0	0	0
28	0	0	0	0	0	0	20	43	0	0	0	0
29	0	0	0	0	0	0	20	44	0	0	0	0
30	0	0	0	0		0	20	44	0	0	0	0
31	0		0	0		0		44		0	0	
	0	0	0	0	0	0	362	1194	60	0	0	0
MEAN	0	0	0	0	0	0	12.1	38.5	2.00	0	0	0
ACRE-FEET	0	0	0	0	0	0	718.	2370.	119.	0	0	0

Remarks:

YEAR OR PERIOD MEAN 4.42
ACRE-FEET 3210.

F. C. Dist. Form 52 4-46

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 49

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	2.0	0	0	0	0
12	0	0	0	0	0	0	0	4.0	0	0	0	0
13	0	0	0	0	0	0	0	3.0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	0	0	0	0	0	9.0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0.29	0	0	0	0
ACRE-FEET	0	0	0	0	0	0	0	18.	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN .049
ACRE-FEET 18.

STATION U8-R
SAN GABRIEL RIVER below Morris Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°10'10", LONG. 117°53'16", IN SW 1/4 SEC. 13, T. 1, N., R. 10 W., 1 MILE DOWNSTREAM FROM MORRIS DAM AND 3 MILES NORTHEAST OF AZUSA. ALTITUDE OF GAGE ABOUT 870 FEET.

DRAINAGE AREA: 211 SQUARE MILES.

RECORDS AVAILABLE: 1894 TO SEPTEMBER 1949.

AVERAGE DISCHARGE:
1895-1948
52 YEARS, 115 SECOND-FEET.
1895-1948
53 YEARS, 165 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.
1896-1949
53 YEARS, 113 SECOND-FEET.
1895-1949
54 YEARS, 162 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.

EXTREMES OF DISCHARGE:
1947-1948
MAXIMUM DISCHARGE DURING YEAR, 1,320 SECOND-FEET, JUNE 2. (GAGE HEIGHT, 3.30 FEET).
MINIMUM DAILY, NO FLOW MOST OF YEAR.
1948-1949
MAXIMUM DISCHARGE 79 SECOND FEET, OCTOBER 27. (GAGE HEIGHT, 1.16 FEET).
MINIMUM NO FLOW MOST OF YEAR.
1894-1949
MAXIMUM DISCHARGE, 65,700 SECOND-FEET, MARCH 2, 1938. BY COMPUTATION OF FLOW OVER SPILLWAY AT MORRIS DAM.
NO FLOW FOR SEVERAL MONTHS IN EACH YEAR, 1894-1936, 1940, AND 1941-1947.

REMARKS: RECORDS GOOD, FLOW REGULATED BY SAN GABRIEL FLOOD CONTROL RESERVOIRS 1 AND 2, AND BY MORRIS RESERVOIR OF METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA, AZUSA CANAL (FORMERLY POWER CANAL OF SOUTHERN CALIFORNIA EDISON COMPANY), DIVERTS ABOVE HIGH-WATER LINE OF MORRIS RESERVOIR AT A POINT ABOUT 3 MILES ABOVE STATION.

COOPERATION: RECORDS FURNISHED BY THE UNITED STATES GEOLOGICAL SURVEY, WITH THE EXCEPTION OF 47 MEASUREMENTS FURNISHED BY THE LOS ANGLES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY.

NORMAL UNREGULATED FLOW: COMBINED RUNOFF OF RIVER AND AZUSA CANAL, ADJUSTED FOR STORAGE AND EVAPORATION IN MORRIS RESERVOIR AND SAN GABRIEL RIVER FLOOD CONTROL RESERVOIRS 1 AND 2 USING RECORDS FURNISHED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT. THESE FIGURES OF RUNOFF ARE EQUIVALENT TO COMBINED RECORDS OF SAN GABRIEL RIVER AND SOUTHERN CALIFORNIA EDISON COMPANY'S CANAL AS PUBLISHED FROM 1994 TO 1933.

MONTH	1947-48 A.F.	1948-49 A.F.
OCTOBER	1,560	853
NOVEMBER	1,570	896
DECEMBER	2,460	1,580
JANUARY	2,040	2,620
FEBRUARY	3,190	2,900
MARCH	3,610	4,700
APRIL	5,640	4,300
MAY	3,850	3,090
JUNE	2,300	1,630
JULY	1,310	908
AUGUST	835	684
SEPTEMBER	728	649
TOTALS	29,103 A.F.	24,810 A.F.

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

~~AT~~ NEAR below Morris Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1972	4-6	0900 / 0920	MOON	TWO CHANNELS			0.84	27.8		.6	16	0	FC22
1973	4-8	1305 / 1325	"	24.5	29.6	0.99	0.84	29.3		.6	14	0	"
1974	4-14	1440 / 1450	"	3.2	3.20	1.44	0.50	4.6		.6	4	0	"
1975	4-22		U.S.G.S.	3.3	2.80	1.25	0.50	3.49		.6	6	0	
1976	4-22	1406 / 1415	MOON	3.2	3.20	1.44	0.50	4.6		.6	4	0	FC22
1977	4-29	1325 / 1330	"	3.2	3.20	1.59	0.53	5.1		.6	4	0	"
1978	5-6	1350 / 1355	"	3.2	3.20	1.47	0.52	4.7		.6	4	0	"
1979	5-11		U.S.G.S.	3.3	3.04	1.28	0.50	3.88		.6	6	0	
1980	5-13	1318 / 1323	MOON	3.2	3.20	1.31	0.50	4.2		.6	4	0	FC22
1981	5-20	1440 / 1446	"	3.2	3.20	1.31	0.50	4.2		.6	4	0	"
1982	5-25		U.S.G.S.	3.2	2.89	1.19	0.49	3.45		.6	6	0	
1983	5-27	1325 / 1330	MOON	3.2	3.20	1.34	0.49	4.3		.6	4	0	FC22
1984	6-1		U.S.G.S.	3.0	2.68	1.27	0.49	3.41		.6	6	0	
1985	6-2	0830 / 0900	MOON - STUNDEN	80.0	132.	3.08	2.27	407.		.6	12	+.02	FC22
1986	6-2	0930 / 1000	" "	80.0	142.	3.23	2.28	458.		.6	10	0	"
1987	6-2		U.S.G.S.	90.0	157.	3.52	2.28	553.		.6	13	0	
1988	6-2		"	90.0	155.	3.75	2.29	582.		.6	17	0	
1989	6-2		"	100.	222.	5.09	2.94	1130.		.6	19	0	
1990	6-2		"	100.	225.	4.97	2.94	1120.		.6	19	0	
1991	6-2	2025 / 2100	MOON - BOLLINGER	108.	244.	5.40	3.30	1320		.6	11	0	FC22
1992	6-3	0745 / 0820	MIDDLETON - STUNDEN	108.	255	4.55	3.28	1160.		.6	13	0	FC29
1993	6-4	0827 / 0925	MOON - VAN DER GOOT	107.	237.	4.65	3.25	1150.		.6	13	-.01	FC22
1994	6-5	0835 / 0915	MOON - STUNDEN	107.	226	4.56	3.13	1030.		.6	13	0	"
1995	6-7	0835 / 0920	MOON - STUNDEN	107.	241.	4.52	3.21	1090.		.6	13	+.02	"
1996	6-8		U.S.G.S.	2.5	2.56	0.92	0.45	2.36		INT.	5	0	
1997	6-10		MOON					0.20		EST.			

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

~~AT~~ NEAR below Morris Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1998	10-26	1655 / 1715	MOON - STUNDEN	24.0	36.4	1.77	1.08	64.4		.6	12	0	FC36
1999	10-27	0838 / 0855	" "	CHANNELS			1.15	76.6		.6	18	0	FC22
2000	10-27	1230 / 1245	" "	CHANNELS			.99	50.5		.6	18	0	"
2001	10-28	0755 / 0825	MOON	CHANNELS			.99	50.4		.6	15	0	"
2002	10-29	0855 / 0915	"	26.	31.2	1.27	.92	39.7		.6	16	0	"
2003	10-30	1055 / 1115	"	26.5	30.6	1.03	.86	31.6		.6	14	0	"
2004	11-1	0910 / 0930	"	26.	27.6	.92	.81	25.4		.6	14	0	"
2005	11-1		U.S.G.S.	24.	27.1	.93	.80	25.2		.6	23	0	
2006	11-3	0928 / 0948	MOON	26.	26.8	.85	.79	22.8		.6	14	0	FC22
2007	11-4	0850 / 0910	"	26.	27.0	.87	.79	23.4		.6	13	0	"
2008	11-5	0920 / 0935	"	23.5	23.8	.76	.75	18.1		.6	12	0	"
2009	11-8		U.S.G.S.	24.	24.0	.75	.75	18.1		.6	17	0	
2010	11-10	0900 / 0920	MOON	22.	22.4	.87	.75	19.4		.6	11	0	FC22
2011	11-19	0915 / 0930	"	22.5	23.8	.76	.75	18.0		.6	11	0	"
2012	11-22		U.S.G.S.	23.0	23.8	.73	.75	17.4		.6	13	0	
2013	11-24	0915 / 0931	MOON	22.5	23.2	.80	.76	18.7		.6	12	0	"
2014	12-1		U.S.G.S.	.5	.024	.42	0	.010		.5	2		
2015	3-19	1453 / 1510	MOON	23.	29.8	1.48	.94	44.0		.6	12	+.01	FC22
2016	3-30	0853 / 0907	MOON - LANG	25.	34.3	1.73	1.04	59.3		.6	14	0	"
2017	3-30	1410 / 1424	" "	25.	29.0	1.00	.84	28.9		.6	15	0	"
2018	3-31	1302 / 1315	" "	25.	28.1	1.10	.84	30.9		.6	15	0	"
2019	4-1	0825 / 0842	MOON	25.	27.0	.99	.80	26.6		.6	14	0	"
2020	4-6	0834 / 0850	"	24.	25.6	.77	.75	19.8		.6	13	0	"
2021	4-7	0838 / 0845	"	24.	27.1	0.89	0.80	24.1		.6	13	0	"
2022	4-7		U.S.G.S.	27.	28.5	.82	.80	23.3		.6	13	0	
2023	4-8	0830 / 0848	MOON	24.	27.2	.83	.79	22.5		.6	13	0	FC22
2024	4-14		U.S.G.S.	37.	31.3	.78	.79	24.3		.6	27	0	
2025	4-14	1115 / 1135	MOON	24.	26.6	.89	.79	23.6		.6	13	0	FC22
2026	4-21	1010 / 1030	"	24.	26.7	.90	.79	24.0		.6	14	0	"
2027	4-25	0845 / 0910	"	26.	32.8	1.25	.92	41.0		.6	16	0	"
2028	4-27		U.S.G.S.	36.4	36.4	1.09	.92	39.7		.6	28	0	
2029	4-28	0840 / 0910	MOON	26.	32.4	1.27	.92	41.2		.6	18	0	FC22
2030	5-2	1345 / 1412	"	26.	31.3	1.30	.92	40.6		.6	18	0	"
2031	5-5	0845 / 0915	"	26.	32.2	1.19	.91	38.2		.6	18	0	"
2032	5-9		U.S.G.S.	38.	48.9	.77	.91	38.3		.6	22	0	
2033	5-10	1340 / 1410	MOON	26.3	31.0	1.23	.91	38.1		.6	19	0	FC22
2034	5-12	0830 / 0855	"	26.	31.9	1.22	.92	38.9		.6	18	0	"

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U8-R

Daily discharge, in second-feet of SAN GABRIEL RIVER below Morris Dam, for the year ending September 30, 19 46

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	5.3	3.8	0	0	0
2	0	0	0	0	0	0	0	5.3	732	0	0	0
3	0	0	0	0	0	0	0	5.3	1170	0	0	0
4	0	0	0	0	0	0	13	5.3	1120	0	0	0
5	0	0	0	0	0	0	27	5.3	1020	0	0	0
6	0	0	0	0	0	0	28	5.3	1050	0	0	0
7	0	0	0	0	0	0	28	5.3	1080	0	0	0
8	0	0	0	0	0	0	29	4.9	68	0	0	0
9	0	0	0	0	0	0	29	4.2	0.8	0	0	0
10	0	0	0	0	0	0	24	4.2	0.2	0	0	0
11	0	0	0	0	0	0	0.3	4.2	0.1	0	0	0
12	0	0	0	0	0	0	0.8	4.2	0	0	0	0
13	0	0	0	0	0	0	2.6	4.2	0	0	0	0
14	0	0	0	0	0	0	4.2	4.2	0	0	0	0
15	0	0	0	0	0	0	4.2	4.2	0	0	0	0
16	0	0	0	0	0	0	4.2	4.2	0	0	0	0
17	0	0	0	0	0	0	4.2	4.2	0	0	0	0
18	0	0	0	0	0	0	4.2	4.2	0	0	0	0
19	0	0	0	0	0	0	4.2	4.2	0	0	0	0
20	0	0	0	0	0	0	4.2	4.2	0	0	0	0
21	0	0	0	0	0	0	4.2	4.2	0	0	0	0
22	0	0	0	0	0	0	4.2	4.2	0	0	0	0
23	0	0	0	0	0	0	4.2	3.8	0	0	0	0
24	0	0	0	0	0	0	4.2	3.8	0	0	0	0
25	0	0	0	0	0	0	4.2	3.8	0	0	0	0
26	0	0	0	0	0	0	4.2	3.8	0	0	0	0
27	0	0	0	0	0	0	4.5	3.8	0	0	0	0
28	0	0	0	0	0	0	5.3	3.8	0	0	0	0
29	0	0	0	0	0	0	5.7	3.8	0	0	0	0
30	0	0	0	0		0	4.9	3.8	0	0	0	0
31	0		0	0		0		3.8		0	0	
	0	0	0	0	0	0	256.7	135.0	6244.9	0	0	0
MEAN	0	0	0	0	0	0	8.56	4.35	208	0	0	0
ACRE-FEET	0	0	0	0	0	0	509	268	12,390	0	0	0

Remarks:

YEAR OR PERIOD MEAN 18.1
ACRE-FEET 13,170

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U8-R

Daily discharge, in second-feet of San Gabriel River below Morris Dam, for the year ending September 30, 19 49

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	25	0	0	0	0	26	41	0	0	0	0
2	0	24	0	0	0	0	26	39	0	0	0	0
3	0	23	0	0	0	0	26	39	0	0	0	0
4	0	22	0	0	0	0	26	38	0	0	0	0
5	0	18	0	0	0	0	24	38	0	0	0	0
6	0	18	0	0	0	0	22	37	0	0	0	0
7	0	18	0	0	0	0	23	37	0	0	0	0
8	0	18	0	0	0	0	22	38	0	0	0	0
9	0	18	0	0	0	0	22	38	0	0	0	0
10	0	18	0	0	0	0	22	38	0	0	0	0
11	0	18	0	0	0	0	23	38	0	0	0	0
12	0	18	0	0	0	0	23	37	0	0	0	0
13	0	18	0	0	0	0	23	16	0	0	0	0
14	0	18	0	0	0	0	23	0	0	0	0	0
15	0	17	0	0	0	0	23	0	0	0	0	0
16	0	17	0	0	0	0	23	0	0	0	0	0
17	0	17	0	0	0	0	23	0	0	0	0	0
18	0	18	0	0	0	0	23	0	0	0	0	0
19	0	18	0	0	0	5.2	23	0	0	0	0	0
20	0	18	0	0	0	0	23	0	0	0	0	0
21	0	17	0	0	0	0	23	0	0	0	0	0
22	0	17	0	0	0	0	28	0	0	0	0	0
23	0	17	0	0	0	0	41	0	0	0	0	0
24	0	14	0	0	0	0	41	0	0	0	0	0
25	0	0.3	0	0	0	0	41	0	0	0	0	0
26	28	0	0	0	0	0	41	0	0	0	0	0
27	61	0	0	0	0	0	41	0	0	0	0	0
28	47	0	0	0	0	0	41	0	0	0	0	0
29	38	0	0	0		14	41	0	0	0	0	0
30	31	0	0	0		42	41	0	0	0	0	0
31	28		0	0		29		0		0	0	
	233.0	444.3	0	0	0	90.2	848.0	474.0	0	0	0	0
MEAN	7.52	14.8	0	0	0	2.91	28.3	15.3	0	0	0	0
ACRE-FEET	462.	881.	0	0	0	179.	1,680	940.	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN 5.72
ACRE-FEET 4,140

STATION S100A-R
SAN GABRIEL RIVER-AZUSA DUARTE TUNNEL DIVERSION at Mouth of Canyon

LOCATION: WATER-STAGE RECORDER, LAT. 34°09'33", LONG. 117°54'27", AT WEIR BOX AT THE DOWNSTREAM PORTAL OF THE AZUSA DUARTE TUNNEL ABOUT 250 FEET SOUTH OF THE CANYON ROAD AT THE MOUTH OF SAN GABRIEL CANYON. ELEVATION OF GAGE, ABOUT 750 FEET.

GENERAL: THIS STATION MEASURES ALL FLOW DIVERTED BY THE SAN GABRIEL WATER COMMITTEE AT THE MOUTH OF SAN GABRIEL CANYON.

CHANNEL AND CONTROL: CONCRETE WEIR BOX WITH TWO BROAD-CRESTED WEIRS. THESE WEIRS DIVIDE THE FLOW BETWEEN THE EAST SIDE SPREADING GROUNDS AND THE DUARTE SPREADING GROUNDS. EITHER SIDE CAN BE DIVERTED FOR IRRIGATION.

REGULATION: RIVER FLOW AT THE CANYON MOUTH IS PARTIALLY REGULATED BY MORRIS DAM AND SAN GABRIEL DAMS NOS. 1 AND 2. THE DIVISION OF THE DIVERTED FLOW CAN BE REGULATED AT THE WEIRS BY INSERTING CONSTRICTIONS.

RECORDS AVAILABLE: THE TUNNEL WAS CONSTRUCTED IN 1887. RECORDS OF DIVERSION SINCE 1918 ARE AVAILABLE AT THE OFFICE OF THE SAN GABRIEL RIVER WATER COMMITTEE, 509 AZUSA AVENUE, AZUSA.

ACCURACY: EXCELLENT.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE SAN GABRIEL RIVER WATER COMMITTEE.

REMARKS: THESE RECORDS WERE FURNISHED BY MR. MORGAN PEIRCE, WATER MASTER OF THE SAN GABRIEL RIVER WATER COMMITTEE. PUBLISHED HEREWITH ARE THE RECORDS FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949. RECORDS PRIOR TO OCTOBER 1939 WERE PUBLISHED WITH THE RECORDS OF STATION F100-R WHICH WAS ABANDONED NOVEMBER 1940.

F. C. Dist. Form 88 4-46

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 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	4.6	0	0	0	0	0
7	0	0	0	0	0	0	12.0	0	0	0	0	0
8	0	0	0	0	0	0	15.4	0	0	0	0	0
9	0	0	0	0	0	0	17.7	0	0	0	0	0
10	0	0	0	0	0	0	19.2	0	0	0	0	0
11	0	0	0	0	0	0	1.5	0	0	0	0	0
12	0	0	0	0	0	0	0.2	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0.3	0	0	0	0	0
18	0	0	0	0	0	0	0.4	0	0	0	0	0
19	0	0	0	0	0	0	0.6	0	0	0	0	0
20	0	0	0	0	0	0	0.7	0	0	0	0	0
21	0	0	0	0	0	0	0.8	0	0	0	0	0
22	0	0	0	0	0	0	0.9	0	0	0	0	0
23	0	0	0	0	0	0	0.9	0	0	0	0	0
24	0	0	0	0	0	0	0.9	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	0	0	0	0	76.1	0	0	0	0	0
MEAN	0	0	0	0	0	0	2.54	0	0	0	0	0
ACRE-FEET	0	0	0	0	0	0	151.	0	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN 0.21
ACRE-FEET 151.

F. C. Dist. Form 53 4-48

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, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	15.0	0	0	0	0	12.8	34.6	0	0	0	0
2	0	15.6	0	0	0	0	14.0	34.0	0	0	0	0
3	0	14.6	0	0	0	0	14.6	33.6	0	0	0	0
4	0	14.0	0	0	0	0	15.4	33.6	0	0	0	0
5	0	11.6	0	0	0	0	15.0	33.6	0	0	0	0
6	0	11.6	0	0	0	0	14.0	33.6	0	0	0	0
7	0	11.4	0	0	0	0	17.6	33.6	0	0	0	0
8	0	11.0	0	0	0	0	17.6	33.6	0	0	0	0
9	0	11.0	0	0	0	0	17.6	33.6	0	0	0	0
10	0	11.0	0	0	0	0	17.6	33.6	0	0	0	0
11	0	11.0	0	0	0	0	18.2	32.8	0	0	0	0
12	0	11.0	0	0	0	0	18.2	31.0	0	0	0	0
13	0	11.0	0	0	0	0	18.2	18.0	0	0	0	0
14	0	11.0	0	0	0	0	18.6	2.0	0	0	0	0
15	0	11.0	0	0	0	0	19.2	1.4	0	0	0	0
16	0	11.0	0	0	0	0	19.2	1.0	0	0	0	0
17	0	11.0	0	0	0	0	19.2	0	0	0	0	0
18	0	11.0	0	0	0	0	19.2	0	0	0	0	0
19	0	11.0	0	0	0	0	19.2	0	0	0	0	0
20	0	11.0	0	0	0	0	19.2	0	0	0	0	0
21	0	11.0	0	0	0	0	19.2	0	0	0	0	0
22	0	12.0	0	0	0	0	20.8	0	0	0	0	0
23	0	12.0	0	0	0	0	34.0	0	0	0	0	0
24	0	10.2	0	0	0	0	34.0	0	0	0	0	0
25	0	1.0	0	0	0	0	34.0	0	0	0	0	0
26	0	0.6	0	0	0	0	34.0	0	0	0	0	0
27	12.8	0	0	0	0	0	34.0	0	0	0	0	0
28	19.4	0	0	0	0	0	34.0	0	0	0	0	0
29	19.0	0	0	0		0	34.0	0	0	0	0	0
30	18.4	0	0	0		9.0	34.4	0	0	0	0	0
31	15.4		0	0		13.2		0		0	0	
	86.0	283.6	0	0	0	22.2	657.8	423.6	0	0	0	0
MEAN	2.77	9.45	0	0	0	0.72	21.9	13.7	0	0	0	0
ACRE-FEET	171.	563.	0	0	0	44.	1,305	840.	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN 4.04
ACRE-FEET 2,920.

STATION F190-R
SAN GABRIEL RIVER at Foothill Boulevard

LOCATION: WATER-STAGE RECORDER, LAT. 34°08'13", LONG. 117°56'32' ON THE DOWNSTREAM SIDE OF FOOTHILL BOULEVARD BRIDGE 2 MILES WEST OF AZUSA. ELEVATION OF ZERO GAGE HEIGHT, 565.50 FEET.

DRAINAGE AREA: 230 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - TRAPEZOIDAL WITH GUNITED ROCK LEVEES AND NATURAL SAND, GRAVEL AND ROCK BOTTOM, BOTTOM WIDTH 590 FEET, DEPTH 12 FEET. CONTROL - GUNITED ROCK STABILIZERS.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM CABLE CAR 900± BEET 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, 1947 TO SEPTEMBER 30, 1949. AN AUXILIARY STILLING WELL IS MAINTAINED ON THE WEST SIDE OF THE CHANNEL.

REGULATION: FLOW PARTIALLY REGULATED BY SAN GABRIEL DAMS NOS. 1 AND 2 AND MORRIS DAM.

DIVERSIONS: THERE ARE DIVERSIONS FOR IRRIGATION, POWER DEVELOPMENT, AND SPREADING.

RECORDS AVAILABLE: STREAM MEASUREMENTS STARTING FEBRUARY 22, 1932. RECORDER RECORDS FROM APRIL 25, 1932 TO SEPTEMBER 30, 1949. (FOR RECORDS PRIOR TO FEBRUARY 22, 1932, SEE DIVISION OF WATER RIGHTS BULLETINS).

EXTREMES OF DISCHARGE:
1947-1948
MAXIMUM 1,120 SECOND-FEET, JUNE 2.
MINIMUM NO FLOW MOST OF YEAR.
1948-49
NO FLOW FOR ENTIRE YEAR.
1932-1949
MAXIMUM 62,000 SECOND-FEET, ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW AT TIMES EACH YEAR.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT ~~NEAR~~ Foothill Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 1948

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
528	6-2	1340 / 1410	MOON - STUNDEN	175.	159.	4.08	2.55	648.		.6	21	0	FC22
529	6-2	2255 / 0030	MOON - BOLLINGER	TWO CHANNELS			2.64	1050.		.6	20	0	"
530	6-3	0855 / 1050	MIDDLETON - STUNDEN	495.	301.	3.42	2.57	1030.		.6	36	0	FC29
531	6-4	1030 / 1142	MOON - STUNDEN	FOUR CHANNELS			2.56	1025.		.6	38	0	FC22
532	6-7	1120 / 1215	MOON - STUNDEN	TWO CHANNELS			2.54	893.		.6	36	C	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

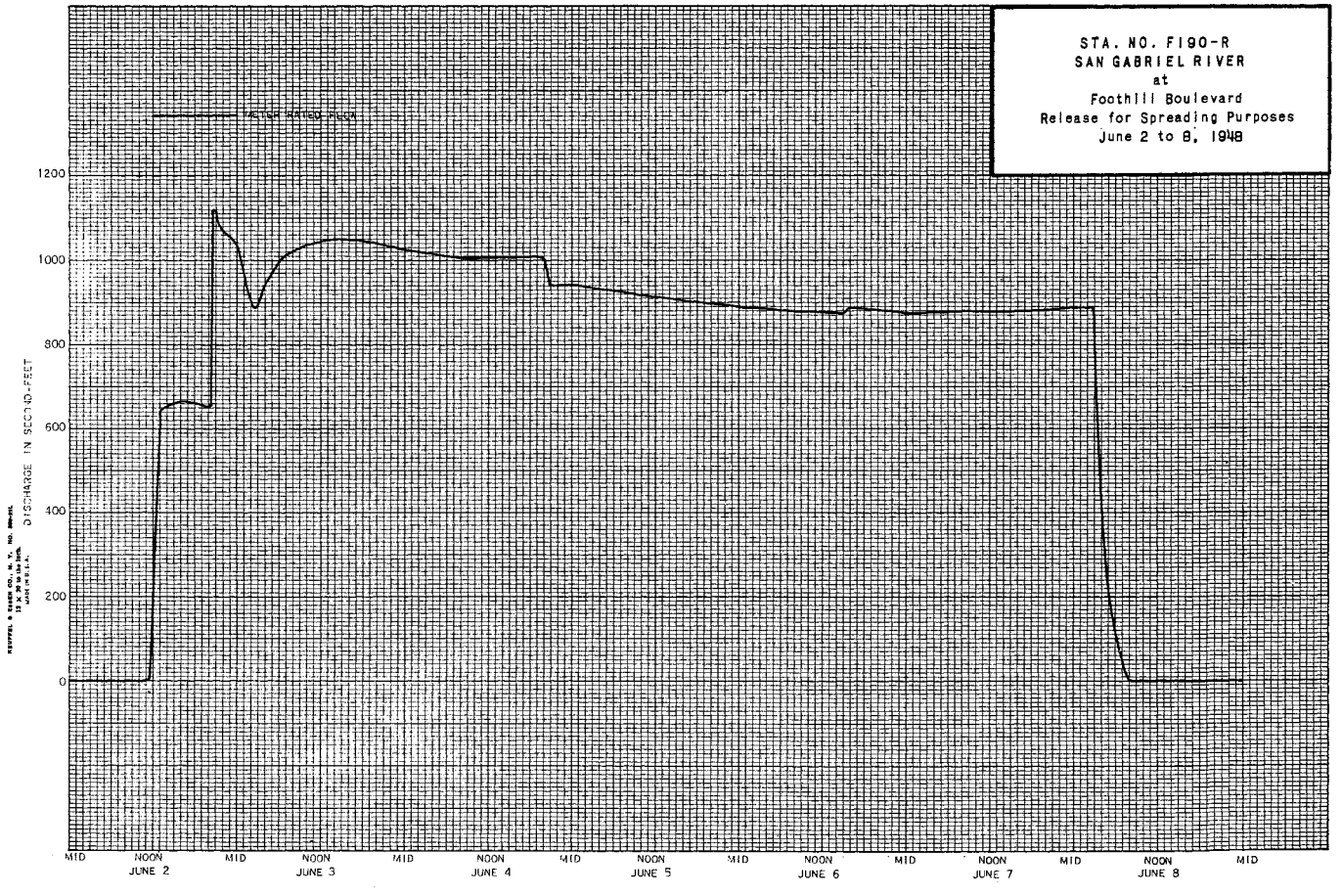
Sta. No. F190-R

Daily discharge, in second-feet of SAN GABRIEL RIVER at Foothill Boulevard, for the year ending September 30, 19 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	383	0	0	0
3	0	0	0	0	0	0	0	0	1010	0	0	0
4	0	0	0	0	0	0	0	0	1000	0	0	0
5	0	0	0	0	0	0	0	0	887	0	0	0
6	0	0	0	0	0	0	0	0	880	0	0	0
7	0	0	0	0	0	0	0	0	900	0	0	0
8	0	0	0	0	0	0	0	0	166	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	
31	0		0	0		0		0		0	0	
	0	0	0	0	0	0	0	0	5226	0	0	0
MEAN	0	0	0	0	0	0	0	0	174.	0	0	0
ACRE-FEET	0	0	0	0	0	0	0	0	10370.	0	0	0

Remarks:

YEAR OR PERIOD — MEAN 14.3 — ACRE-FEET 10370.



STATION E281-R
SAN GABRIEL RIVER below Santa Fe Dam

LOCATION: LAT. 34°06'43", LONG. 117°58'07", ON THE LEFT BANK OF STILLING BASIN OUTLET OF SANTA FE DAM, 0.3 MILE NORTH OF ARROW HIGHWAY AND 1.5 MILES NORTH OF BALDWIN PARK. ELEVATION OF GAGE ABOUT 400 FEET.

DRAINAGE AREA: 231 SQUARE MILES. SPILLWAY FLOW FROM SANTA FE DAM WILL BE PASSED TO RIO HONDO.

CHANNEL AND CONTROL: CHANNEL - A STILLING BASIN LOCATED IN THE OUTLET CHANNEL IMMEDIATELY BELOW SANTA FE DAM. CONTROL - 194.84 FOOT CONCRETE OVERFLOW SECTION TO THE SAN GABRIEL RIVER AND 5 GATED OPENINGS TO THE RIO HONDO DIVERSION CANAL. STATION E281-R RECORDS WATER SURFACE ELEVATION IN THE STILLING BASIN.

DISCHARGE MEASUREMENTS: LOW FLOW MEASUREMENTS MAY BE MADE ON LIP OF BASIN BELOW GAGE HEIGHT 2.5 FEET. HIGH FLOW MEASUREMENTS MAY BE MADE FROM CABLE CAR 1,000 FEET BELOW GAGE.

RECORDER: INSTALLED FEBRUARY 9, 1943, OVER A 6 FT. X 5 FT. CONCRETE STILLING WELL. A STEVENS A-35 RECORDER WAS IN SERVICE FROM OCTOBER 1,1947 TO SEPTEMBER 30, 1949.

REGULATION: FLOW PARTIALLY REGULATED BY SAN GABRIEL DAMS NO. 1 AND 2 AND MORRIS DAM. THERE WERE NO GATES IN SANTA FE DAM DURING 1947-48 SEASON. GATES WERE INSTALLED DECEMBER 1948.

DIVERSION: THERE ARE DIVERSIONS FOR IRRIGATION, POWER DEVELOPMENT AND SPREADING. DISCHARGES OVER THE SPILLWAY OF DAM FLOW TO THE RIO HONDO AND ARE NOT RECORDED AT THIS STATION. FIVE GATED OPENINGS ON THE WEST SIDE OF THE STILLING BASIN MAY DIVERT FLOW TO A DIVERSION CANAL TO THE RIO HONDO. SUCH DIVERSIONS ARE MEASURED AT STATION F280-R.

RECORDS AVAILABLE: RECORDER RECORDS FEBRUARY 9, 1943 TO SEPTEMBER 30, 1949. FOR MEASUREMENTS PRIOR TO FEBRUARY 9, 1943, SEE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT STAFF GAGE STATION F247-S AT ARROW HIGHWAY.

EXTREMES OF DISCHARGE:
1947-1948
MAXIMUM 840 SECOND-FEET, JUNE 4.
MINIMUM NO FLOW MOST OF YEAR.
1948-1949
NO FLOW ENTIRE YEAR.
1942-1945
MAXIMUM 6,700 SECOND-FEET, JANUARY 24, 1943.
MINIMUM NO FLOW MOST OF EACH YEAR.

ACCURACY: GOOD.

COOPERATION: RECORDS FURNISHED BY CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY AND THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH, WITH THE EXCEPTION OF 11 DISCHARGE MEASUREMENTS FURNISHED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY, AND THE UNITED STATES GEOLOGICAL SURVEY.

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT/NEAR below Santa Fe Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
139	6-3		BLAKELY - SILL					720.					
140	6-3		"					770.					
141	6-3		"					779.					
142	6-3		U.S.E.D.	344.	712.	1.08		766					
143	6-3		"	194.	73.0	0.47	10.45	*34.0		.5	24	0	
144	6-3		"	344.	714.	1.06		757.		.6	26		
145	6-4		BLAKELY - SILL					821.					
146	6-4		" "					844.					
147	6-4		U.S.E.D.	344.	721.	1.08		781		.6	24		
148	6-5		MOON - STUNDEN					726.					
149	6-5		STUNDEN - MOON					728.					
150	6-7		U.S.G.S.				10.25	*1.0		EST			
151	6-7		BLAKELY - SILL					803.					
152	6-8		MOON - STUNDEN					51.5					
153	6-8		" "					24.6					
154	6-8		" "					2.4					

Discharge measured in Rio Hondo Diversion Channel plus flow in San Gabriel below diversion.

* Measurement in San Gabriel River below Rio Hondo Diversion.

F. C. Dist. Form 53 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. E281-R

Daily discharge, in second-feet of SAN GABRIEL RIVER below Santa Fe Dam, for the year ending September 30, 19 46

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	67	0	0	0
3	0	0	0	0	0	0	0	0	784	0	0	0
4	0	0	0	0	0	0	0	0	809	0	0	0
5	0	0	0	0	0	0	0	0	726	0	0	0
6	0	0	0	0	0	0	0	0	741	0	0	0
7	0	0	0	0	0	0	0	0	773	0	0	0
8	0	0	0	0	0	0	0	0	194	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	0	0	0	0	0	0	4094	0	0	0
MEAN	0	0	0	0	0	0	0	0	136	0	0	0
ACRE-FEET	0	0	0	0	0	0	0	0	8,120	0	0	0

Remarks: Deduct flow at Sta. F280-R for flows down San Gabriel River.

YEAR OR PERIOD MEAN 11.2
ACRE-FEET 8,120

STATION F261B-R
SAN GABRIEL RIVER at Valley Boulevard

LOCATION: NO WATER-STAGE RECORDER. LAT. 34°03'25", LONG. 118°00'25". GAGE ON THE RIGHT (WEST) ABUTMENT ON THE DOWNSTREAM SIDE OF VALLEY BOULEVARD BRIDGE ABOUT 1.8 MILES SOUTHEAST OF EL MONTE. ELEVATION OF ZERO GAGE HEIGHT, 270.69 FEET.

DRAINAGE AREA: 7.5 SQUARE MILES (EXCLUSIVE OF 231 SQUARE MILES ABOVE SANTA FE DAM).

CHANNEL AND CONTROL: SHIFTING SAND AND GRAVEL. BANKS PROTECTED BY PILING AND WIRE MESH. CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM HIGHWAY BRIDGE.

RECORDER: INSTALLED MARCH 11, 1937 OVER A 21-INCH DIAMETER CORRUGATED IRON PIPE WELL. A HORIZONTAL RATIONAL RECORDER WAS IN SERVICE FROM OCTOBER 1, 1945 TO APRIL 23, 1946. RECORDER REMOVED IN SUMMER OF 1946. (SEE REMARKS).

REGULATION: FLOW PARTIALLY REGULATED BY SAN GABRIEL DAMS NO. 1 AND 2, MORRIS DAM, AND SANTA FE DAM.

DIVERSIONS: THERE ARE ALSO SEVERAL DIVERSIONS FOR IRRIGATION, SPREADING AND POWER DEVELOPMENT.

RECORDS AVAILABLE:
STATION F261-R - MARCH 11, 1937 TO SEPTEMBER 30, 1941.
STATION F261B-R - OCTOBER 1, 1941 TO SEPTEMBER 30, 1949. (SEE REMARKS).

EXTREMES OF DISCHARGE:
1947-1948
NO FLOW FOR ENTIRE YEAR.
1948-1949
NO FLOW FOR ENTIRE YEAR.
1941-1949
MAXIMUM 9400 SECOND-FEET, ESTIMATED, JANUARY 23, 1943.
MINIMUM NO FLOW PART OF SOME YEARS.

OPERATION: LOCATED, CONSTRUCTED 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. WALNUT CREEK DISCHARGE IS NOT INCLUDED IN THIS RECORD. RECORDER RECORDS WERE DISCONTINUED DUE TO EXTREMELY POOR RATING CONDITIONS. FLOW RECORDS WILL BE INTERPOLATED BETWEEN MEASUREMENTS AND COMPUTED BY COMPARISON. NO FLOW FOR CURRENT SEASONS.

STATION F263-R
SAN GABRIEL RIVER at Beverly Boulevard

LOCATION: WATER-STAGE RECORDER, LAT. 34°00'20", LONG. 118°04'07", ON THE DOWNSTREAM SIDE OF THE BEVERLY BOULEVARD BRIDGE TO NOVEMBER 14, 1947 AT WHICH TIME THE STATION WAS MOVED TO 50 FEET ABOVE BEVERLY BOULEVARD, 0.5 MILE EAST OF PICO. ELEVATION OF ZERO GAGE HEIGHT, 173 FEET.

DRAINAGE AREA: 206.5 SQUARE MILES (EXCLUSIVE OF DRAINAGE AREA ABOVE SANTA FE DAM).

CHANNEL AND CONTROL: CHANNEL - SAND AND SILT, CONTROLLED BY DIP CROSSING WITH EIGHT 36-INCH CULVERTS FROM NOVEMBER 14, 1947.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM CABLE CAR 30 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, 1947 TO SEPTEMBER 30, 1949.

REGULATION: FLOW PARTIALLY REGULATED BY SAN GABRIEL DAMS NO. 1 AND NO. 2, MORRIS DAM, SANTA FE DAM, BIG DALTON DAM, PUDDINGSTONE DIVERSION DAM, PUDDINGSTONE DAM, LIVE OAK DAM, AND THOMPSON CREEK DAM.

DIVERSIONS: THERE ARE SEVERAL DIVERSIONS FOR IRRIGATION, POWER DEVELOPMENT AND SPREADING.

RECORDS AVAILABLE: FEBRUARY 4, 1937 TO SEPTEMBER 30, 1949. (FOR RECORDS PRIOR TO FEBRUARY 4, 1937, SEE STATION F63-R, SAN GABRIEL RIVER AT WHITTIER BLVD. IN PREVIOUS REPORTS. FOR RECORDS PRIOR TO 1929 SEE STATE DIVISION OF WATER RIGHTS BULLETINS V AND VI).

EXTREMES OF DISCHARGE:
1947-1948
MAXIMUM 85 SECOND-FEET, FEBRUARY 6.
MINIMUM NO FLOW PART OF YEAR.
1948-1949
MAXIMUM 144 SECOND-FEET, JANUARY 20.
MINIMUM NO FLOW PART OF YEAR.
1936-1949
MAXIMUM 22,700 SECOND-FEET, ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW AT VARIOUS TIMES. (FOR EARLIER YEARS SEE STATION F63-R).

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

REMARKS: STATION MOVED UPSTREAM APPROXIMATELY 150 FEET ON NOVEMBER 26, 1947 TO TEMPORARY LOCATION UNTIL NEW HIGHWAY BRIDGE IS CONSTRUCTED.

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT ~~NEAR~~ Beverly Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
561	12-4	1120 / 1130	WADDICOR	10.0	4.66	2.14	5.67	9.9		.6	6	0	FC37
562	12-8	1320 / 1330	"	24.0	25.6	1.51	5.43	38.8		.6	9	0	"
563	12-11	1110 / 1120	"	15.5	15.4	3.13	5.59	48.2		.6	9	0	"
564	12-19	0830 / 0855	STUNDEN	38.0	43.5	1.11	5.52	48.3		.6	12	0	FC36
565	12-23	1200 / 1212	WADDICOR	40.0	43.5	1.01	5.50	44.0		.6	10	0	FC37
566	12-26	1105 / 1115	"	36.0	42.6	1.05	5.50	44.9		.6	9	0	"
567	1-2	1048 / 1058	"	39.0	42.2	1.06	5.55	44.8		.6	9	0	"
568	1-8	1045 / 1055	"	40.0	32.9	1.47	5.56	48.3		.6	10	0	"
569	1-15	1035 / 1048	"	39.2	26.2	1.50	5.52	39.2		.6	11	0	"
570	1-22	1050 / 1100	"	28.0	15.0	1.25	5.20	18.8		.6	11	0	"
571	1-29	1040 / 1050	"	21.0	10.9	1.11	5.02	12.1		.6	7	0	"
572	2-5	1100 / 1110	WADDICOR - PAYNE	23.0	13.1	1.31	5.15	17.2		.6	8	0	"
573	2-6	1235 / 1247	" "	38.0	26.9	1.40	5.52	37.7		.6	10	0	"
574	2-13	1338 / 1348	WADDICOR	32.0	25.2	1.05	5.45	26.5		.6	9	0	"
575	2-19	1015 / 1027	"	37.0	20.7	1.54	5.40	32.0		.6	8	0	"
576	2-26	1105 / 1115	WADDICOR - SILL	42.0	23.5	1.29	5.37	30.4		.6	11	0	"
577	3-4	1035 / 1045	WADDICOR	21.0	11.6	0.92	5.00	10.7		.6	11	0	"
578	3-11	1105 / 1112	"	10.0	3.76	0.98	4.84	3.7		.6	6	0	"
579	3-17	1332 / 1342	"	42.0	21.6	0.94	5.20	20.4		.6	10	0	"
580	3-18	1055 / 1105	"	27.0	15.3	0.66	5.02	13.1		.6	10	0	"
581	3-23	1300 / 1310	"	29.0	14.0	1.01	5.07	14.2		.6	11	0	"
582	3-24	2005 / 2020	WADDICOR - PAYNE	56.0	44.2	1.56	5.80	69.8		.6	12	+.01	"
583	4-1	1038 / 1048	WADDICOR	30.0	19.5	1.41	5.24	27.6		.6	10	0	"
584	4-6	1110 / 1120	WADDICOR - PAYNE	33.0	28.7	1.01	5.35	29.0		.6	9	0	"
585	4-8	1035 / 1045	WADDICOR	32.0	24.4	1.06	5.30	26.0		.6	9	0	FC37
586	4-15	1020 / 1030	"	35.0	24.6	1.18	5.28	29.0		.6	10	0	"
587	4-22	1040 / 1050	"	33.0	24.6	0.96	5.28	23.5		.6	9	0	"
588	4-29	1030 / 1040	"	28.5	11.9	1.07	5.04	12.7		.6	9	0	"
589	5-4	1305 / 1316	WADDICOR-BONADIMAN	29.0	15.3	1.15	5.17	17.6		.6	9	0	"
590	5-6	1037 / 1047	WADDICOR	28.5	15.6	1.05	5.17	16.4		.6	9	0	"
591	5-12	1335 / 1345	"	12.0	5.77	0.99	4.84	5.7		.6	7	0	"
592	5-13	1105 / 1115	"	21.5	6.89	0.83	4.84	5.7		.6	8	0	"

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT ~~NEAR~~ Beverly Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
593	12-18	1010 / 1020	WADDICOR	30.0	22.2	0.87	5.15	19.4		.6	8	0	FC37
594	12-22	1403 / 1418	"	22.5	13.3	1.40	5.13	18.6		.6	10	0	"
595	12-23	1518 / 1530	"	23.0	12.5	1.54	5.14	19.2		.6	10	0	"
596	12-27	0042 / 0052	WADDICOR - PAYNE	24.0	16.4	1.43	5.24	23.4		.6	8	+.01	"
597	12-27	1103 / 1113	"	24.0	16.6	1.72	5.31	28.5		.6	9	0	"
598	12-31	1340 / 1350	WADDICOR	22.0	12.8	1.56	5.15	20.0		.6	9	0	"
599	1-6	1028 / 1038	"	21.0	10.4	1.09	5.00	11.3		.6	8	0	"
600	1-13	1130 / 1140	WADDICOR - PAYNE	26.0	19.2	1.59	5.30	30.6		.6	9	0	"
601	1-20	0825 / 0835	" "	36.0	39.3	1.78	5.94	70.0		.6	9	0	"
602	1-21	1300 / 1310	" "	28.0	20.6	1.59	5.47	32.7		.6	8	0	"
603	1-27	1706 / 1716	WADDICOR	27.0	24.0	1.21	5.31	29.1		.6	9	0	"
604	2-3	1310 / 1320	WADDICOR - PAYNE	35.0	29.8	1.31	5.42	39.0		.6	10	0	"
605	2-7	1255 / 1305	" "	34.0	29.5	1.38	5.45	40.8		.6	9	0	"
606	2-10	1105 / 1115	WADDICOR	33.0	23.4	1.42	5.25	33.2		.6	9	0	"
607	2-17	1053 / 1103	"	32.0	25.0	1.27	5.29	31.7		.6	9	0	"
608	2-24	1058 / 1109	"	34.0	27.7	1.24		34.4		.6	9		"
609	3-3	1110 / 1120	"	37.0	33.8	1.01	5.44	34.3		.6	11	0	"
610	3-10	1142 / 1156	WADDICOR - DIAS	39.0	38.8	0.90	5.05	34.8		.6	10	0	"
611	3-11	1125 / 1137	WADDICOR - PAYNE	40.0	43.4	0.97	5.63	41.9		.6	10	-.01	"
612	3-17	1100 / 1112	WADDICOR	35.0	29.9	1.06	5.37	31.7		.6	9	0	"
613	3-24	1115 / 1125	"	34.0	28.6	1.24		36.5		.6	9		"
614	3-30	1100 / 1112	"	34.0	26.5	1.31	5.24	34.8		.6	10	0	"
615	4-7	1303 / 1312	WADDICOR - LANG	13.0	6.36	1.29	4.86	8.2		.6	9	0	"
616	4-14	1042 / 1052	WADDICOR	13.5	5.33	0.71	4.75	3.8		.5	8	0	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F263-R

Daily discharge, in second-feet of SAN GABRIEL RIVER at Beverly Boulevard, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	d +	43	26	28	26	a 13	0	0	0	0
2	0	0	30	43	19	28	26	15	0	0	0	0
3	0	0	60	43	85	18	34	17	0	0	0	0
4	0	0	99	45	78	11	37	a 18	0	0	0	0
5	0	0	17	48	21	10	28	16	0	0	0	0
6	0	0	24	48	42	88	31	16	0	0	0	0
7	0	0	31	48	25	85	28	17	0	0	0	0
8	0	0	39	47	22	10	26	a 14	0	0	0	0
9	0	0	42	44	21	19	26	12	0	0	0	0
10	0	0	45	41	20	16	28	10	0	0	0	0
11	0	0	48	43	21	34	29	a 8.0	0	0	0	0
12	0	0	48	41	27	26	27	5.7	0	0	0	0
13	0	0	47	40	28	54	30	4.9	0	0	0	0
14	0	0	46	40	28	13	29	2.3	0	0	0	0
15	0	0	d 45	40	29	9.7	32	0	0	0	0	0
16	0	0	45	38	31	8.2	28	0	0	0	0	0
17	0	0	45	36	32	17	25	0	0	0	0	0
18	0	0	47	40	31	15	26	0	0	0	0	0
19	0	0	46	40	31	16	25	0	0	0	0	0
20	0	0	45	38	32	20	22	0	0	0	0	0
21	0	0	44	28	32	16	21	0	0	0	0	0
22	0	0	43	16	35	14	20	0	0	0	0	0
23	0	0	42	11	32	14	19	0	0	0	0	0
24	0	0	40	12	33	28	17	0	0	0	0	0
25	0	0	41	17	32	29	17	0	0	0	0	0
26	0	0	42	20	32	16	9.7	0	0	0	0	0
27	0	0	42	14	32	18	7.8	0	0	0	0	0
28	0	0	43	12	32	24	9.2	0	0	0	0	0
29	0	0	46	12	28	23	12	0	0	0	0	0
30	0	0	41	13		25	11	0	0	0	0	0
31	0		41	17		26		0		0	0	
	0	0	1143.9	1018.0	790.3	500.8	706.7	168.9	0	0	0	0
MEAN	0	0	36.9	32.8	27.3	16.2	23.6	5.45	0	0	0	0
ACRE-FEET	0	0	2270.	2020.	1570.	993.	1400.	335.	0	0	0	0

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

YEAR OR PERIOD MEAN 11.8
ACRE-FEET 8,590.

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

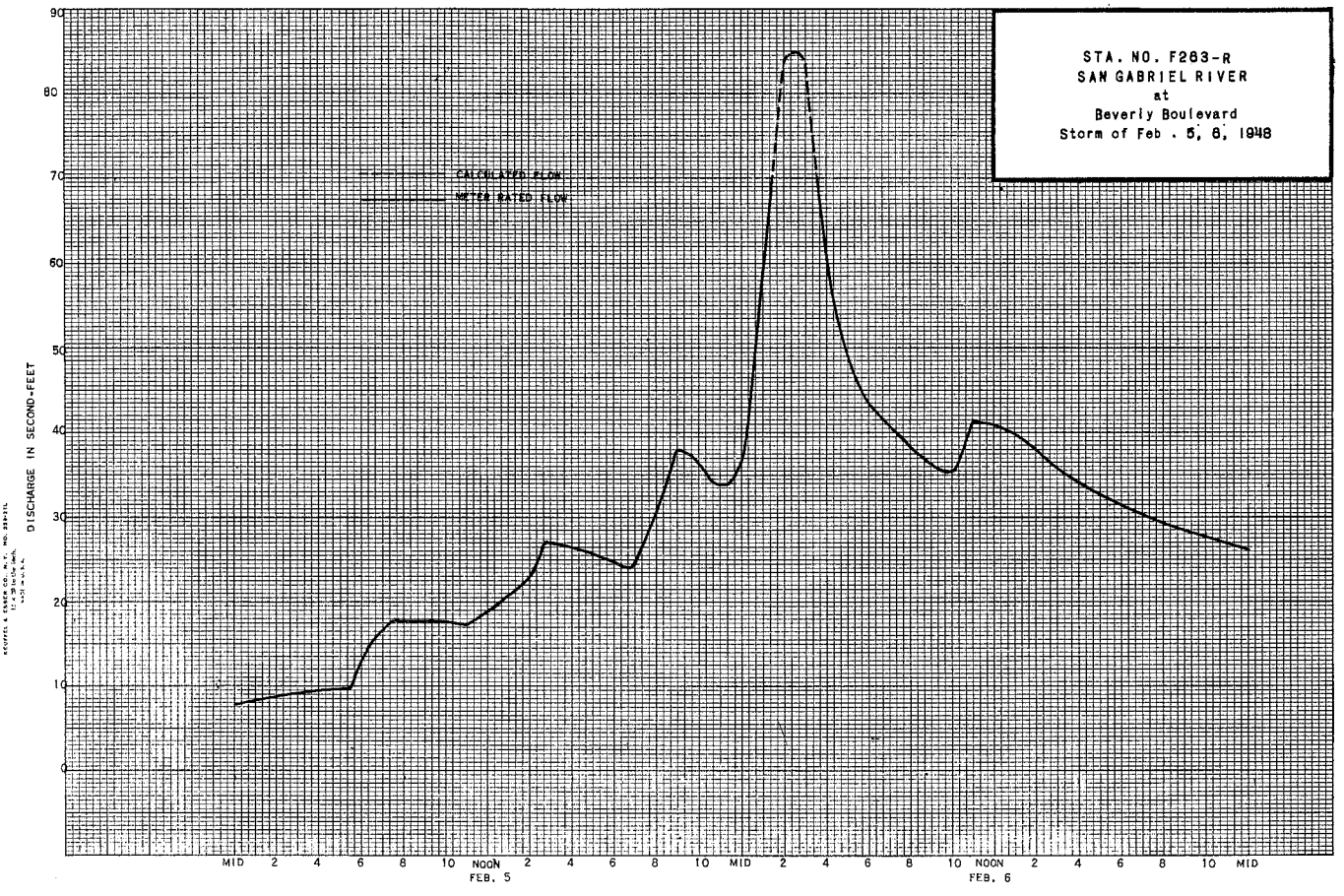
Sta. No. F263-R

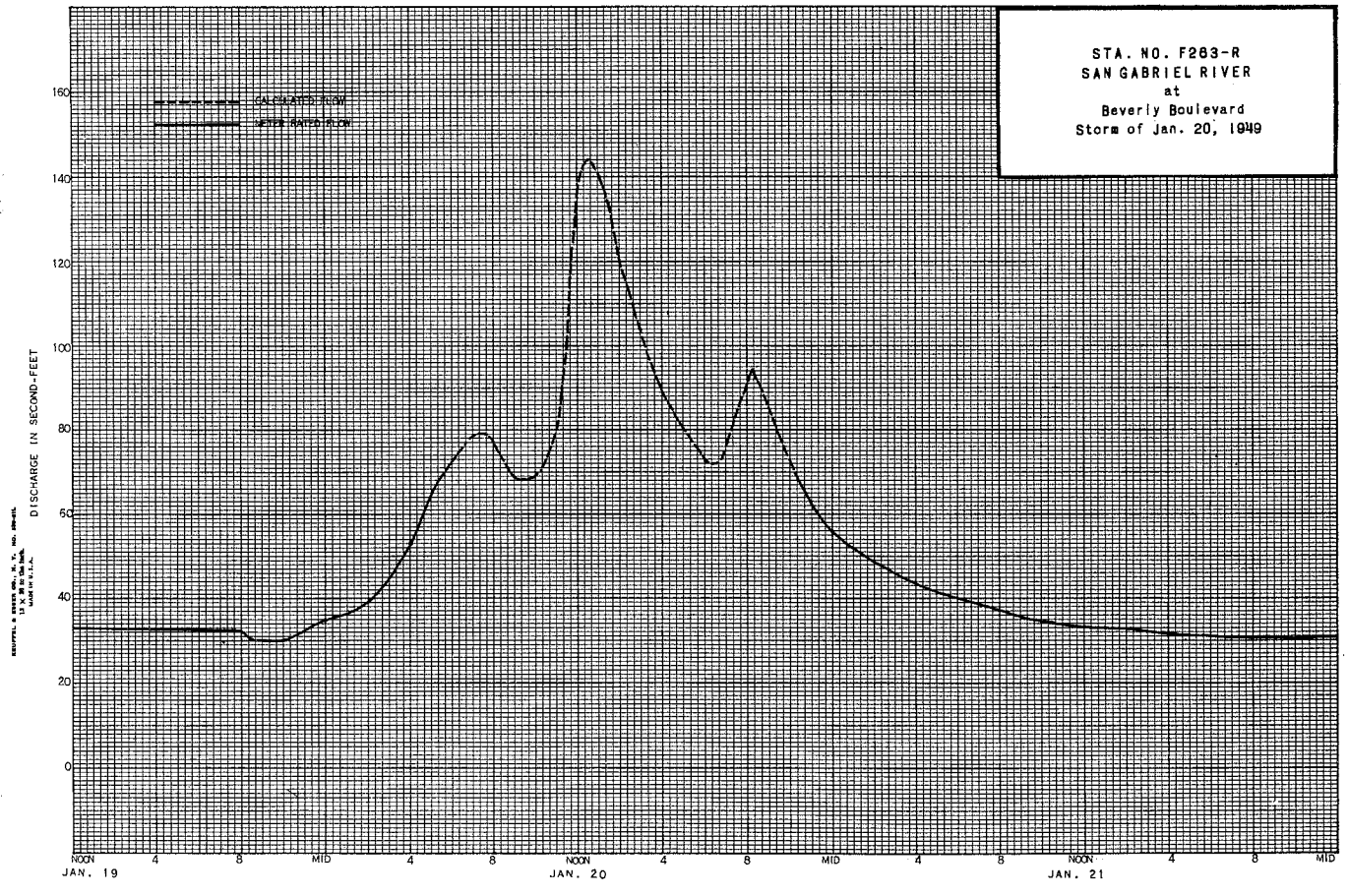
Daily discharge, in second-feet of San Gabriel River at Beverly Boulevard, for the year ending September 30, 19 49

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	21	32	30	32	0	0	0	0	0
2	0	0	0	21	32	32	31	0	0	0	0	0
3	0	0	0	20	36	33	32	0	0	0	0	0
4	0	0	0	11	32	34	28	0	0	0	0	0
5	0	0	0	11	32	41	24	0	0	0	0	0
6	0	0	0	11	30	35	15	0	0	0	0	0
7	0	0	0	16	40	32	8.5	0	0	0	0	0
8	0	0	0	20	38	33	7.8	0	0	0	0	0
9	0	0	0	23	30	33	4.9	0	0	0	0	0
10	0	0	0	22	33	34	4.7	0	0	0	0	0
11	0	0	0	27	33	37	4.1	0	0	0	0	0
12	0	0	0	28	35	24	4.7	0	0	0	0	0
13	0	0	0	30	32	24	4.0	0	0	0	0	0
14	0	0	0	29	30	26	4.1	0	0	0	0	0
15	0	0	0	28	31	32	4.5	0	0	0	0	0
16	0	0	0	28	30	30	3.8	0	0	0	0	0
17	0	0	3.7	29	31	29	3.1	0	0	0	0	0
18	0	0	22	31	31	31	1.5	0	0	0	0	0
19	0	0	16	32	31	26	0	0	0	0	0	0
20	0	0	16	77	33	28	0	0	0	0	0	0
21	0	0	18	36	33	30	0	0	0	0	0	0
22	0	0	20	31	33	31	0	0	0	0	0	0
23	0	0	20	32	35	32	0	0	0	0	0	0
24	0	0	18	30	33	33	0	0	0	0	0	0
25	0	0	18	32	28	33	0	0	0	0	0	0
26	0	0	19	29	30	37	0	0	0	0	0	0
27	0	0	26	30	33	37	0	0	0	0	0	0
28	0	0	21	29	30	41	0	0	0	0	0	0
29	0	0	20	31		39	0	0	0	0	0	0
30	0	0	20	32		33	0	0	0	0	0	0
31	0		20	32		32		0		0	0	
	0	0	277.7	859.0	907.0	1002.0	217.7	0	0	0	0	0
MEAN	0	0	8.96	27.7	32.4	32.3	7.26	0	0	0	0	0
ACRE-FEET	0	0	551.	1700.	1800.	1990.	432.	0	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN 8.24
ACRE-FEET 6470.


STA. NO. F283-R
SAN GABRIEL RIVER
at
Beverly Boulevard
Storm of Feb . 5, 8, 1948
CALCULATED FLOW
METER RATED FLOW
DISCHARGE IN SECOND-FEET
90
80
70
60
50
40
30
20
10
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
FEB. 5
FEB. 6


STA. NO. F283-R
SAN GABRIEL RIVER
at
Beverly Boulevard
Storm of Jan. 20, 1949
CALCULATED FLOW
METER RATED FLOW
DISCHARGE IN SECOND-FEET
160
140
120
100
80
60
40
20
0
NOON 4 8 MID 4 8 NOON 4 8 MID 4 8 NOON 4 8 MID
JAN. 19
JAN. 20
JAN. 21

STATION F262-R
SAN GABRIEL RIVER at Florence Avenue

LOCATION: WATER-STAGE RECORDER, LAT. 33°56'20", LONG. 118°06'00", ON THE DOWNSTREAM SIDE OF THE FLORENCE AVENUE (FORMERLY EASY STREET) BRIDGE ABOUT 2 MILES EAST OF DOWNEY. ELEVATION OF ZERO GAGE HEIGHT, 110.94 FEET.

DRAINAGE AREA: 215 SQUARE MILES (EXCLUSIVE OF AREA ABOVE SANTA FE DAM).

CHANNEL AND CONTROL: SHIFTING SAND BOTTOM BETWEEN EARTH LEVEES. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM UPSTREAM SIDE OF FLORENCE AVENUE BRIDGE.

RECORDER: INSTALLED ON FEBRUARY 27, 1937 OVER 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, 1947 TO MARCH 22, 1949. AN AUXILIARY STILLING WELL AND RECORDER ARE MAINTAINED ON THE WEST OF THE CHANNEL; STATION REMOVED MARCH 22, 1949 TO PERMIT REMOVAL OF BRIDGE.

REGULATION: FLOW PARTIALLY REGULATED BY SAN GABRIEL DAMS NO. 1 AND 2, MORRIS DAM, SANTA FE DAM, BIG DALTON DAM, SAN DIMAS DAM, PUDDINGSTONE DIVERSION DAM, PUDDINGSTONE DAM, LIVE OAK DAM, AND THOMPSON CREEK DAM.

DIVERSIONS: THERE ARE SEVERAL DIVERSIONS FOR IRRIGATION, POWER DEVELOPMENT AND SPREADING. VARIABLE QUANTITIES OF IRRIGATION WASTE RETURNS ARE RECORDED AT THE STATION.

RECORDS AVAILABLE: FEBRUARY 27, 1937 TO SEPTEMBER 30, 1948. RECORDER RECORD LOST FROM AUGUST 19, 1938 TO NOVEMBER 23, 1938, DUE TO THEFT OF RECORDER. FOR EARLIER RECORDS SEE STATION FZ37-R, SAN GABRIEL RIVER AT TELEGRAPH ROAD.

EXTREMES OF DISCHARGE:

1947-1948
NO FLOW FOR ENTIRE YEAR.

1948-1949
NO FLOW ENTIRE YEAR.

1937-1948
MAXIMUM NOT DETERMINED, MARCH 2, 1938.
MAXIMUM DISCHARGE OF RECORD, 15,960 SECOND-FEET, FEBRUARY 22, 1944.
MINIMUM NO FLOW AT VARIOUS TIMES.

OPERATION: LOCATED AND CONSTRUCTED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT, AND OPERATED IN COOPERATION WITH THE SAN GABRIEL VALLEY PROTECTIVE ASSOCIATION.

STATION F42-R
SAN GABRIEL RIVER at Spring Street, Long Beach

LOCATION: WATER-STAGE RECORDER, LAT. 33°48'38", LONG. 118°05'25", ON DOWNSTREAM SIDE OF SPRING STREET BRIDGE ABOUT 4 MILES EAST OF SIGNAL HILL NEAR LONG BEACH. THIS STATION IS NEAR THE LOCATION OF THE STATION OPERATED IN 1924 BY THE STATE DIVISION OF WATER RIGHTS. ELEVATION OF ZERO GAGE HEIGHT, 16.69 FEET.

DRAINAGE AREA: 215.5 SQUARE MILES (EXCLUSIVE OF AREA ABOVE SANTA FE DAM).

CHANNEL AND CONTROL: CHANNEL - SAND AND SILT OVER ADOBE WITH EARTH LEVEES PROTECTED BY WIRE MESH. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING; HIGH FLOWS MEASURED FROM CATWALK ON UPSTREAM SIDE OF SPRING STREET BRIDGE.

RECORDER: INSTALLED FEBRUARY 6, 1928 OVER A 21-INCH DIAMETER CORRUGATED IRON PIPE STILLING WELL. AN AU CONTINUOUS RECORDER IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: FLOW PARTIALLY REGULATED BY SAN GABRIEL DAMS NO. 1 AND NO. 2, MORRIS DAM, SANTA FE DAM, BIG DALTON DAM, SAN DIMAS DAM, PUDDINGSTONE DAM, PUDDINGSTONE DIVERSION DAM, LIVE OAK DAM, AND THOMPSON CREEK DAM.

DIVERSIONS: THERE ARE SEVERAL DIVERSIONS FOR IRRIGATION, POWER DEVELOPMENT AND SPREADING

RECORDS AVAILABLE: FEBRUARY 6, 1928 TO SEPTEMBER 30, 1949. (FOR PERIODS PRIOR TO FEBRUARY 1928 SEE STATE DIVISION OF WATER RIGHTS BULLETINS).

EXTREMES OF DISCHARGE:

1947-1948
NO FLOW FOR ENTIRE YEAR.

1948-1949
NO FLOW FOR ENTIRE YEAR.

1927-1949
MAXIMUM 27,000 SECOND-FEET, ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW MOST OF EACH YEAR.

OPERATION: OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT. LOCATED BY THE STATE DIVISION OF WATER RIGHTS.

STATION F48-R
SAN JOSE CREEK at Workman Mill Road

LOCATION: WATER-STAGE RECORDER, LAT. 34°01'24", LONG. 118°02'05", ON THE DOWNSTREAM SIDE OF WORKMAN MILL ROAD BRIDGE, ABOUT 3 MILES NORTH OF WHITTIER. THIS STATION IS NEAR THE LOCATION OF THE STATION OPERATED FROM 1923 TO 1929 BY THE STATE DIVISION OF WATER RIGHTS. ELEVATION OF ZERO GAGE HEIGHT, 214.85 FEET.

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 AU CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: FLOW PARTIALLY REGULATED BY THOMPSON CREEK DAM.

DIVERSIONS: SMALL DIVERSION FOR SPREADING. (SEE STATION F276-R).

RECORDS AVAILABLE: JANUARY 2, 1929 TO SEPTEMBER 30, 1949. (FOR RECORDS PRIOR TO JANUARY 2, 1929 SEE STATE DIVISION OF WATER RIGHTS BULLETINS).

EXTREMES OF DISCHARGE:

1947-1948
MAXIMUM 160 SECOND-FEET, DECEMBER 6.
MINIMUM 0.6 SECOND-FEET, JULY 6.

1948-1949
MAXIMUM 107 SECOND-FEET, JANUARY 20.
MINIMUM 0.2 SECOND-FOOT, SEVERAL DAYS.

1928-1949
MAXIMUM 13,100 SECOND-FEET, JANUARY 1, 1934.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD FOR LOW FLOWS, FAIR FOR HIGH FLOWS DUE TO UNDETERMINED SHIFT.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

DISCHARGE MEASUREMENTS OF SAN JOSE CREEK

AT OR NEAR Workman Mill Road DURING THE YEAR ENDING SEPTEMBER 30, 1948

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	D. HT. CHANGE TOTAL	METER NO.
753	10-2	1340 / 1350	WADDICOR	10.0	2.40	0.75	0.80	1.8		.6	5	C	FC37
754	10-9	1325 / 1335	"	10.8	2.62	C.95	0.81	2.5		.6	6	C	"
755	10-16	1330 / 1340	"	10.0	2.05	0.78	C.81	1.6		.6	7	0	"
756	10-22	1030 / 1040	"	10.3	2.19	0.91	0.80	2.0		.6	7	C	"
757	10-30	1330 / 134C	"	10.0	2.41	0.91	0.82	2.2		.6	6	0	"
758	11-6	1340 / 1350	"	9.5	2.31	0.87	0.83	2.0		.6	6	0	"
759	11-12	1355 / 1403	"	10.0	2.30	C.86	0.81	2.0		.6	6	0	"
760	11-20	1320 / 1330	"	9.0	1.84	C.71	0.81	1.3		.6	6	0	"
761	11-26	1040 / 1050	"	8.5	1.73	0.75	C.81	1.3		.6	5	0	"
762	12-4	1350 / 1400	"	8.9	2.10	0.86	0.83	1.8		.6	6	0	"
763	12-6	0955 / 1005	WADDICOR - PAYNE	16.0	8.77	1.76	1.12	15.4		.6	6	0	"
764	12-8	1430 / 1440	WADDICOR	9.5	2.99	C.67	0.76	2.0		.6	7	0	"
765	12-11	1400 / 1410	"	8.5	3.48	1.23	C.87	4.3		.6	5	0	"
766	12-18	124C / 1250	STUNDEN	10.0	4.16	C.99	0.87	4.1		.6	7	0	FC36
767	12-23	113C / 1140	WADDICOR	10.0	4.09	1.00	C.86	4.1		.6	6	0	FC37
768	1-2	1355 / 1405	"	10.5	4.43	0.97	0.86	4.3		.6	6	0	"
769	1-8	1325 / 1335	"	11.0	4.42	1.04	0.88	4.6		.6	6	0	"
770	1-15	1343 / 1353	"	10.5	2.41	1.62	0.90	3.9		.6	6	0	"
771	1-22	1320 / 1330	"	10.0	4.77	1.05	0.89	5.0		.6	6	0	"
772	1-29	1330 / 1340	"	7.6	3.47	1.30	0.86	4.5		.6	6	0	"
773	2-5	1125 / 1135	WADDICOR - PAYNE	11.2	5.37	1.32	0.97	7.1		.6	6	.01	"
774	2-6	131C / 1320	"	11.0	5.48	1.46	0.98	8.0		.6	6	0	"
775	2-13	1400 / 1407	WADDICOR	8.2	2.50	1.52	0.83	3.8		.6	8	0	"
776	2-18	1244 / 1254	"	9.5	3.62	1.13	C.86	4.1		.6	7	0	"
777	2-26	1330 / 1346	STILL - WADDICOR	9.5	4.41	1.16	0.89	5.1		.6	7	0	"
778	3-3	1335 / 1345	WADDICOR	9.2	4.21	1.02	0.93	4.3		.6	5	0	"
779	3-11	1359 / 1409	"	11.0	5.17	1.12	0.99	5.8		.6	7	0	"
780	3-17	1050 / 1100	"	20.3	17.3	0.97	1.57	16.8		.6	8	0	"
781	3-18	1325 / 1335	"	9.1	4.72	1.40	1.15	6.6		.6	5	0	"
782	3-23	1325 / 1335	"	9.0	5.43	1.36	1.27	7.4		.6	6	0	"
783	3-24	1922 / 1932	WADDICOR - PAYNE	36.0	48.5	1.50	2.36	72.7		.6	9	C	"
784	4-1	1330 / 1340	WADDICOR	9.0	4.35	0.94	1.14	4.1		.6	6	0	"
785	4-6	1455 / 1505	"	9.0	5.04	0.99	1.26	5.0		.6	6	0	"
786	4-15	1320 / 1330	"	8.0	4.55	0.77	1.35	3.5		.6	5	0	"
787	4-22	142C / 1430	"	9.0	6.14	0.78	1.52	4.8		.6	6	0	"
788	4-29	1330 / 1340	"	10.5	9.02	C.55	1.44	5.0		.6	6	0	"
789	5-6	1345 / 1355	"	8.0	6.25	0.53	1.35	3.3		.6	5	0	"
790	5-10	1435 / 1445	WADDICOR - STUNDEN	11.5	6.77	0.56	1.14	3.8		.6	7	0	"
791	5-12	1410 / 1418	WADDICOR	10.5	6.13	0.78	1.13	4.8		.6	5	0	"
792	5-13	1325 / 1335	"	10.7	9.36	0.54	1.17	5.1		.6	6	0	"
793	5-20	1325 / 1335	"	5.0	2.62	1.03	0.97	2.7		.6	5	0	"
794	5-26	1120 / 1128	"	4.5	3.01	0.86	0.96	2.6		.6	5	.01	"
795	6-2	1305 / 1315	"	5.0	2.32	1.08	0.96	2.5		.6	5	.01	"
796	6-10	1315 / 1325	"	4.0	1.43	1.26	0.84	1.8		.6	4	C	"
797	6-17	1342 / 1348	"	3.5	1.47	1.02	0.91	1.5		.6	4	0	"
798	6-24	1330 / 1340	"	3.5	1.82	0.99	0.94	1.8		.6	4	0	"
799	6-30	1340 / 1350	"	3.0	1.42	1.13	0.98	1.6		.6	5	0	"
800	7-8	1325 / 1335	"	4.0	2.03	1.08	1.05	2.2		.6	5	0	"
801	7-15	1305 / 1310	WALDICOR - BARON	3.5	1.99	1.16	1.04	2.3		.6	5	0	"
802	7-22	1328 / 1333	WADDICOR	3.5	1.94	0.82	0.95	1.6		.6	4	0	"
803	7-28	1307 / 1317	"	3.0	0.94	0.86	0.93	0.81		.6	4	0	"
804	7-29	1350 / 1400	WADDICOR - BONADIMAN	3.0	1.07	0.79	0.89	0.85		.6	5	0	"
805	8-4	1402 / 1410	LYNN - BONADIMAN	4.0	1.40	0.95	0.91	1.3		.5	4	0	FC19
806	8-11	1321 / 133C	BONADIMAN	6.0	1.60	0.75	0.88	1.2		.6	5	0	FC46
807	8-19	1505 / 1515	LYNN - WADDICOR	4.0	1.22	0.68	0.86	0.83		.6	7	0	FC37
808	8-24	1355 / 1400	WADDICOR - STUNDEN	5.0	1.50	0.80	0.83	1.2		.6	5	0	"
809	8-26	1340 / 1350	WADDICOR	4.7	1.57	0.76	0.83	1.2		.6	5	0	"
810	9-2	1322 / 1330	"	4.5	1.25	0.71	0.82	0.89		.6	5	0	"
811	9-8	1335 / 1345	STUNDEN	5.0	2.08	1.15	0.85	2.4		.5	6	0	FC36
812	9-16	1412 / 1424	WADDICOR	4.0	1.49	0.65	0.78	0.97		.6	4	0	FC37
813	9-22	1329 / 1337	"	4.4	1.21	0.69	0.79	0.84		.6	5	0	"
814	9-30	1355 / 1403	"	4.3	1.24	0.68	0.79	0.84		.6	5	0	"

DISCHARGE MEASUREMENTS OF SAN JOSE CREEK

AT ~~NEAR~~ Workman Mill Road DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATINGS	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
815	10-7	1408 / 1416	WADDICOR	4.0	1.00	0.81	0.77	0.81		.6	4	0	FC37
816	10-14	1338 / 1345	"	4.0	0.98	0.85	0.78	0.83		.6	4	0	"
817	10-21	1324 / 1332	"	4.6	1.24	0.97	0.80	1.2		.6	5	0	"
818	10-28	1352 / 1358	"	4.0	0.96	0.85	0.78	0.82		.6	4	0	"
819	11-4	1405 / 1413	"	4.0	1.18	0.85	0.83	1.0		.5	4	0	"
820	11-12	1502 / 1508	"	4.0	1.25	1.04	0.83	1.3		.6	4	0	"
821	11-18	1300 / 1308	WADDICOR - WILLUT	6.0	1.58	0.61	0.83	0.96		.6	6	0	"
822	11-26	1339 / 1340	WADDICOR	4.0	1.20	0.75	0.83	0.90		.6	4	0	"
823	12-2	1355 / 1402	"	3.7	0.98	0.99	0.85	0.97		.5	4	0	"
824	12-9	1423 / 1430	"	4.0	0.94	0.90	0.83	0.85		.5	4	0	"
825	12-16	1322 / 1330	"	3.8	1.10	0.70	0.81	0.77		.5	4	0	"
826	12-17	1115 / 1125	"	14.0	6.80	1.37	1.17	9.3		.6	7	0	"
827	12-23	1432 / 1442	"	4.4	1.45	0.90	0.75	1.3		.6 .5	5	0	"
828	12-27	1215 / 1225	WADDICOR - PAYNE	9.0	3.49	1.12	0.94	3.9		.6	6	0	"
829	12-30	1450 / 1459	WADDICOR	4.0	1.16	0.81	0.72	0.94		.6 .5	4	0	"
830	1-6	1343 / 1348	"	4.0	1.04	0.84	0.76	0.87		.6 .5	4	0	"
831	1-13	1247 / 1257	WADDICOR - PAYNE	12.0	5.32	1.09	0.98	5.8		.6	6	+.01	"
832	1-20	0945 / 0955	" "	46.0	42.2	2.52	2.13	106.		.6	9	+.01	"
833	1-21	1340 / 1350	" "	10.3	3.47	0.92	0.84	3.2		.6	6	0	"
834	1-27	1313 / 1323	WADDICOR	4.0	1.22	1.06	0.86	1.3		.6	4	0	"
835	2-3	1350 / 1400	WADDICOR - PAYNE	12.0	4.32	1.20	0.90	5.2		.6	6	0	"
836	2-10	1329 / 1337	WADDICOR	6.0	2.42	0.78	0.85	1.9		.6	6	0	"
837	2-17	1338 / 1348	"	5.0	1.96	0.97	0.86	1.9		.6 .5	5	0	"
838	2-24	1334 / 1344	"	5.0	1.68	1.19	0.88	2.0		.5	5	0	"
839	3-3	1400 / 1410	"	5.0	1.68	1.25	0.86	2.1		.6	5	0	"
840	3-10	1255 / 1305	WADDICOR - DIAS	6.0	2.66	1.01	0.86	2.7		.6 .5	6	0	"
841	3-11	1047 / 1057	WADDICOR - PAYNE	13.0	5.75	1.30	0.95	7.5		.6 .5	7	0	"
842	3-17	1410 / 1420	WADDICOR	5.0	2.00	1.15	0.85	2.3		.6	5	0	"
843	3-24	1405 / 1415	"	5.0	1.90	1.16	0.85	2.2		.6 .5	5	0	"
844	3-30	1414 / 1424	"	5.0	2.80	0.96	0.93	2.7		.6	5	0	"
845	4-7	1346 / 1354	WADDICOR - LANG	6.5	3.73	1.39	0.88	5.2		.6	7	0	"
846	4-14	1340 / 1349	WADDICOR	4.0	2.35	1.10	0.86	2.6		.6	4	0	"
847	4-21	1330 / 1340	"	4.0	2.43	1.11	0.86	2.7		.6	4	0	"
848	4-28	1340 / 1350	"	4.0	1.79	0.89	0.80	1.6		.6	4	0	"
849	5-5	1335 / 1345	"	4.0	1.91	0.94	0.82	1.8		.6	4	0	"
850	5-12	1330 / 1340	"	3.8	1.24	1.05	0.80	1.3		.6 .5	4	0	"
851	5-19	1339 / 1353	"	5.0	1.48	0.94	0.81	1.4		.5	5	0	"
852	5-26	1425 / 1432	"	5.0	1.74	1.09	0.84	1.9		.6 .5	5	0	"
853	6-1	1358 / 1404	WADDICOR - MOON	4.0	1.04	0.49	0.81	0.51		.5	5	0	"
854	6-9	1320 / 1330	WADDICOR	4.5	1.33	0.74	0.90	0.99		.5	5	0	"
855	6-16	1340 / 1347	"	4.5	1.45	0.63	0.90	0.91		.5	5	0	"
856	6-23	1335 / 1343	"	4.5	1.31	0.66	0.87	0.86		.5	5	0	"
857	6-30	1400 / 1410	"	4.5	1.36	0.60	0.87	0.81		.5	5	0	"
858	7-7	1424 / 1430	WADDICOR - REINHARD	4.0	1.29	0.54	0.84	0.69		.6 .5	5	0	"
859	7-14	1350 / 1358	WADDICOR	4.5	1.52	0.59	0.80	0.89		.5	5	0	"
860	7-20	1332 / 1338	BONADIMAN	2.5	0.35	0.74	0.76	0.26		.5	3	0	"
861	7-26	1414 / 1420	"	3.0	0.48	0.73	0.77	0.35		.5	3	0	"
862	7-27	1326 / 1332	"	4.0	0.60	0.63	0.77	0.38		.5	4	0	"
863	8-3	1332 / 1338	"	4.0	1.19	0.34	0.75	0.41		.5	4	0	"
864	8-10	1352 / 1358	"	4.0	1.60	0.55	0.84	0.88		.5	4	0	"
865	8-17	1404 / 1412	"	4.0	1.41	0.57	0.84	0.76		.6	4	0	FC46
866	8-25	1005 / 1012	WADDICOR	4.0	1.10	0.54	0.79	0.59		.6	4	0	FC37
867	8-31	1110 / 1117	"	4.0	1.14	0.62	0.80	0.71		.5	4	0	"
868	9-1	1530 / 1540	"	3.0	0.48	0.71	0.80	0.34		.5	5	0	"
869	9-7	1325 / 1332	"	4.0	1.33	0.58	0.80	0.77		.5	4	0	"
870	9-14	1420 / 1434	REINHARD	3.5	0.84	0.50	0.77	0.42		.5	7	0	"
871	9-21	1330 / 1335	WADDICOR	4.0	0.96	0.60	0.81	0.58		.5	4	0	"
872	9-29	1338 / 1346	"	4.0	1.24	0.61	0.81	0.76		.5	4	0	"

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F48-R

Daily discharge, in second-feet of SAN JOSE CREEK at Workman Mill Road for the year ending September 30, 19 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.8	2.4	a 1.6	4.0	3.8	3.5	3.8	3.8	1.8	1.6	1.2	1.0
2	1.8	2.4	1.6	4.0	3.8	3.5	4.5	3.3	2.4	1.4	1.2	0.8
3	1.8	2.2	1.6	4.0	3.8	3.1	7.1	2.4	1.4	1.6	0.8	1.4
4	1.8	1.8	a 2.4	4.2	4.0	2.9	11	3.1	1.2	1.2	1.4	1.4
5	1.8	1.8	9.3	4.2	13	2.9	3.1	2.9	1.4	0.6	1.8	1.6
6	1.8	2.0	21	4.5	12	3.5	5.0	1.8	1.0	0.6	1.2	1.8
7	2.0	1.8	2.0	4.5	4.7	3.3	4.0	3.3	1.4	1.0	1.8	2.0
8	2.2	1.8	2.0	4.2	3.1	3.5	4.2	4.7	1.4	1.6	1.2	2.4
9	2.2	1.8	2.0	4.0	2.7	4.0	4.0	4.0	1.8	1.2	0.8	1.6
10	2.4	1.8	2.0	3.8	3.3	4.0	4.5	3.3	2.0	1.0	1.0	1.8
11	2.4	2.0	3.1	3.8	3.3	4.0	5.8	4.0	2.2	1.2	1.2	1.6
12	2.2	1.8	2.7	3.8	3.3	4.0	3.8	4.0	2.2	0.8	1.4	1.6
13	1.8	1.8	2.9	3.3	3.3	4.2	4.0	3.3	2.0	1.0	1.2	1.6
14	1.8	1.8	3.1	3.5	3.5	9.0	4.0	2.7	1.8	1.4	1.0	1.6
15	1.6	1.8	3.1	3.3	3.8	7.8	3.8	3.1	2.0	2.0	1.0	1.6
16	1.6	1.6	3.3	3.1	3.3	5.8	3.8	1.4	3.1	2.0	1.0	1.0
17	1.6	1.6	3.3	3.8	3.8	12	4.2	1.6	1.6	1.4	0.8	0.8
18	1.6	2.0	3.8	4.0	3.8	5.2	3.8	2.2	1.4	2.0	0.8	1.2
19	1.8	1.6	3.8	4.0	3.5	6.8	3.1	2.2	1.6	1.8	0.8	1.4
20	1.8	1.4	3.8	4.5	4.2	10	3.3	2.4	1.6	2.2	1.0	0.8
21	2.0	1.4	4.0	4.5	3.8	2.7	3.5	1.8	1.0	1.8	1.0	0.8
22	2.0	1.4	3.8	4.2	3.5	1.8	4.0	1.4	2.4	1.6	1.0	0.8
23	2.0	1.2	3.8	4.2	3.3	3.5	4.2	1.6	2.4	1.8	1.2	0.8
24	2.0	1.2	4.0	4.0	3.5	18	4.2	1.0	2.4	1.6	1.2	0.8
25	2.0	1.2	4.0	4.0	4.0	9.1	3.8	1.6	1.6	1.4	1.4	0.8
26	2.0	1.4	3.5	3.8	4.5	2.7	2.7	2.7	1.2	1.0	1.4	0.6
27	1.8	1.2	3.8	3.5	4.2	1.6	3.3	3.1	1.4	1.0	1.4	0.8
28	1.8	1.2	3.8	3.3	4.0	1.8	3.3	3.1	0.8	1.0	1.6	0.8
29	2.2	1.4	3.5	3.8	4.5	1.8	6.8	2.2	0.8	1.4	2.0	0.8
30	2.4	1.6	4.0	4.0		2.7	4.5	1.0	1.4	1.6	1.2	0.8
31	2.4		3.8	3.8		3.5		1.2		1.0	1.0	
	60.4	50.4	120.4	121.6	125.3	152.2	131.1	80.2	50.7	42.8	37.0	37.0
MEAN	1.95	1.68	3.88	3.92	4.32	4.91	4.37	2.59	1.69	1.38	1.19	1.23
ACRE-FEET	120.	100.	239.	241.	249.	302.	260.	159.	101.	85.	73.	73.

Remarks:

YEAR OR PERIOD MEAN 2.76
ACRE-FEET 2000.

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

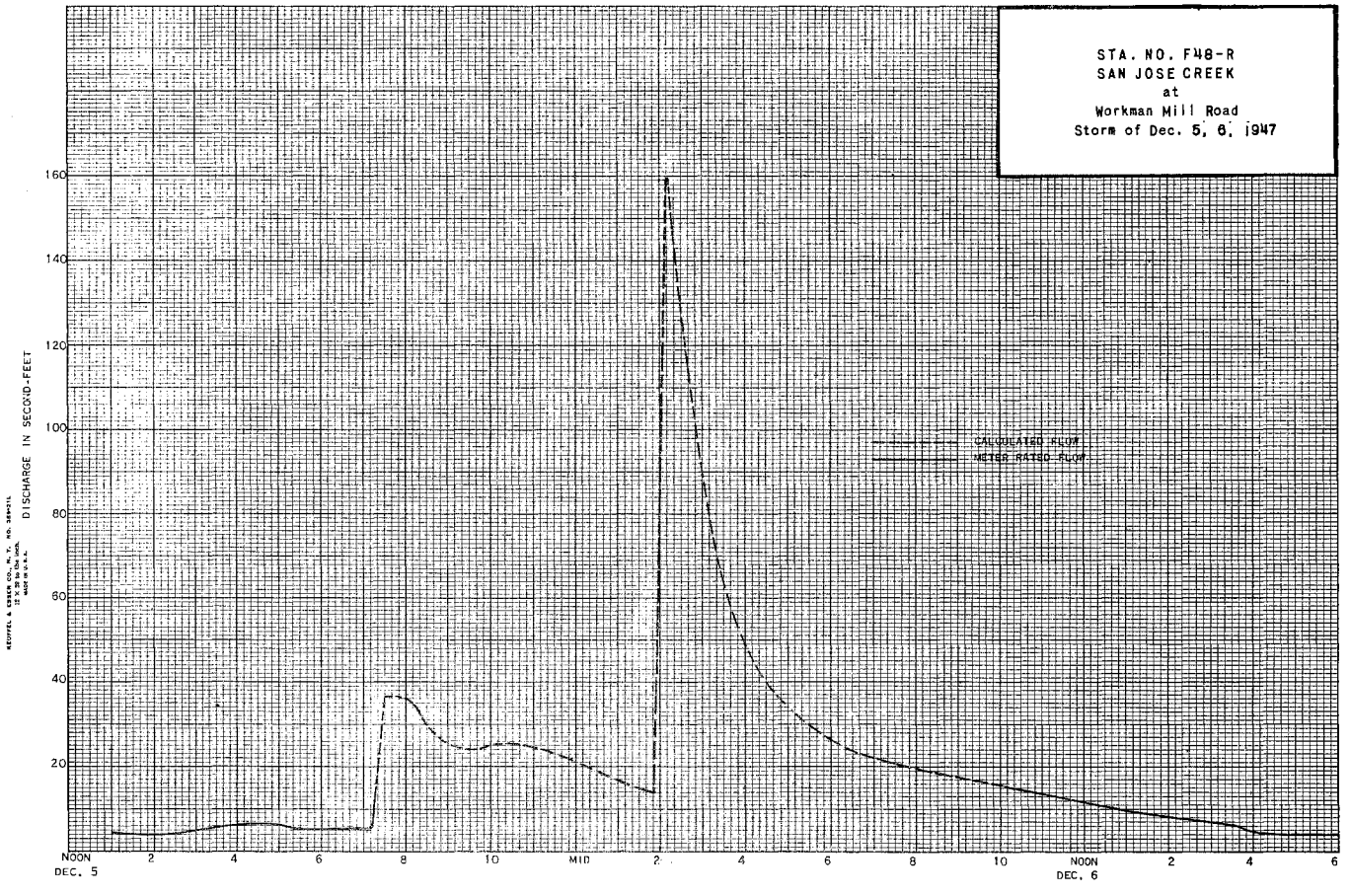
Sta. No. F48-R

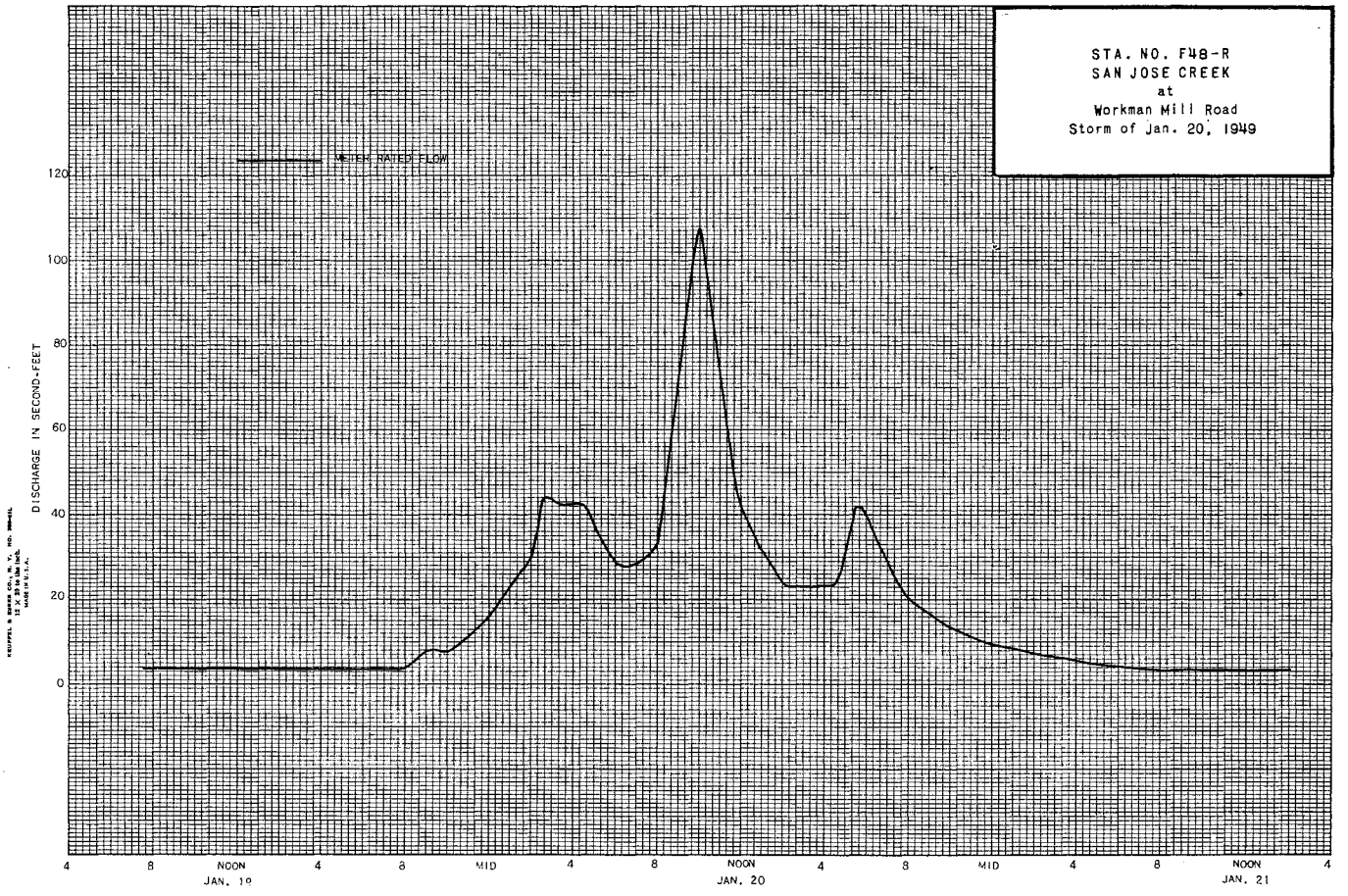
Daily discharge, in second-feet of San Jose Creek at Workman Mill Road for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	0.8	1.4	1.2	3.3	1.8	3.1	2.2	0.4	0.8	1.2	0.8
2	1.0	0.8	1.4	1.2	4.0	1.8	3.5	1.8	0.8	0.8	1.2	0.8
3	1.0	1.2	1.0	0.8	4.7	2.0	3.8	1.8	1.2	1.0	0.8	0.8
4	0.4	1.0	1.0	0.6	3.8	3.8	3.1	1.8	0.8	0.8	0.4	0.8
5	1.0	0.8	1.4	0.6	3.3	3.3	4.2	1.8	0.8	0.8	1.0	0.4
6	1.2	1.2	1.2	0.8	2.9	2.4	5.0	1.6	0.8	1.0	1.0	d 0.4
7	1.0	1.4	0.8	1.6	5.9	2.7	5.2	1.6	0.6	0.8	1.4	0.6
8	1.0	1.0	1.0	1.8	3.3	2.9	4.5	1.6	1.0	0.8	1.0	0.6
9	1.2	0.6	1.0	2.0	2.2	2.4	4.2	1.8	1.2	0.6	0.8	d 0.6
10	1.2	0.6	0.6	1.8	2.0	2.2	3.6	2.0	0.8	1.0	0.8	0.4
11	0.8	2.0	0.8	2.4	2.4	5.8	3.5	1.6	0.8	0.8	1.0	0.8
12	1.0	1.6	0.8	3.1	3.1	2.7	3.3	1.6	1.0	1.0	1.0	0.2
13	1.2	1.2	0.8	5.6	2.0	1.8	3.1	2.4	0.6	2.0	0.6	d 0.2
14	1.4	1.2	1.2	3.8	1.6	1.6	2.9	2.0	0.6	1.2	0.8	0.6
15	1.4	0.8	1.4	3.1	1.8	1.8	2.9	2.0	0.8	0.6	0.4	0.8
16	1.2	0.8	1.2	2.7	2.0	1.8	2.9	1.8	1.2	0.6	0.4	0.6
17	1.4	1.2	14	2.2	2.0	2.0	2.9	1.6	1.2	1.2	0.8	0.8
18	1.2	1.0	3.7	2.7	2.0	2.4	2.9	1.8	1.2	0.6	0.2	0.6
19	1.2	0.8	1.8	4.3	2.2	2.4	3.1	2.2	1.2	0.4	0.2	0.4
20	1.4	1.0	2.0	3.5	2.0	2.4	2.9	2.4	0.8	0.2	0.2	0.2
21	1.2	1.0	1.6	4.1	2.0	2.2	2.7	1.6	1.0	0.4	0.2	1.0
22	1.4	0.8	2.7	3.3	2.0	2.4	2.4	1.6	1.0	0.2	0.4	1.2
23	1.6	1.0	2.2	4.0	1.8	2.4	1.4	1.0	1.0	0.4	0.2	0.6
24	1.2	1.4	1.0	2.4	1.8	2.2	1.4	0.8	1.4	0.6	0.2	0.4
25	1.0	1.2	0.6	1.8	2.0	2.0	2.0	1.4	2.0	0.6	0.4	0.6
26	0.8	0.8	0.8	1.4	2.2	1.8	1.6	2.0	1.8	0.4	d 0.4	1.0
27	0.8	0.8	5.0	1.0	3.3	1.8	1.6	2.2	1.2	0.6	d 0.4	1.0
28	1.0	1.2	2.9	1.4	2.4	2.0	1.6	2.0	1.0	0.8	d 0.4	1.0
29	1.4	1.0	1.6	1.8		1.8	2.2	1.4	1.0	1.0	0.8	1.0
30	1.2	1.2	1.2	2.2		2.2	2.7	0.6	0.8	1.0	d 0.4	1.0
31	1.0		1.2	2.7		2.7		0.2		1.0	1.0	
	35.0	31.4	59.3	103.4	74.0	73.5	90.4	52.2	29.8	24.0	20.0	20.2
MEAN	1.13	1.05	1.91	3.34	2.64	2.37	3.01	1.68	0.99	0.77	0.65	0.67
ACRE-FEET	69.	62.	118.	205.	147.	146.	179.	104.	59.	48.	40.	40.

Remarks:

YEAR OR PERIOD MEAN 1.68
ACRE-FEET 1,220.





STATION U4-R
SANTA ANITA CREEK above Santa Anita Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°11'30", LONG. 118°01'00", IN SW NE 1/4 SEC. 10, T 1 N., R. 11 W., AT HEAD OF HERMITS FALLS, 1 MILE UPSTREAM FROM BIG SANTA ANITA DAM, AND 4 MILES NORTHEAST OF SIERRA MADRE. ALTITUDE OF GAGE, ABOUT 1,475 FEET ABOVE MEAN SEA LEVEL.

DRAINAGE AREA: 10.5 SQUARE MILES.

RECORDS AVAILABLE: JULY 1916 TO SEPTEMBER 1949.

AVERAGE DISCHARGE: 32 YEARS, 6.29 SECOND-FEET.
33 YEARS, 6.15 SECOND-FEET.

EXTREMES:
1947-1948
MAXIMUM 47 SECOND-FEET, APRIL 28. (GAGE HEIGHT, 1.64 FEET).
MINIMUM DAILY 0.1 SECOND-FOOT, SEPTEMBER 3 TO 5 AND 10 TO 12.
1948-1949
MAXIMUM 32 SECOND-FEET, JANUARY 20. (GAGE HEIGHT, 1.41 FEET).
MINIMUM DAILY 0.1 SECOND-FOOT, SEVERAL DAYS IN AUGUST AND SEPTEMBER.
1916-1947
MAXIMUM DISCHARGE, ABOUT 5,200 SECOND-FEET, MARCH 2, 1938, BASED ON INFLOW TO BIG SANTA ANITA RESERVOIR.
PRACTICALLY NO FLOW AUGUST 18 TO SEPTEMBER 14, 1929.

REMARKS: RECORDS GOOD. NO DIVERSIONS ABOVE STATION.

OPERATION: RECORDS FURNISHED BY THE UNITED STATES GEOLOGICAL SURVEY, WITH THE EXCEPTION OF 15 MEASUREMENTS MADE BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

DISCHARGE MEASUREMENTS OF SANTA ANITA CREEK

~~AT~~ NEAR above Santa Anita Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN	END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1105	10-2	0912	0922	MOON	3.5	1.18	0.66	0.38	0.78		.5	7	0	FC22
1106	10-6			U.S.G.S.	3.3	1.13	0.53	0.36	0.60		.6	8	0	
1107	10-21			"	3.6	1.32	0.67	0.41	0.88		.6	8	+.01	
1108	10-30	0912	0922	MOON	4.0	1.42	0.77	0.42	1.1		.5	7	0	FC22
1109	11-4			U.S.G.S.	3.4	1.30	0.68	0.41	0.88		.6	8	0	
1110	11-12			"	3.8	1.36	0.65	0.38	0.88		.6	8	0	
1111	11-26	0935	0945	MOON	4.0	1.48	0.74	0.41	1.1		.5	8	0	FC22
1112	12-1			U.S.G.S.	3.9	1.43	0.81	0.41	1.16		.6	14	0	
1113	12-15			"	4.1	1.53	0.87	0.44	1.33		.5 .6	13	0	
1114	12-26	0914	0924	MOON	4.0	1.71	0.82	0.43	1.4		.5	8	0	FC22
1115	1-2			U.S.G.S.	4.2	1.67	0.84	0.43	1.40		.6	14	0	
1116	1-16			"	4.2	1.52	0.82	0.42	1.24		.6	14	0	
1117	1-20			"	4.1	1.47	0.82	0.42	1.20		.5 .6	8	0	
1118	1-27			"	4.0	1.48	0.84	0.42	1.24		.5 .6	8	0	
1119	1-28	1300	1310	MOON - SHIPLEY	4.0	1.59	0.82	0.42	1.3		.5	8	0	FC22
1120	2-9			U.S.G.S.	4.6	2.06	1.17	0.53	2.42		.5 .6	8	0	
1121	2-24			"	4.0	1.76	0.87	0.46	1.53		.6	8	0	
1122	2-26	1112	1124	MOON	4.0	1.77	0.96	0.46	1.7		.5	8	0	FC22
1123	3-9			U.S.G.S.	3.7	1.74	0.87	0.46	1.52		.6	7	0	
1124	3-23			"	4.1	2.01	1.20	0.55	2.41		.5 .6	8	0	
1125	4-1	1305	1015	MOON	4.2	1.95	1.23	0.54	2.4		.5 .6	7	0	FC22
1126	4-6			U.S.G.S.	4.6	2.53	1.46	0.61	3.68		.5 .6	9	0	
1127	4-22			"	4.5	1.88	1.00	0.50	1.89		.6	8	0	
1128	5-11			"	4.2	1.54	1.26	0.50	1.95		.5 .6	8	0	
1129	5-25			"	4.1	1.46	1.22	0.47	1.79		.5 .6	7	0	
1130	5-27	0955	1005	MOON	4.0	1.44	1.14	0.47	1.64		.5	7	0	FC22
1131	6-8			U.S.G.S.	4.0	1.39	1.09	0.44	1.51		.5 .6	8	0	
1132	6-22			"	4.0	1.41	0.92	0.42	1.29		.5 .6	8	0	
1133	6-30	0910	0920	STUNDEN	3.5	1.10	0.82	0.38	0.90		.6	7	0	FC36
1134	7-6			U.S.G.S.	2.0	0.66	0.98	0.33	0.65		.6	4	0	
1135	7-20			"	2.2	0.56	0.95	0.32	0.53		.5	5	0	
1136	8-10			"	2.4	0.61	0.64	0.28	0.39		.5	6	0	
1137	8-20			"	2.4	0.65	0.52	0.27	0.34		.6	12	0	
1138	8-24			"	2.3	0.52	0.63	0.27	0.33		.5	6	0	
1139	8-26	1000	1015	MOON	2.2	0.53	0.68	0.27	0.36		.5	4	0	FC22
1140	9-9			U.S.G.S.	2.3	0.50	0.38	0.23	0.19		.5	6	0	
1141	9-22			"	2.3	0.60	0.68	0.43	0.41		.5	6	0	
1142	9-30	1025	1030	MOON	2.1	0.50	0.56	0.26	0.28		.5	4	0	FC22

DISCHARGE MEASUREMENTS OF SANTA ANITA CREEK

~~AT~~ NEAR above Santa Anita Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN	END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1143	10-6			U.S.G.S.	2.4	.64	.72	.30	.48		.5	6	0	
1144	10-19			"	2.4	.68	.96	.33	.65		.5	6	0	
1145	11-9			"	2.4	.68	.68	.30	.47		.5	6	0	
1146	11-23			"	2.3	.68	.76	.32	.52		.5	6	0	
1147	12-7			"	2.2	.80	.90	.35	.72		.5 .6	6	0	
1148	12-21			"	2.2	1.00	1.07	.39	1.07		.6	6	0	
1149	1-4			"	2.4	1.06	1.04	.39	1.10		.6	6	0	
1150	1-19			"	2.4	1.10	1.26	.44	1.39		.6	6	0	
1151	2-1			"	2.1	1.08	1.68	.51	1.81		.6	10	0	
1152	2-2			"	2.4	1.49	1.48	.49	2.21		.6	7	0	
1153	2-17			"	2.7	1.44	1.85	.54	2.66		.6	6	0	
1154	3-2			"	5.0	2.99	1.87	.66	5.6		.6	10	0	
1155	3-29	1420	1430	MOON - SHIPLEY	4.0	2.09	1.39	.56	2.9		.5	7	0	FC22
1156	4-13			U.S.G.S.	4.5	1.99	.93	.51	1.86		.5 .6	7	0	
1157	4-20	1105	1115	MOON	4.0	1.92	1.04	.50	2.0		.5	6	0	FC22
1158	4-27			U.S.G.S.	4.5	1.96	.89	.47	1.75		.5 .6	21	0	
1159	5-18			"	5.4	3.20	1.20	.61	3.77		.5 .6	22	0	
1160	5-25	1112	1123	MOON	4.3	1.95	.77	.47	1.5		.6	7	0	FC22
1161	6-6			U.S.G.S.	4.6	2.30	.22	.41	1.17		.5 .6	21	0	
1162	6-14			"	4.5	2.04	.47	.38	.97		.6	20	-.01	
1163	6-30	1015	1020	MOON	2.0	1.01	.82	.38	.83		.6	4	0	FC22
1164	7-1			U.S.G.S.	2.0	0.96	0.80	0.35	0.77		.5 .6	18	0	
1165	7-18			"	1.65	.714	0.50	0.28	0.36		.5	16	0	
1166	8-1			"	1.65	.784	0.41	0.27	0.322		.5	16	0	
1167	8-16			"	1.7	.800	0.39	0.26	0.314		.5 .6	17	0	
1168	9-1			"	1.65	.540	0.25	0.21	0.135		.5	9	0	
1169	9-14			"	1.35	.456	0.44	0.22	0.199		.5	12	0	
1170	9-26			"	1.45	.212	0.94	0.20	0.199		.5	8	0	

F. C. Dist. Form 53 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U4-R

Daily discharge, in second-feet of SANTA ANITA CREEK above Santa Anita Dam, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.7	1.0	1.1	1.3	1.1	1.7	2.4	3.6	1.6	0.8	0.4	0.2
2	0.8	1.0	1.3	1.4	1.2	1.6	2.7	3.2	2.1	0.7	0.4	0.2
3	0.7	0.9	1.2	1.5	1.2	1.6	5.0	2.8	1.9	0.7	0.4	0.1
4	0.6	0.9	2.9	1.5	1.2	1.6	4.5	2.6	1.8	0.7	0.5	0.1
5	0.5	0.9	6.0	1.5	8.4	1.5	3.7	2.3	1.8	0.7	0.4	0.1
6	0.6	0.9	2.9	1.5	6.5	1.5	3.4	2.0	1.6	0.7	0.4	0.2
7	0.6	0.9	1.9	1.5	3.7	1.5	3.4	2.2	1.5	0.6	0.4	0.2
8	0.7	0.9	1.7	1.4	2.7	1.5	3.1	2.2	1.4	0.6	0.4	0.2
9	0.7	0.9	1.7	1.4	2.6	1.5	2.9	2.0	1.4	0.6	0.4	0.2
10	0.7	0.9	1.6	1.3	2.3	1.5	3.7	2.0	1.4	0.6	0.3	0.1
11	0.8	0.9	1.5	1.3	2.0	1.5	3.4	1.9	1.4	0.6	0.3	0.1
12	0.9	0.9	1.5	1.2	1.9	1.4	3.1	1.9	1.4	0.6	0.3	0.1
13	0.9	0.9	1.4	1.2	1.9	2.7	2.8	1.7	1.4	0.6	0.4	0.2
14	0.9	0.9	1.4	1.2	1.8	4.6	2.7	1.6	1.3	0.5	0.3	0.2
15	0.9	1.0	1.3	1.2	1.7	4.3	2.6	1.5	1.3	0.5	0.3	0.2
16	0.9	1.0	1.3	1.2	1.7	2.8	2.3	1.4	1.3	0.5	0.3	0.2
17	0.9	1.0	1.3	1.2	1.7	4.7	2.0	1.4	1.2	0.6	0.3	0.2
18	0.9	1.0	1.4	1.2	1.7	3.6	1.9	1.5	1.3	0.6	0.3	0.3
19	0.7	1.0	1.4	1.2	1.7	3.4	1.9	1.6	1.2	0.6	0.3	0.3
20	0.7	1.0	1.4	1.2	1.7	3.1	1.8	1.6	1.2	0.6	0.3	0.3
21	0.8	1.0	1.4	1.2	1.7	2.8	1.8	1.6	1.2	0.6	0.3	0.3
22	0.8	1.1	1.4	1.2	1.7	2.6	1.8	1.6	1.3	0.5	0.3	0.4
23	0.7	1.1	1.4	1.2	1.6	2.4	1.7	1.5	1.3	0.5	0.3	0.4
24	0.7	1.1	1.4	1.2	1.6	7.6	1.5	1.6	1.3	0.5	0.3	0.4
25	0.7	1.1	1.4	1.2	1.6	5.8	1.4	1.7	1.2	0.4	0.3	0.4
26	0.7	1.1	1.4	1.2	1.6	4.1	1.4	1.7	1.1	0.4	0.4	0.4
27	0.7	1.0	1.4	1.2	1.6	3.4	1.4	1.7	1.1	0.4	0.3	0.3
28	0.9	1.0	1.4	1.2	1.8	2.9	6.9	1.6	1.0	0.4	0.3	0.3
29	1.0	1.0	1.4	1.2	1.9	2.8	12	1.5	0.9	0.5	0.2	0.3
30	1.1	1.0	1.3	1.2		2.7	4.3	1.5	0.8	0.4	0.2	0.3
31	1.0		1.3	1.1		2.6		1.5		0.4	0.2	
	24.2	29.3	51.4	39.5	63.8	87.3	93.5	58.5	40.7	17.4	10.2	7.2
MEAN	0.78	0.98	1.66	1.27	2.20	2.82	3.12	1.89	1.36	0.56	0.33	0.24
ACRE-FEET	48	58	102	78	127	173	185	116	81	35	20	14

Remarks:

YEAR OR PERIOD MEAN 1.43
ACRE-FEET 1,040

F. C. Dist. Form 53 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U4-R

Daily discharge, in second-feet of Santa Anita Creek above Santa Anita Dam, for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	0.6	0.5	1.3	2.0	6.4	2.8	1.6	1.5	0.8	0.3	0.1
2	0.2	0.6	0.5	1.2	1.9	5.9	2.8	1.6	1.4	0.7	0.3	0.1
3	0.2	0.6	0.7	1.1	2.2	5.9	2.8	1.7	1.1	0.6	0.2	0.1
4	0.3	0.6	1.0	1.1	2.1	6.7	2.6	1.6	1.1	0.6	0.2	0.1
5	0.3	0.6	0.8	1.1	2.0	7.3	2.6	1.5	1.1	0.6	0.2	0.1
6	0.4	0.5	0.7	1.1	2.0	6.2	2.4	1.2	1.0	0.6	0.2	0.1
7	0.3	0.5	0.7	1.1	2.4	6.2	2.4	1.1	1.0	0.6	0.2	0.1
8	0.3	0.4	0.7	1.0	2.4	5.5	2.3	1.2	1.1	0.6	0.3	0.1
9	0.4	0.4	0.7	1.6	2.2	5.0	2.2	1.3	1.1	0.6	0.3	0.1
10	0.3	0.4	0.7	1.3	2.1	5.0	2.1	1.4	1.0	0.6	0.3	0.1
11	0.4	0.4	0.7	1.4	3.9	9.4	2.0	1.4	1.0	0.6	0.3	0.1
12	0.4	0.4	0.7	1.6	4.6	6.4	1.8	1.3	1.0	0.5	0.3	0.1
13	0.5	0.4	0.7	2.4	3.6	5.9	1.9	1.4	1.0	0.4	0.3	0.2
14	0.5	0.4	0.7	2.3	3.2	5.2	1.9	1.6	1.0	0.4	0.3	0.2
15	0.5	0.4	0.8	2.0	3.1	5.0	2.0	1.7	0.9	0.4	0.3	0.2
16	0.5	0.4	0.8	1.6	2.8	4.6	2.0	1.7	0.8	0.4	0.3	0.2
17	0.5	0.4	3.1	1.5	2.7	4.5	1.9	1.9	0.9	0.4	0.3	0.2
18	0.7	0.5	2.0	1.4	2.6	4.3	1.9	3.2	0.9	0.3	0.2	0.2
19	0.7	0.5	1.4	2.0	2.6	4.7	2.1	5.2	0.9	0.3	0.2	0.2
20	0.7	0.5	1.1	1.8	2.7	4.5	2.0	3.1	0.8	0.3	0.2	0.2
21	0.6	0.5	1.0	6.3	2.7	4.1	1.8	2.4	0.6	0.3	0.2	0.2
22	0.5	0.5	1.2	6.0	2.7	3.9	1.7	2.1	0.6	0.3	0.2	0.2
23	0.4	0.5	1.2	5.7	2.7	3.7	1.6	1.9	0.6	0.3	0.2	0.2
24	0.4	0.5	1.1	4.1	4.7	3.7	1.7	1.5	0.6	0.3	0.2	0.1
25	0.4	0.5	1.0	3.4	5.7	3.7	1.7	1.5	0.7	0.3	0.2	0.1
26	0.4	0.5	1.3	2.9	6.6	3.6	1.7	1.4	0.7	0.4	0.1	0.2
27	0.4	0.5	3.9	2.7	9.6	3.2	1.7	1.5	0.8	0.4	0.2	0.2
28	0.6	0.5	2.0	2.4	7.3	3.2	1.7	1.5	0.9	0.4	0.2	0.2
29	0.7	0.5	1.7	2.3		3.1	1.7	1.5	0.8	0.4	0.2	0.2
30	0.8	0.4	1.5	2.2		2.9	1.7	1.4	0.7	0.4	0.2	0.2
31	0.7		1.4	2.1		2.9		1.5		0.3	0.1	
	14.3	14.4	36.3	66.2	95.1	152.6	61.5	54.9	27.6	14.1	7.2	4.6
MEAN	0.46	0.48	1.17	2.78	3.40	4.92	2.05	1.77	0.92	0.45	0.23	0.15
ACRE-FEET	28.	29.	72.	171.	189.	303.	122.	109.	55.	28.	14.	9.1

Remarks:

YEAR OR PERIOD MEAN 1.56
ACRE-FEET 1,130

STATION F119B-R
SANTA ANITA CREEK below Santa Anita Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°11'03", LONG. 118°01'07", ON THE LEFT (EAST) WALL OF THE CONCRETE OUTLET CHANNEL IMMEDIATELY BELOW SANTA ANITA DAM. THIS STATION MEASURES LOW FLOWS ONLY. MAJOR VALVE DISCHARGES PASS OVER STATION. ELEVATION OF GAGE ABOUT 1100 FEET.

DRAINAGE AREA: 10.8 SQUARE MILES.

CHANNEL AND CONTROL: RECTANGULAR CONCRETE CHANNEL WITH FLASHBOARD GATE, CONTAINING A V-NOTCH WEIR. THIS STATION RECORDS IRRIGATION RELEASES AND SMALL FLOWS ONLY.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. NO FACILITIES FOR MEASURING OR RECORDING FLOWS OVER TEN SECOND-FEET.

RECORDER: INSTALLED FEBRUARY 6, 1948 OVER A 24-INCH DIAMETER CONCRETE WELL. A STEVENS TYPE L RECORDER WAS IN SERVICE FROM FEBRUARY 6, 1948 TO SEPTEMBER 30, 1949.

REGULATION: FLOW ENTIRELY REGULATED BY SANTA ANITA DAM.

DIVERSIONS: NONE.

RECORDS AVAILABLE: FEBRUARY 6, 1948 TO SEPTEMBER 30, 1949. EARLIER RECORDS ARE AVAILABLE FROM DAM OUTFLOW RECORDS AND STATION 119 LOCATED APPROXIMATELY 1/4 MILE DOWNSTREAM.

EXTREMES OF DISCHARGE: SEE REMARKS.

ACCURACY: GOOD.

REMARKS: FLOW RECORDS LIMITED TO 10 SECOND-FEET. (SEE CHANNEL AND CONTROL).

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

DISCHARGE MEASUREMENTS OF SANTA ANITA CREEK

AT/NEAR below Big Santa Anita Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
17	3-25	1115	HAIG				0.67	0.94		V-NOTCH WEIR			
18	5-6	0945 / 0955	MOON - SHIPLEY	3.5	1.32	1.97	0.98	2.6		.5	6	0	FC22
19	5-20	0950 / 0955	MOON	3.0	1.02	1.37	0.75	1.4		.5	5	0	"
20	6-25	0800	STUNDEN				0.77	1.3		V-NOTCH WEIR			
21	6-30	0745	"				0.76	1.3		V-NOTCH WEIR			
22	7-7	0730	"				0.76	1.3		V-NOTCH WEIR			
23	8-25	1315 / 1322	MOON	3.5	1.26	1.67		2.1		.5	5		FC22
24	9-17	0750	STUNDEN				1.08	3.0		V-NOTCH WEIR			

DISCHARGE MEASUREMENTS OF SANTA ANITA CREEK

AT/NEAR below Big Santa Anita Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
25	1-6	1410 / 1416	MOON	2.5	0.82	0.66	0.53	0.54		.5	4	0	FC22
26	1-20	1430 / 1441	MOON - MIRANDA	7.5	4.95	2.38		11.8		.6	8		"
27	1-20	1500 / 1508	" "	5.0	4.25	2.71		11.5		.6	5		"
28	1-24	0800 / 0807	MOON	5.0	2.90	1.79		5.2		.6	5		"
29	1-30	1430 / 1437	"	5.0	2.74	1.09		3.0		.6	6		"
30	2-20	1535 / 1545	"	5.0	2.45	0.73	0.88	1.8		.6	7	0	"
31	3-9	1038	WADDICOR				0.91	2.0		V-NOTCH WEIR			
32	5-5	1545 / 1552	MOON	3.4	1.09	1.19		1.3		.5	5		FC22
33	7-6	0758	STUNDEN				0.75	1.3		V-NOTCH WEIR			
34	7-13	0753	"				0.75	1.3		V-NOTCH WEIR			
35	7-20	0750	"				0.75	1.3		V-NOTCH WEIR			

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F118B-R

Daily discharge, in second-feet of SANTA ANITA CREEK below Santa Anita Dam for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.7	2.7	2.2	1.4	0.7	0.9	1.0	3.6	1.3	1.3	1.2	2.2
2	0.7	2.7	2.2	1.4	0.7	0.9	1.0	3.6	1.3	1.3	1.2	2.2
3	0.7	2.7	2.2	1.4	0.7	0.9	1.1	3.6	1.3	1.3	1.2	2.9
4	0.7	2.7	2.2	1.4	0.4	0.9	1.1	2.8	1.3	1.3	1.2	3.3
5	0.7	2.7	2.2	1.4	1.7	0.9	1.1	2.4	1.3	1.3	1.2	3.3
6	0.7	2.7	2.1	1.4	5.2	0.9	1.1	2.4	1.3	1.3	1.2	3.3
7	0.7	2.6	2.1	1.4	5.0	0.9	1.1	2.4	1.3	1.3	1.2	3.3
8	0.7	2.6	2.1	1.4	4.7	0.9	1.1	2.4	1.3	1.3	1.2	3.3
9	0.7	2.6	2.1	1.4	3.8	0.9	1.1	2.4	1.3	1.3	1.2	3.3
10	0.7	2.5	2.1	1.4	3.1	0.9	1.1	2.4	1.3	1.3	1.2	3.2
11	0.7	2.5	2.0	1.4	3.1	0.9	1.2	1.7	1.3	1.3	1.2	3.2
12	0.7	2.5	2.0	1.4	3.1	0.9	1.2	1.3	1.3	1.3	1.2	3.2
13	0.7	2.4	2.0	1.4	1.9	0.9	1.2	1.3	1.3	1.3	1.9	3.2
14	0.7	2.4	2.0	1.4	2.0	0.9	1.2	1.3	1.3	1.3	2.3	3.2
15	2.0	2.4	2.0	1.4	2.0	0.9	1.2	1.3	1.3	1.2	2.3	3.2
16	2.7	2.4	2.0	0.9	2.0	0.9	1.2	1.3	1.3	1.2	2.3	3.2
17	2.7	2.4	2.0	0.3	2.0	0.9	1.2	1.3	1.4	1.2	2.3	3.1
18	2.7	2.4	2.0	0.3	2.0	0.9	1.2	1.3	1.4	1.2	2.2	3.1
19	2.7	2.4	2.0	0.3	2.0	0.9	1.2	1.3	1.4	1.2	2.3	3.0
20	2.7	2.4	2.0	0.3	1.7	0.9	1.2	1.3	1.4	1.2	2.3	3.0
21	2.8	2.4	2.0	0.3	1.4	0.9	1.2	1.3	1.4	1.2	2.3	3.0
22	2.8	2.4	2.0	0.3	1.4	1.0	1.2	1.3	1.4	1.2	2.3	2.9
23	2.8	2.4	2.0	0.5	1.4	1.0	1.2	1.3	1.4	1.2	2.3	2.9
24	2.8	2.3	2.0	0.7	1.4	1.0	1.2	1.3	1.4	1.2	2.3	3.0
25	2.8	2.3	2.0	0.7	1.4	1.0	1.2	1.3	1.4	1.2	2.3	2.9
26	2.8	2.3	1.6	0.7	1.4	1.0	1.2	1.3	1.4	1.2	2.2	2.9
27	2.8	2.3	1.4	0.7	1.1	1.0	1.3	1.3	1.3	1.2	2.2	2.9
28	2.8	2.3	1.4	0.7	0.9	1.0	1.3	1.3	1.3	1.2	2.2	2.8
29	2.8	2.3	1.4	0.7	0.9	1.0	1.3	1.3	1.3	1.2	2.2	2.8
30	2.8	2.3	1.4	0.7		1.0	2.8	1.3	1.3	1.2	2.2	2.8
31	2.7		1.4	0.7		1.0		1.3		1.2	2.2	
	56.0	74.0	60.1	29.8	59.1	28.9	36.7	55.7	40.0	38.6	57.0	90.6
MEAN	1.81	2.47	1.94	0.96	2.04	0.93	1.22	1.80	1.33	1.25	1.84	3.02
ACRE-FEET	111.	147.	119.	59.	117.	57.	73.	110.	79.	77.	113.	180.

Remarks:

YEAR OR PERIOD MEAN 1.71
ACRE-FEET 1,240.

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F118B-R

Daily discharge, in second-feet of SANTA ANITA CREEK below Santa Anita Dam for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.7	0.7	0.7	0.5	2.3	2.0	1.6	1.3	1.3	1.3	1.3	1.3
2	2.7	0.7	0.7	0.5	1.8	2.0	1.6	1.3	1.3	1.3	1.3	1.3
3	2.6	0.7	0.6	0.5	1.8	2.0	1.6	1.3	1.3	1.3	1.3	1.3
4	2.6	0.7	0.5	0.5	1.8	2.0	1.6	1.3	1.3	1.3	1.3	1.3
5	2.6	0.7	0.5	0.5	1.8	2.0	1.7	1.3	1.3	1.3	1.3	1.3
6	1.7	0.7	0.5	0.5	1.8	2.0	1.7	1.3	1.3	1.3	1.3	1.3
7	0.8	0.7	0.5	0.5	1.8	2.0	1.7	1.3	1.3	1.3	1.3	1.3
8	0.8	0.7	0.5	0.5	1.8	2.0	1.7	1.3	1.3	1.3	1.3	1.3
9	0.8	0.6	0.5	0.5	1.8	2.0	1.7	1.3	1.3	1.3	1.3	1.3
10	0.8	0.5	0.5	0.5	1.8	2.1	1.7	1.2	1.3	1.3	1.3	1.3
11	0.8	0.5	0.5	0.5	1.8	2.1	1.7	1.2	1.3	1.3	1.3	1.3
12	0.8	0.5	0.5	0.5	1.9	2.1	1.7	1.3	1.3	1.3	1.3	1.3
13	0.8	0.5	0.5	0.5	1.9	2.1	1.7	1.3	1.3	1.3	1.3	1.3
14	0.8	0.5	0.5	0.5	2.0	2.1	1.5	1.3	1.3	1.3	1.3	1.3
15	0.8	0.5	0.5	0.5	2.0	2.1	1.3	1.3	1.3	1.3	1.3	1.3
16	0.8	0.5	0.5	0.5	2.0	2.1	1.3	1.3	1.3	1.3	1.3	1.3
17	0.7	1.0	0.5	0.5	2.0	2.1	1.3	1.3	1.3	1.3	1.3	1.3
18	0.7	1.2	0.5	0.5	2.0	2.1	1.3	1.3	1.3	1.3	1.3	1.3
19	0.7	1.2	0.5	0.5	2.0	2.1	1.3	1.3	1.3	1.3	1.3	1.3
20	0.7	0.7	0.5	5.5	2.0	2.1	1.3	1.3	1.3	1.3	1.3	1.3
21	0.7	0.5	0.5	10.4	2.0	2.1	1.3	1.3	1.3	1.3	1.3	1.2
22	0.7	0.5	0.5	10.4	2.0	2.1	1.3	1.3	1.3	1.3	1.3	1.2
23	0.7	0.5	0.5	7.7	2.0	2.1	1.3	1.3	1.3	1.3	1.3	1.2
24	0.7	0.5	0.5	4.9	2.0	2.1	1.3	1.3	1.3	1.3	1.3	1.2
25	0.7	0.5	0.5	3.6	2.0	2.2	1.2	1.3	1.3	1.3	1.3	1.2
26	0.7	0.5	0.5	2.9	2.0	2.2	1.0	1.3	1.3	1.3	1.3	1.2
27	0.7	0.5	0.5	2.7	2.0	2.2	1.3	1.3	1.3	1.3	1.3	1.2
28	0.7	0.5	0.5	2.9	2.0	1.7	1.3	1.3	1.3	1.3	1.3	1.2
29	0.7	0.5	0.5	2.9		1.6	1.3	1.3	1.3	1.3	1.3	1.2
30	0.7	0.6	0.5	2.9		1.6	1.3	1.3	1.3	1.3	1.3	1.2
31	0.7		0.5	2.9		1.6		1.3		1.3	1.3	
	33.4	18.9	16.0	69.4	54.1	62.6	43.6	40.1	39.0	40.3	40.3	38.0
MEAN	1.08	0.63	0.52	2.24	1.93	2.02	1.45	1.29	1.30	1.30	1.30	1.27
ACRE-FEET	66.	37.	32.	138.	107.	124.	86.	80.	77.	80.	80.	75

Remarks:

YEAR OR PERIOD MEAN 1.36
ACRE-FEET 982.

STATION 260B-R
SANTA ANITA WASH at Foothill Boulevard

LOCATION: WATER-STAGE RECORDER, LAT. 34°09'03", LONG. 118°01'37", ON THE DOWNSTREAM SIDE ON THE LEFT (EAST) END OF FOOTHILL BOULEVARD BRIDGE, ABOUT 1 MILE NORTH OF ARCADIA, AND APPROXIMATELY 0.2 MILE BELOW THE CONFLUENCE OF SANTA ANITA CREEK AND LITTLE SANTA ANITA CREEK. THE FORMER STATION F260-R WAS ABOUT 0.4 MILE UPSTREAM FROM FOOTHILL BLVD. ELEVATION OF ZERO GAGE HEIGHT, 519.70 FEET.

DRAINAGE AREA: 17.2 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - SAND, GRAVEL AND BOULDERS. BANKS PROTECTED WITH WIRE AND ROCK. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING, HIGH FLOWS MEASURED FROM UPSTREAM SIDE OF FOOTHILL BOULEVARD BRIDGE.

RECORDER: INSTALLED APRIL 22, 1938 OVER AN 18-INCH DIAMETER CORRUGATED IRON PIPE STILLING WELL. AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: FLOW PARTIALLY REGULATED BY BIG SANTA ANITA DAM AND SIERRA MADRE DAM.

DIVERSIONS: ABOUT 2 SECOND-FEET DIVERTED FOR IRRIGATION AT MOUTH OF SANTA ANITA CANYON. THE CITY OF SIERRA MADRE DIVERTS WATER FROM LITTLE SANTA ANITA CANYON. FLOW OCCASIONALLY DIVERTED FOR SPREADING FROM LITTLE SANTA ANITA CREEK AT SIERRA MADRE SPREADING GROUNDS.

RECORDS AVAILABLE: APRIL 22, 1938 TO SEPTEMBER 30, 1949. FOR RECORDS PRIOR TO APRIL 1938, SEE STATIONS F21-R, F119-R, AND F260-R.

EXTREMES OF DISCHARGE:
1947-1948
NO FLOW ENTIRE YEAR
1948-1949
NO FLOW ENTIRE YEAR.
1938-1949 (STATIONS F260-R AND F260B-R)
MAXIMUM NOT DETERMINED.
MAXIMUM OUTFLOW FROM SANTA ANITA DAM, 5,070 SECOND-FEET, MARCH 2, 1938.
MINIMUM NO FLOW AT VARIOUS TIMES.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

REMARKS: SOME FLOW PERCOLATED BEFORE REACHING STATION.

STATION F92B-R
SANTA CLARA RIVER at Highway 99

LOCATION: WATER-STAGE RECORDER, LAT. 34°25'35", LONG. 118°35'08", ON THE DOWNSTREAM SIDE OF THE U.S. HIGHWAY 99 BRIDGE ABOUT 3 MILES WEST OF SAUGUS. ELEVATION OF ZERO GAGE HEIGHT, 1038.24 FEET. THE FORMER STATION F92-R WAS ABOUT 1000 FEET DOWNSTREAM.

DRAINAGE AREA: 410.4 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 U.S. HIGHWAY 99 BRIDGE.

RECORDER: INSTALLED JANUARY 18, 1930 AT STATION F92-R. REMOVED SEPTEMBER 21, 1938. INSTALLED AT STATION F92B-R SEPTEMBER 30, 1938 OVER A 24-INCH CORRUGATED IRON PIPE STILLING WELL. AN AU CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: PARTIALLY REGULATED BY BOUQUET CANYON AND DRY CANYON RESERVOIRS. FLOWS OCCASIONALLY ORIGINATE FROM LOS ANGELES CITY AQUEDUCT BLOWOFF AT SANTA CLARA RIVER CROSSING.

DIVERSIONS: SOME FLOW DIVERTED FOR IRRIGATION NEAR LANG.

RECORDS AVAILABLE: AT STATION F92-R - RECORDER RECORDS AVAILABLE FROM JAN. 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, 1949.

EXTREMES OF DISCHARGE:
1947-1948
MAXIMUM 350 SECOND-FEET, MARCH 24.
MINIMUM 0.8 SECOND-FOOT, SEPTEMBER 16.
1948-1949
MAXIMUM 10 SECOND-FEET, MARCH 11.
MINIMUM 0.4 SECOND-FOOT AT VARIOUS TIMES.
1930-1949 (STATIONS F92-R AND F92B-R)
MAXIMUM 24,000 SECOND-FEET, ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: FAIR FOR LOW FLOWS. POOR FOR HIGH FLOWS DUE TO OCCASIONAL LOSS OF COMMUNICATION AND EXTREME AND UNDETERMINED CONTROL SHIFT.

OPERATION: LOCATED AND CONSTRUCTED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT, IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

DISCHARGE MEASUREMENTS OF SANTA CLARA RIVER

AT OR NEAR Highway 99 DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT-ING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
466	10-2	1635 / 1645	LUCE	3.0	2.05	0.93		1.9		.6	4		FC39
467	10-9	1535 / 1540	"	4.0	2.13	1.22		2.6		.6	4		"
468	10-16	1440 / 1445	"	4.0	1.96	0.92		1.8		.6	6		"
469	10-23	1425 / 1430	"	4.0	1.89	1.59		3.0		.6	6		"
470	10-30	1340 / 1345	"	4.3	2.23	1.48		3.3		.6	4		"
471	11-6	1205 / 1210	"	3.8	2.12	1.46		3.1		.6	4		"
472	11-13	1315 / 1320	"	3.5	1.97	1.52		3.0		.6	5		"
473	11-20	1400 / 1405	"	4.0	2.21	1.62		3.6		.6	5		"
474	11-28	1600 / 1605	"	3.1	2.40	1.42		3.4		.6	5		"
475	12-4	1525 / 1533	"	4.0	2.28	1.66		3.8		.6	4		"
476	12-11	1400 / 1405	"	4.5	2.67	1.46		3.9		.6	5		"
477	12-18	1410 / 1415	"	4.1	2.48	1.37		3.4		.6	5		"
478	12-26	1245 / 1250	"	5.0	3.02	1.23		3.7		.6	5		"
479	12-31	1140 / 1146	"	5.5	3.36	1.40		4.7		.6	6		"
480	1-8	1345 / 1350	"	4.5	3.26	1.44		4.7		.6	6		"
481	1-15	1450 / 1545	"	4.5	2.65	1.66		4.4		.6	5		"
482	1-22	1145 / 1150	"	6.5	4.05	1.45		5.9		.6	7		"
483	1-29	1130 / 1140	"	4.5	2.28	1.93		4.4		.6	5		"
484	2-5	1630 / 1640	LUCE - WRIGHT	5.8	2.24	1.43		3.2		.6	5		"
485	2-11	1520 / 1525	LUCE	8.3	2.66	1.28		3.4		.6	6		"
486	2-19	1500 / 1505	"	6.2	2.73	1.43		3.9		.6	5		"
487	2-27	1600 / 1605	"	6.0	2.76	1.38		3.8		.6	6		"
488	3-4	1240 / 1250	"	6.0	2.59	1.43		3.7		.6	6		"
489	3-11	1410 / 1415	"	6.3	2.42	1.61		3.9		.6	6		"
490	3-17	0335 / 0345	"	7.0	4.41	3.11		13.7		.6	7		"
491	3-17	1210 / 1215	"	6.5	2.91	2.27		6.6		.6	7		"
492	3-24	1845 / 1855	LUCE - WRIGHT	30.0	28.9	2.09	5.83	60.5		.6	10	C	"
493	3-24	2320 / 2325	" "	6.5	5.97	2.34	5.66	14.0		.6	6	-.02	"
494	3-25	1600 / 1605	" "	6.3	2.34	2.31		5.4		.6	6		"
495	3-31	0955 / 1004	TURNER	8.5	4.03	1.24		5.0		.6	9		FC43
496	4-8	1605 / 1615	LUCE	7.0	2.57	1.79		4.6		.6	6		FC39
497	4-15	1145 / 1150	"	6.8	2.78	1.80		5.0		.6	7		"
498	4-20	1545 / 1550	"	7.0	3.20	1.06		3.4		.6	7		"
499	4-21	1525 / 1535	WADDICOR - SILL	TWO CHANNELS				3.5		.6	11		FC37
500	4-28	1720 / 1725	LUCE	4.5	2.50	1.56		3.9		.6	5		FC39
501	4-29	1120 / 1130	"	TWO CHANNELS			5.64	6.3		.6	9	-.01	"
502	5-6	1415 / 1425	"	5.0	2.02	1.53		3.1		.6	5		"
503	5-13	1625 / 1630	"	5.5	1.91	1.36		2.6		.6	6		"
504	5-20	0930 / 0935	"	5.3	1.95	1.23		2.4		.6	6		"
505	5-26	1325 / 1330	"	5.0	2.06	1.31		2.7		.6	5		"
506	6-4	1525 / 1530	"	5.2	1.97	1.12		2.2		.6	5		"
507	6-9	1045 / 1050	"	4.8	1.78	1.07		1.9		.6	5		"
508	6-23	0850 / 0856	TURNER	6.0	2.56	0.94		2.4		.6	6		FC43
509	7-2	0950 / 0956	"	TWO CHANNELS				2.7		.6	6		"
510	7-8	1600 / 1610	LUCE	6.0	2.74	0.70		1.9		.6	5		FC39
511	7-15	1820 / 1827	"	4.5	2.05	0.83		1.7		.6	4		"
512	7-22	1225 / 1235	"	4.2	1.36	1.10		1.5		.6	4		"
513	7-27	1445 / 1450	LUCE - KOCH	4.5	2.59	0.70		1.8		.6	6		FC39
514	7-29	1820 / 1826	LUCE	5.2	2.15	0.70		1.5		.6	5		"
515	8-5	1515 / 1520	"	4.7	2.22	0.72		1.6		.6	5		"
516	8-12	1630 / 1635	"	4.5	1.88	0.80		1.5		.6	5		"
517	8-19	0925 / 0935	"	4.0	1.60	1.25		2.0		.6	4		"
518	8-26	1600 / 1605	"	5.2	1.85	1.08		2.0		.6	5		"
519	9-2	1752 / 1757	"	4.0	1.04	1.06		1.1		.6	5		"
520	9-8	1355 / 1400	"	4.2	1.25	0.88		1.1		.6	4		"
521	9-16	1535 / 1540	"	3.8	0.94	0.84		0.79		.6	4		"
522	9-23	1410 / 1415	"	3.8	1.05	0.83		0.87		.6	5		"
523	9-30	1128 / 1132	LUCE-VAN DER GOOT	5.4	1.79	0.95		1.7		.6	5		"

DISCHARGE MEASUREMENTS OF SANTA CLARA RIVER

AT OR NEAR Highway 99 DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT-ING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
524	10-13	0935 / 0940	LUCE	4.7	1.52	0.92	5.66	1.4		.6	5	0	FC39
525	10-21	1315 / 1320	"	4.0	1.20	0.92	5.61	1.1		.6	6	0	"
526	10-28	1125 / 1130	"	4.0	1.37	0.95	5.63	1.3		.6	5	0	"
527	11-3	1615 / 1621	"	4.4	1.42	0.99	5.61	1.4		.6	5	0	"
528	11-10	1035 / 1040	"	4.0	1.48	0.95	5.63	1.4		.6	5	0	"
529	11-18	1525 / 1530	"	4.0	1.24	1.13	5.56	1.4		.6	5	0	"
530	11-24	1335 / 1340	"	3.8	1.18	1.27	5.57	1.5		.6	6	0	"
531	12-2	1445 / 1450	"	4.0	1.38	1.16	5.59	1.6		.6	6	0	"
532	12-9	1640 / 1645	"	4.0	1.30	1.23	5.59	1.6		.6	6	0	"
533	12-16	1520 / 1525	"	4.0	1.34	1.27	5.60	1.7		.6	6	0	"
534	12-23	1610 / 1615	"	4.0	1.26	1.11	5.55	1.4		.6	5	0	"
535	12-30	1350 / 1355	"	4.1	1.25	1.36	5.55	1.7		.6	5	0	"
536	1-6	1545 / 1550	"	4.3	1.43	1.54	5.56	2.2		.6	5	0	"
537	1-13	1020 / 1025	"	4.3	1.50	1.53	5.58	2.3		.6	5	0	"
538	1-20	0900 / 0905	LUCE - WRIGHT	4.2	1.57	1.85	5.62	2.9		.6	5	0	"
539	1-27	1435 / 1440	LUCE	4.4	1.59	1.64	5.59	2.6		.6	6	0	"
540	2-3	1533 / 1538	"	4.5	1.67	1.62	5.60	2.7		.6	5	0	"
541	2-10	1320 / 1325	"	4.9	1.65	1.70	5.59	2.8		.6	6	0	"
542	2-17	1355 / 1400	"	5.0	1.72	1.57	5.60	2.7		.6	5	0	"
543	2-24	1500 / 1505	"	4.6	1.62	1.85	5.62	3.0		.6	6	0	"
544	3-3	1205 / 1210	"	5.0	1.95	1.69	5.62	3.3		.6	7	0	"
545	3-10	1445 / 1450	"	4.8	1.70	1.47	5.61	2.5		.6	6	0	"
546	3-11	0435 / 0445	"	7.5	5.17	1.74	5.95	9.0		.6	7	-.02	"
547	3-11	0630 / 0635	"	6.0	3.17	2.24	5.78	7.1		.6	6	-.01	"
548	3-17	1545 / 1550	"	5.0	1.93	1.66	5.61	3.2		.6	7	C	"
549	3-24	1310 / 1315	"	4.9	1.66	1.69	5.58	2.8		.6	6	0	"
550	3-30	1135 / 1140	"	4.8	1.80	1.39	5.57	2.5		.6	7	0	"
551	4-7	1120 / 1125	"	4.8	1.58	1.52	5.58	2.4		.6	5	C	"
552	4-14	1640 / 1645	"	5.0	1.80	1.39	5.56	2.5		.6	5	0	"
553	4-21	1335 / 1340	"	5.0	1.89	1.43	5.55	2.7		.6	6	0	"
554	4-28	1140 / 1150	"	4.8	1.67	1.50	5.58	2.5		.6	5	0	"
555	5-5	1000 / 1005	"	4.8	1.65	1.15	5.52	1.9		.6	5	0	"
556	5-12	1405 / 1410	"	4.3	1.42	1.06	5.51	1.5		.6	6	0	"
557	5-19	1535 / 1540	"	4.8	1.70	1.12	5.57	1.9		.6	5	0	"
558	5-27	1729 / 1734	"	4.0	1.30	1.08	5.52	1.4		.6	5	0	"
559	6-2	1410 / 1415	"	4.0	1.22	0.98	5.46	1.2		.6	5	0	"
560	6-9	1540 / 1545	"	5.0	1.93	1.09	5.61	2.1		.6	7	0	"
561	6-16	1240 / 1245	"	4.2	1.36	0.93	5.50	0.99		.6	4	0	"
562	6-23	1039 / 1045	TURNER	5.0	1.58	0.70	5.54	1.1		.6	6	0	FC43
563	6-30	1410 / 1415	LUCE	4.2	1.03	0.60	5.45	0.62		.6	5	0	FC39
564	7-7	1645 / 1650	"	4.2	1.17	0.42	5.44	0.49		.6	5	0	"
565	7-14	1135 / 1140	"	5.0	1.69	0.65	5.55	1.1		.6	5	0	"
566	7-21	1515 / 1520	"	4.0	1.20	0.52	5.47	0.63		.6	5	0	"
567	7-28	1635 / 1640	"	4.6	1.52	0.42	5.53	0.64		.6	5	0	"
568	8-6	0805 / 0810	"	5.0	1.75	0.48	5.57	0.84		.6	5	0	"
569	8-18	1720 / 1725	"	5.1	1.76	0.42	5.59	0.74		.6	5	0	"
570	8-25	1535 / 1540	"	5.1	1.97	0.44	5.63	0.86		.6	5	0	"
571	9-1	1425 / 1431	TURNER	4.0	1.27	0.30	5.52	0.38		.5	5	0	FC43
572	9-7	1155 / 1205	LUCE	5.0	2.33	0.56	5.71	1.3		.6	5	0	FC39
573	9-15	1730 / 1740	"	5.1	1.83	0.40	5.57	0.74		.6	5	0	"
574	9-22	1630 / 1635	"	3.8	0.95	0.38	5.33	0.36		.6	4	0	"
575	9-30	1530 / 1535	"	4.0	1.02	0.47	5.43	0.48		.6	5	0	"

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F92B-R

Daily discharge, in second-feet of SANTA CLARA RIVER at Highway #99, for the year ending September 30, 19 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.9	3.2	3.6	4.7	3.9	3.8	5.0	3.8	2.4	2.7	1.5	1.2
2	1.9	3.2	3.7	4.7	3.8	3.7	4.9	3.7	2.3	2.7	1.5	1.1
3	2.0	3.2	3.7	4.7	3.6	3.7	4.9	3.5	2.2	2.6	1.6	1.1
4	2.1	3.1	3.8	4.7	3.4	3.7	4.8	3.4	2.2	2.5	1.6	1.1
5	2.2	3.1	3.8	4.7	3.2	3.7	4.7	3.2	2.2	2.3	1.6	1.1
6	2.3	3.1	3.8	4.7	3.2	3.7	4.7	3.1	2.1	2.2	1.6	1.1
7	2.4	3.1	3.8	4.7	3.3	3.8	4.6	3.1	2.0	2.0	1.6	1.1
8	2.5	3.1	3.9	4.7	3.3	3.8	4.6	3.0	2.0	1.9	1.6	1.1
9	2.6	3.1	3.9	4.7	3.4	3.9	4.6	2.9	1.9	1.9	1.5	1.1
10	2.5	3.0	3.9	4.6	3.4	3.9	4.7	2.8	1.9	1.9	1.5	1.1
11	2.4	3.0	3.9	4.6	3.4	3.9	4.7	2.8	1.9	1.8	1.5	1.0
12	2.3	3.0	3.9	4.5	3.4	4.0	4.8	2.7	2.0	1.8	1.5	1.0
13	2.1	3.0	3.8	4.5	3.5	4.1	4.9	2.6	2.0	1.7	1.5	0.9
14	2.0	3.1	3.7	4.4	3.6	4.2	4.9	2.6	2.0	1.7	1.6	0.9
15	1.9	3.1	3.6	4.4	3.6	4.3	5.0	2.6	2.1	1.7	1.6	0.8
16	1.8	3.2	3.5	4.6	3.7	4.4	4.7	2.5	2.1	1.7	1.7	0.8
17	1.9	3.3	3.4	4.8	3.8	7.0	4.3	2.5	2.1	1.7	1.8	0.8
18	2.1	3.4	3.4	5.0	3.9	5.2	4.0	2.5	2.2	1.6	1.9	0.8
19	2.3	3.5	3.4	5.2	3.9	5.0	3.7	2.4	2.2	1.6	2.0	0.8
20	2.4	3.6	3.5	5.4	3.9	4.8	3.4	2.4	2.3	1.6	2.0	0.8
21	2.6	3.6	3.5	5.6	3.9	4.6	3.5	2.4	2.3	1.5	2.0	0.9
22	2.8	3.6	3.6	5.9	3.9	4.4	3.5	2.5	2.3	1.5	2.0	0.9
23	3.0	3.5	3.6	5.7	3.9	4.2	3.6	2.5	2.4	1.5	2.0	0.9
24	3.0	3.5	3.7	5.5	3.8	3.3	3.6	2.6	2.4	1.6	2.0	0.9
25	3.1	3.5	3.7	5.3	3.8	5.4	3.7	2.7	2.4	1.6	2.0	1.0
26	3.1	3.4	3.7	5.1	3.8	5.3	3.8	2.7	2.5	1.7	2.0	1.2
27	3.2	3.4	3.9	4.9	3.8	5.3	3.8	2.6	2.5	1.8	1.9	1.4
28	3.2	3.4	4.1	4.7	3.8	5.2	3.9	2.6	2.5	1.6	1.8	1.5
29	3.3	3.5	4.3	4.4	3.8	5.2	6.9	2.5	2.6	1.5	1.6	1.6
30	3.3	3.5	4.5	4.3		5.1	4.0	2.5	2.6	1.5	1.5	1.7
31	3.3		4.7	4.1		5.0		2.4		1.5	1.3	
	77.5	98.3	117.3	149.8	105.7	167.3	132.2	86.1	66.6	56.9	52.8	31.7
MEAN	2.50	3.28	3.78	4.83	3.64	5.40	4.41	2.78	2.22	1.84	1.70	1.06
ACRE-FEET	154.	195.	233.	297.	210.	332.	262.	171.	132.	113.	105.	6.3

Remarks:

YEAR OR PERIOD MEAN 3.12
ACRE-FEET 2270.

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

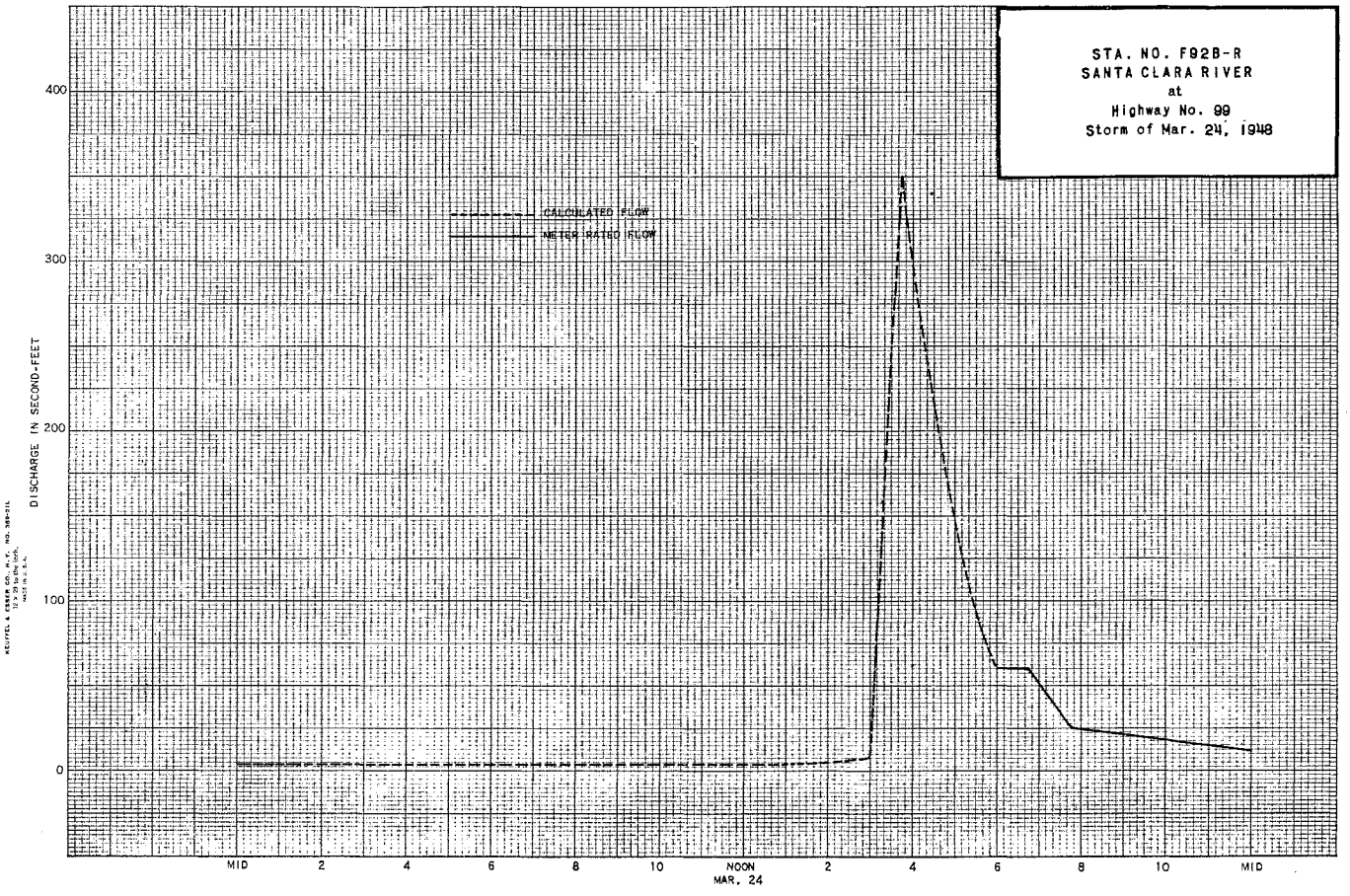
Sta. No. F92B-R

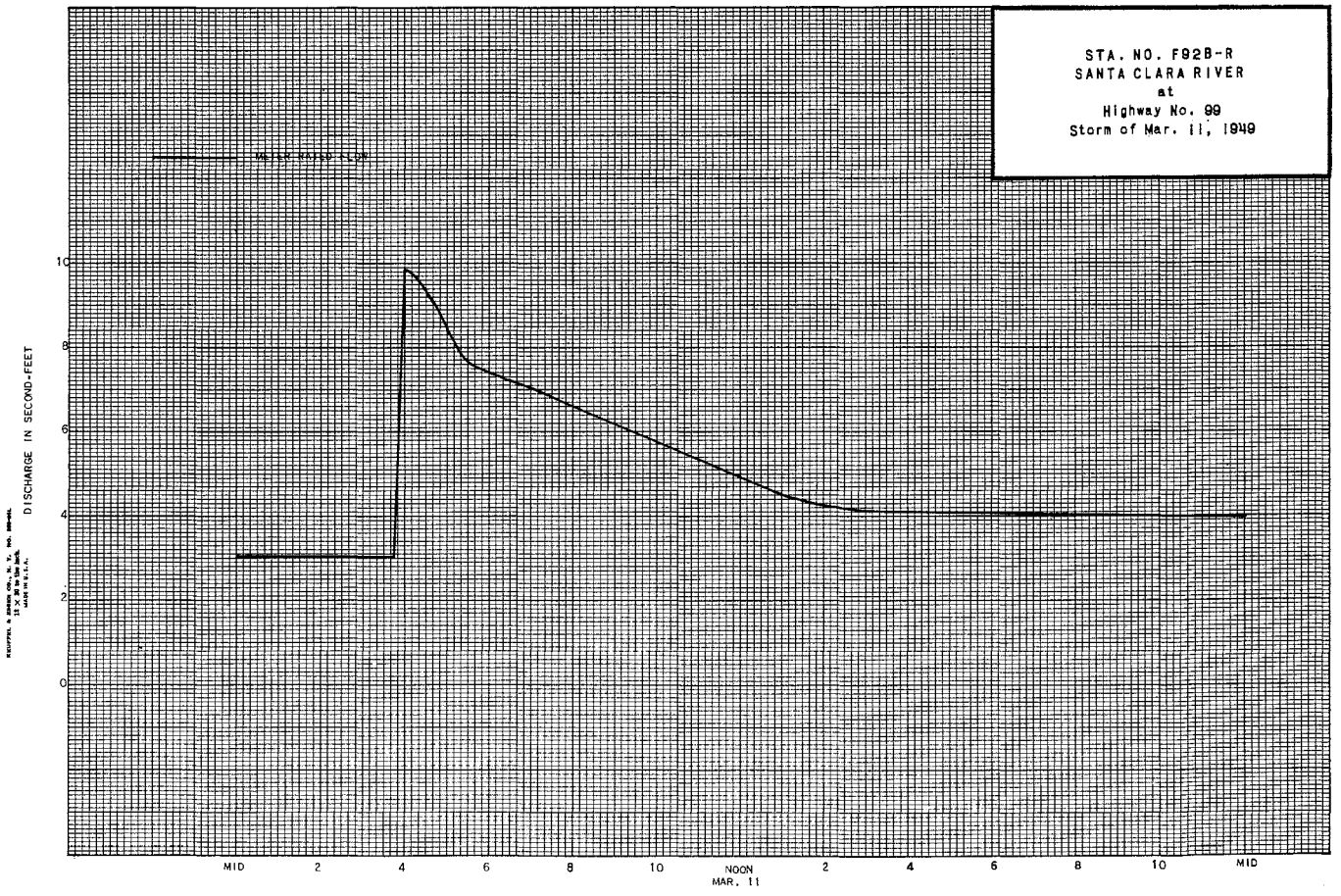
Daily discharge, in second-feet of Santa Clara River at Highway #99, for the year ending September 30, 19 49

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.2	2.0	1.5	2.0	2.7	3.0	2.7	2.0	1.5	0.7	1.2	0.4
2	1.3	1.5	1.6	2.0	2.7	3.0	2.8	1.8	1.6	0.7	1.2	0.5
3	1.8	1.4	1.6	2.0	2.7	3.2	2.4	1.8	2.1	0.8	0.9	0.6
4	1.8	1.1	1.6	2.1	2.7	3.4	2.6	1.8	2.2	1.8	0.9	0.8
5	1.8	1.1	1.6	2.1	2.7	3.6	2.4	1.8	2.2	2.0	0.9	1.0
6	1.8	1.4	1.8	2.2	2.7	3.2	2.6	1.8	1.8	2.2	0.8	1.1
7	1.6	2.1	1.8	2.2	2.7	2.6	2.2	1.6	0.9	0.9	0.8	1.3
8	1.2	2.1	1.6	2.2	2.8	2.7	2.6	2.2	1.5	0.8	0.8	1.2
9	0.7	1.8	1.6	2.2	2.8	2.6	2.4	2.6	2.0	0.9	0.8	1.1
10	0.8	1.4	1.8	2.4	2.6	2.6	2.4	2.2	0.9	0.7	0.8	1.0
11	0.8	1.5	2.0	2.7	2.8	4.9	2.6	2.2	1.4	0.5	0.8	1.0
12	1.1	1.8	2.0	3.0	3.0	3.8	2.4	2.2	2.0	0.5	0.8	0.9
13	1.5	2.0	1.8	2.2	2.8	3.2	2.6	1.8	2.1	0.5	0.7	0.8
14	2.0	2.2	2.1	2.2	2.7	3.2	2.6	2.4	2.1	0.8	0.7	0.7
15	1.8	2.6	2.2	2.1	2.7	3.2	2.6	2.1	1.6	1.4	0.7	0.7
16	1.2	2.4	2.1	2.1	2.7	3.2	2.7	1.8	1.1	1.6	0.7	0.7
17	1.1	2.6	1.8	2.0	2.7	3.2	2.8	1.8	1.2	2.2	0.7	0.6
18	1.2	1.4	1.8	2.0	2.8	3.2	2.7	1.8	1.2	1.5	0.7	0.6
19	1.1	1.4	1.6	2.2	2.8	3.2	3.0	2.0	1.1	0.5	0.8	0.5
20	1.1	1.4	1.6	3.0	2.8	3.0	3.2	1.6	0.9	0.5	0.8	0.5
21	1.2	1.4	1.5	2.6	2.8	3.0	3.0	1.5	1.4	0.7	0.8	0.4
22	1.2	1.4	1.5	3.1	2.8	2.8	2.7	1.1	1.4	0.8	0.8	0.4
23	1.4	1.4	1.4	3.5	2.7	3.2	2.7	0.9	1.1	0.8	0.9	0.4
24	1.4	1.5	1.4	2.8	2.8	2.8	2.6	1.2	0.8	0.7	0.9	0.4
25	1.6	1.5	1.4	2.6	2.8	2.7	2.2	1.8	1.4	0.9	0.9	0.4
26	2.4	1.5	1.6	2.6	3.0	2.6	2.7	2.2	1.6	1.4	0.9	0.5
27	2.1	1.6	1.8	2.6	3.2	2.7	2.4	2.4	2.1	1.5	0.8	0.5
28	1.4	1.4	1.6	2.6	3.2	2.6	2.6	1.1	2.2	1.5	0.7	0.5
29	1.4	1.8	1.8	2.6		2.2	2.6	1.4	2.4	1.5	0.7	0.5
30	1.4	2.2	1.6	2.6		2.6	2.2	1.4	0.8	1.5	0.6	0.5
31	1.5		1.6	2.6		2.6		1.5		1.4	0.5	
	43.9	50.9	52.7	75.1	78.4	94.2	78.0	55.8	46.6	34.2	25.0	20.5
MEAN	1.42	1.70	1.70	2.42	2.80	3.04	2.60	1.80	1.55	1.10	0.81	0.68
ACRE-FEET	87.	101.	105.	149.	156.	187.	155.	111.	92.	68.	50.	41.

Remarks:

YEAR OR PERIOD MEAN 1.80
ACRE-FEET 1300.


STA. NO. F92B-R
SANTA CLARA RIVER
at
Highway No. 99
Storm of Mar. 24, 1948
CALCULATED FLOW
METER RATED FLOW
DISCHARGE IN SECOND-FEET
400
300
200
100
0
MID
2
4
6
8
10
NOON
MAR. 24
2
4
6
8
10
MID


STA. NO. F92B-R
SANTA CLARA RIVER
at
Highway No. 99
Storm of Mar. 11, 1949
METER RATED FLOW
DISCHARGE IN SECOND-FEET
10
8
6
4
2
0
MID
2
4
6
8
10
NOON
MAR. 11
2
4
6
8
10
MID

STATION F137-R
SANTA CLARA RIVER 1/2 mile West of County Line

LOCATION: WATER-STAGE RECORDER, LAT. 34°23'47", LONG. 118°41'02", ON THE LEFT (SOUTH) BANK OF THE SANTA CLARA RIVER CHANNEL, 0.5 OF A MILE WEST OF THE LOS ANGELES-VENTURA COUNTY LINE, AND ABOUT 6 MILES WEST OF CASTAIC JUNCTION AS MEASURED ALONG STATE HIGHWAY #126.

DRAINAGE AREA: 643.7 SQUARE MILES.

CHANNEL CONTROL: CHANNEL - SAND AND GRAVEL UNDERLAID WITH A BLUE SHALE WHICH LIMITS CUTTING TO ABOUT 1 FOOT BELOW PRESENT BOTTOM (JANUARY 6, 1950).

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING.

RECORDER: INSTALLED OCTOBER 4, 1948, OVER A 24-INCH CORRUGATED IRON PIPE STILLING WELL. A LIETZ WEEKLY RECORDER IN SERVICE FROM OCTOBER 4, 1948 TO SEPTEMBER 30, 1949.

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. NEWHALL LAND AND FARMING COMPANY WELL LOCATED IN THE CHANNEL, IN EFFECT, CONSTITUTES A VERY EXTENSIVE DIVERSION OF THIS RISING WATER FLOW.

RRECORDS AVAILABLE: RECORDER RECORDS AVAILABLE FROM OCTOBER 4, 1948 TO SEPTEMBER 30, 1949. SOME WEEKLY STREAM MEASUREMENTS MADE PRIOR TO OCTOBER 4, 1948.

EXTREMES OF DISCHARGE:
1948-1949
MAXIMUM 40 SECOND-FEET, JANUARY 20.
MINIMUM 1.1 SECOND-FEET, SEPTEMBER 22 TO 30, INCLUSIVE.

ACCURACY: FAIR FOR LOW FLOWS, POOR FOR HIGH FLOWS, DUE TO MEANDERING TENDENCY OVER BROAD SANDY CHANNEL WITH UNDETERMINED AND EXTREME CONTROL SHIFT.

OPERATION: LOCATED, DESIGNED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT. CONSTRUCTED BY THE NEWHALL LAND AND FARMING COMPANY.

DISCHARGE MEASUREMENTS OF SANTA CLARA RIVER

~~AT~~ NEAR 1/2 mile west of County line DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1	10-1	1635 / 1645	LUCE	6.2	2.83	2.12	3.58	6.0		.6	6	0	FC39
2	10-4	1145 / 1155	"	6.6	3.35	2.06	3.66	6.9		.6	8	0	"
3	10-7	1225 / 1235	"	6.5	3.04	2.11	3.63	6.4		.6	7	0	"
4	10-13	0900 / 0910	"	6.5	3.29	2.49	3.69	8.2		.6	7	0	"
5	10-21	1350 / 1400	"	7.0	3.68	2.47	3.70	9.1		.6	7	C	"
6	10-28	0940 / 0950	"	10.0	5.30	1.62	3.71	8.6		.6	6	0	"
7	11-3	1510 / 1520	"	9.8	5.79	1.73	3.75	10.0		.6	8	0	"
8	11-10	1115 / 1125	"	10.5	6.33	2.18	3.84	13.8		.6	7	0	"
9	11-18	1615 / 1625	"	10.7	6.75	2.18	3.88	14.7		.6	8	0	"
10	11-24	1440 / 1450	"	10.9	7.21	2.29	3.90	16.5		.6	8	+.01	"
11	12-2	1530 / 1540	"	10.8	7.08	2.06	3.90	14.6		.6	7	0	"
12	12-9	1605 / 1615	"	10.8	8.07	2.12	3.96	17.1		.6	7	0	"
13	12-16	1415 / 1425	"	10.7	8.35	2.24	4.00	18.7		.6	8	0	"
14	12-23	1515 / 1525	"	11.1	9.41	2.44	4.05	23.0		.6	8	0	"
15	12-30	1545 / 1555	"	11.1	9.08	2.38	4.04	21.6		.6	8	0	"
16	1-6	1432 / 1440	"	11.0	7.95	2.87	3.92	22.8		.6	7	0	"
17	1-13	1100 / 1110	"	10.8	8.84	2.62	3.95	24.6		.6	8	0	"
18	1-20	1025 / 1035	LUCE - WRIGHT	13.0	12.6	3.02	4.18	38.1		.6	8	0	"
19	1-27	1610 / 1620	LUCE	12.3	8.87	2.99	3.90	26.5		.6	9	0	"
20	2-3	1630 / 1640	"	11.5	9.05	3.00	3.94	27.1		.6	8	0	"
21	2-10	1325 / 1335	"	11.2	8.81	2.83	3.89	24.9		.6	8	0	"
22	2-17	1600 / 1610	"	10.8	9.21	2.50	3.88	23.0		.6	8	0	"
23	2-24	1625 / 1635	"	11.1	9.88	2.99	3.92	29.5		.6	7	0	"
24	3-3	1435 / 1445	"	11.2	10.0	2.78	3.96	27.8		.6	8	0	"
25	3-10	1215 / 1225	"	11.3	9.25	2.64	3.91	24.4		.6	7	0	"
26	3-11	0905 / 0915	"	12.5	11.3	2.73	4.02	30.8		.6	8	0	"
27	3-17	1445 / 1455	"	11.2	9.60	2.52	3.91	24.2		.6	7	0	"
28	3-24	1515 / 1525	"	11.1	9.70	2.48	3.90	24.1		.6	8	C	"
29	3-30	1205 / 1215	"	10.5	9.03	2.40	3.85	21.7		.6	7	0	"
30	4-7	1350 / 1400	"	11.0	7.15	2.80	3.84	20.0		.6	7	0	"
31	4-14	1615 / 1625	"	10.1	5.87	2.21	3.59	13.0		.6	7	0	"
32	4-21	1545 / 1555	"	9.9	5.56	2.32	3.54	12.9		.6	7	0	"
33	4-28	1440 / 1450	"	9.5	4.75	2.19	3.48	10.4		.6	7	0	"
34	5-5	1105 / 1115	"	9.5	4.33	1.99	3.44	8.6		.6	7	0	"
35	5-12	1545 / 1555	"	9.0	4.25	1.44	3.40	6.1		.6	7	0	"
36	5-19	1240 / 1250	"	8.5	4.78	1.88	3.46	9.0		.6	7	0	"
37	5-27	1640 / 1650	"	9.2	4.60	1.41	3.42	6.5		.6	7	0	"
38	6-2	1535 / 1545	"	9.5	4.12	1.26	3.37	5.2		.6	6	0	"
39	6-8	1635 / 1640	"	8.0	3.63	0.88	3.37	3.2		.6	7	0	"
40	6-16	1430 / 1440	"	5.1	1.87	1.87		3.5		.6	6	0	"
41	6-23	0925 / 0934	TURNER	8.6	3.06	1.05		3.2		.6	9		FC43
42	6-30	1330 / 1335	LUCE	8.7	2.83	0.88		2.5		.6	7		FC39
43	7-7	1735 / 1742	"	8.4	2.43	0.82		2.0		.6	6		"
44	7-14	1320 / 1325	"	8.8	2.75	1.09		3.0		.6	6		"
45	7-21	1555 / 1600	"	8.6	2.36	1.10		2.5		.6	6		"
46	7-25	1145 / 1155	V.C.W.S.	8.5	2.15	0.98		2.1		.6	8		
47	7-28	1455 / 1505	LUCE	8.8	2.05	1.02		2.1		.6	7		FC39
48	8-4	0935 / 0940	"	6.0	1.97	1.67		3.3		.6	7		"
49	8-11	1750 / 1800	"	7.1	1.99	1.15		2.3		.6	7		"
50	8-18	1425 / 1430	"	8.0	2.21	0.95		2.1		.6	7		"
51	8-25	1630 / 1635	"	7.3	1.73	1.04		1.8		.6	7		"
52	9-1	0845 / 0854	TURNER	6.4	1.68	1.07		1.8		.5	7		"
53	9-7	1415 / 1425	LUCE	5.0	1.67	0.90		1.5		.6	5		FC39
54	9-15	1610 / 1615	"	4.7	1.64	1.04		1.7		.6	6		"
55	9-22	1540 / 1545	"	5.5	1.29	0.85		1.1		.6	7		"
56	9-30	1645 / 1650	"	5.5	1.43	0.77		1.1		.6	6		"

V.C.W.S. - VENTURA COUNTY WATER SURVEY

F. C. Dist. Form 82 4-48

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

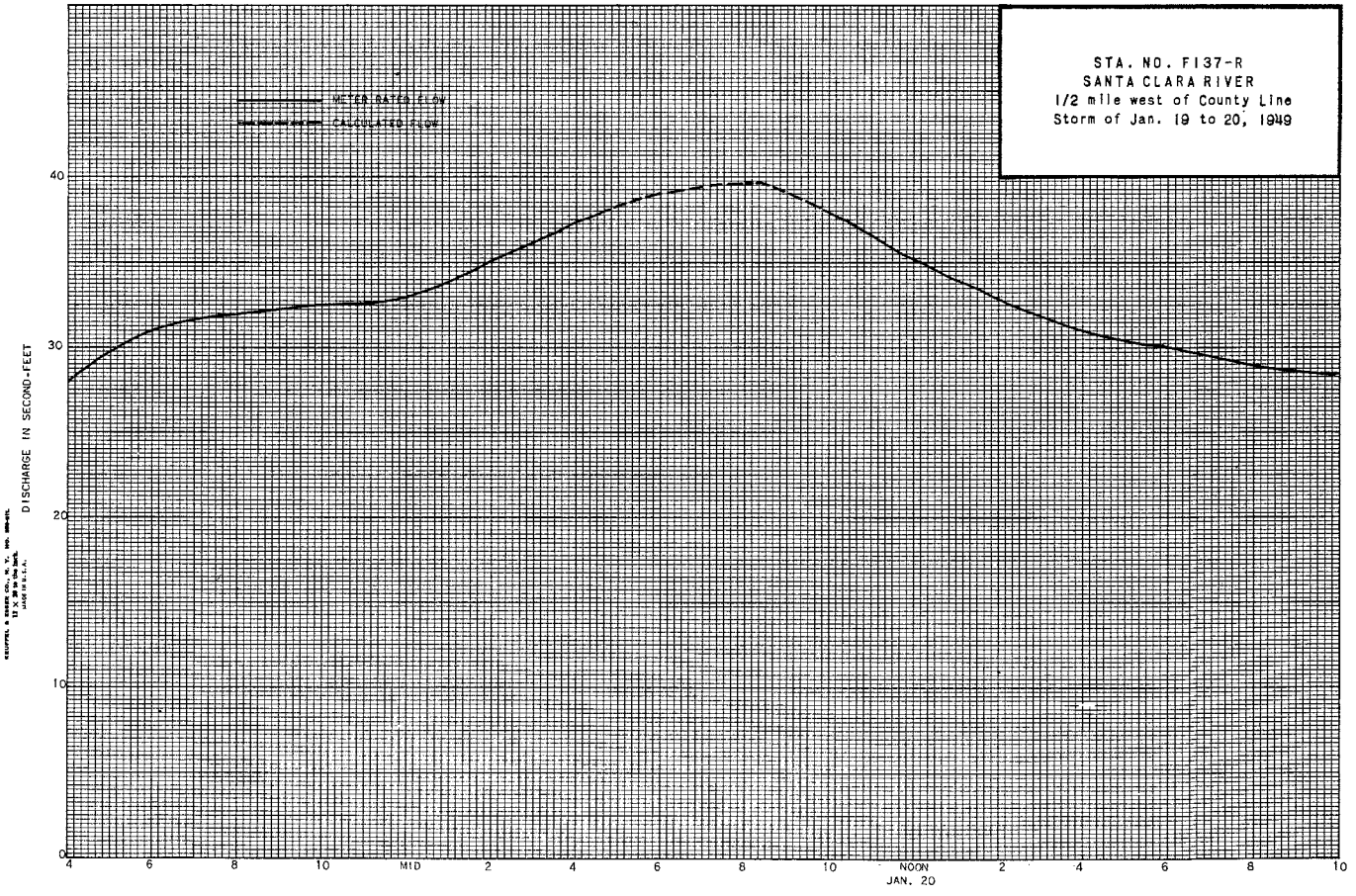
Sta. No. F137-R

Daily discharge, in second-feet of SANTA CLARA RIVER 1/2 mile west of County Line, for the year ending September 30, 19 49

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.0	9.5	15	20	26	25	21	10	5.4	2.5	2.8	1.8
2	6.3	9.5	15	21	25	26	21	9.5	5.1	2.4	3.0	1.8
3	6.6	9.5	15	21	27	27	21	9.2	4.9	2.3	3.2	1.7
4	6.9	9.8	15	22	26	27	20	8.8	4.5	2.3	3.3	1.7
5	6.6	10	16	22	26	27	20	8.5	4.2	2.2	3.1	1.6
6	6.9	11	17	23	25	25	20	8.2	4.0	2.1	3.0	1.6
7	5.8	12	17	23	26	25	21	7.7	3.7	2.0	2.8	1.5
8	5.6	12	17	23	25	24	21	7.2	3.4	2.1	2.7	1.5
9	5.6	13	17	23	25	24	19	6.9	3.2	2.3	2.5	1.5
10	5.8	12	17	22	25	25	15	6.3	3.2	2.4	2.4	1.6
11	6.3	12	18	24	27	30	14	6.1	3.2	2.6	2.3	1.6
12	7.4	13	18	24	25	28	14	6.1	3.2	2.7	2.3	1.6
13	8.0	13	18	24	24	27	13	6.1	3.3	2.9	2.3	1.7
14	8.0	14	18	25	24	26	13	6.3	3.4	3.0	2.3	1.7
15	8.0	15	18	24	24	26	13	6.3	3.4	3.0	2.2	1.7
16	8.2	15	19	23	23	24	13	6.9	3.5	2.9	2.2	1.7
17	8.5	14	26	23	23	24	13	7.2	3.5	2.8	2.2	1.6
18	8.5	15	22	24	22	24	12	7.7	3.4	2.7	2.1	1.5
19	9.2	14	21	28	23	24	12	8.8	3.4	2.6	2.1	1.4
20	8.8	15	22	33	23	24	12	8.2	3.3	2.5	2.0	1.3
21	8.8	15	22	26	24	25	12	7.7	3.3	2.5	2.0	1.2
22	8.5	16	23	26	24	25	12	7.2	3.2	2.4	1.9	1.1
23	8.2	16	23	26	25	25	12	6.6	3.2	2.4	1.9	1.1
24	8.5	17	23	25	27	25	12	6.6	3.1	2.3	1.8	1.1
25	8.2	17	23	25	26	25	11	6.9	3.0	2.2	1.8	1.1
26	8.2	17	22	26	28	24	11	6.6	2.9	2.2	1.8	1.1
27	8.0	16	21	26	28	24	10	6.6	2.8	2.2	1.8	1.1
28	8.0	16	23	27	26	23	10	6.6	2.7	2.1	1.8	1.1
29	8.2	16	22	26		22	10	6.3	2.6	2.3	1.8	1.1
30	8.2	16	21	27		22	10	6.3	2.5	2.5	1.8	1.1
31	8.6		20	26		21		6.3		2.6	1.8	
	234.5	410.3	604.0	758.0	702.0	773.0	438.0	225.7	104.5	76.0	71.0	43.2
MEAN	7.57	13.7	19.5	24.5	25.1	24.9	14.6	7.28	3.48	2.45	2.29	1.44
ACRE-FEET	465.	814.	1200.	1500.	1390.	1530.	869.	448.	207.	151.	141.	86

Remarks:

YEAR OR PERIOD MEAN 12.2
ACRE-FEET 8800.



STATION F278-R
SAWPIT CREEK below Sawpit Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°10'32", LONG. 117°59'16", ON THE RIGHT (NORTH) SIDE OF THE STREAM, ABOUT 500 FEET DOWNSTREAM FROM SAWPIT DAM, AND ABOUT 2.5 MILES NORTH OF MONROVIA. ELEVATION OF GAGE ABOUT 1,225 FEET.

DRAINAGE AREA: 3.3 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - SAND AND GRAVEL. A BROAD-CRESTED WEIR FORMS THE CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM FOOTBRIDGE AT THE STATION.

RECORDER: INSTALLED FEBRUARY 6, 1942. REMOVED AUGUST 31, AND INSTALLED IN THE NEW LOCATION ON SEPTEMBER 4, 1943. AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: FLOW REGULATED BY SAWPIT DAM. STATION F278-R MEASURES OUTLET DISCHARGE, SPILLWAY DISCHARGE ENTERS SAWPIT CREEK BELOW THE STATION.

DIVERSIONS: CITY OF MONROVIA DIVERTS FLOW ABOVE SAWPIT DAM.

RECORDS AVAILABLE: FEBRUARY 6, 1942 TO SEPTEMBER 30, 1949. OUTFLOW RECORDS FROM SAWPIT DAM ARE AVAILABLE COMMENCING OCTOBER 1, 1931.

EXTREMES OF DISCHARGE:

1947-1948
NO FLOW FOR ENTIRE YEAR.

1948-1949
MAXIMUM 15 SECOND-FEET, FEBRUARY 9.
MINIMUM NO FLOW MOST OF YEAR

1942-1949
MAXIMUM 665 SECOND-FEET, MARCH 2, 1938. BASED ON DAM OPERATION RECORDS AND INCLUDING SPILLWAY FLOW. SPILLWAY FLOW BY-PASSED STATION. MAXIMUM OUTLET DISCHARGE FROM SAWPIT DAM, 284 SECOND-FEET, JANUARY 23, 1943.
MINIMUM NO FLOW VARIOUS PERIODS EACH YEAR.

ACCURACY: GOOD. SOME LOW FLOW RECORDS ARE LOST DUE TO UNDERFLOW AT STATION.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

DISCHARGE MEASUREMENTS OF SAWPIT CREEK

~~AT~~ NEAR below Sawpit Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	S. MT. CHANGE TOTAL	METER NO.
125	2-9	0700 / 0710	MOON	9.0	5.00	2.20		11.0		.6	6		FC22
126	2-9	0821 / 0825	"	3.5	1.78	6.41	1.21	11.4		.6	4	0	PITOT
127	2-9	0926 / 0934	"	3.5	2.19	7.03	1.36	15.4		.6	5	0	FC22
128	2-9	0946 / 0954	"	3.5	2.19	6.35	1.36	13.9		.6	5	0	PITOT
129	2-9	1026 / 1036	"	3.5	2.22	6.89	1.35	15.3		.6	5	0	FC22
130	2-9	1433 / 1449	"	3.5	2.18	6.84	1.33	14.9		.6	5	0	"
131	6-23	091C / 0917	"	2.5	0.57	1.72	0.20	0.98		.5	5	0	"

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F278-R

Daily discharge, in second-feet of SAWPIT CREEK below Sawpit Dam for the year ending September 30, 19 49

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	7.2	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0.6	0	0	0
24	0	0	0	0	0	0	0	0	0.1	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	0	0	7.2	0	0	0	0.7	0	0	0
MEAN	0	0	0	0	0.26	0	0	0	.023	0	0	0
ACRE-FEET	0	0	0	0	14.3	0	0	0	1.4	0	0	0

Remarks:

YEAR OR PERIOD MEAN .022 ACRE-FEET 16.

STATION U5-R
SAWPIT CREEK below Monrovia Canyon

LOCATION: WATER-STAGE RECORDER AND BROAD-CRESTED WEIR CONTROL, LAT. 34°00'25", LONG. 117°59'20", IN NE 1/4 SW 1/4 SEC. 13, T. 1 N., R. 11 W., 0.1 MI. DOWNSTREAM FROM MONROVIA CREEK. ALTITUDE OF GAGE ABOUT 1,100 FEET.

DRAINAGE AREA: 5.3 SQUARE MILES.

RECORDS AVAILABLE: NOVEMBER 1916 TO SEPTEMBER 1949.

AVERAGE DISCHARGE: 31 YEARS (1917-1948), 1.29 SECOND-FEET; INCLUDING DIVERSION BY MONROVIA PIPE LINE, 31 YEARS, 2.79 SECOND-FEET. 32 YEARS (1917-1949), 1.25 SECOND-FEET; INCLUDING DIVERSION BY MONROVIA PIPE LINES, 32 YEARS, 2.74 SECOND-FEET.

EXTREMES OF DISCHARGE:

1947-1948
MAXIMUM DISCHARGE, 0.8 SECOND-FEET, MARCH 14. (GAGE HEIGHT, 0.16 FEET).
NO FLOW DURING SEVERAL PERIODS.

1948-1949
MAXIMUM DISCHARGE, 16 SECOND-FEET, FEBRUARY 9. (GAGE HEIGHT, 0.76 FEET).
NO FLOW DURING SEVERAL PERIODS.

1916-1949
MAXIMUM DISCHARGE, ABOUT 2,000 SECOND-FEET, APRIL 7, 1926, ESTIMATED FROM FLOW OF ROGERS CREEK.
NO FLOW DURING PARTS OF MOST YEARS.

REMARKS: RECORDS FAIR. REGULATION AT SAWPIT DAM ABOVE STATION AND DIVERSIONS BY CITY OF MONROVIA.

COOPERATION: RECORDS FURNISHED BY THE UNITED STATES GEOLOGICAL SURVEY. TWO MEASUREMENTS FURNISHED BY LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

DISCHARGE MEASUREMENTS OF SAWPIT CREEK

~~AT~~ ~~NEAR~~ below Monrovia Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
844	3-25		U.S.G.S.	1.0	0.029	1.03	-.03	0.03		FLOAT	1	0	
845	3-25	1448 / 1450	HAIG	1.0	0.025	1.60	-.02	0.04		FLOAT	1	0	

DISCHARGE MEASUREMENTS OF SAWPIT CREEK

~~AT~~ ~~NEAR~~ below Monrovia Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
846	2-9	1057 / 1107	MOON	7.0	3.11	5.08	0.75	15.8		.6	6	0	FC22
847	2-11		U.S.G.S.	.50	.36	.44	.01	.016		.5	3	0	
848	3-2		"				-.04	.005		EST.			

F. C. Dist. Form 53 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U5-R

Daily discharge, in second-feet of SAWPIT CREEK below Monrovia Canyon, for the year ending September 30, 19 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0.1	0	0	0	0	0
4	0	0	0.2	0	0	0	0	0	0	0	0	0
5	0	0	0.1	0	0.1	0	0	0	0	0	0	0
6	0	0	0.1	0	0.1	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0.1	0	0	0	0	0	0
14	0	0	0	0	0	0.4	0	0	0	0	0	0
15	0	0	0	0	0	0.2	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0.1	0	0	0	0	0	0
25	0	0	0	0	0	0.1	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	0.5	0	0.2	0.9	0.1	0	0	0	0	0
MEAN	0	0	0.02	0	0.01	0.03	.003	0	0	0	0	0
ACRE-FEET	0	0	1.0	0	0.4	1.8	0.2	0	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN .005
ACRE-FEET 3.4

F. C. Dist. Form 82 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U5-R

Daily discharge, in second-feet of Sawpit Creek below Monrovia Canyon, for the year ending September 30, 19 49

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	7.1	0	0	0	0	0	0	0
10	0	0	0	0	0.1	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0.1	0	0	0	0	0	0	0	0
21	0	0	0	0.1	0	0	0	0	0	0	0	0
22	0	0	0	0.3	0	0	0	0	0	0	0	0
23	0	0	0	0.2	0	0	0	0	0.2	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	0	0.7	7.2	0	0	0	0.2	0	0	0
MEAN	0	0	0	0.02	0.26	0	0	0	0.01	0	0	0
ACRE-FEET	0	0	0	1.4	14.	0	0	0	0.4	0	0	0

Remarks:

YEAR OR PERIOD MEAN 0.02
ACRE-FEET 15.8

STATION F185-R
SEPULVEDA CREEK at Charnock Road

LOCATION: WATER-STAGE RECORDER, LAT. 34°00'48", LONG. 118°25'29", ON THE LEFT (EAST) WING WALL OF THE DOWNSTREAM SIDE OF THE CHARNOCK ROAD BRIDGE, ABOUT 1200 FEET WEST OF SAWTELLE BOULEVARD AND APOROXIMATELY 2 MILES NORTHWEST OF CULVER CITY. ELEVATION OF ZERO GAGE HEIGHT, 79.12 FEET ABOVE MEAN SEA LEVEL.

DRAINAGE AREA: 25.7 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - SAND AND ADOBE. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM FOOTBRIDGE 100 FEET BELOW THE STATION.

RECORDER: INSTALLED SEPTEMBER 15, 1932; REMOVED MARCH 3, 1937, DUE TO BRIDGE CONSTRUCTION; REINSTALLED AUGUST 11, 1937. REMOVED MARCH 3, 1938 DUE TO STILLING WELL BEING WASHED OUT. REINSTALLED JULY 7, 1938, OVER 20-INCH CORRUGATED IRON PIPE STILLING WELL. AN H.C.F. RECORDER WAS IN OPERATION FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION AND/OR DIVERSIONS: STONE CANYON RESERVOIR, SOUTHERN CALIFORNIA WATER COMPANY SPILLS FLOW UP TO 5.0 SECOND-FEET INTO SEPULVEDA CREEK ABOVE CHARNOCK ROAD FOR SHORT PERIODS NEARLY EACH DAY.

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, 1949.

EXTREMES OF DISCHARGE:

1947-1948
MAXIMUM 1710 SECOND-FEET, MARCH 24.
MINIMUM NO FLOW AT VARIOUS TIMES.

1948-1949
MAXIMUM 1530 SECOND-FEET, FEBRUARY 7.
MINIMUM NO FLOW AT VARIOUS TIMES.

1932-1949
MAXIMUM 3100 SECOND-FEET, ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW AT TIMES EACH YEAR.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

DISCHARGE MEASUREMENTS OF SEPULVEDA CREEK

AT ~~NEAR~~ Charnock Road DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
678	10-2	1010 / 1016	BOLLINGER	2.5	1.17	0.51	5.18	0.60		.5	4	0	FC6
679	10-9	0945 / 0948	"	1.2	0.71	0.76	5.20	0.54		.5	2	0	"
680	10-16	1234 / 1240	"	3.0	3.05	1.47	5.70	4.5		.6	3	0	"
681	10-23	1312 / 1321	"	5.0	3.58	1.42	5.69	5.1		.5	8	-.05	"
682	10-30	1125 / 1136	"	4.6	3.60	1.69	5.74	6.1		.6	7	0	"
683	11-6	1000 / 1003	"	1.0	0.43	1.42	5.11	0.61		.5	2	0	"
684	11-13	1227 / 1232	"	1.1	0.49	2.04	5.29	1.0		.5	2	+.09	"
685	11-20	1024 / 1029	"	1.0	0.40	1.48	5.10	0.59		.5	2	0	"
686	12-4	1408 / 1417	"	8.0	6.25	1.20	5.57	7.5		.6	8	-.02	"
687	12-18	1614 / 1616	"	1.4	0.61	1.18	5.08	0.72		.5	2	0	"
688	1-8	1355 / 1402	"	2.8	1.04	1.54	5.20	1.6		.5	5	0	"
689	1-15	1310 / 1313	"	1.1	0.48	1.17	4.99	0.56		.5	2	0	"
690	1-29	1048 / 1055	"	3.2	0.74	1.35	5.05	1.0		.5	5	0	"
691	2-5	1315 / 1321	BOLLINGER - PAULL	7.7	8.14	2.22	6.06	18.1		.6	8	-.07	"
692	2-6	1100 / 1113	BOLLINGER	10.5	18.2	3.10	6.43	56.4		.6	11	-.05	"
693	2-13	1410 / 1416	"	2.3	0.76	1.12	5.03	0.85		.5	4	0	"
694	2-26	1607 / 1613	"	2.0	0.83	1.57	5.18	1.3		.5	4	0	"
695	3-4	1400 / 1405	"	2.0	0.56	1.07	5.06	0.60		.5	4	0	"
696	4-1	1423 / 1428	"	2.2	0.44	1.52	5.12	0.67		.5	3	0	"
697	4-8	1440 / 1443	"	2.0	1.10	1.46	5.25	1.6		.5	2	0	"
698	4-22	1456 / 1501	"	1.7	0.32	1.47	5.16	0.47		.5	3	-.01	"
699	4-29	1237 / 1243	"	2.2	0.40	0.95	5.11	0.38		.5	4	0	"
700	5-27	1308 / 1317	"	3.5	3.77	1.88	5.85	7.1		.5	6	0	"
701	6-10	1244 / 1251	"	2.7	1.55	1.29	5.36	2.0		.5	5	-.02	"
702	6-24	1319 / 1323	"	2.0	0.66	1.06	5.14	0.70		.5	3	0	"
703	7-14	1258 / 1306	BLAKELY	5.5	0.76	0.62	5.16	0.47		.5	5	0	FC35
704	7-21	1240 / 1244	"	2.0	0.39	0.82	4.90	0.32		.5	3	0	"
705	7-28	1305 / 1308	"	1.4	0.19	0.26	4.38	0.05		.5	4	0	"
706	8-26	0840 / 0846	BOLLINGER	2.8	0.55	0.73	4.51	0.40		.5	4	0	FC6
707	9-2	0825 / 0830	"	3.0	0.73	0.55	4.55	0.40		.5	4	0	"
708	9-23	0920 / 0924	"	1.5	0.74	1.27	4.70	0.94		.5	2	+.01	"

DISCHARGE MEASUREMENTS OF SEPULVEDA CREEK

AT ~~NEAR~~ Charnock Road DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
709	10-7	0740 / 0745	BOLLINGER	1.2	0.48	1.07	4.59	0.52		.5	2	0	FC6
710	10-14	1005 / 1010	"	1.8	0.81	1.07	4.62	0.87		.5	2	0	"
711	10-21	1227 / 1231	"	1.2	0.74	0.73	4.58	0.54		.5	2	0	"
712	11-12	0935 / 0940	"	1.2	0.36	1.19	4.61	0.43		.5	2	0	"
713	11-24	0905 / 0910	"	1.8	0.43	0.72	4.60	0.31		.5	3	0	"
714	12-2	0835 / 0840	"	2.0	0.41	0.68	4.60	0.28		.5	3	0	"
715	12-9	1320 / 1325	"	1.2	0.46	1.80	4.75	0.83		.5	2	0	"
716	12-16	1023 / 1033	"	2.0	0.63	1.10	4.64	0.69		.5	3	+.03	"
717	12-23	0934 / 0940	"	2.5	0.57	0.65	4.56	0.37		.6	4	0	"
718	12-27	1233 / 1240	"	6.5	5.85	1.98	5.46	11.6		.6	8	-.05	"
719	1-6	0913 / 0918	"	2.5	0.45	0.96	4.63	0.43		.5	4	0	"
720	1-13	0810 / 0820	BOLLINGER - DIAS	10.5	8.59	2.18	5.88	18.7		.6	10	-.11	"
721	1-20	1022 / 1027	" "	7.8	7.38	1.97	5.75	14.5		.6	8	-.01	"
722	2-3	1351 / 1403	DIAS - BOLLINGER	9.3	6.89	0.96	5.25	6.6		.6	11	-.06	"
723	2-10	1315 / 1321	BOLLINGER	2.5	0.99	1.11	5.03	1.1		.5	5	0	"
724	2-24	1553 / 1602	DIAS - BOLLINGER	5.0	2.15	2.32	5.43	5.0		.6	8	-.09	"
725	3-3	1105 / 1116	BOLLINGER	4.5	1.81	1.21	5.03	2.2		.6	8	0	"
726	3-10	1334 / 1340	"	3.0	1.21	0.99	4.93	1.2		.6	5	-.01	"
727	4-7	0835 / 0840	"	2.0	0.88	0.30	4.78	0.26		.5	4	0	"
728	4-14	1155 / 1200	BOLLINGER - LANG	2.5	1.15	0.54	4.86	0.62		.6	4	0	"
729	4-21	1115 / 1120	BOLLINGER	2.5	0.67	1.15	5.00	0.77		.5	4	-.02	"
730	5-5	1050 / 1055	"	2.2	1.17	1.11	4.90	1.3		.6	2	0	"
731	5-25	1128 / 1134	BLAKELY	3.0	3.05	1.31	5.26	4.0		.6	3	0	FC35
732	6-2	0855 / 0900	BOLLINGER	1.7	0.37	0.97	4.76	0.36		.5	3	0	FC6
733	6-16	1036 / 1043	"	1.5	0.84	1.05	4.91	0.88		.5	3	0	"
734	6-23	1307 / 1313	"	2.7	1.08	0.77	4.90	0.83		.6	5	0	"
735	6-30	1018 / 1025	"	2.0	0.62	1.11	4.90	0.69		.5	4	0	"
736	7-7	0837 / 0845	"	3.0	1.31	1.45	5.19	1.9		.5	5	0	"
737	7-14	1215 / 1219	BLAKELY	3.0	0.66	1.01	4.92	0.67		.5	4	0	FC35
738	7-20	1222 / 1226	"	2.5	0.95	0.93	4.91	0.88		.5	3	0	"
739	7-28	1523 / 1530	BOLLINGER	3.0	0.90	0.73	4.80	0.66		.6	4	0	FC6
740	8-4	1408 / 1416	"	3.7	0.74	0.74	4.83	0.55		.5	5	0	"
741	8-11	0813 / 0821	"	2.2	0.68	0.81	4.92	0.55		.5	4	0	"
742	8-25	0832 / 0838	"	2.2	0.73	0.84	4.85	0.61		.5	4	0	"
743	9-8	0950 / 0956	"	3.0	0.69	0.81	4.92	0.56		.6	5	0	"
744	9-29	0825 / 0837	"	3.0	0.63	0.46	4.85	0.29		.5	5	0	"

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F185-R

Daily discharge, in second-feet of SEPULVEDA CREEK at Charnock Road, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.7	0.5	1.7	1.1	0.6	1.0	0.6	0.6	6.9	0.2	b 0.5	0.4
2	0.7	0.4	1.1	1.1	0.6	0.8	2.2	0.5	17	0.2	0.5	0.5
3	0.7	0.5	1.0	1.2	0.8	0.7	15	0.3	0.4	0.5	0.5	0.3
4	0.6	2.2	54	1.0	0.6	0.7	0.4	0.6	0.5	0.5	0.5	0.5
5	0.7	1.1	78	1.0	48	3.8	3.2	0.3	0.5	0.5	0.6	0.5
6	0.6	0.7	22	0.9	39	0.6	10	0.2	0.3	0.4	0.6	0.5
7	0.7	0.6	d 0.9	1.0	1.4	0.3	1.0	0.2	0.6	0.3	0.6	0.4
8	0.5	0.8	0.9	1.1	1.0	0.4	1.6	0.3	0.7	g 0.4	0.6	0.5
9	1.2	0.6	0.9	0.9	1.2	0.5	1.1	0.6	0.7	0.5	0.6	0.7
10	2.1	0.6	0.8	0.8	2.1	0.2	24	0.4	1.0	0.6	0.6	0.6
11	0.5	0.5	0.8	0.9	1.0	0.2	0.6	0.4	0.7	0.6	0.6	1.1
12	0.5	1.6	0.8	1.0	0.9	0.1	0.2	0.4	0.7	0.7	b 0.6	0.5
13	2.1	1.3	0.7	0.8	1.3	61	0.1	0.4	1.0	0.8	0.9	0.3
14	1.2	1.7	0.8	0.7	1.4	a 13	0.2	0.9	0.3	g 0.9	0.7	0.2
15	3.8	0.5	0.8	0.6	0.8	1.7	0.3	0.3	0.5	0.9	0.6	0.3
16	1.7	0.6	0.7	0.9	1.0	4.4	0.3	0.5	0.4	0.9	0.4	0.8
17	2.4	1.5	fp 0.7	0.7	1.2	a 92	0.5	0.3	0.3	0.9	0.4	1.0
18	0.3	2.7	0.7	1.1	0.8	0.1	0.5	0.4	0.3	1.0	0.7	0.6
19	0.5	1.0	0.9	0.9	0.7	9.4	0.3	0.4	0.3	1.0	1.1	0.8
20	1.0	0.6	0.8	0.7	0.6	0.2	0.2	0.2	0.3	0.6	0.7	0.3
21	1.4	0.7	1.7	1.7	0.5	0.2	0.2	0.6	0.4	0.5	0.6	0.5
22	2.4	1.1	0.7	0.3	0.7	0.2	0.3	0.4	1.0	0.6	0.5	0.6
23	2.0	0.6	1.0	0.4	0.9	+	0.3	0.7	0.9	0.7	0.4	0.5
24	1.5	0.7	0.9	0.3	0.8	118	1.2	0.4	0.8	0.5	0.2	0.5
25	0.4	0.6	0.9	0.4	1.0	0.7	0.4	1.3	0.8	0.4	0.5	0.8
26	0.3	0.7	1.0	5.2	1.0	0.6	0.3	0.6	0.8	0.5	0.6	0.4
27	0.7	0.6	1.0	1.0	0.8	0.7	0.1	1.7	0.8	b 0.5	0.7	0.3
28	1.3	0.6	1.4	0.7	5.1	0.6	22	0.6	0.8	0.5	0.7	0.8
29	0.7	0.7	1.3	0.6	0.8	0.6	13	0.5	0.6	0.5	0.8	1.0
30	1.4	0.6	1.3	0.7		0.8	0.5	0.8	0.2	0.5	0.5	0.7
31	0.4		1.1	0.6		0.4		1.0		b 0.5	0.5	
	35.0	26.9	181.3	30.3	116.6	313.9	100.6	16.8	40.5	18.1	18.3	16.9
MEAN	1.13	0.90	5.85	0.98	4.02	10.1	3.35	0.54	1.35	0.58	0.59	0.56
ACRE-FEET	69.	53.	360.	60.	231.	623.	200.	33.	80.	36.	36.	34.

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

YEAR OR PERIOD MEAN 2.50
ACRE-FEET 1820

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

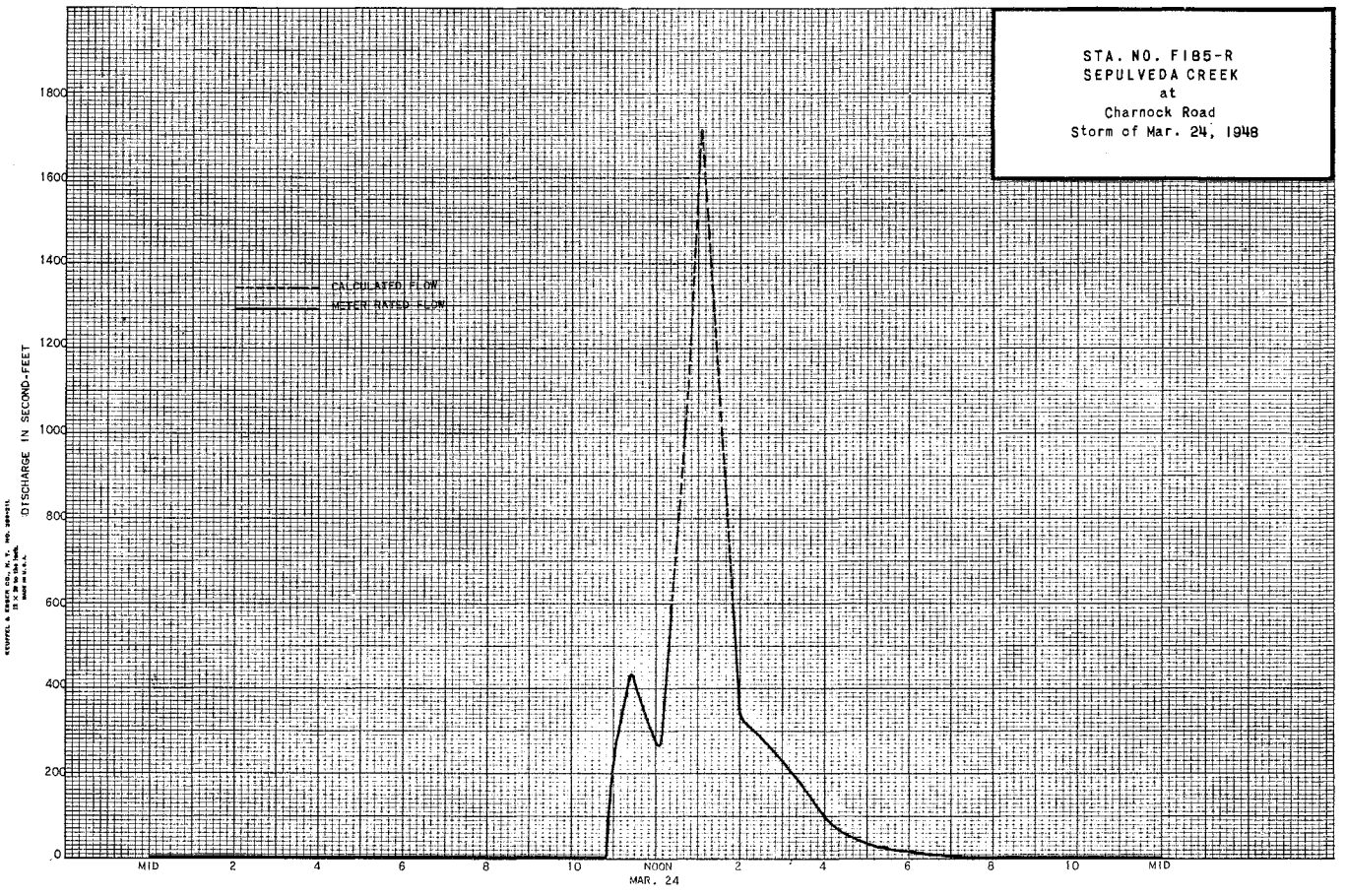
Sta. No. F185-R

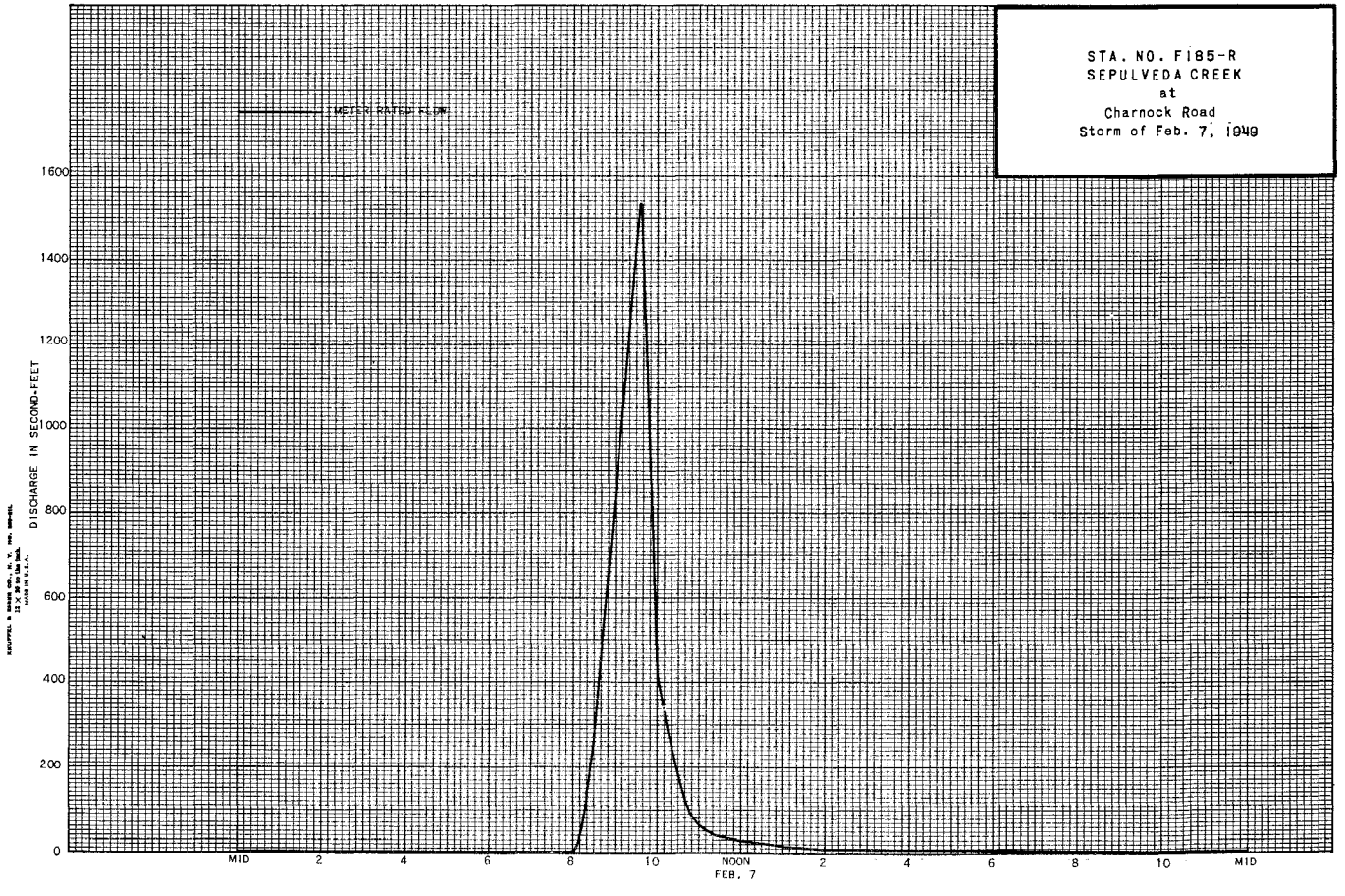
Daily discharge, in second-feet of Sepulveda Creek at Charnock Road, for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	1.0	0.4	0.1	1.6	0.6	0.6	5.1	1.0	0.4	5.4	0.9
2	0.5	0.9	0.4	0.3	0.4	2.1	0.6	2.4	1.5	1.1	2.5	0.6
3	0.6	0.7	5.5	0.4	35	14	0.3	2.2	0.8	0.5	1.7	0.8
4	0.6	0.8	0.6	0.4	+	22	0.3	1.5	1.6	0.3	0.8	0.4
5	0.7	0.8	0.3	0.7	+	1.1	0.4	1.2	2.0	0.4	0.8	0.6
6	0.8	0.9	0.3	0.7	+	0.6	0.4	2.0	1.2	0.2	1.4	0.8
7	1.1	0.8	0.8	0.8	75	4.6	0.4	1.6	1.5	0.8	0.6	0.8
8	0.8	0.8	1.6	0.7	0.3	1.1	0.6	1.8	1.7	0.7	0.8	1.0
9	0.8	0.8	1.1	0.3	0.3	0.8	0.3	1.7	1.3	0.8	1.0	1.0
10	0.7	0.6	1.0	6.6	0.6	57	0.3	2.2	2.4	0.4	0.6	0.9
11	0.9	0.5	0.3	41	14	28	0.4	1.8	1.5	0.4	0.8	0.8
12	0.9	0.8	0.4	18	1.5	1.3	0.3	1.2	1.2	0.4	1.0	0.5
13	1.0	0.7	0.4	31	1.9	1.3	0.4	2.3	1.0	0.6	1.0	0.5
14	1.1	0.7	3.4	3.6	1.9	0.7	0.3	1.8	0.8	0.6	0.7	0.8
15	1.6	0.8	0.7	+	2.1	1.5	0.2	1.5	1.2	0.9	1.0	0.4
16	0.8	0.7	34	+	1.8	0.3	0.6	1.8	0.8	0.8	1.0	0.4
17	1.0	0.6	88	+	0.8	0.3	0.3	22	0.8	0.7	1.1	0.4
18	4.1	0.7	1.0	0.1	1.2	0.7	0.3	20	0.7	1.0	0.8	0.3
19	1.2	8.5	0.5	86	1.1	12	0.2	17	1.0	0.9	1.1	0.6
20	1.7	0.8	0.6	99	1.2	0.3	0.8	0.6	1.9	1.2	1.0	2.1
21	1.3	0.3	0.6	0.2	1.0	0.8	0.3	0.7	1.2	1.1	0.8	0.4
22	1.0	0.3	8.3	43	1.5	0.8	0.2	1.3	2.7	1.5	1.4	0.3
23	1.0	0.3	0.4	1.0	1.1	1.1	0.2	1.5	2.6	1.5	0.9	0.4
24	0.5	0.3	0.7	2.3	12	1.3	1.0	1.9	1.4	1.0	1.0	0.4
25	0.7	0.6	0.3	0.6	0.8	0.4	1.2	1.4	1.1	1.2	0.8	0.2
26	0.5	1.2	48	0.4	17	0.8	0.8	0.9	1.0	1.0	1.2	0.4
27	0.7	0.3	38	0.8	1.1	0.2	0.9	1.3	0.9	1.0	1.2	0.4
28	0.8	0.3	0.1	1.1	0.6	0.7	0.9	1.2	1.4	0.8	0.6	0.4
29	0.8	0.3	+	0.4		0.8	1.9	1.4	0.9	1.4	0.9	0.5
30	0.8	0.3	+	0.3		0.8	3.9	0.8	0.8	1.4	1.1	0.4
31	0.9		+	0.3		0.5		1.0		1.0	0.9	
	30.5	27.1	237.7	340.1	175.8	158.5	19.3	105.1	39.9	26.0	35.9	18.4
MEAN	0.98	0.90	7.67	11.0	6.28	5.11	0.64	3.39	1.33	0.84	1.16	0.61
ACRE-FEET	60.	54.	471.	675.	349.	314.	38.	208.	79.	52.	71.	36.

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

YEAR OR PERIOD MEAN 3.33
ACRE-FEET 2410.


STA. NO. F185-R
SEPULVEDA CREEK
at
Charnock Road
Storm of Mar. 24, 1948
CALCULATED FLOW
METER RATED FLOW
DISCHARGE IN SECOND-FEET
0
200
400
600
800
1000
1200
1400
1600
1800
MID
2
4
6
8
10
NOON
2
4
6
8
10
MID
MAR. 24


STA. NO. F185-R
SEPULVEDA CREEK
at
Charnock Road
Storm of Feb. 7, 1949
METER RATED FLOW
DISCHARGE IN SECOND-FEET
0
200
400
600
800
1000
1200
1400
1600
MID
2
4
6
8
10
NOON
2
4
6
8
10
MID
FEB. 7

STATION F43-R
SYCAMORE CANYON CHANNEL above Solway Street
(formerly Sycamore Upper Storm Drain)

LOCATION: WATER-STAGE RECORDER, LAT. 34°09'24", LONG. 118°13'17", ON THE RIGHT (NORTH) SIDE OF CONCRETE DRAIN, APPROXIMATELY 80 FEET ABOVE SOLWAY STREET AND ABOUT 3 MILES NORTHEAST OF GLENDALE. ELEVATION OF GAGE ABOUT 700 FEET.

DRAINAGE AREA: 2.7 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - RECTANGULAR CONCRETE, 8 FEET WIDE AND 8 FEET DEEP. INVERT IS 0.1 FOOT BELOW BOTTOM OF VERTICAL SIDE WALLS. CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM FOOTBRIDGE ABOUT 80 FEET BELOW STATION.

RECORDER: INSTALLED JANUARY 30, 1928 IN A 3 FT. X 4 FT. CONCRETE HOUSE AND STILLING WELL COMBINED. RECORDER REINSTALLED OCTOBER 1, 1935. STEVENS TYPE L RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATIONS: NONE.

DIVERSIONS: NONE.

RECORDS AVAILABLE: FROM JANUARY 30, 1928 TO APRIL 6, 1932 AND FROM OCTOBER 1, 1935 TO SEPTEMBER 30, 1940. NOT PUBLISHED FROM OCTOBER 1, 1936 TO SEPTEMBER 30, 1938, BUT RECORDS ARE AVAILABLE AT OFFICE OF THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT'S HYDRAULIC DIVISION. RECORDS PUBLISHED FROM OCTOBER 1, 1938 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:
1947-1948
MAXIMUM 51 SECOND-FEET, MARCH 24.
MINIMUM NO FLOW AT VARIOUS TIMES.
1948-1949
MAXIMUM 3.4 SECOND-FEET, JANUARY 9.
MINIMUM NO FLOW AT VARIOUS TIMES.
1928-1949
MAXIMUM NOT DETERMINED, MARCH 2, 1938.
MAXIMUM DISCHARGE OF RECORD, 340 SECOND-FEET, FEBRUARY 22, 1944.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F43-R

Daily discharge, in second-feet of SYCAMORE CANYON CHANNEL above Solway Street, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	+	+	0	+	0	0	+				
2	0	+	+	+	+	+	+	+				
3	0	0	+	+	0	0	+	+				
4	0	0	0.3	+	+	+	+	+				
5	0	0	0.2	0	0.5	+	+	+				
6	0	0	+	+	0.2	+	0	+				
7	0	0	+	+	0	+	+	+				
8	0	0	+	+	+	+	+	+				
9	0	0	0	+	+	0	+	+				
10	+	0	0	+	0	+	0.3	+				
11	+	0	0	+	0	+	0	0				
12	+	+	0	+	0	+	+	0				
13	+	+	+	0	0	0.6	0	+				
14	0	0	+	+	+	0.2	+	0				
15	0	0	+	+	+	+	+	+				
16	0	+	0	+	0	0.1	+					0
17	0	0	+	+	0	0.2	+					0
18	+	+	0	+	0	+	+					+
19	+	+	+	0	+	+	+					0
20	+	0	+	0	+	0	0					0
21	+	0	+	0	+	0	0					0
22	0	0.1	+	+	+	0	+					0
23	+	+	+	+	+	0	0					+
24	+	0	+	+	+	2.1	+					+
25	+	0	+	+	0	+	+					+
26	+	0	+	+	+	0	+					+
27	0	+	+	+	+	+	0					0
28	0	+	+	+	+	+	0.2					0
29	+	+	0	+	+	+	+					0
30	0	+	+	+		+	0					0
31	0		+	+		+						

Recorder stopped for summer

		0.1	0.5		0.7	3.2	0.5					
MEAN	+	0.003	0.02	+	0.02	0.10	0.02	+	+	+	+	+
ACRE-FEET	+	0.2	1.0	+	1.4	6.3	1.0	+	+	+	+	+

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

YEAR OR PERIOD MEAN 0.014
ACRE-FEET 9.9

F. C. Dist. Form 82 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

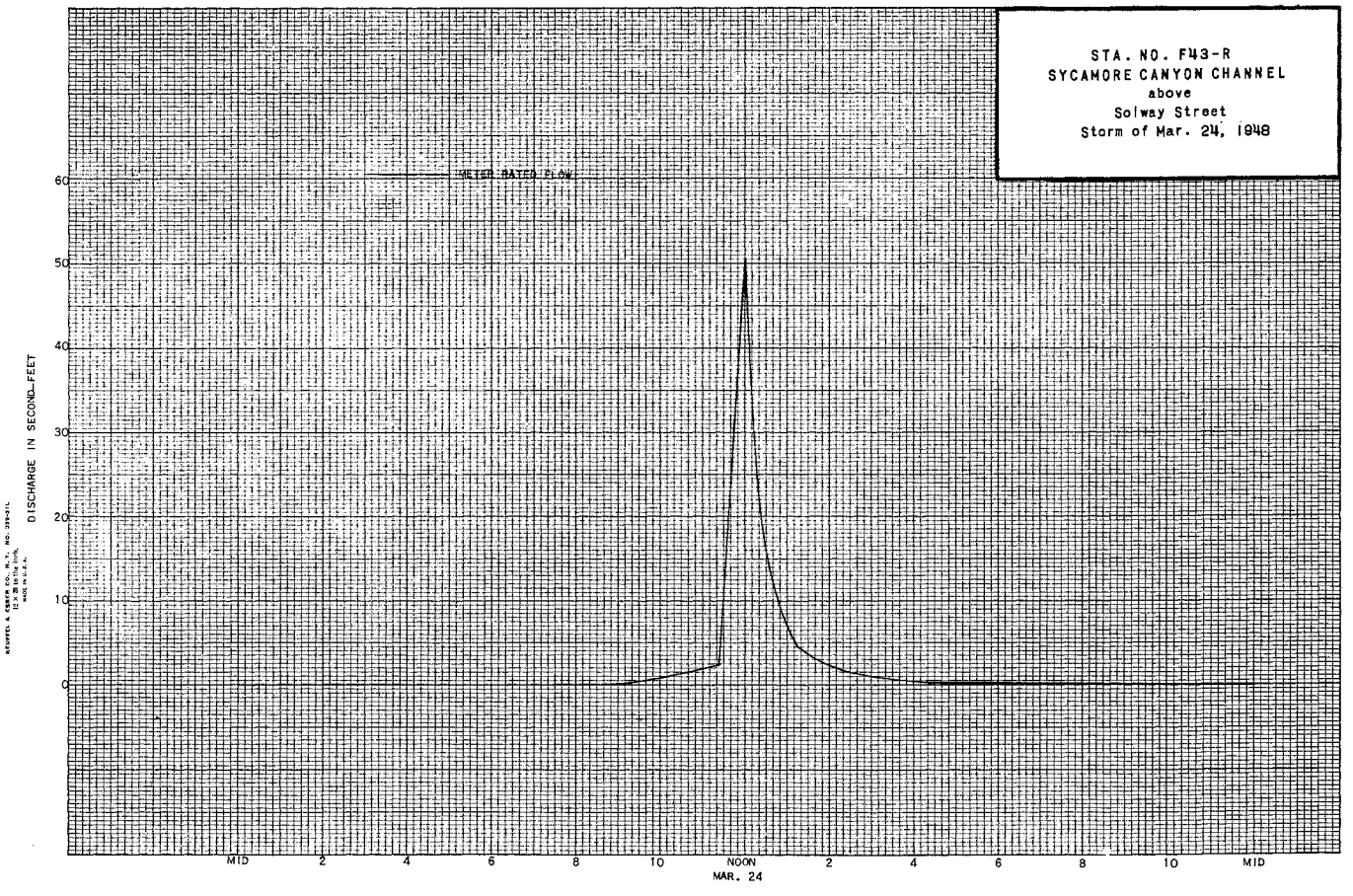
Sta. No. F43-R

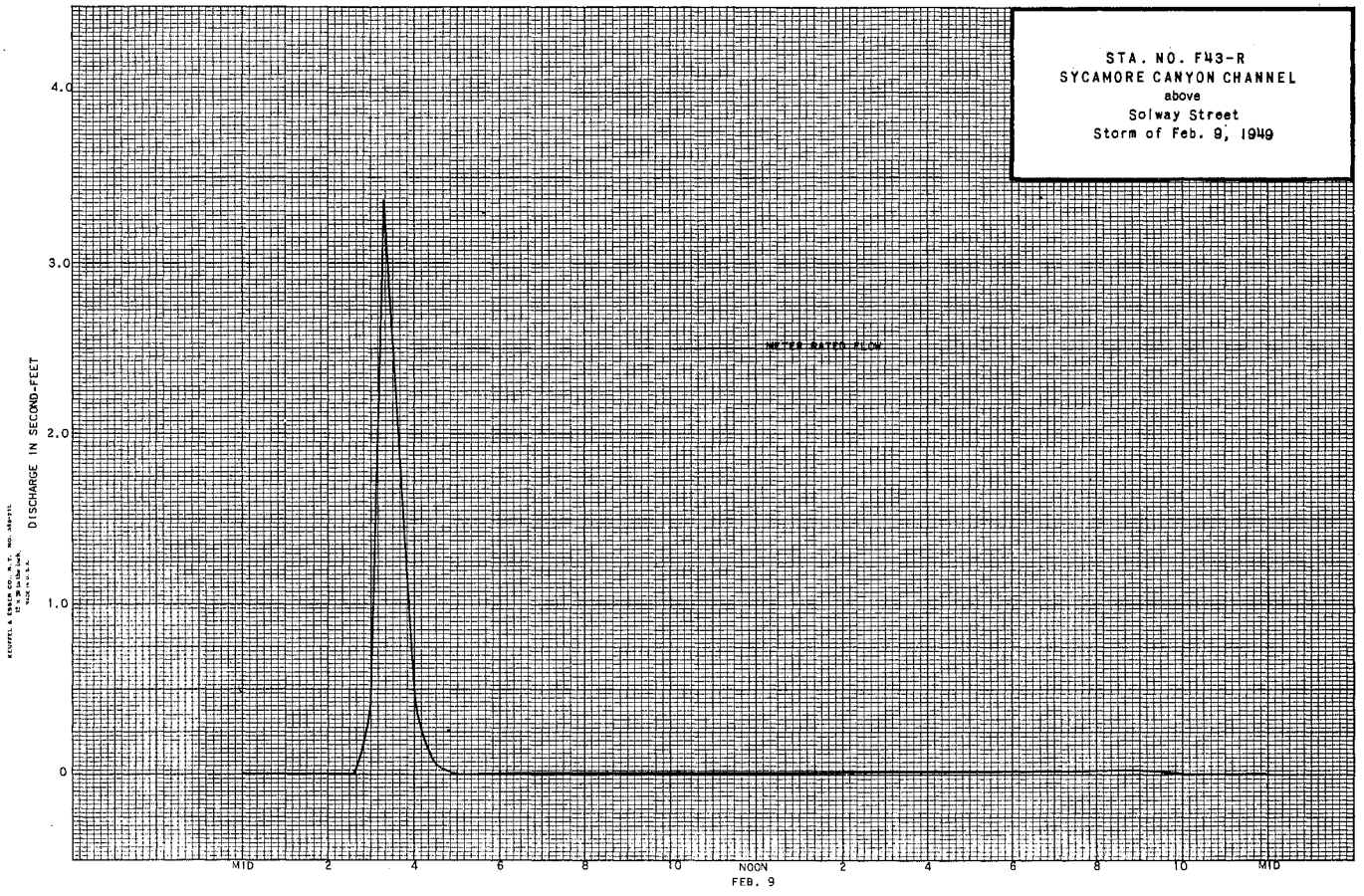
Daily discharge, in second-feet of SYCAMORE CANYON CHANNEL above Solway Street, for the year ending September 30, 19 49

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	+	+	+	+	+	+	+	+	+	+
2	0	+	+	+	+	+	+	+	+	+	+	+
3	+	+	+	+	0 1	+	+	+	+	+	+	+
4	+	+	+	+	+	0 2	+	+	+	+	+	+
5	+	+	+	+	+	+	+	+	+	+	+	+
6	+	+	+	+	+	+	+	+	+	+	+	+
7	+	+	+	+	0 2	0 1	+	+	+	+	+	+
8	+	0	+	+	+	+	+	+	+	+	+	+
9	+	+	+	0 1	+	+	+	+	+	+	+	+
10	+	+	+	+	+	0 3	+	+	+	+	+	+
11	+	+	+	0 1	0 2	0 1	+	+	+	+	+	+
12	0	+	+	0 2	+	+	+	+	+	+	+	+
13	+	+	0	+	+	+	+	+	+	+	+	+
14	+	+	+	+	+	+	+	+	+	+	+	+
15	0	+	+	+	+	+	+	+	+	+	+	+
16	+	+	0 1	+	+	+	+	+	+	+	+	+
17	+	+	0 3	+	+	+	+	0 1	+	+	+	+
18	+	+	0	+	+	+	+	0 2	+	+	+	+
19	+	+	+	0 3	+	0 1	+	a 0 4	+	+	+	+
20	+	+	0	0 2	+	+	+	+	+	+	+	+
21	+	+	+	+	+	+	+	+	+	+	+	+
22	+	+	+	0 1	+	++	+	+	+	+	+	+
23	+	+	+	0 1	+	+	+	+	+	+	+	+
24	+	+	+	+	0 2	+	+	+	+	+	+	+
25	+	+	+	+	+	+	+	+	+	+	+	+
26	+	+	0 2	0	0 2	+	+	+	+	+	+	+
27	0	0	+	+	0 1	+	+	+	+	+	+	+
28	+	+	0	+	+	+	+	+	+	+	+	+
29	+	0	+	+		+	+	+	+	+	+	+
30	0 1	+	+	+		+	+	+		+	+	+
31	+		+	+		+		+		+	+	
	0 1	+	0 6	1 1	1 0	0 8	+	0 7	+	+	+	+
MEAN	0.003	+	0.02	0.04	0.04	0.03	+	0.02	+	+	+	+
ACRE-FEET	0.2	+	1.2	2.2	2.0	1.6	+	1.4	+	+	+	+

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

YEAR OR PERIOD MEAN 0.012
ACRE-FEET 8.6





STATION F44-R and F44B-R
SYCAMORE CANYON CHANNEL at Adams Square
(formerly Sycamore Lower Storm Drain)

LOCATION: WATER-STAGE RECORDER, LAT. 34°08'02", LONG. 118°14'30",
F44-R: IN MANHOLE 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 THE WEST CURB OF ADAMS STREET, ABOUT 1 MILE SOUTHEAST OF GLENDALE. ELEVATION OF GAGE ABOUT 495 FEET.
F44B-R: ON THE RIGHT (NORTH) SIDE OF THE DRAIN ABOUT 100 FEET DOWNSTREAM FROM THE OLD STATION F44-R DESCRIBED ABOVE. NO APPRECIABLE CHANGE IN ELEVATION, LATITUDE OR LONGITUDE.

DRAINAGE AREA: 6.2 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - CLOSED RECTANGULAR CONCRETE DRAIN, 9 FEET WIDE AND 10 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 AT STATION F44B-R.

RECORDER:
F44-R: INSTALLED DECEMBER 15, 1927 UNDERGROUND IN A 3 FT. X 4 FT. CONCRETE HOUSE AND STILLING WELL COMBINED. AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO APRIL 13, 1948. A STEVENS TYPE F WEEKLY RECORDER IN SERVICE FROM APRIL 13, 1947 TO FEBRUARY 3, 1949. AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM FEBRUARY 4, 1949 TO APRIL 26, 1949 WHEN RECORDS FROM THIS LOCATION WERE DISCONTINUED.
F44B-R: INSTALLED AUGUST 3, 1948 UNDERGROUND IN A 3 FT. X 3 FT. CONCRETE HOUSE AND STILLING WELL COMBINED. AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM AUGUST 3, 1948 TO SEPTEMBER 30, 1948.

REGULATION: NONE.

DIVERSIONS: NONE.

RECORDS AVAILABLE: DECEMBER 15, 1927 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:
1947-1948
MAXIMUM 818 SECOND-FEET, MARCH 24.
MINIMUM NO FLOW AT VARIOUS TIMES.
1948-1949
MAXIMUM 98 SECOND-FEET, MARCH 10.
MINIMUM + FLOW AT VARIOUS TIMES.
1927-1949
MAXIMUM 2,700 SECOND-FEET, ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

DISCHARGE MEASUREMENTS OF SYCAMORE CANYON CHANNEL

AT ~~NEAR~~ Adams Square DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1	5-18	2311 / 2325	BLAKELY	9.0	5.71	7.11	0.40	40.6		.5	8	+.06	FC35
2	5-19	1202 / 1207	"	9.0	2.22	3.42	0.20	7.6		.5	5	+.06	"
3	8-11	1536 / 1538	"	9.0	0.81	1.24	0.17	1.0		.5	2	0	"

F. C. Dist. Form 82 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F44-R

Daily discharge, in second-feet of SYCAMORE CANYON CHANNEL at Adams Square, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	b0.03	0.02	0.2	0.03	0.02	0.02	+	0.02	+			
2	b0.03	0.02	0.03	0.02	0.02	0.02	+	0.02	a 1.5			
3	0.03	0.03	0.03	0.02	0.02	0.02	b1.0	0.02				
4	0.03	0.02	13.8	0.02	0.5	0.02	+	0.02				
5	0.03	0.02	8.4	0.02	18.2	0.02	+	0.02				
6	0.03	0.03	0.3	0.02	11.4	0.02	b0.8	0.02				
7	0.03	0.02	0.03	0.02	0.03	0.02	+					
8	0.03	0.03	0.03	0.03	0.02	0.02	+					
9	0.05	0.02	0.03	0.03	0.02	0.02	0.02					
10	0.05	0.02	0.03	0.03	0.02	0.02	1.8					
11	0.03	0.02	0.02	0.02	0.01	0.02	0.03					
12	0.02	0.02	0.01	0.02	0	0.02	0.01					
13	0.02	0.03	0.02	0.02	0.01	14.3	+					
14	0.03	0.02	0.03	0.02	0.02	4.7	0.02	Recorder stopped				
15	0.02	0.03	0.02	0.02	0.02	0.03	0.02					
16	0.02	0.03	0.03	0.02	0.02	1.5	0.02					
17	0.02	0.03	0.03	0.02	0.02	9.1	+					
18	0.02	0.03	0.03	0.02	0.03	0.03	+					
19	0.02	0.02	0.03	0.02	0.03	1.8	+					
20	0.02	0.03	0.03	0.02	0.05	0.05	+					
21	0.03	0.03	0.1	0.02	0.05	0.03	+					
22	0.03	1.5	0.03	0.02	0.05	0.03	+					
23	0.03	0.02	0.05	0.02	0.03	0.05	f 0.03					
24	0.03	0.02	0.03	0.02	0.05	42	0.03					
25	0.03	0.02	0.03	0.02	0.03	b 0.5	0.03					
26	0.03	0.03	0.03	0.02	0.03	b 0.3	0.03					
27	0.03	0.02	0.03	0.02	0.03	b 0.1	0.03					
28	0.03	0.03	0.03	0.02	0.5	+	9.0					
29	0.1	0.03	0.03	0.02	0.02	+	0.1					
30	0.02	0.03	0.02	0.02		+	0.02					
31	0.02		0.03	0.02		+						
	0.94	2.22	23.54	0.66	31.25	74.76	12.99	a 0.7	a 2.2	a 0.7	b 0.7	b 0.7
MEAN	0.03	0.07	0.76	0.021	1.08	2.41	0.43	a 0.02	a 0.07	a 0.02	b 0.02	b 0.02
ACRE-FEET	1.9	4.4	47.	1.3	62.	148.	26.	a 1.4	a 4.4	a 1.4	b 1.4	b 1.4

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

YEAR OR PERIOD MEAN 0.41
ACRE-FEET 300.

F. C. Dist. Form 82 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

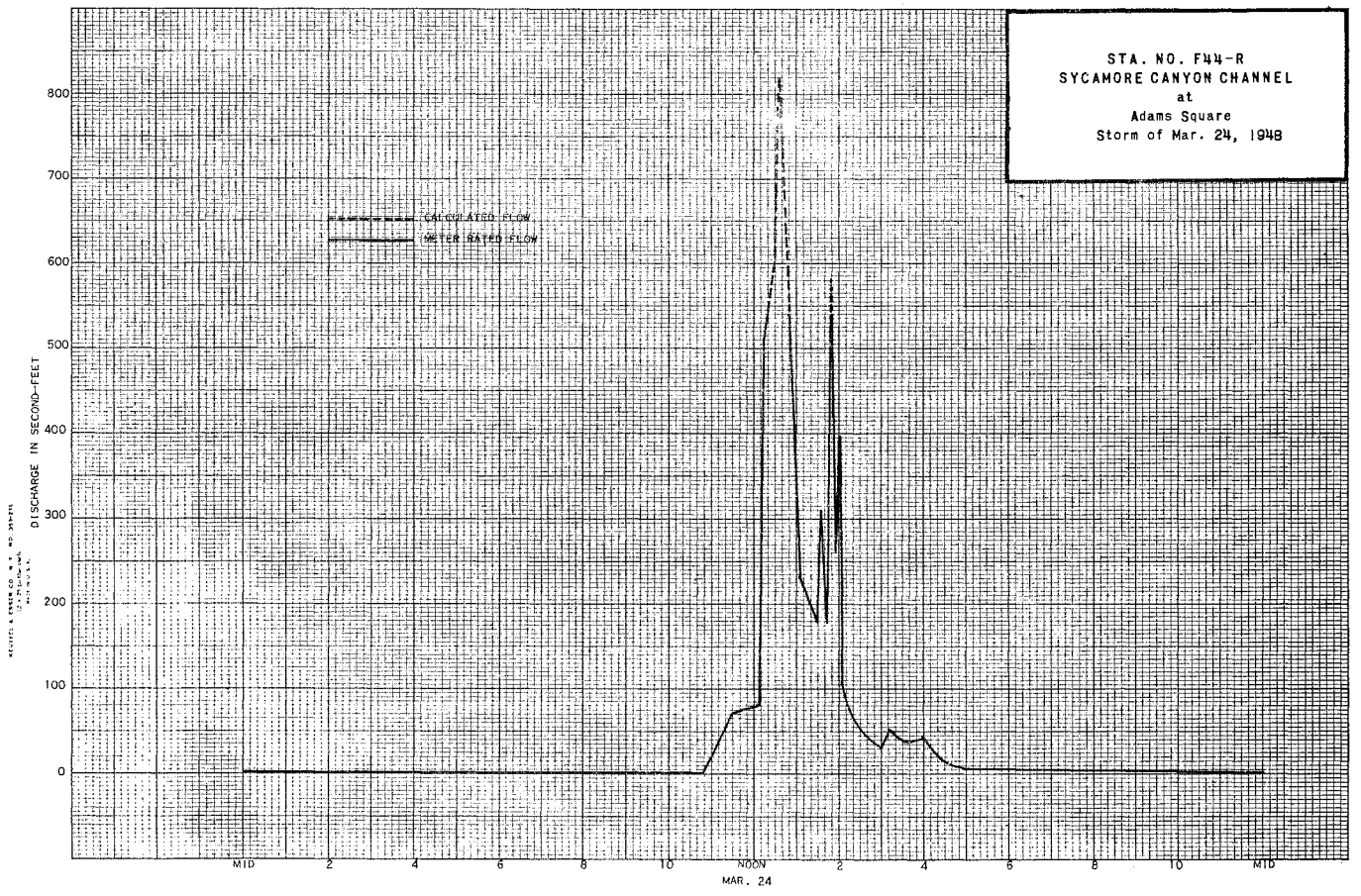
Sta. No. F44B-R

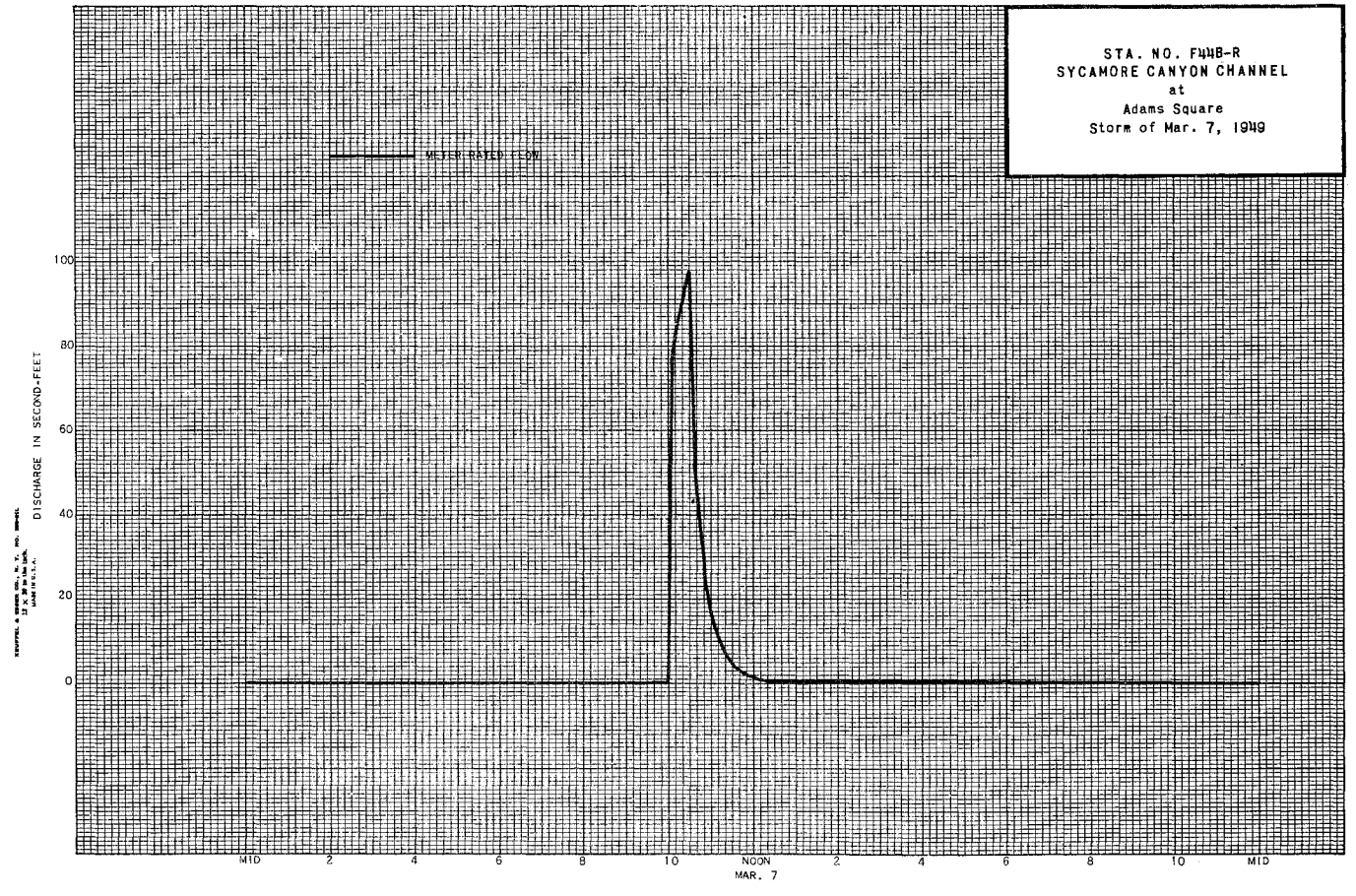
Daily discharge, in second-feet of SYCAMORE CANYON CHANNEL at Adams Square, for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.02	0.01	0.03	0.02	0.02	0.03	0.1	0.04	0.04	0.4	0.02	0.1
2	0.02	0.01	0.03	0.02	0.02	0.2	0.1	0.04	0.04	b 0.04	0.02	0.02
3	0.02	0.1	2.2	0.03	a 1.9	0.3	0.1	0.04	0.02	b 0.04	0.02	0.02
4	0.02	0.1	0.02	0.02	0.02	4.8	0.1	0.02	0.04	0.04	0.02	0.02
5	0.02	0.03	0.02	0.02	0.03	b 0.1	0.1	0.02	0.04	0.04	0.02	0.02
6	0.02	0.05	0.02	0.01	0.02	0.05	0.1	f 0.8	0.04	0.7	0.02	0.02
7	0.03	0.02	0.02	0.01	4.5	3.0	0.1	b 0.02	0.04	b 0.04	0.02	0.02
8	0.1	0.02	0.02	0.01	0.02	0.05	0.05	0.02	0.1	0.04	0.02	0.02
9	0.02	0.1	0.02	0.6	0.01	0.05	0.1	0.02	0.04	0.04	0.02	0.02
10	0.02	0.01	0.02	0.01	0.01	7.9	0.1	0.02	0.04	0.04	0.02	0.02
11	0.02	0.01	0.02	4.3	2.7	1.7	0.05	b 0.02	0.04	0.04	a 0.6	0.02
12	0.02	0.03	0.02	b 5.9	0.03	0.1	0.05	0.02	0.04	0.04	0.02	0.02
13	0.02	0.02	0.02	2.4	0.02	0.1	0.05	0.01	0.04	b 0.04	0.02	0.02
14	0.02	0.01	0.02	0.7	0.02	0.05	0.05	+	0.04	0.04	0.02	0.02
15	0.02	0.1	0.02	0.02	0.03	0.05	0.1	+	0.1	0.04	0.01	0.02
16	0.02	0.05	a 4.1	0.02	0.02	0.05	0.1	0.01	0.04	0.04	0.01	0.02
17	0.02	0.05	a2.0	0.02	0.02	0.05	0.05	3.8	0.04	0.04	0.01	0.02
18	0.6	0.02	a 0.1	0.02	0.02	0.1	0.05	5.6	0.1	0.02	0.01	0.02
19	0.02	0.02	0.02	7.5	0.03	1.9	0.05	10.8	0.02	0.02	0.02	0.02
20	0.02	0.02	0.02	7.5	0.03	0.1	0.05	0.04	0.02	0.02	a 0.04	0.02
21	0.02	0.02	0.02	0.02	0.03	0.1	0.05	0.04	0.02	0.01	0.04	0.02
22	0.02	0.02	2.9	3.5	0.03	0.1	0.05	0.04	0.02	0.01	0.04	0.02
23	0.02	0.02	0.02	0.6	0.03	0.2	0.05	0.02	0.04	0.1	0.04	0.02
24	0.02	0.02	0.02	0.02	4.1	0.4	0.03	0.02	0.1	0.01	0.04	0.02
25	0.02	0.03	0.02	0.02	0.03	0.3	0.03	0.02	b 0.04	0.01	0.04	0.02
26	0.02	0.02	7.2	0.02	3.9	0.05	0.04	0.02	0.04	0.01	0.04	0.02
27	0.02	0.03	4.6	0.02	0.1	0.05	0.04	0.1	0.04	0.01	0.04	0.02
28	0.01	0.03	0.02	0.02	0.03	0.1	0.04	0.04	b 0.04	0.02	0.04	0.02
29	0.01	0.03	0.02	0.02		0.2	0.04	0.04	0.1	0.02	0.04	0.02
30	0.4	0.03	0.02	0.02		0.2	0.04	0.04	0.9	0.02	0.04	0.02
31	0.01		0.02	0.02		0.3		0.04		0.02	a 0.04	
	1.64	1.03	41.60	33.41	17.72	22.68	1.96	21.76	2.26	2.00	1.40	0.68
MEAN	0.053	0.034	1.34	1.08	0.63	0.73	0.07	0.70	0.08	0.06	0.05	0.02
ACRE-FEET	3.3	2.0	82.	66.	35.	45.	3.9	43.	4.5	4.0	2.8	1.3

Remarks: + = less than 0.01 c.f.s.

YEAR OR PERIOD MEAN 0.41
ACRE-FEET 294.


STA. NO. F44-R
SYCAMORE CANYON CHANNEL
at
Adams Square
Storm of Mar. 24, 1948
CALCULATED FLOW
METER RATED FLOW
DISCHARGE IN SECOND-FEET
800
700
600
500
400
300
200
100
0
MID
2
4
6
8
10
NOON
2
4
6
8
10
MID
MAR. 24


STA. NO. F44B-R
SYCAMORE CANYON CHANNEL
at
Adams Square
Storm of Mar. 7, 1949
METER RATED FLOW
DISCHARGE IN SECOND-FEET
100
80
60
40
20
0
MID
2
4
6
8
10
NOON
2
4
6
8
10
MID
MAR. 7

STATION F276-R
THOMPSON CREEK SPREADING GROUNDS INTAKE at Thompson Creek Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°08'22", LONG. 117°42'37", ON THE LEFT (EAST) SIDE AND AT THE DOWNSTREAM SIDE OF THE 3 FT. X 3 FT. DIVERSION OUTLET THROUGH THOMPSON CREEK DAM. ELEVATION OF ZERO GAGE HEIGHT, 1624.45 FT.

DRAINAGE AREA: 3.7 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - 3 FT. X 3 FT. CONCRETE, COVERED OUTLET WITH A TRANSITION INTO A 4 FT. DIAMETER SEMI-CIRCULAR FLUME. CONTROL - TRANSITION INTO SEMI-CIRCULAR FLUME.

DISCHARGE MEASUREMENTS: ALL FLOWS MEASURED BY WADING.

RECORDER: INSTALLED JANUARY 14, 1941 OVER A 24-INCH DIAMETER CORRUGATED IRON PIPE. A STEVENS TYPE L RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION AND/OR DIVERSIONS: INFLOW TO THOMPSON CREEK DAM FROM COBAL AND PALMER CANYONS CAN BE DIRECTED THROUGH A 3 FT. X 3 FT. OUTLET TUNNEL TO THOMPSON CREEK SPREADING GROUNDS. FLOW THROUGH 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, 1948.

EXTREMES OF DISCHARGE:
1947-1948
NO FLOW FOR ENTIRE YEAR.
1948-1949
NO FLOW FOR ENTIRE YEAR.
1940-1949
MAXIMUM 21 SECOND-FEET, FEBRUARY 24, 1943.
MINIMUM NO FLOW MOST OF EACH YEAR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

STATION F32-R
THOMPSON CREEK below Thompson Creek Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°08'22", LONG. 117°42'32", ON THE LEFT (EAST) BANK ABOUT 50 FEET BELOW THOMPSON CREEK DAM TUNNEL OUTLET AND ABOUT 2.5 MILES NORTH OF CLAREMONT. ELEVATION OF ZERO GAGE HEIGHT, ABOUT 1,590 FEET.

DRAINAGE AREA: 3.7 SQUARE MILES.

CHANNEL AND CONTROL: SAN DIMAS TYPE FLUME.

DISCHARGE MEASUREMENTS: ALL FLOWS MEASURED BY WADING.

RECORDER: INSTALLED DECEMBER 21, 1943 OVER AN 18-INCH CORRUGATED IRON PIPE STILLING WELL. A HORIZONTAL RATIONAL RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION AND/OR DIVERSION: INFLOW TO THOMPSON CREEK DAM FROM COBAL AND PALMER CANYONS CAN BE DIRECTED THROUGH A 3 FT. X 3 FT. OUTLET TUNNEL TO THOMPSON CREEK SPREADING GROUNDS. FLOW THROUGH THE DIVERSION TUNNEL CAN BE CONTROLLED BY TWO SLIDE GATES SO THAT ANY FLOW IN EXCESS OF THE CAPACITY OF GATE OPENINGS IS PASSED OVER A SPILLWAY BACK TO THE RESERVOIR. FLOW THROUGH THE 24-INCH OUTLET VALVE PASSES THE STATION. DISCHARGES OVER THE SPILLWAY OF THE DAM WOULD NOT BE RECORDED AT THIS STATION.

RECORDS AVAILABLE: RECORDER RECORDS DECEMBER 21, 1943 TO SEPTEMBER 30, 1949. FOR MEASUREMENTS PRIOR TO DECEMBER 21, 1943, SEE STATION F32-S. FROM MARCH 1928 SEE RECORDS BASED ON DAM OUTFLOW.

EXTREMES OF DISCHARGE:
1944-1949
NO FLOW FOR PERIOD OF RECORD.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT FOR MEASURING OUTFLOW FROM THOMPSON CREEK DAM.

REMARKS: NO FLOW FOR THESE TWO SEASONS.

STATION F54-R
TOPANGA CREEK above Mouth of Canyon

LOCATION: WATER-STAGE RECORDER, LAT. 34°03'52", LONG. 118°35'12", ON THE RIGHT (WEST) DOWNSTREAM ABUTMENT OF THE CONCRETE BRIDGE 2 MILES NORTH OF TOPANGA BEACH AND ABOUT 6 MILES NORTHWEST OF SANTA MONICA. ELEVATION OF ZERO GAGE HEIGHT, 265.60 FEET.

DRAINAGE AREA: 18 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - ROCK AND GRAVEL. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM CABLE CAR ABOVE STATION

RECORDER: INSTALLED JANUARY 1, 1930 AT STATION F54-R. REMOVED JUNE 4, 1940. INSTALLED JUNE 5, 1940 AT STATION F54B-R. REMOVED DECEMBER 9, 1941. REINSTALLED DECEMBER 9, 1941 AT THE APPROXIMATE FORMER LOCATION IN A CONCRETE HOUSE AND WELL CONSTRUCTED IN THE ABUTMENT OF THE CONCRETE BRIDGE. AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO APRIL 25, 1949. A STEVENS CONTINUOUS RECORDER WAS IN SERVICE FROM APRIL 25, 1949 TO SEPTEMBER 30, 1949.

REGULATION: NONE.

DIVERSIONS: NONE.

RECORDS AVAILABLE: JANUARY 1, 1930 TO SEPTEMBER 30, 1949.

EXTREMES OF DISCHARGE:

1947-1948
MAXIMUM 276 SECOND-FEET, MARCH 24.
MINIMUM NO FLOW VARIOUS DAYS IN AUGUST AND SEPTEMBER.

1948-1949
MAXIMUM 63 SECOND-FEET, DECEMBER 26.
MINIMUM 0.01 SECOND-FOOT VARIOUS TIMES IN OCTOBER AND SEPTEMBER.

1930-1949
MAXIMUM 9,300 SECOND-FEET, ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

DISCHARGE MEASUREMENTS OF TOPANGA CREEK

MEAS. above Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 46

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
626	10-16	1430 / 1433	BOLLINGER	1.3	0.10	0.80	2.70	0.08	FLOATS	2	0		
627	10-22	1305 / 1310	"	1.3	0.09	0.56	2.71	0.05	"	2	0		
628	11-6	1419 / 1423	"	1.3	0.08	0.50	2.75	0.04	"	2	0		
629	11-20	1358 / 1402	"	1.5	0.13	0.62	2.73	0.08	"	3	0		
630	12-11	1317 / 1322	"	1.7	0.11	0.82	2.77	0.09	"	3	0		
631	1-15	1553 / 1556	"	1.8	0.16	0.69	2.71	0.11	"	3	0		
632	2-5	1218 / 1222	"	3.6	0.91	0.75	2.79	0.68	.5	5	0	FC6	
633	2-13	1613 / 1618	"	1.8	0.18	0.89	2.65	0.16	FLOATS	3	0		
634	3-17	0742 / 0750	"	8.5	4.02	1.19	2.87	4.8	.6	7	0	FC6	
635	3-18	1035 / 1041	"	3.0	0.53	0.72	2.70	0.38	.5	4	0	"	
636	3-24	1733 / 1743	BOLLINGER - PAULL	24.0	23.3	1.50	3.29	34.9	.6	13	0	"	
637	3-25	1725 / 1731	BOLLINGER	4.2	1.00	0.96	2.74	0.96	.5	4	0	"	
638	4-1	1636 / 1641	"	1.8	0.22	0.64	2.61	0.14	.5	2	0	"	
639	4-7	1025 / 1030	"	2.1	0.37	0.81	2.65	0.30	.5	3	0	"	
640	4-29	1655 / 1700	"	1.8	0.23	0.65	2.64	0.15	.5	3	0	"	
641	5-13	1445 / 1450	"	2.0	0.19	0.68	2.59	0.13	FLOATS	3	0		
642	6-16	1616 / 1620	"	1.1	0.09	0.78	2.55	0.07	"	2	0		
643	7-14	1705 / 1708	BLAKELY	1.5	0.15	0.08	2.50	0.01	.5	2	0	FC35	
644	8-24	1632 / 1635	BOLLINGER	0.70	0.04	1.00	2.51	0.04	FLOATS	1	0		

DISCHARGE MEASUREMENTS OF TOPANGA CREEK

MEAS. above Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
645	11-18	1144 / 1147	BOLLINGER	0.80	0.04	0.75	2.57	0.03	FLOATS	2	0		
646	12-17	0954 / 1008	HAIG	14.5	11.6	1.84	3.18	21.4	.6	8	+.01	FC42	
647	12-17	1507 / 1516	"	6.0	2.20	1.27	2.88	2.8	.6	7	-.02	"	
648	12-23	1545 / 1550	BOLLINGER	2.2	0.25	0.48	2.64	0.12	.5	3	0	FC6	
649	12-30	1325 / 1330	"	2.1	0.23	0.30	2.62	0.07	.5	3	0	"	
650	1-6	1636 / 1641	"	2.6	0.30	0.37	2.60	0.11	FLOATS	3	0		
651	1-13	0957 / 1004	DIAS - BOLLINGER	2.5	0.38	0.37	2.68	0.14	.5	4	0	FC6	
652	1-20	0822 / 0827	" "	10.0	5.83	0.72	2.90	4.3	.6	7	0	"	
653	1-27	1510 / 1515	BOLLINGER	2.2	0.25	0.40	2.65	0.10	.5	3	0	"	
654	2-3	1452 / 1502	DIAS - BOLLINGER	4.7	1.80	0.61	2.77	1.1	.6	9	0	"	
655	2-10	1506 / 1510	BOLLINGER	2.3	0.23	0.52	2.64	0.12	.5	3	0	"	
656	3-3	1439 / 1447	"	3.0	0.92	1.05	2.72	0.97	.5	6	0	"	
657	3-10	1540 / 1545	"	2.2	0.22	0.45	2.58	0.10	.5	3	0	"	
658	3-11	0442 / 0452	BOLLINGER - MOWER	5.5	1.94	1.19	2.81	2.3	.6	5	0	"	
659	3-17	1253 / 1256	BOLLINGER	2.3	0.22	0.77	2.60	0.17	FLOATS	3	0	"	
660	3-31	0900 / 0905	"	2.1	0.18	0.67	2.58	0.12	"	3	0	"	
661	4-14	1045 / 1050	BOLLINGER - LANG	2.0	0.17	0.47	2.55	0.08	"	3	0	"	
662	4-28	1522 / 1525	BOLLINGER	2.0	0.16	0.44	2.55	0.07	"	3	0	"	
663	5-18	1115 / 1120	"	2.5	0.29	0.52	2.65	0.15	"	4	0	"	
664	5-25	1600 / 1604	BLAKELY	2.2	0.20	0.20	2.55	0.04	.5	2	0	FC35	
665	6-2	1642 / 1647	BOLLINGER	2.0	0.19	0.32	2.54	0.06	FLOATS	3	0		
666	6-23	1105 / 1110	"	2.0	0.18	0.17	2.54	0.03	"	3	0		
667	8-4	1050 / 1053	"	1.5	0.12	0.33	2.50	0.04	"	2	0		
668	8-18	1055 / 1100	BOLLINGER	1.6	0.08	0.25	2.50	0.02	"	3	0		
669	9-29	1455 / 1500	"	1.0	0.06	0.50	2.52	0.03	"	2	0		

F. C. Dist. Form 32 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F54-R

Daily discharge, in second-feet of TOPANGA CREEK above Mouth of Canyon, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	b 0.05	0.04	0.2	0.2	0.2	0.2	f 0.1	0.1	0.2	0.1	0	0.02
2	0.05	0.04	0.2	0.2	0.2	0.2	0.1	0.1	0.6	0.1	0.01	0.03
3	0.05	0.04	0.2	0.2	0.2	0.2	0.5	0.1	0.2	0.05	0.02	0.03
4	0.05	0.04	0.9	0.2	0.2	0.2	0.4	0.1	0.2	0.05	0.02	0.03
5	0.06	0.04	1.1	0.2	0.7	0.2	0.3	0.1	0.2	0.04	0.02	0.03
6	0.06	0.04	b 1.0	0.2	0.3	0.2	0.4	0.1	0.2	0.03	0	0.03
7	0.06	0.04	0.8	0.2	b 0.2	0.2	0.3	0.1	0.2	0.02	0.02	0.03
8	0.06	0.05	0.7	0.2	0.2	0.2	0.2	0.1	0.1	0.01	0.02	0.03
9	0.07	0.05	0.6	0.2	0.2	0.2	0.2	0.1	0.1	0.01	0.02	0.03
10	0.07	0.05	b 0.3	0.2	0.2	0.2	0.4	0.1	0.1	0.01	0.02	0.03
11	0.07	0.05	f 0.1	0.2	0.2	0.1	0.2	0.2	0.1	0.01	0.02	0.01
12	0.07	0.03	0.07	0.2	0.2	0.1	0.2	0.2	0.1	0.01	0.02	0.01
13	0.08	0.03	0.05	0.2	0.2	1.6	0.1	0.2	0.1	0.01	0.02	0.02
14	0.08	0.04	0.07	0.2	0.2	0.9	0.05	0.2	0.1	0.02	0.02	0.01
15	b 0.08	0.05	0.1	0.1	0.2	b 0.3	0.05	0.2	0.1	0.02	0.02	0.01
16	f 0.07	0.05	0.1	0.1	0.2	2.3	0.04	0.2	0.1	0.02	0.02	0.01
17	0.07	0.05	0.1	0.1	0.2	7.3	0.04	0.2	0.1	0.02	0.02	0.01
18	0.05	0.07	0.1	0.2	b 0.2	f 1.5	0.04	0.2	0.1	0.02	0.03	0.01
19	0.05	0.07	0.2	0.2	0.2	1.0	0.04	0.2	0.1	0.02	0.03	0
20	0.03	0.07	0.2	0.2	0.2	0.8	0.04	0.2	0.1	0.02	b 0.03	0
21	0.02	0.07	0.1	0.2	0.2	0.5	0.05	0.2	0.1	0.02	0.03	0
22	0.03	0.07	0.1	0.2	0.2	0.4	0.05	0.2	0.1	0.02	0.03	0
23	0.05	0.07	0.07	0.2	0.2	0.4	0.05	0.2	0.1	0.02	b 0.03	0
24	0.04	0.07	0.04	0.2	0.2	23	0.05	0.2	0.1	0.01	0.04	0
25	0.04	0.07	0.05	0.2	0.2	f 1.0	0.04	0.2	0.1	0.01	0.04	0
26	0.02	0.07	0.05	0.2	0.2	0.6	0.04	0.2	0.1	0.01	0.04	0
27	0.04	0.07	0.05	0.2	0.2	0.2	0.04	0.2	0.1	0.01	0.04	0
28	0.04	0.2	0.05	0.3	0.2	0.2	0.2	0.2	0.1	0.01	0.05	0
29	0.03	0.2	0.05	0.2	0.2	0.2	0.2	0.2	0.1	0.01	0.04	0
30	0.04	0.2	0.07	0.2		0.2	0.1	0.2	0.1	0.01	0.03	0.01
31	0.04		0.2	0.2		0.1		0.2		0.01	0.03	
	1.62	2.03	7.92	6.0	6.4	44.7	4.52	5.2	4.1	0.73	0.78	0.39
MEAN	0.05	0.07	0.26	0.19	0.22	1.44	0.15	0.17	0.14	0.02	0.02	0.01
ACRE-FEET	3.2	4.0	16.	12.	13.	89.	9.0	10.	8.1	1.4	1.5	0.8

Remarks:

YEAR OR PERIOD MEAN 0.23
ACRE-FEET 168.

F. C. Dist. Form 32 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

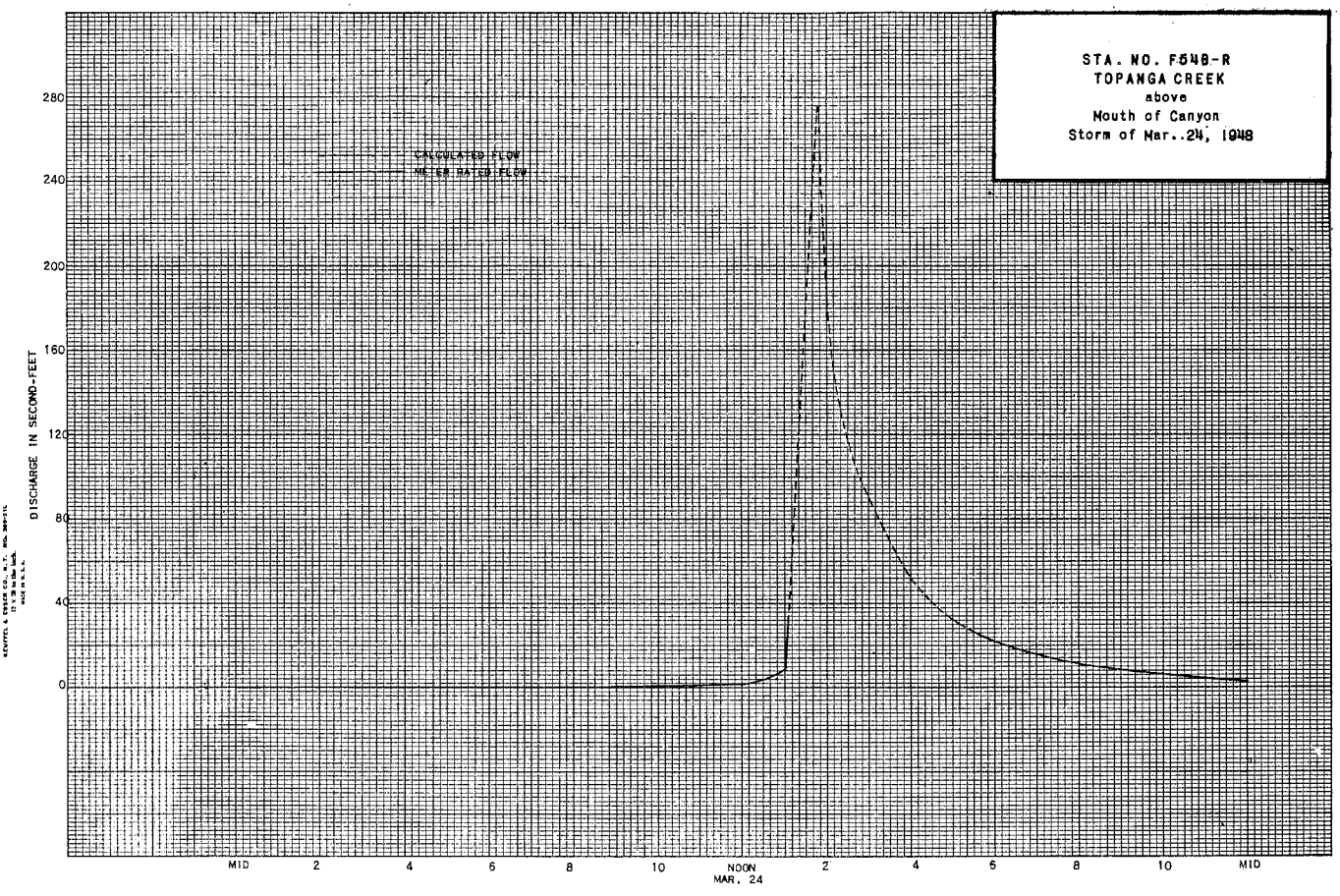
Sta. No. F54-R

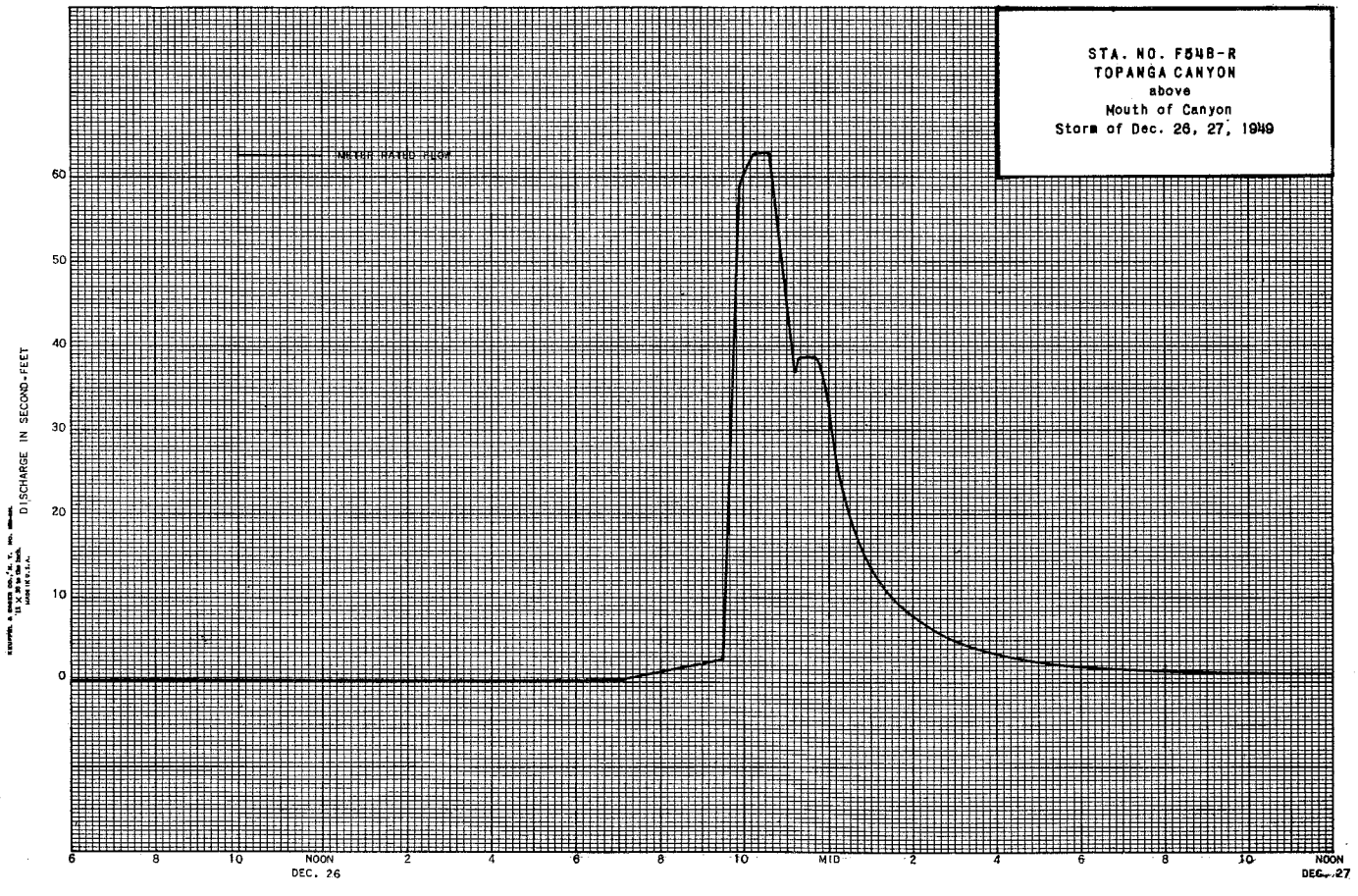
Daily discharge, in second-feet of Topanga Creek above Mouth of Canyon, for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.01	0.02	0.08	0.1	0.1	0.01	0.1	0.1	v 0.1	v 0.03	av 0.04	b 0.02
2	0.02	0.03	0.08	0.1	0.1	0.01	0.1	0.1	0.1	0.03	0.04	0.02
3	0.02	0.03	0.1	0.1	0.4	0.6	0.1	a 0.1	0.1	0.03	0.04	0.02
4	0.02	0.03	0.2	0.04	0.2	0.6	0.1	a 0.1	0.1	0.03	0.04	0.02
5	0.02	0.02	0.2	0.1	0.2	0.4	0.04	a 0.1	v 0.1	v 0.03	av 0.04	b 0.02
6	0.01	0.02	0.2	0.1	0.2	0.2	0.04	a 0.1	v 0.05	v 0.03	a 0.04	b 0.02
7	0.01	0.02	0.2	0.1	0.8	0.2	0.04	0.04	0.05	0.03	0.04	0.02
8	0.01	0.02	0.2	0.04	0.3	0.2	0.04	0.04	0.05	0.03	0.03	0.02
9	0.01	0.02	0.2	0.04	0.2	0.2	0.04	0.04	0.05	0.03	0.03	0.01
10	0.01	0.03	0.2	0.04	0.1	0.2	0.03	a 0.04	v 0.05	v 0.03	a 0.03	b 0.01
11	0.01	0.03	0.2	0.2	0.2	1.5	0.03	a 0.04	v 0.05	v 0.03	a 0.03	b 0.01
12	0.01	0.03	0.2	0.2	0.2	0.3	0.03	0.03	0.05	0.03	0.03	0.01
13	0.01	0.03	0.2	0.2	0.1	0.2	0.1	0.03	0.04	0.03	0.03	0.01
14	0.01	0.03	0.2	0.2	0.1	0.2	0.1	0.03	0.04	0.03	0.03	0.01
15	0.01	0.03	0.2	0.2	0.1	0.2	0.1	0.03	v 0.04	v 0.04	a 0.02	b 0.01
16	0.01	0.03	0.2	0.1	0.1	0.2	0.1	0.03	v 0.04	v 0.04	a 0.02	b 0.01
17	0.01	0.03	3.0	0.1	0.04	0.2	0.1	0.1	0.04	0.04	a 0.02	0.02
18	0.02	0.03	0.4	0.2	0.02	0.2	0.1	0.1	0.04	0.04	0.02	0.02
19	0.02	0.04	b 0.2	1.1	0.02	0.2	0.1	v 0.1	0.04	v 0.04	0.02	0.02
20	0.02	0.04	b 0.2	2.7	0.02	0.3	0.04	0.1	v 0.03	av 0.04	0.02	b 0.02
21	0.02	0.04	b 0.2	0.5	0.02	0.2	0.03	0.1	v 0.03	0.04	0.02	b 0.02
22	0.01	0.04	0.4	2.0	0.01	0.2	0.03	0.1	0.03	0.04	0.02	0.02
23	0.01	0.04	0.2	1.2	0.01	0.2	0.02	0.1	v 0.03	0.04	0.03	0.02
24	0.01	0.04	0.1	0.6	0.1	0.2	0.02	0.1	0.03	0.04	0.02	0.02
25	0.01	0.08	0.1	0.3	0.1	0.2	0.04	v 0.04	0.03	av 0.04	0.02	b 0.02
26	0.01	0.08	5.0	0.2	0.04	0.2	0.1	v 0.04	0.03	av 0.04	0.03	b 0.02
27	0.01	0.08	3.0	0.1	0.03	0.2	0.1	0.04	0.03	0.04	0.03	0.02
28	0.01	0.08	b 0.3	0.1	0.02	0.2	0.1	0.1	0.03	0.04	0.03	0.02
29	0.01	0.04	b 0.2	0.1		0.1	0.1	0.1	0.03	0.04	0.03	0.02
30	0.01	0.04	0.1	0.1		0.1	0.1	0.1	0.03	0.04	b 0.02	b 0.03
31	0.01		0.1	0.1		0.1		v 0.1		av 0.04	b 0.02	
	0.39	1.12	16.36	11.46	3.83	8.02	2.07	2.27	1.46	1.10	0.88	0.53
MEAN	.013	.037	0.53	0.37	0.14	0.26	0.69	.073	0.49	.035	.028	.018
ACRE-FEET	0.8	2.2	33.	23.	7.6	16	4.1	4.5	2.9	2.2	1.7	1.0

Remarks:

YEAR OR PERIOD MEAN 0.14
ACRE-FEET 99.0


STA. NO. F54B-R
TOPANGA CREEK
above
Mouth of Canyon
Storm of Mar..24, 1948
CALCULATED FLOW
METER RATED FLOW
DISCHARGE IN SECOND-FEET
280
240
200
160
120
80
40
0
MID
2
4
6
8
10
NOON
MAR. 24
2
4
5
8
10
MID


STA. NO. F54B-R
TOPANGA CANYON
above
Mouth of Canyon
Storm of Dec. 26, 27, 1949
METER RATED FLOW
DISCHARGE IN SECOND-FEET
60
50
40
30
20
10
0
6
8
10
NOON
DEC. 26
2
4
6
8
10
MID
2
4
6
8
10
NOON
DEC. 27

STATION F252-R
VERDUGO CHANNEL at Estelle Avenue

LOCATION: WATER;STAGE RECORDER. LAT. 34°09'23", LONG. 118°16'23", ON THE RIGHT (NORTH) SIDE OF CHANNEL AT ESTELLE AVENUE, 800 FEET EAST OF SAN FERNANDO ROAD, AND ABOUT 2 MILES NORTHWEST OF GLENDALE. ELEVATION OF ZERO GAGE HEIGHT, 464.78 FEET ABOVE MEAN SEA LEVEL.

DRAINAGE AREA: 22.4 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - RECTANGULAR CONCRETE, 87 FEET WIDE BY 11 FEET DEEP TO BOTTOM OF INVERT. INVERT IS 1 FOOT BELOW BOTTOM OF VERTICAL SIDE WALLS. CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM CABLE CAR 40 FEET ABOVE STATION.

RECORDER: INSTALLED DECEMBER 2, 1935 OVER A 20-INCH X 30-INCH CONCRETE WELL. AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

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, 1949. FOR EARLIER RECORDS SEE STATIONS F9-R, VERDUGO AT GLEN OAKS BOULEVARD, AND F244-R, VERDUGO AT DON CARLOS STREET.

EXTREMES OF DISCHARGE:

1947-1948
MAXIMUM 573 SECOND-FEET, MARCH 24.
MINIMUM NO FLOW PART OF YEAR.

1948-1949
MAXIMUM 202 SECOND-FEET, DECEMBER 16.
MINIMUM NO FLOW PART OF YEAR.

1935-1949
MAXIMUM 4,400 SECOND-FEET, ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: FAIR.

OPERATION: LOCATED AND CONSTRUCTED BY CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY, AND OPERATED BY LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN CO-OPERATION WITH CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY.

DISCHARGE MEASUREMENTS OF VERDUGO CHANNEL

AT ~~NEAR~~ Estelle Avenue DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
121	11-20	1656 / 1702	BLAKELY	3.5	0.26	0.77	0.09	0.20		FLOATS	2	0	
122	12-5	1121 / 1129	BLAKELY - OCAMPO	28.0	5.04	5.88	0.33	29.6		FLOATS	6	0	

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F252-R

Daily discharge, in second-feet of VERDUGO CHANNEL at Estelle Avenue, for the year ending September 30, 19 48

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	+	+	+	+	0	+				
2	+	0	+	0	+	+	0.5	0				
3	+	+	+	+	+	+	1.1	0				
4	+	+	23	+	0.3	+	+	+				
5	+	0	16.6	0.1	24	0.1	+	0				
6	+	+	0.7		7.4	+	+	0				
7	+	0	b0.1	0.1	+	+	+	0				
8	+	0	b0.1	0.1	0	+	+	0				
9	+	0	0.1	+	0.1	+	0.1	0				
10	+	+	0	0	+	0	4.7	0				
11	+	+	+	+	+	+	0.1	0				
12	+	+	+	+	+	+	0.1	0				
13	+	0.1	+	0.1	+	22	0.1	0				
14	+	+	+	0	+	10.0	+	0				
15	+	0	0.5	+	+	0.4	0	0				
16	+	+	0.2	+	+	3.2	+	0				
17	+	0.1	0.9	0	+	16.9	0	0				
18	+	0.1	0.1	0	0.1	0.3	0	0				
19	+	+	+	+	+	2.2	+	0				0
20	+	+	+	+	+	0.1	0.1	0				
21	+	+	0.1	0	+	0	+	0				
22	+	1.6	0.1	+	+	0	+	0				
23	+	+	+	+	+	+	+	0				
24	+	+	+	+	+	41	0	0				
25	0	0.1	+	+	0.1	0.1	0	0				
26	0	+	0.1	+	0.1	+	+	+				0
27	0.2	+	+	+	+	+	0	0				
28	+	+	+	+	1.1	0	9.3	0				
29	0.1	+	+	+	0.1	+	1.6	0				0.1
30	+	+	0	+		0	+	0				0.3
31	+		+	+		0		0				

Recorder stopped
Est. Max. MDQ = Less than 0.05 c.f.s.

	0.3	2.0	42.6	0.4	33.3	96.3	17.7					0.4
MEAN	0.01	0.07	1.37	0.01	1.15	3.11	0.59	+	+	+	+	0.01
ACRE-FEET	0.6	4.0	84.	0.8	66.	191.	35.	+	+	+	+	0.8

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

YEAR OR PERIOD MEAN 0.53
ACRE-FEET 382.

F. C. Dist. Form 82 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

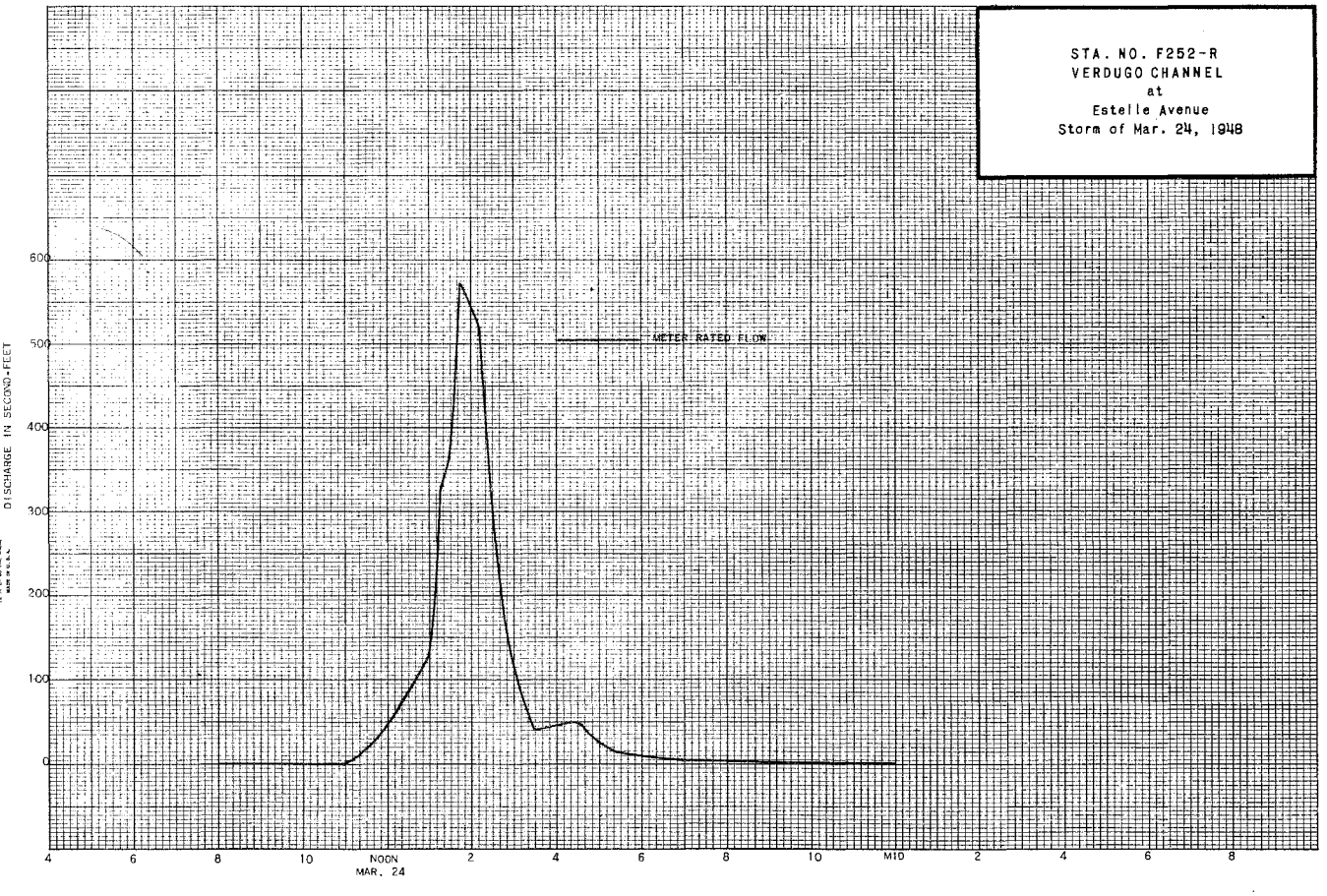
Sta. No. F252-R

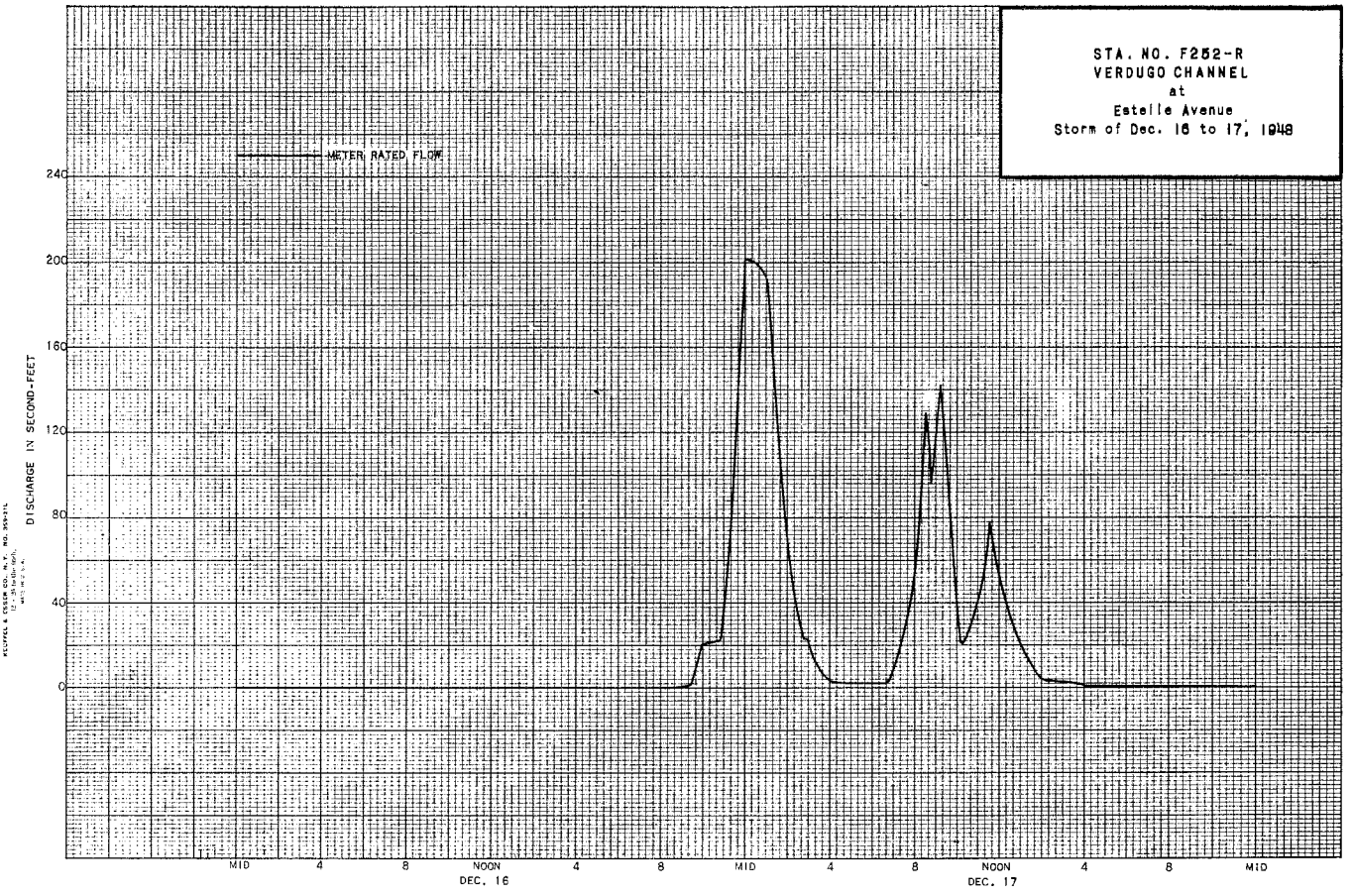
Daily discharge, in second-feet of VERDUGO CHANNEL at Estelle Avenue, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	+	+	+	0.1	+	0.1	+	+	0.1	0.1	+
2	+	0.1	+	+	0.1	1.6	0.1	+	+	0.1	0.1	0.1
3	0	+	4.8	0	2.6	1.6	+	0.1	+	0.1	0.1	0.1
4	0	+	0.1	5.8	0.2	9.2	+	+	+	0.1	0.1	+
5	+	0.1	+	0.1	0.5	0.1	+	+	0	0.1	0.1	+
6	+	0.1	0.1	0.6	+	+	+	+	0.1	0.1	0.1	+
7	0.1	0.1	0.1	0.1	4.6	0.1	+	+	0.1	0.1	+	0.1
8	0.1	+	+	+	0.1	0.1	+	+	0.1	0.1	0.1	+
9	+	0.1	+	1.1	0.1	0.1	+	+	+	+	0.1	+
10	+	0.1	0.1	0.2	+	12.5	+	+	+	+	0.6	+
11	+	0.1	+	6.2	5.4	5.9	0.1	+	+	0.1	0.1	+
12	0.1	+	0	5.4	0.1	+	+	+	+	0.1	+	0.6
13	0.1	+	+	2.8	0.5	+	0.1	0.1	0.1	0.1	+	+
14	+	+	+	1.5	0.2	+	+	0.1	+	0.1	+	+
15	+	+	0.1	0.1	+	0	0.2	+	0.1	0.1	0.1	+
16	0.1	0.1	5.9	0	0.1	0.1	+	0.1	0.1	0.1	+	+
17	+	0.1	3.5	0.1	+	0.1	+	1.3	0.1	+	0.1	0
18	1.5	0.1	0.2	+	0.1	0.1	+	5.1	+	+	+	+
19	0.1	0.1	0.1	12.2	+	2.3	+	7.1	+	0.1	+	+
20	0.2	+	+	12.9	+	0.1	0.1	0.1	+	0.1	+	+
21	+	+	+	0.1	0	0.1	0.1	+	+	+	0	0
22	0.1	0.1	3.1	3.7	0.1	+	+	0	+	0.6	0.1	0
23	+	0.1	0.1	2.8	0.2	0.1	+	+	0.1	0.1	0.1	0
24	+	0.1	0.1	0.2	5.8	1.3	+	+	0.1	+	0.1	0.1
25	+	0.1	0	+	0.1	0.1	+	+	0.1	0.1	0.1	+
26	+	0.1	7.1	0.1	7.2	+	+	+	0.1	0.1	+	+
27	+	0.1	8.1	+	0.8	0	+	+	0.1	0.1	0.1	+
28	+	+	2.5	0.2	0.1	+	+	0	0.1	0.1	0.1	0
29	0.5	0.1	0.1			+	0.1	0	0.1	0.1	0.1	+
30	2.6	0.1	+	0.1		0.1	+	0	0.1	+	0.1	+
31	+		0.1	0.1		0.1		+		0.1	+	
	5.7	1.9	67.7	56.4	28.4	35.7	0.9	14.0	1.5	2.9	2.5	1.0
MEAN	0.18	0.06	2.18	1.82	1.01	1.15	0.03	0.45	0.05	0.09	0.08	0.03
ACRE-FEET	11.	3.8	134.	112.	56.	71.	1.8	28.	3.0	5.8	5.0	2.0

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

YEAR OR PERIOD MEAN 0.60
ACRE-FEET 433.





STATION F47-R
WALNUT CREEK at Covina Boulevard

LOCATION: WATER-STAGE RECORDER, LAT. 34°03'58", LONG. 117°59'00", ON THE DOWNSTREAM SIDE OF COVINA BOULEVARD BRIDGE, ABOUT 2 MILES SOUTHWEST OF BALDWIN PARK. ELEVATION OF ZERO GAGE HEIGHT, 309.18 FEET. THIS STATION IS NEAR THE LOCATION OF THE STATION OPERATED FROM 1923 TO 1928 BY THE STATE DIVISION OF WATER RIGHTS.

DRAINAGE AREA: 102 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - SAND AND GRAVEL. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM UPSTREAM SIDE OF COVINA BOULEVARD BRIDGE.

RECORDER: INSTALLED DECEMBER 15, 1928 OVER AN 18-INCH DIAMETER CORRUGATED IRON PIPE STILLING WELL. AN H.C.F. RECORDER WAS IN SERVICE FROM OCTOBER 1, 1947 TO SEPTEMBER 30, 1949.

REGULATION: FLOW PARTIALLY REGULATED BY BIG DALTON DAM, SAN DIMAS DAM, PUDDINGSTONE DIVERSION DAM, PUDDINGSTONE DAM, AND LIVE OAK DAM. IRRIGATION COMPANIES AT TIMES SPREAD SAN GABRIEL RIVER WATER FROM THE COVINA AND AZUSA CANALS IN LITTLE DALTON WASH, AND BIG DALTON WASH, SAN DIMAS WASH, AND WALNUT CREEK.

DIVERSIONS: SOME WATER DIVERTED FOR IRRIGATION.

RECORDS AVAILABLE: DECEMBER 15, 1928 TO SEPTEMBER 30, 1949. (FOR RECORDS PRIOR TO DECEMBER 15, 1928, SEE STATE DIVISION OF WATER RIGHTS BULLETINS).

EXTREMES OF DISCHARGE:

1947-1948
MAXIMUM 232 SECOND-FEET, DECEMBER 5.
MINIMUM NO FLOW MOST OF YEAR.

1948-1949
MAXIMUM 121 SECOND-FEET, DECEMBER 17.
MINIMUM NO FLOW MOST OF YEAR.

1928-1949
MAXIMUM 8,060 SECOND-FEET, JANUARY 1, 1934.
MINIMUM NO FLOW MOST OF EACH YEAR.

ACCURACY: GOOD FOR LOW AND INTERMEDIATE FLOWS.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

DISCHARGE MEASUREMENTS OF WALNUT CREEK

AT ~~NEAR~~ Covina Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 1948

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
248	3-24	1750 / 1805	STUNDEN	TWO CHANNELS			3.10	48.6		.6	9	-.05	FC36

DISCHARGE MEASUREMENTS OF WALNUT CREEK

AT ~~NEAR~~ Covina Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 1949

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
249	12-17	1655 / 1705	STUNDEN - WILLUT	66.0	41.4	2.61	3.41	108.		.6	10	-.03	FC36
250	1-20	0850 / 0855	" "	TWO CHANNELS			2.89	2.1		.5	9	+.02	"
251	1-20	1303 / 1313	" "	13.0	7.48	1.99	2.96	14.9		.6	8	-.01	"

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F47-R

Daily discharge, in second-feet of WALNUT CREEK at Covina Boulevard, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	56	0	15	0	0	0	0	0	0	0
6	0	0	3.6	0	0.4	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	7.9	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	59.6	0	15.4	7.9	0	0	0	0	0	0
MEAN	0	0	1.92	0	0.53	0.25	0	0	0	0	0	0
ACRE-FEET	0	0	118.	0	30.5	15.7	0	0	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN 0.23
ACRE-FEET 164.

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

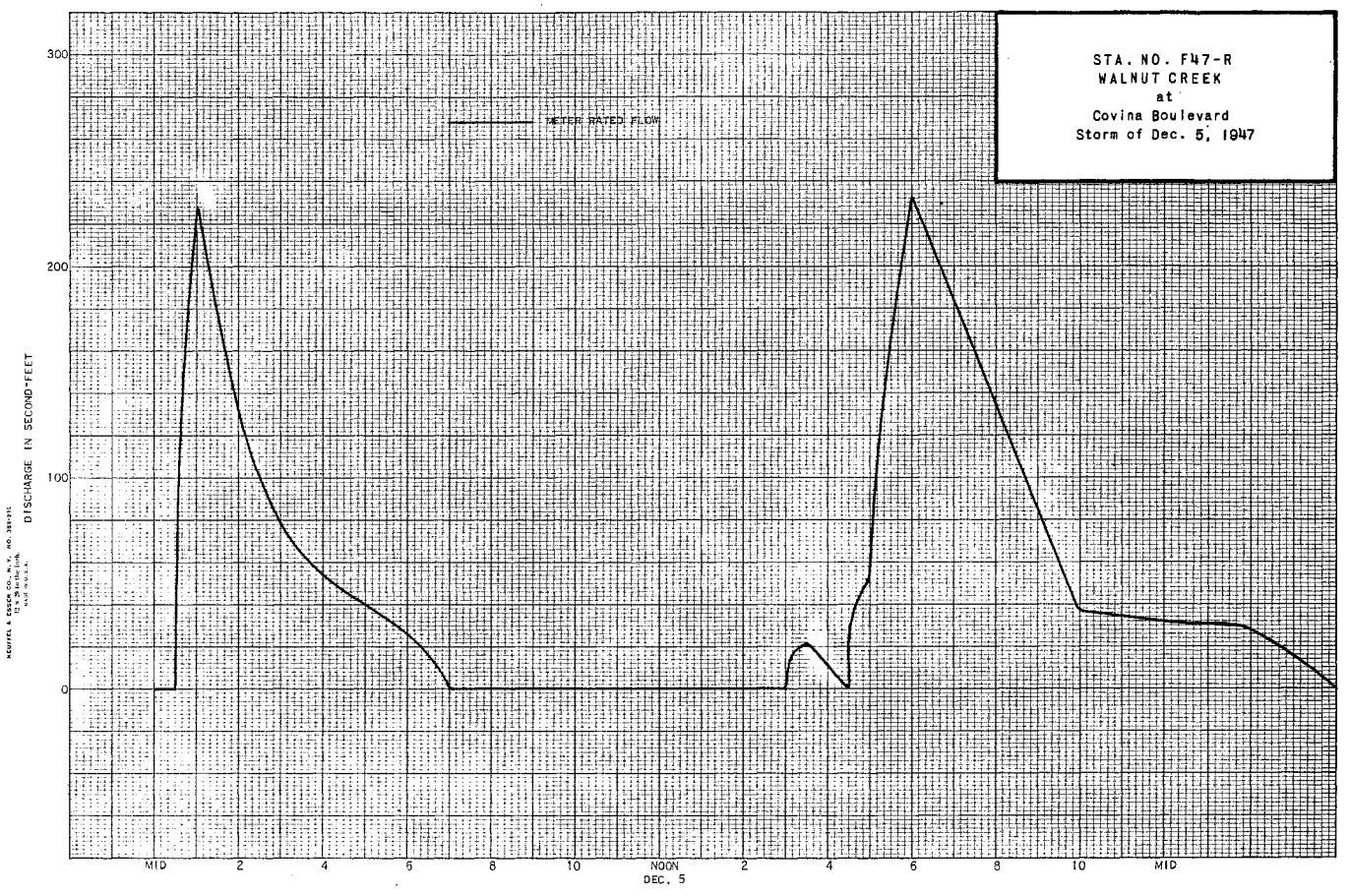
Sta. No. F47-R

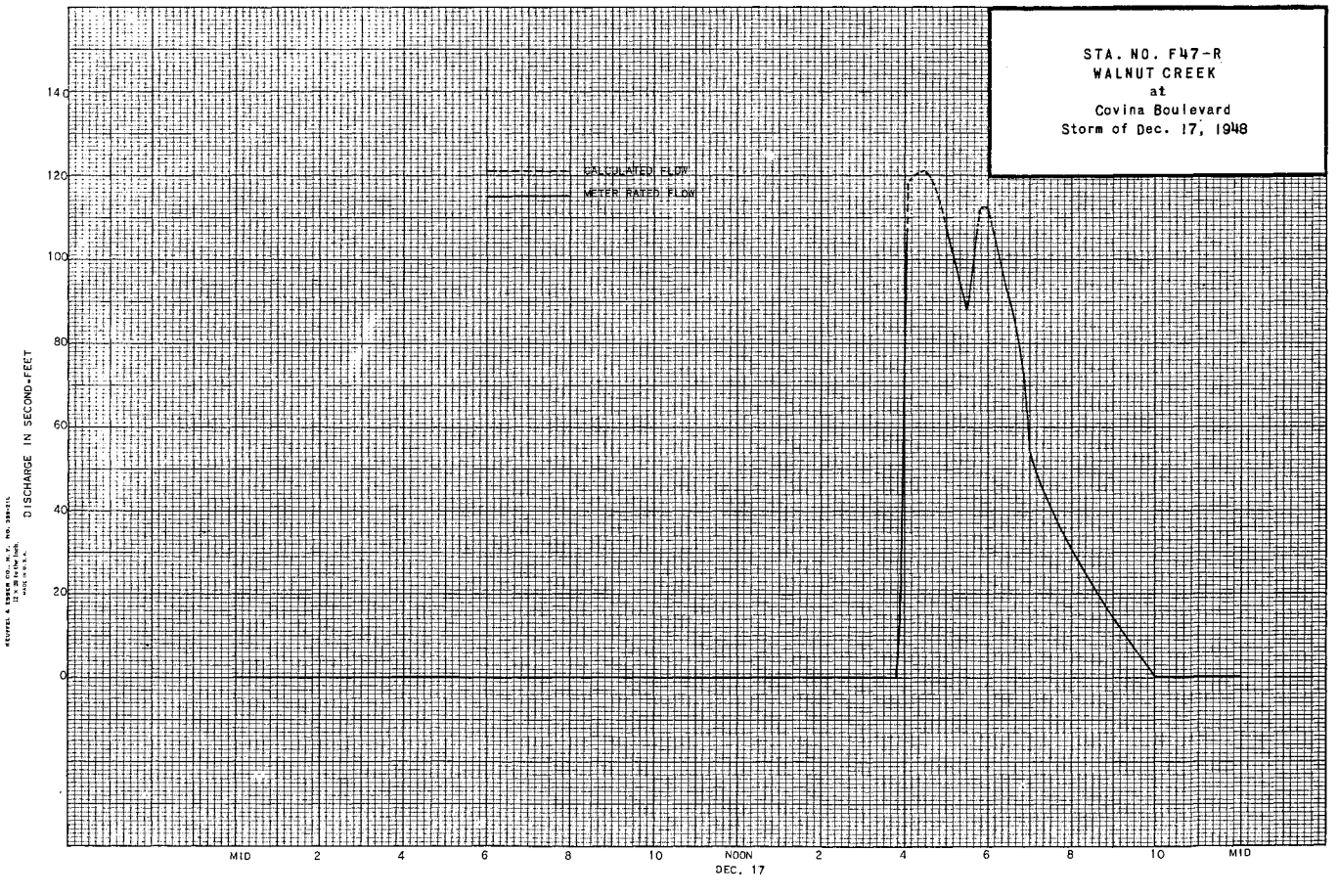
Daily discharge, in second-feet of WALNUT CREEK at Covina Boulevard, for the year ending September 30, 1949

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	2.4	0	0	0	0	0	0
5	0	0	0	0	0	0.1	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	1.6	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	5.4	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0.3	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	1.63	5.4	0	2.5	0	0	0	0	0	0
MEAN	0	0	0.53	0.17	0	0.08	0	0	0	0	0	0
ACRE-FEET	0	0	32.	11.	0	5.0	0	0	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN 0.07
ACRE-FEET 48.


STA. NO. F47-R
WALNUT CREEK
at
Covina Boulevard
Storm of Dec. 5, 1947
METER RATED FLOW
DISCHARGE IN SECOND-FEET
300
200
100
0
MID
2
4
6
8
10
NOON
2
4
6
8
10
MID
DEC. 5


STA. NO. F47-R
WALNUT CREEK
at
Covina Boulevard
Storm of Dec. 17, 1948
CALCULATED FLOW
METER RATED FLOW
DISCHARGE IN SECOND-FEET
140
120
100
80
60
40
20
0
MID
2
4
6
8
10
NOON
2
4
6
8
10
MID
DEC. 17

STAFF GAGING STATIONS

DISCHARGE MEASUREMENTS OF ARCADIA WASH F288-S

~~AT~~ NEAR Duarte Road DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
2	12-27	0010 / 0020	MOON - MIRANDA	24.0	14.0	2.50	1.48	35.0		.6	7	-.04	FC22
3	1-20	0748 / 0756	" "	25.0	20.0	2.77	1.67	55.4		.6	7	-.02	"
4	1-20	1216 / 1227	" "	25.0	13.0	2.08	1.36	27.1		.6	7	-.04	"
5	2-7	0925 / 0935	MOON	24.0	10.1	2.06	1.28	20.8		.6	7	0	"

DISCHARGE MEASUREMENTS OF ARROYO DITCH F116-S

~~AT~~ NEAR below Headgate DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
580	10-2	1120 / 1130	WADDICOR	7.5	12.1	1.45		17.5		.6	8		FC37
581	10-9	1120 / 1130	"	7.5	11.8	1.55		18.3		.6	8		"
582	10-16	1140 / 1150	"	7.5	11.7	1.50		17.6		.6	8		"
583	10-23	1135 / 1145	"	7.5	11.2	1.57		17.6		.6	8		"
584	10-30	1130 / 1140	"	7.5	9.89	1.67		16.5		.6	8		"
585	11-6	1140 / 1150	"	7.5	11.8	1.40		16.5		.6	8		"
586	11-13	1300 / 1310	"	7.5	11.7	1.43		16.7		.6	8		"
587	11-20	1145	"					0					
588	11-28	1135 / 1145	"	7.5	7.54	1.69		12.7		.6	8		FC37
589	12-4	1150	"					0					
590	12-11	1145	"					0					
591	12-18	1130	STUNDEN					0					
592	12-26	1200	WADDICOR					0					
593	1-2	1145	"					0					
594	1-8	1140	"					0					
595	1-15	1140	"					0					
596	1-22	1150	"					0					
597	1-29	1200	"					0					
598	2-13	1300	"					0					
599	2-19	1110	"					0					
600	2-26	1512 / 1522	WADDICOR - SILL	7.5	7.98	1.98		15.8		.6	8		FC37
601	3-4	1115 / 1125	WADDICOR	7.5	5.50	1.75		9.6		.6	8		"
602	3-11	1130 / 1140	"	7.5	6.55	2.08		13.6		.6	8		"
603	3-18	1145	"					0					
604	3-23	1515	"					0					
605	4-1	1135	"					0					
606	4-8	1130	"					0					
607	4-15	1130	"					0					
608	4-22	1555 / 1605	"	7.5	7.22	2.10		15.1		.6	8		FC37
609	4-29	1135	"					0					
610	5-6	1130 / 1140	"	7.5	7.66	2.06		15.8		.6	8		FC37
611	5-13	1148 / 1158	"	7.5	7.41	2.08		15.4		.6	8		"
612	5-20	1130 / 1140	"	7.5	6.17	1.99		12.3		.6	8		"
613	5-27	1205 / 1215	"	7.5	6.03	2.11		12.7		.6	8		"
614	6-2	1120 / 1130	"	7.5	7.63	2.16		16.5		.6	8		"
615	6-10	1115 / 1125	"	7.5	9.33	2.10		19.6		.6	8		"
616	6-17	1135 / 1145	"	7.5	8.26	2.02		16.6		.6	8		"
617	6-24	1140 / 1150	"	7.5	6.67	1.73		11.5		.6	8		"
618	6-30	1120 / 1130	"	7.5	6.49	1.67		10.8		.6	8		"
619	7-8	1109 / 1119	"	7.5	5.77	1.49		8.6		.6	8		"
620	7-15	1330 / 1335	WADDICOR - BARON	7.5	4.61	1.04		4.8		.6	8		"
621	7-22	1120 / 1130	WADDICOR	7.5	5.95	1.06		6.3		.6	8		"
622	7-29	1306 / 1320	WADDICOR - BONADIMAN	7.5	4.89	1.21		5.9		.6	8		"
623	8-4	1333 / 1350	BONADIMAN - LYNN	7.5	4.26	0.95		4.0		.6	8		FC19
624	8-11	1225 / 1235	BONADIMAN	6.0	3.18	1.26		4.0		.6	6		FC46
625	8-19	1405 / 1415	WADDICOR - LYNN	7.5	3.85	1.09		4.2		.6	8		FC37
626	8-26	1130 / 1140	WADDICOR	7.5	3.91	1.18		4.6		.6	8		"
627	9-2	1130 / 1140	"	7.5	3.43	1.20		4.1		.6	8		"
628	9-8	1300 / 1310	STUNDEN	7.0	3.35	1.28		4.3		.5	7		FC36
629	9-16	1140 / 1150	WADDICOR	7.5	3.87	1.21		4.7		.6	8		FC37
630	9-22	1125 / 1130	"	7.5	4.01	1.55		6.2		.6	8		"
631	9-30	1135 / 1145	"	7.5	4.53	1.41		6.4		.6	8		"

DISCHARGE MEASUREMENTS OF ARROYO DITCH F116-S

~~AT~~ NEAR below Headgate DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
632	10-7	1330 / 1340	WADDICOR	7.5	3.97	1.26		5.0		.6	8		FC37
633	10-14	1130 / 1140	"	7.5	3.87	1.37		5.3		.6	8		"
634	10-21	1125 / 1135	"	7.5	4.39	1.23		5.4		.6	8		"
635	10-28	1300 / 1310	"	7.5	4.91	1.57		7.7		.6	8		"
636	11-4	1320 / 1330	"	7.5	6.98	1.40		9.8		.6	8		"
637	11-12	1130 / 1140	"	7.5	4.02	1.32		5.3		.6	8		"
638	11-18	1155 / 1205	WADDICOR - WILLUT	7.5	5.82	1.37		8.0		.6	8		"
639	11-26	1130 / 1140	WADDICOR	7.5	5.90	1.30		7.7		.6	8		"
640	12-2	1315 / 1325	"	4.18	4.31	1.78		7.7		.6	5		"
641	12-9	1140 / 1150	"	7.5	6.26	1.48		9.3		.6	8		"
642	12-16	1148 / 1158	"	7.5	4.45	1.84		8.2		.6	8		"
643	12-30	1120	"					0					
644	1-6	1150	"					0					
645	1-27	1232	"					0					
646	2-10	1200	"					0					
647	2-17	1155	"					0					
648	2-24	1300 / 1310	"	7.5	7.37	1.66		12.2		.6	8		FC37
649	3-3	1210	"					0					
650	3-10	1525 / 1535	WADDICOR - DIAS	7.5	5.65	1.13		6.4		.6	8		FC37
651	3-17	1200	WADDICOR					0					
652	3-24	1205	"					0					
653	3-30	1140 / 1150	"	7.5	9.43	1.35		12.7		.6	8		FC37
654	4-7	1143 / 1152	WADDICOR - LANG	7.5	7.70	1.49		11.5		.6	8		"
655	4-14	1120 / 1130	WADDICOR	7.5	8.04	1.44		11.6		.6	8		"
656	4-21	1115 / 1125	"	7.5	6.00	1.55		9.3		.6	8		"
657	4-28	1120 / 1130	"	7.5	5.60	1.45		8.1		.6	8		"
658	5-5	1135 / 1145	"	7.5	5.73	1.47		8.4		.6	8		"
659	5-12	1130 / 1140	"	7.5	4.87	1.19		5.8		.6	8		"
660	5-19	1150 / 1158	"	7.5	3.97	1.31		5.2		.6	8		"
661	5-26	1135 / 1145	"	7.5	4.48	1.14		5.1		.6	8		"
662	6-1	1255 / 1305	WADDICOR - MOON	7.5	4.73	1.10		5.2		.6	8		"
663	6-9	1140 / 1150	WADDICOR	7.5	4.27	0.98		4.2		.6	8		"
664	6-16	1145 / 1155	"	7.5	5.29	1.15		6.1		.6	8		"
665	6-23	1100 / 1110	"	7.5	3.62	0.72		2.6		.6	8		"
666	6-30	1125 / 1135	"	7.5	4.00	0.75		3.0		.6	8		"
667	7-7	1315 / 1325	WADDICOR - REINHARD	7.5	3.37	0.53		1.8		.5	8		"
668	7-14	1120 / 1130	WADDICOR	7.5	4.00	0.78		3.1		.5	8		"
669	7-20	1130 / 1146	BONADIMAN	7.5	3.67	0.65		2.5		.6	8		FC46
670	7-27	1120 / 1130	"	7.5	3.70	0.60		2.2		.6	8		"
671	8-3	1100 / 1112	"	7.0	3.12	0.51		1.6		.6	8		"

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
672	8-10	1125 / 1138	"	7.5	3.40	0.41		1.4		.6	8		"
673	8-17	1120 / 1130	"	7.5	2.98	0.44		1.3		.6	8		"
674	8-24	1115 / 1125	WADDICOR	7.5	2.83	0.32		0.90		.5	8		FC37
675	8-31	1500 / 1510	"	7.5	2.94	0.33		0.98		.5	8		"
676	9-7	1110 / 1120	"	7.5	2.43	0.31		0.75		.5	8		"
677	9-14	1550 / 1557	WADDICOR - REINHARD	3.5	0.70	0.37		0.26		.5	4		"
678	9-21	1145	WADDICOR					0					
679	9-29	1130	"					0					

DISCHARGE MEASUREMENTS OF ARROYO SECO F58-S

AT ~~NEAR~~ Avenue 26 DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
161	11-6	1428 / 1432	BLAKELY	7.0	0.60	2.50		1.5	FLOATS		3		
162	11-20	1515 / 1520	"	8.0	0.65	2.31		1.5	"		3		
163	12-4	1517 / 1523	"	11.5	1.80	2.95		5.3		.5	5		FC35
164	1-22	1448 / 1455	"	8.0	0.62	2.10		1.3	FLOATS		5		
165	2-13	1450 / 1455	"	9.0	1.12	2.31		2.6	"		3		
166	2-26	1340 / 1348	"	6.8	0.80	2.50		1.5	"		3		
167	3-11	1335 / 1345	BLAKELY - SILL	8.0	0.78	1.80		1.4	"		3		
168	4-21	C819 / C822	BONADIMAN - BLAKELY	8.0	0.76	1.80		1.4	"		3		
169	5-6	1538 / 1546	BLAKELY	8.0	0.72	1.67		1.2	"		3		
170	5-20	1526 / 1536	"	9.0	1.55	0.65		1.0		.5	6		FC35
171	6-10	1105 / 1113	"	8.5	1.14	1.23		1.4		.5	6		"
172	6-24	1513 / 1517	"	8.0	0.80	0.95		0.76		.5	4		"
173	7-9	1215 / 1221	BOLLINGER	7.5	0.65	2.36		2.0	FLOATS		6		
174	8-5	1240 / 1244	BLAKELY	8.5	0.94	1.38		1.3	"		5		
175	8-25	1413 / 1420	BOLLINGER	7.0	0.53	1.85		0.98	"		4		
176	9-23	1525 / 1530	BLAKELY-VAN DER GOOT	8.0	0.70	1.85		1.3	"		4		

DISCHARGE MEASUREMENTS OF ARROYO SECO F58-S

AT ~~NEAR~~ Avenue 26 DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
177	10-7	1341 / 1347	BLAKELY	8.0	1.13	0.72		0.81		.5	6		FC35
178	10-21	1318 / 1326	"	6.8	0.61	1.97		1.2	FLOATS		7		
179	11-4	1308 / 1316	"	6.6	0.58	2.41		1.4	"		5		
180	11-18	1404 / 1408	"	8.5	0.84	0.86		0.72		.5	5		FC35
181	1-6	1335 / 1343	BLAKELY - BOTTS	7.00	0.56	1.48		0.83	FLOATS		5		
182	2-3	1535 / 1540	BLAKELY - JOHNSON	7.5	0.70	3.57		2.5	"		7		
183	2-17	1502 / 1512	BLAKELY	8.0	0.71	1.97		1.4	"		8		
184	3-17	1326 / 1333	BLAKELY - DIAS	7.8	0.64	2.19		1.4	"		6		
185	3-31	1408 / 1414	BLAKELY	8.0	0.71	2.12		1.5	"		8		
186	4-21	1431 / 1437	"	10.0	1.68	0.56		0.94		.5	5		FC35
187	5-5	1508 / 1512	"	10.0	1.61	0.50		0.81		.5	4		"
188	5-26	1346 / 1356	"	8.0	0.68	2.21		1.5	FLOATS		4		
189	6-9	1218 / 1222	BLAKELY - MIRON	9.0	1.31	3.05		4.0	"		6		
190	6-22	1540 / 1546	BOLLINGER	7.0	0.63	2.06		1.3	"		5		
191	7-7	1533 / 1540	BLAKELY	8.5	0.57	1.42		0.81	"		5		
192	7-21	1512 / 1518	"	9.0	0.75	1.60		1.2	"		7		
193	7-27	1343 / 1349	BOLLINGER	7.5	0.76	1.45		1.1	"		5		
194	8-11	1452 / 1500	BLAKELY	8.0	0.82	1.22		1.0	FLOATS		6		
195	8-25	1530 / 1536	"	8.2	0.72	1.18		0.85	"		6		
196	9-8	1030 / 1036	"	4.4	0.65	0.86		0.57		.5	4		FC35
197	9-21	1648 / 1654	BOLLINGER	5.5	0.51	1.27		0.65	FLOATS		5		

DISCHARGE MEASUREMENTS OF BANTA DITCH F87-S

AT ~~NEAR~~ Head of Pipeline DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
556	10-2	1315 / 1325	WADDICOR	4.5	5.22	2.39		12.5		.6	5		FC37
557	10-9	1050 / 1100	"	4.5	4.55	2.22		10.1		.6	5		"
558	10-16	1305 / 1315	"	4.5	2.88	1.32		3.8		.6	5		"
559	10-23	1055 / 1105	"	4.5	4.98	2.45		12.2		.6	5		"
560	10-30	1100 / 1110	"	4.5	5.04	2.38		12.0		.6	5		"
561	11-6	1100 / 1110	"	4.5	2.50	1.12		2.8		.6	5		"
562	11-13	1320 / 1330	"	4.5	4.98	2.07		10.3		.6	5		"
563	11-20	1110 / 1120	"	4.5	4.64	2.14		9.9		.6	5		"
564	11-28	1100 / 1110	"	4.5	4.34	2.14		9.3		.6	5		"
565	12-4	1330 / 1340	"	4.5	4.72	2.18		10.3		.6	5		"
566	12-11	1320 / 1330	"	4.5	1.16	0.44		0.51		.6	5		"
567	12-18	1215 / 1220	STUNDEN	6.0	3.48	0.28		0.98		.6	4		FC36
568	12-26	1128 / 1138	WADDICOR	4.5	1.00	1.10		1.1		.5	5		FC37
569	1-2	1115 / 1125	"	4.5	1.17	0.67		0.78		.5	5		"
570	1-8	1110 / 1120	"	4.5	1.17	0.61		0.71		.5	5		"
571	1-15	1115 / 1125	"	4.5	1.08	0.75		0.81		.5	5		"
572	1-22	1115 / 1125	"	4.5	5.22	2.62		13.7		.6	5		"
573	1-29	1120 / 1130	"	4.5	5.69	2.53		14.4		.6	5		"
574	2-13	1520 / 1530	"	4.6	2.70	1.70		4.6		.6	5		"
575	2-19	1045 / 1055	"	4.5	3.33	1.53		5.1		.6	5		"
576	2-26	1300 / 1310	SILL - WADDICOR	4.5	2.95	1.22		3.6		.6	5		"
577	3-4	1320 / 1328	WADDICOR	4.5	5.14	2.80		14.4		.6	5		"
578	3-11	1320 / 1330	"	4.5	5.04	2.66		13.4		.6	5		"
579	3-18	1127 / 1137	"	4.5	5.31	3.02		16.0		.6	5		"
580	3-23	1445 / 1455	"	4.5	5.40	2.59		14.0		.6	5		"
581	4-1	1110 / 1120	"	4.5	7.20	2.57		18.5		.6	5		"
582	4-8	1110 / 1120	"	4.5	6.03	3.04		18.3		.6	5		"
583	4-15	1058 / 1108	"	4.5	4.36	2.11		9.2		.6	5		"
584	4-22	1520 / 1530	"	4.5	4.87	2.30		11.2		.6	5		"
585	4-29	1100 / 1110	"	4.5	4.71	2.06		9.7		.6	5		"
586	5-6	1108 / 1115	"	4.5	2.70	1.45		3.9		.6	5		"
587	5-13	1120 / 1130	"	11.0	13.8	0.62		8.6		.6	6		"
588	5-20	1050 / 1100	"	11.3	15.5	0.92		14.3		.6	7		"
589	5-27	1130 / 1140	"	11.5	10.7	1.14		12.2		.6	7		"
590	6-2	1100 / 1110	"	4.5	4.61	2.40		11.1		.6	5		"
591	6-10	1030 / 1040	"	4.5	4.00	2.15		8.6		.6	5		"
592	6-17	1110 / 1120	"	4.5	4.17	2.18		9.1		.6	5		"
593	6-24	1115 / 1125	"	4.5	4.30	2.26		9.7		.6	5		"
594	6-30	1055 / 1105	"	4.5	4.09	2.08		8.5		.6	5		"
595	7-8	1030 / 1040	"	4.5	3.95	2.15		8.5		.6	5		"
596	7-15	1110 / 1118	WADDICOR - BARON	4.5	4.03	2.03		8.2		.6	5		"
597	7-22	1100 / 1110	WADDICOR	4.5	4.07	2.21		9.0		.6	5		"
598	7-29	1240 / 1250	WADDICOR - BONADIMAN	4.5	4.04	2.30		9.3		.6	5		"
599	8-4	1310 / 1320	BONADIMAN - LYNN	4.5	3.54	2.32		8.2		.6	6		FC19
600	8-11	1148 / 1156	BONADIMAN	4.5	3.45	1.97		6.8		.6	5		FC46
601	8-19	1345 / 1353	WADDICOR	4.5	3.85	2.34		9.0		.6	5		FC37
602	8-26	1110 / 1120	"	4.5	3.90	1.95		7.6		.6	5		"
603	9-2	1105 / 1115	"	4.5	3.79	1.95		7.4		.6	5		"
604	9-8	1220 / 1230	STUNDEN	9.0	10.8	1.02		11.0		.6	9		FC36
605	9-16	1110 / 1120	WADDICOR	4.5	3.74	2.03		7.6		.6	5		FC37
606	9-22	1100 / 1110	"	4.5	3.76	1.81		6.8		.6	5		"
607	9-30	1115 / 1123	"	4.5	3.70	1.92		7.1		.6	5		"

DISCHARGE MEASUREMENTS OF -BANTA DITCH F87-S

AT NEAR Head of Pipeline DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
608	10-7	1140 / 1147	WADDICOR	4.5	3.84	2.06		7.9		.6	5		FC37
609	10-14	1110 / 1120	"	4.5	3.86	2.10		8.1		.6	5		"
610	10-21	1100 / 1110	"	4.5	3.83	2.04		7.8		.6	5		"
611	10-28	1050 / 1100	"	4.5	3.87	1.99		7.7		.6	5		"
612	11-4	1122 / 1132	"	4.5	4.07	2.06		8.4		.6	5		"
613	11-12	1058 / 1107	"	4.5	4.33	2.05		8.9		.6	5		"
614	11-18	1125 / 1132	WADDICOR - WILLUT	4.5	3.98	2.31		9.2		.6	5		"
615	11-26	1110 / 1120	WADDICOR	4.5	4.01	2.14		8.6		.6	5		"
616	12-2	1115 / 1125	WADDICOR	4.5	3.87	2.04		7.9		.6	5		"
617	12-9	1120 / 1130	"	4.5	4.05	2.22		9.0		.6	5		"
618	12-16	1120 / 1130	"	4.5	3.88	2.11		8.2		.6	5		"
619	12-30	1420 / 1430	"	4.5	2.25	1.11		2.5		.6	5		"
620	1-8	1100 / 1110	"	4.5	1.53	0.78		1.2		.6	5		"
621	1-27	1250	"					0					
622	2-10	1140	"					0					
623	2-17	1135	"					0					
624	2-24	1135	"					0					
625	3-3	1148	"					0					
626	3-10	1228	"					0					
627	3-17	1132	"					0					
628	3-24	1232						0					
629	3-30	1320	"					0					
630	4-14	1300 / 1308	"	4.5	3.32	1.66		5.5		.6	5		FC37
631	4-21	1035 / 1045	"	4.5	4.06	2.14		8.7		.6	5		"
632	4-28	1050 / 1100	"	4.5	4.26	2.28		9.7		.6	5		"
633	5-5	1112 / 1120	"	4.5	4.10	2.20		9.0		.6	5		"
634	5-12	1105 / 1115	"	4.5	3.70	2.02		7.5		.6	5		"
635	5-19	1130 / 1140	"	4.5	4.44	1.98		8.8		.6	5		"
636	5-26	1115 / 1124	"	4.5	3.91	2.22		8.7		.6	5		"
637	6-1	1330 / 1338	WADDICOR - MOON	4.5	3.42	1.90		6.5		.6	5		"
638	6-9	1118 / 1128	WADDICOR	4.5	3.60	1.97		7.1		.6	5		"
639	6-16	112C / 1130	"	4.5	3.30	1.85		6.1		.6	5		"
640	6-23	1028 / 1038	"	4.5	3.18	1.54		4.9		.6	5		"
641	6-30	1105 / 1115	"	4.5	3.08	1.69		5.2		.6	5		"
642	7-7	1358 / 1405	WADDICOR - REINHARD	4.5	2.68	1.42		3.8		.6	5		"
643	7-14	1035 / 1045	WADDICOR	4.5	2.69	1.34		3.6		.6	5		"
644	7-20	1300 / 1310	BONADIMAN	4.5	2.38	1.60		3.8		.6	6		FC46
645	7-27	1300 / 1308	"	4.5	1.89	1.16		2.2		.6	6		"
646	8-3	1300 / 1310	"	4.5	1.92	1.20		2.3		.6	6		"
647	8-10	1310 / 1320	"	4.5	1.87	1.17		2.2		.6	6		"
648	8-17	1320 / 1330	"	4.5	1.93	1.19		2.3		.6	6		"
649	8-24	1040 / 1050	WADDICOR	4.5	2.44	1.15		2.8		.6	5		FC37
650	8-31	1600 / 1610	"	4.5	2.27	1.01		2.3		.6	5		"
651	9-7	1030 / 1038	"	4.5	1.88	1.44		2.7		.6	5		"
652	9-14	1357 / 1405	REINHARD - WADDICOR	4.5	2.15	1.02		2.2		.5	5		"
653	9-21	1120 / 1128	WADDICOR	4.5	1.87	1.18		2.2		.6	5		"
654	9-29	1100 / 1106	"	4.5	1.84	0.98		1.8		.5	5		"

DISCHARGE MEASUREMENTS OF BIG ROCK CREEK F171-S

AT NEAR Pearblossom Highway below Valvermo Diversion DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
10	12-10	1505 / 1515	LUCE	12.5	5.08	1.04		5.3		.6	6		FC39
11	12-23	1320 / 1325	"	11.5	4.45	0.99		4.4		.6	6		"
12	1-14	1500 / 1510	"	8.5	2.78	1.73		4.8		.6	6		"
13	1-28	1505 / 1510	"	11.0	3.64	0.85		3.1		.6	6		"
14	2-26	1410 / 1415	"	9.2	6.43	0.89		5.7		.6	5		"
15	3-10	1405 / 1410	"	11.2	3.11	1.38		4.3		.6	5		"
16	3-23	1150 / 1155	"	15.0	4.47	1.19		5.3		.6	7		"
17	4-7	1505 / 1510	"	10.5	4.02	1.39		5.6		.6	6		"
18	4-16	1310 / 1315	"	TWO CHANNELS				5.0		.6	9		"
19	5-12	1345 / 1355	"	8.0	1.99	0.75		1.5		.6	5		"

DISCHARGE MEASUREMENTS OF BIG ROCK CREEK F171-S

AT NEAR below Valvermo Diversion DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
20	1-5	1415 / 1420	LUCE	9.0	2.43	0.86		2.1		.6	7		FC39
21	1-19	1015 / 1020	"	13.0	3.54	0.90		3.2		.6	9		"
22	2-16	1105 / 1110	"	10.0	4.18	1.05		4.4		.6	7		"
23	3-2	1520 / 1525	"	14.0	4.79	1.23		5.9		.6	8		"
24	3-16	1025 / 1030	"	14.0	4.31	1.30		5.6		.6	6		"
25	3-29	1525 / 1530	"	15.1	5.18	1.20		6.2		.6	8		"
26	4-13	1340 / 1350	"	15.5	6.58	1.61		10.6		.6	8		"
27	4-27	1455 / 1505	"	15.5	5.92	1.49		8.8		.6	9		"
28	5-11	1045 / 1055	"	9.5	2.90	0.72		2.1		.6	8		"
29	5-26	1550 / 1605	"	TWO CHANNELS				0.78		.6	8		"

DISCHARGE MEASUREMENTS OF BIG ROCK CREEK F143-S

AT NEAR above Pallette Creek DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
125	10-15	1545 / 1555	LUCE	11.5	6.62	0.89		5.9		.6	6		FC39
126	11-12	1525 / 1535	"	9.5	6.12	0.86		5.3		.6	6		"
127	12-10	1630 / 1640	"	10.5	6.34	1.42		9.0		.6	6		"
128	12-23	1510 / 1520	"	10.5	6.16	1.44		8.9		.6	6		"
129	1-14	1420 / 1430	"	10.5	6.10	1.41		8.6		.6	5		"
130	1-28	1345 / 1355	"	9.5	5.40	1.30		7.0		.6	6		"
131	2-10	1420 / 1430	"	9.5	5.77	1.40		8.1		.6	6		"
132	2-26	1520 / 1530	"	8.5	5.51	1.74		9.6		.6	6		"
133	3-10	1530 / 1540	"	12.0	6.83	1.27		8.7		.6	6		"
134	3-23	1435 / 1440	"	10.0	6.18	1.73		10.7		.6	8		"
135	4-7	1615 / 1625	"	12.0	7.04	1.63		11.5		.6	7		"
136	4-16	1405 / 1415	"	12.5	6.51	1.44		9.4		.6	8		"
137	4-30	1030 / 1040	"	14.5	11.7	2.17		25.4		.6	8		"
138	5-12	1455 / 1505	"	11.5	5.67	0.85		4.8		.6	6		"
139	5-27	1040 / 1050	"	11.0	4.86	0.91		4.4		.6	6		"
140	6-10	1410 / 1420	"	11.2	6.28	0.57		3.6		.6	6		"
141	7-15	1215 / 1225	"	12.0	5.58	0.65		3.6		.6	6		"
142	8-11	1340 / 1350	"	8.0	2.82	1.28		3.6		.6	7		"
143	9-10	1425 / 1435	"	8.0	1.91	1.36		2.6		.6	5		"

DISCHARGE MEASUREMENTS OF BIG ROCK CREEK F143-S

AT NEAR above Pailette Creek DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
144	10-15	1510 / 1520	LUCE	8.0	2.37	1.27		3.0		.6	7		FC39
145	11-9	1420 / 1430	"	8.0	2.38	1.47		3.5		.6	6		"
146	11-26	1630 / 1640	"	6.5	2.08	1.34		2.8		.6	6		"
147	1-5	1520 / 1530	"	11.0	3.31	1.03		3.4		.6	6		"
148	1-19	1155 / 1205	"	8.6	3.87	0.83		3.2		.6	6		"
149	2-2	1450 / 1500	"	7.8	2.57	1.32		3.4		.6	7		"
150	2-16	1350 / 1400	"	8.0	2.83	1.66		4.7		.6	7		"
151	3-2	1630 / 1635	"	10.3	4.37	2.10		9.2		.6	5		"
152	3-16	1235 / 1245	"	10.0	5.21	1.96		10.2		.6	6		"
153	3-29	1705 / 1715	"	10.0	5.29	1.72		9.1		.6	8		"
154	4-13	1445 / 1455	"	14.0	10.4	1.19		12.4		.6	8		"
155	4-27	1605 / 1615	"	15.5	11.1	0.95		10.5		.6	8		"
156	5-11	1245 / 1255	"	9.0	3.64	1.40		5.1		.6	8		"
157	5-26	1715 / 1725	"	9.0	3.11	1.22		3.8		.6	8		"
158	6-8	1610 / 1620	"	9.4	3.13	1.09		3.4		.6	9		"
159	6-24	1645 / 1654	TURNER	7.8	4.02	0.55		2.2		.6	9		FC43
160	7-6	0840 / 0845	LUCE	8.8	3.17	1.13		3.6		.6	8		FC39
161	8-10	1610 / 1620	"	9.0	2.77	1.12		3.1		.6	7		"
162	9-8	1605 / 1610	"	9.5	2.65	0.98		2.6		.6	9		"
163	9-29	1145 / 1155	"	9.0	2.64	0.91		2.4		.6	9		"

DISCHARGE MEASUREMENTS OF BIG ROCK CREEK F296-S

AT NEAR East line Sect. 6; 4N-6W DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1	2-16	1245 / 1250	LUCE	4.5	1.35	0.52		0.70		.6	5		FC39
2	3-2	1550 / 1555	"	9.0	3.12	0.93		2.9		.6	6		"
3	3-16	1130 / 1135	"	8.5	3.67	1.09		4.0		.6	5		"
4	3-29	1610 / 1620	"	9.0	3.47	1.07		3.7		.6	5		"
5	4-13	1425 / 1435	"	10.0	4.55	1.45		6.6		.6	6		"
6	4-27	1520 / 1528	"	10.5	5.29	1.29		6.8		.6	7		"
7	5-11	1130 / 1135	"	7.3	1.64	0.53		0.87		.6	6		"

DISCHARGE MEASUREMENTS OF BIG ROCK CREEK F183-S

AT NEAR Palmdale - Victorville Road DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
40	2-26	1605 / 1610	LUCE	4.0	0.83	0.63		0.52		.6	4		FC39

DISCHARGE MEASUREMENTS OF BOUQUET CREEK F284-S

AT NEAR 1.5 miles above Texas Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1	10-9	1100 / 1105	LUCE	5.0	1.65	0.85		1.4		.6	6		FC39
2	10-23	1110 / 1115	"	4.5	0.99	0.77		0.76		.6	5		"
3	11-20	1015 / 1020	"	5.2	1.36	0.81		1.1		.6	5		"
4	12-18	1050 / 1055	"	5.5	1.48	0.81		1.2		.6	5		"
5	12-31	1030 / 1035	"	5.2	1.63	0.67		1.1		.6	5		"
6	1-22	1030 / 1035	"	5.5	2.04	0.59		1.2		.6	6		"
7	3-17	1505 / 1510	"	5.0	0.94	0.56		0.53		.6	5		"

DISCHARGE MEASUREMENTS OF BOUQUET CREEK F284-S

AT NEAR 1.5 miles above Texas Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
8	5-12	1035 / 1040	LUCE	5.0	0.94	0.90		0.85		.6	4		FC39
9	6-16	1005 / 1010	"	9.5	2.86	1.89		5.4		.6	8		"
10	6-23	1205 / 1211	TURNER	4.5	0.60	0.42		0.25		.5	5		FC43

DISCHARGE MEASUREMENTS OF BOUTON CREEK F297-S

AT NEAR Palo Verde Avenue DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1	3-11	0900 / 0910	JOHNSON - BONADIMAN	4.35	3.52	1.93		6.8		.6	5		FC19
2	4-7	1432 / 1436	BONADIMAN	2.0	0.80	0.80		0.64		.5	2		"

DISCHARGE MEASUREMENTS OF BURBANK WESTERN STORM DRAIN F285-S

AT NEAR Riverside Drive DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
19	10-2	1324 / 1332	BLAKELY	14.0	4.61	1.00		4.6		.5	8		FC35
20	10-9	1312 / 1320	"	13.8	4.77	0.92		4.4		.5	8		"
21	10-16	1300 / 1308	"	13.9	4.79	0.88		4.2		.5	8		"
22	10-23	1326 / 1333	"	14.2	4.93	0.85		4.2		.5	6		"
23	11-6	1248 / 1254	"	14.1	4.97	0.79		3.9		.5	6		"
24	11-13	1318 / 1324	"	14.4	5.10	0.80		4.1		.5	6		"
25	11-20	1430 / 1436	"	14.6	4.74	0.78		3.6		.5	6		"
26	11-26	1315 / 1321	"	34.0	3.05	1.37		4.2		FLOATS	5		
27	12-18	1305 / 1313	"	16.0	1.76	2.10		3.7		"	4		
28	4-22	1214 / 1218	"	17.0	2.42	1.28		3.1		.5	4		FC35
29	5-13	1120 / 1125	"	16.0	2.88	1.60		4.6		.5	4		"
30	6-17	1327 / 1333	"	16.0	2.24	1.52		3.4		.5	6		"
31	6-30	1425 / 1433	"	17.0	2.45	1.14		2.8		.5	5		"
32	7-9	1027 / 1036	BOLLINGER	13.5	1.90	1.21		2.4		SURF.	6		FC6
33	7-15	1413 / 1419	BLAKELY	16.0	2.58	1.28		3.3		.5	6		FC35
34	7-29	1414 / 1420	"	16.0	2.93	1.02		3.0		.5	6		"
35	8-11	1204 / 1215	BOLLINGER	15.0	2.83	0.99		2.8		.5	7		FC6
36	8-18	1217 / 1227	"	16.0	2.79	1.15		3.2		.5	8		"
37	8-25	1220 / 1234	"	18.5	3.25	1.11		3.6		.5	8		"
38	8-31	1100 / 1110	"	29.0	9.70	0.39		3.8		.6	6		"
39	9-16	1350 / 1356	BLAKELY	16.0	2.71	1.14		3.1		.5	5		FC35
40	9-30	1313 / 1317	"	16.0	2.72	1.18		3.2		.5	4		"

DISCHARGE MEASUREMENTS OF BURBANK WESTERN STORM DRAIN F285-S

AT Riverside Drive DURING THE YEAR ENDING SEPTEMBER 30, 1949

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
41	10-14	1256 / 1302	BLAKELY	16.0	2.40	1.29		3.1		.5	4		FC35
42	10-28	1135 / 1141	"	14.0	2.00	1.45		2.9		.5	4		"
43	11-24	1300 / 1306	"	16.0	2.55	1.02		2.6		.5	6		"
44	12-2	1336 / 1346	"	18.0	3.06	1.11		3.4		.5	9		"
45	1-6	1245 / 1255	BOTTS - BLAKELY	14.0	1.53	1.63		2.5		.5	4		"
46	4-14	1248 / 1254	BLAKELY	10.0	2.50	1.16		2.9		.5	5		"
47	5-12	1215 / 1221	"	10.0	2.00	1.10		2.2		.5	5		"
48	6-2	1420 / 1424	"	16.0	2.80	1.21		3.4		.5	4		"
49	6-15	1256 / 1305	BOLLINGER	15.0	1.48	2.43		3.6	FLOATS	5			
50	6-30	1255 / 1305	BLAKELY	14.0	1.86	2.58		4.8	"	5			
51	7-27	1030 / 1040	BOLLINGER	16.5	2.03	1.58		3.2	"	4			
52	8-3	1103 / 1115	"	16.0	2.78	1.83		5.1	"	6			
53	8-11	1230 / 1236	BLAKELY	16.0	2.64	1.06		2.8		.5	4		FC35
54	8-25	1230 / 1236	"	18.0	2.94	1.09		3.2		.5	5		"
55	9-8	1310 / 1318	"	18.0	2.98	1.21		3.6		.5	7		"
56	9-15	1137 / 1148	BOLLINGER	18.0	2.96	1.11		3.3		.5	8		FC6
57	9-21	1437 / 1448	"	18.5	3.21	1.09		3.5		.5	7		"

DISCHARGE MEASUREMENTS OF ELIZABETH LAKE CREEK F141-S

above Dry Gulch DURING THE YEAR ENDING SEPTEMBER 30, 1948

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
121	10-30	1125 / 1127	LUCE	1.7	0.17	0.24		0.04		.6	2		FC39
122	12-4	1030 / 1035	"	2.2	0.24	0.54		0.13		.6	2		"
123	12-18	1210 / 1215	"	2.0	0.32	0.38		0.12		.6	4		"
124	12-31	1305 / 1310	"	5.0	0.96	1.25		1.2		.6	5		"
125	1-8	1045 / 1050	"	5.0	0.94	0.87		0.82		.6	5		"
126	1-15	1130 / 1135	"	5.0	1.06	0.82		0.87		.6	4		"
127	1-22	1225 / 1230	"	5.0	1.05	0.82		0.86		.6	5		"
128	1-29	1330 / 1335	"	5.0	1.08	0.93		1.0		.6	6		"
129	2-5	1540 / 1545	"	6.0	1.90	1.32		2.5		.6	6		"
130	2-11	1140 / 1145	"	5.0	1.37	1.17		1.6		.6	5		"
131	2-27	1340 / 1345	"	6.0	1.30	0.77		1.0		.6	5		"
132	3-4	1405 / 1410	"	5.2	1.36	0.81		1.1		.6	5		"
133	3-11	1445 / 1450	"	6.0	1.64	0.91		1.5		.6	6		"
134	3-17	1550 / 1555	"	7.0	2.68	1.57		4.2		.6	7		"
135	3-25	1637 / 1647	"	13.0	4.86	1.87		9.1		.6	6		"
136	3-31	1316 / 1325	"	11.0	2.98	0.57		1.7		.6	7		"
137	4-8	1325 / 1330	"	8.5	2.20	1.27		2.8		.6	5		"
138	4-15	1335 / 1339	"	5.5	1.99	0.90		1.8		.6	5		"
139	4-28	1115 / 1120	"	5.5	2.08	0.87		1.8		6	5		"
140	5-6	1135 / 1140	"	4.0	0.73	0.96		0.70		.6	4		"
141	5-13	1240 / 1245	"	4.2	0.53	0.66		0.36		.6	4		"
142	5-20	1100 / 1105	"	4.5	0.64	0.80		0.51		.6	5		"
143	5-26	1430 / 1435	"	3.0	0.29	0.45		0.13		.6	4		"
144	6-4	1345 / 1350	"	4.5	0.63	0.81		0.51		.5	5		"
145	6-9	1425 / 1427	"	1.2	0.12	0.33		0.04		.6	2		"

DISCHARGE MEASUREMENTS OF ELIZABETH LAKE CREEK F141-S

above Dry Gulch DURING THE YEAR ENDING SEPTEMBER 30, 1948

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
146	2-17	1645 / 1650	LUCE	7.5	1.34	0.72		0.96		.6	5		FC39
147	3-3	1345 / 1355	"	15.5	5.23	1.55		8.1		.6	8		"
148	3-17	1310 / 1320	"	7.0	2.48	1.57		3.9		.6	7		"
149	3-24	1400 / 1405	"	6.5	2.58	1.51		3.9		.6	7		"
150	4-7	1140 / 1145	"	7.0	1.90	1.21		2.3		.6	7		"
151	4-18	1145 / 1150	"	6.0	1.59	1.38		2.2		.6	5		"
152	4-21	1420 / 1425	"	5.5	1.12	1.07		1.2		.6	5		"
153	4-28	1320 / 1325	"	5.0	1.04	0.69		0.72		.6	5		"
154	5-5	1330 / 1335	"	4.0	0.75	0.69		0.52		.6	5		"
155	5-19	1030 / 1035	"	5.0	1.16	0.86		1.0		.6	5		"

DISCHARGE MEASUREMENTS OF EVEY CREEK F296-S

above Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 1949

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1	12-30	1230 / 1235	STUNDEN	1.0	0.20	0.75		0.15		.5	1		FC36
2	2-2	1435 / 1438	"	1.8	0.36	0.78		0.28		.5	4		"
3	3-24	1345 / 1349	"	1.0	0.25	1.40		0.34		.5	2		"
4	5-12	1230	"				0.41	0.28		V NOTCH WEIR			
5	6-8	1330					0.35	0.19		"			
6	7-7	1215	"				0.18	0.04		"			
7	8-4	1350	"				0.17	0.03		"			

DISCHARGE MEASUREMENTS OF MILL CREEK F112-S

above Blg Tujunga Creek DURING THE YEAR ENDING SEPTEMBER 30, 1948

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
238	10-9	1335 / 1338	STUNDEN	0.60	0.21	0.57	1.63	0.12		FLOAT	1	0	
239	10-15	1500 / 1503	TURNER	0.70	0.29	0.48	1.66	0.14		FLOAT	1	0	
240	10-22	1450 / 1453	"	0.70	0.27	0.48		0.13		FLOAT	1		
241	11-5	1530 / 1535	"	0.80	0.35	1.05	1.70	0.37		.5	1	0	FC43
242	11-12	1415 / 1420	"	2.2	0.61	0.70		0.43		.5	3		"
243	11-19	1115 / 1118	"	2.2	0.61	0.79		0.48		.5	4		"
244	11-26	1313 / 1318	"	2.3	0.57	0.81		0.46		.6	4		"
245	12-3	1150 / 1156	"	2.5	0.70	0.89		0.62		.5	5		"
246	12-10	1410 / 1416	"	3.5	0.73	0.96	2.79	0.70		.5	5	0	"
247	12-17	1044 / 1050	"	1.7	1.07	0.57		0.61		.6	3		"
248	12-23	1325 / 1330	"	1.9	0.86	0.62	1.78	0.53		.6	3	0	"
249	12-30	1445 / 1448	"	1.7	1.01	0.54		0.55		.6	3		"
250	1-7	1020 / 1023	"	1.7	1.10	0.61		0.67		.6	3		"
251	1-14	1405 / 1408	"	1.7	1.11	0.66		0.73		.6	3		"
252	1-21	1030 / 1033	"	1.7	1.12	0.67		0.75		.6	3		FC28
253	1-28	1350 / 1353	"	2.0	0.80	0.53	1.78	0.42		.5	2	0	FC43
254	2-4	1442 / 1445	"	1.7	0.96	0.67		0.64		.6	4		FC28
255	2-6	1207 / 1210	TURNER - RILEY	5.0	2.18	0.96	1.88	2.1		.6	5	0	"
256	2-10	1019 / 1022	TURNER	1.7	1.14	0.76		0.87		.6	3		"
257	2-10	1450 / 1456	TURNER	5.0	1.82	0.71		1.3		.6	5		"
258	2-25	1405 / 1408	"	1.7	1.11	0.72		0.80		.6	3		"
259	3-3	1048 / 1051	"	1.6	1.04	0.70		0.73		.6	3		"
260	3-10	1415 / 1418	"	1.6	1.05	0.68		0.71		.6	3		"

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
261	3-18	1330 / 1333	"	1.7	1.14	0.96		1.1		.6	3		"
262	3-24	1510 / 1513	"	5.0	2.58	1.12		2.9		.6	5		"
263	4-2	1335 / 1338	"	1.8	1.17	0.85		1.0		.6	3		FC44
264	4-7	1435 / 1438	"	1.8	1.12	0.83		0.93		.6	3		"
265	4-14	1012 / 1015	TURNER - SILL	1.8	1.12	0.79		0.89		.6	3		"
266	4-21	1320 / 1323	TURNER	1.8	1.09	0.72		0.78		.6	3		"
267	4-28	1030 / 1033	"	1.7	1.05	0.70		0.74		.6	3		"
268	5-5	1445 / 1448	"	1.8	1.12	0.62		0.70		.6	3		"
269	5-12	1017 / 1020	"	1.8	1.12	0.75		0.84		.6	3		"
270	5-19	1312 / 1315	"	1.8	1.06	0.68		0.72		.6	3		"
271	5-26	1035 / 1038	"	1.8	1.07	0.60		0.64		.6	3		"
272	6-2	0955 / 0958	"	1.8	1.06	0.62		0.66		.6	3		"
273	6-9	0930 / 0933	"	1.8	1.04	0.50		0.52		.6	3		"
274	6-16	1240 / 1243	"	1.7	0.94	0.31		0.29		.6	3		"
275	6-24	1107 / 1110	"	1.1	0.53	0.49	1.70	0.26		.5	2	0	FC43
276	6-24	1250 / 1253	"	1.6	0.54	0.52		0.28		.5	3		FC44
277	6-30	1012 / 1015	"	1.6	0.45	0.29		0.13		.5	3		"
278	7-8	0910 / 0913	"	1.6	0.46	0.30		0.14		.5	3		"
279	7-14	1000 / 1003	"	1.5	0.12	0.33		0.04		.5	3		"
280	7-21	1430	"					0.02		VOL.			
281	7-29	1130	"					0.05		"			
282	8-5	1030	"					0.04		"			
283	8-12	1000	"					0.07		"			
284	8-18	1300	"					0.04		"			
285	8-26	0930	"					0.06		"			
286	9-2	0930	"					0.07		"			
287	9-8	1030	"					0.07		"			
288	9-15	1015	"					0.06		"			
289	9-22	1045	"					0.07		"			
290	9-29	0930	"					0.06		"			

DISCHARGE MEASUREMENTS OF MILL CREEK F112-S

above Big Tujunga Creek DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
291	10-6	1000	TURNER-VAN DER GOOT					0.08		VOL.			
292	10-13	1100	TURNER					0.16		"			
293	10-21	1055	"					0.20		"			
294	10-28	1055	"					0.22		"			
295	11-4	1400	TURNER - PAYNE					0.21		"			
296	11-10	1050	TURNER					0.23		"			
297	11-18	1020	"					0.29		"			
298	11-24	1035	"					0.31		"			
299	12-2	1020	"					0.31		"			
300	12-9	1320 / 1323	"	1.7	0.73	0.60		0.44		.6	3		FC44
301	12-15	1117 / 1120	"	1.7	0.71	0.63		0.45		.6	3		"
302	12-22	1040 / 1043	"	1.6	0.72	0.81		0.58		.6	3		"
303	12-23	0014 / 0027	KASIMOFF - ROGERS	4.0	1.44	0.31		0.45		.6	6		FC47
304	12-29	1020 / 1023	TURNER	1.7	0.77	0.88		0.68		.6	3		FC44
305	1-4	1317 / 1320	"	1.7	0.74	0.76		0.56		.6	3		"
306	1-12	1340 / 1343	TURNER - WILLUT	1.7	0.82	0.82		0.67		.6	3		"
307	1-20	1056 / 1112	KASIMOFF - BROWN	4.5	1.99	0.80		1.6		.6	6		FC47
308	1-20	1540 / 1550	" "	4.5	2.03	0.49		1.0		.6	6		"
309	1-22	1922 / 1935	" "	4.5	1.73	0.43		0.74		.6	7		"
310	1-23	1053 / 1102	" "	4.1	1.47	0.43		0.64		.6	6		"
311	1-27	1030 / 1033	TURNER	3.5	1.45	0.48		0.70		.6	4		FC44
312	2-9	0945 / 0951	"	2.8	1.44	0.55		0.79		.6	4		"
313	2-16	0927 / 0930	"	3.0	1.33	0.54		0.72		.6	4		"
314	2-23	1310 / 1313	"	3.0	1.27	0.53		0.67		.6	4		FC43
315	3-1	1330 / 1333	"	3.0	1.36	0.61		0.83		.6	4		"
316	3-4	2153 / 2200	KASIMOFF - BLAKE	4.2	1.79	0.56		1.0		.6	5		FC47
317	3-9	0920 / 0923	TURNER	3.0	1.41	0.62		0.87		.6	4		FC44
318	3-11	0633 / 0643	KASIMOFF - BLAKE	5.0	1.91	0.47		0.90		.6	7		FC47
319	3-16	1230 / 1233	TURNER	3.0	1.42	0.68		0.96		.6	4		FC43
320	3-23	1040 / 1043	DIAS - TURNER	3.0	1.45	0.69		1.0		.6	4		FC44
321	3-30	0945 / 0948	TURNER	3.0	1.55	0.77		1.2		.6	4		"
322	4-6	1020 / 1023	"	3.0	1.48	0.74		1.1		.6	4		"
323	4-13	1027 / 1030	"	3.0	1.51	0.66		1.0		.6	4		"
324	4-19	1405 / 1408	"	3.0	1.45	0.65		0.94		.6	4		"
325	4-27	1345 / 1348	"	3.0	1.39	0.51		0.71		.6	4		"
326	5-4	1000 / 1003	"	3.0	1.38	0.55		0.76		.6	4		"
327	5-11	0950 / 0953	"	3.0	1.31	0.47		0.62		.6	4		"
328	5-17	1025 / 1028	"	3.0	1.37	0.53		0.73		.6	4		"
329	5-25	1205 / 1208	"	2.0	0.84	0.45		0.38		.6	3		FC43
330	6-1	0930 / 0933	"	2.0	0.84	0.55		0.46		.6	3		FC44
331	6-8	1020 / 1023	"	2.0	0.79	0.32		0.25		.6	3		"
332	6-14	1140 / 1141	"	0.70	0.27	0.44		0.12		.5	1		FC43
333	6-22	1015 / 1016	"	0.70	0.27	0.44		0.12		.5	1		FC44
334	6-29	0940 / 0941	"	0.70	0.28	0.68		0.19		.5	1		"
335	7-6	0950	"					0.06		VOL.			
336	7-13	0925	"					0.04		"			
337	7-20	1020	"					0.03		"			
338	7-27	1050	"					0.04		"			
339	8-3	0755	"					0.06		"			
340	8-10	0930	TURNER					0.06		VOL.			
341	8-18	1050	"					0.03		"			
342	8-25	0915	"					0.05		"			
343	8-31	1040	"					0.03		"			
344	9-7	1010	"					0.04		"			
345	9-14	1137	"					0.03		"			
346	9-22	1115	KASIMOFF					0.05		"			
347	9-29	1057	"					0.04		"			

DISCHARGE MEASUREMENTS OF PACOIMA CREEK F196-S

AT NEAR Maclay Avenue DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
29	6-28	1000 / 1003	TURNER	4.0	0.97	0.61	1.16	0.59		.5	5		FC43
30	6-28	1314 / 1320	"	7.0	1.88	0.96	1.27	1.8		.5	7		"

DISCHARGE MEASUREMENTS OF PACOIMA CREEK F197-S

AT NEAR Arleta Street, above Spreading Grounds DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
49	3-17	1707 / 1710	TURNER	4.0	0.70	0.71		0.50		.5	4		FC43

DISCHARGE MEASUREMENTS OF PACOIMA CREEK F197-S

AT NEAR Arleta Street above Spreading Grounds DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
50	1-22	1732 / 1738	TURNER - RILEY	24.0	7.84	1.40	11.0			.5	6		FC43

DISCHARGE MEASUREMENTS OF PALLETTE CREEK F122-S

AT Big Rock Creek DURING THE YEAR ENDING SEPTEMBER 30, 1948

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
122	10-15	1520 / 1525	LUCE	3.3	0.64	1.06		0.68		.6	4		FC39
123	11-12	1515 / 1520	"	2.5	0.64	1.44		0.92		.6	5		"
124	12-10	1615 / 1620	"	4.0	0.78	0.92		0.72		.6	6		"
125	12-23	1445 / 1450	"	3.0	0.86	0.99		0.85		.6	4		"
126	1-14	1405 / 1410	"	3.1	0.70	0.93		0.65		.6	4		"
127	1-28	1400 / 1405	"	3.5	0.68	0.87		0.59		.6	4		"
128	2-10	1445 / 1450	"	3.5	0.91	1.10		1.0		.6	4		"
129	2-26	1130 / 1135	"	3.5	0.69	0.87		0.60		.6	4		"
130	3-10	1550 / 1555	"	3.5	0.70	0.79		0.55		.6	4		"
131	3-23	1450 / 1455	"	3.5	0.84	0.80		0.67		.6	4		"
132	4-7	1315 / 1320	"	4.0	0.68	0.72		0.49		.6	4		"
133	4-16	1505 / 1510	"	2.3	0.49	0.84		0.41		.6	4		"
134	4-29	1505 / 1510	"	4.0	0.78	0.46		0.36		.6	4		"
135	5-12	1525 / 1530	"	3.0	0.39	0.44		0.17		.6	4		"
136	5-27	1100 / 1105	"	3.0	0.37	0.30		0.11		.6	5		"
137	6-10	1530 / 1535	"	2.5	0.41	0.37		0.15		.6	4		"

DISCHARGE MEASUREMENTS OF PALLETTE CREEK F122-S

AT Big Rock Creek DURING THE YEAR ENDING SEPTEMBER 30, 1948

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
138	11-9	1445 / 1450	LUCE	1.8	0.16	0.31		0.05			.6	2	FC39
139	11-26	1515 / 1620	"	2.2	0.39	0.79		0.31			.6	4	"
140	1-5	1235 / 1240	"	1.8	0.21	0.57		0.12			.6	3	"
141	1-19	1135 / 1140	"	2.9	0.39	1.03		0.40			.6	4	"
142	2-2	1420 / 1425	"	2.5	0.51	0.65		0.33			.6	5	"
143	2-16	1330 / 1335	"	2.3	0.45	0.73		0.33			.6	5	"
144	3-2	1645 / 1650	"	3.0	0.40	0.67		0.27			.6	4	"
145	3-16	1215 / 1220	"	2.5	0.39	0.51		0.20			.6	4	"
146	3-29	1650 / 1655	"	2.1	0.24	0.46		0.11			.6	4	"
147	4-13	1500 / 1502	"	1.5	0.14	0.43		0.06			.6	3	"

DISCHARGE MEASUREMENTS OF PALM CREEK F290-S

AT Telegraph Road DURING THE YEAR ENDING SEPTEMBER 30, 1948

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1	2-11	1021 / 1028	BONADIMAN - WADDICOR	5.0	1.46	0.67	1.44	0.98		.6	5	0	FC37
2	2-18	1455 / 1505	WADDICOR	5.0	1.48	0.74	1.46	1.1		.6	5	0	"
3	3-3	1445 / 1455	"	4.5	1.47	0.75	1.46	1.1		.6	5	0	"
4	3-17	1245 / 1255	"	4.5	1.93	1.45	1.64	2.8		.6	5	0	"
5	3-25	1430 / 1440	"	5.8	2.49	1.24	1.60	3.1		.6	6	0	"
6	3-31	1435 / 1445	"	5.0	1.62	0.83	1.46	1.3		.6	5	0	"
7	4-3	1618 / 1628	BONADIMAN	7.0	3.32	1.08	1.66	3.6		.6	6	0	FC19
8	4-6	1412 / 1420	WADDICOR - PAYNE	4.0	1.19	0.75	1.48	0.89		.6	4	0	FC37
9	4-13	1325 / 1335	WADDICOR - MOON	3.3	0.82	0.93	1.44	0.77		.6	4	0	"
10	4-28	1525 / 1535	WADDICOR	2.4	0.86	1.40	1.46	1.2		.6	3	0	"
11	5-3	1510 / 1517	WADDICOR - BONADIMAN	3.5	0.99	0.92	1.46	0.91		.6	4	0	"
12	5-12	1502 / 1508	WADDICOR	3.4	0.93	0.75	1.44	0.70		.6	4	0	"
13	5-20	1600 / 1608	BONADIMAN	5.5	1.62	0.50	1.52	0.81		.6	4	0	FC19
14	5-26	1345 / 1352	WADDICOR	4.0	1.22	0.64	1.44	0.78		.6	4	0	FC37
15	6-16	1524 / 1529	"	3.0	0.99	0.49	1.46	0.49		.6	3	0	"
16	7-28	1420 / 1426	"	3.5	0.86	0.62	1.52	0.53		.5	4	0	"
17	9-27	1345 / 1352	"	4.0	1.35	0.71	1.52	0.96		.5	4	0	"

DISCHARGE MEASUREMENTS OF PALM CREEK F290-S

AT Telegraph Road DURING THE YEAR ENDING SEPTEMBER 30, 1949

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
18	10-27	1518 / 1523	WADDICOR	3.5	0.84	0.90	1.50	0.76		.5	4	0	FC37
19	11-10	1544 / 1549	"	3.4	0.72	0.75	1.44	0.54		.5	4	0	"
20	12-1	1332 / 1338	"	3.4	0.66	0.71	1.40	0.47		.5	4	0	"
21	12-15	1522 / 1528	"	3.8	1.00	0.92	1.42	0.92		.5	4	0	"
22	12-17	1300 / 1310	"	7.0	4.68	2.16	1.89	10.1		.6	7	-.02	"
23	12-27	1300 / 1308	WADDICOR - PAYNE	4.0	1.06	0.89	1.48	0.94		.5	4	0	"
24	1-21	1420 / 1428	" "	6.0	2.20	0.40	1.44	0.89		.6	5	0	"
25	2-2	1048 / 1055	WADDICOR	4.0	1.26	0.95	1.44	1.2	.6	.5	4	0	"
26	2-7	1355 / 1405	WADDICOR - PAYNE	7.0	5.52	1.89	1.96	10.4		.6	6	-.03	"
27	3-11	1300 / 1310	" "	5.0	2.33	0.38	1.48	0.88		.6	5	0	"
28	3-16	1500 / 1505	WADDICOR	4.0	1.73	0.58	1.45	1.0		.6	4	0	"
29	6-29	1414 / 1420	"	4.0	1.24	0.72	1.48	0.89		.6	4	0	"
30	7-26	1500 / 1506	BONADIMAN	4.0	1.13	0.56	1.42	0.63		.5	4	0	FC19

DISCHARGE MEASUREMENTS OF SANDROCK CREEK F289-S

AT Pearblossom Highway DURING THE YEAR ENDING SEPTEMBER 30, 1948

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1	10-15	1445 / 1450	LUCE	4.5	0.91	0.53		0.48		.6	4		FC39
2	11-12	1430 / 1435	"	3.0	0.91	0.52		0.47		.6	4		"
3	12-10	1535 / 1540	"	2.5	0.36	1.64		0.59		.6	3		"
4	12-23	1400 / 1405	"	3.0	0.75	0.72		0.54		.6	5		"
5	1-14	1440 / 1445	"	3.2	0.55	0.67		0.37		.6	5		"
6	2-10	1320 / 1325	"	5.0	1.36	0.33		0.45		.6	4		"
7	2-26	1430 / 1435	"	2.8	0.74	0.36		0.27		.6	3		"
8	3-10	1430 / 1435	"	3.5	0.86	0.36		0.31		.6	4		"
9	3-23	1236 / 1240	"	3.0	0.83	0.35		0.29		.6	4		"
10	4-7	1535 / 1540	"	3.0	0.80	0.41		0.33		.6	4		"
11	4-16	1330 / 1335	"	3.5	0.84	0.39		0.33		.6	5		"
12	5-12	1415 / 1420	"	3.5	1.02	0.35		0.36		.6	4		"
13	5-27	1000 / 1005	"	3.0	0.68	0.38		0.26		.6	5		"
14	6-10	1440 / 1445	"	3.5	0.85	0.24		0.20		.6	3		"
15	7-15	1130 / 1133	"	3.0	0.58	0.22		0.13		.6	3		"
16	8-11	1450 / 1455	"	2.0	0.40	0.30		0.12		.6	4		"
17	9-10	1335 / 1340	"	1.2	0.21	0.71		0.15		.6	3		"

DISCHARGE MEASUREMENTS OF SANDROCK CREEK F289-S

AT Pearblossom Highway DURING THE YEAR ENDING SEPTEMBER 30, 1949

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
18	10-15	1345 / 1350	LUCE	1.5	0.28	0.64		0.18		.6	2		FC39
19	11-26	1540 / 1545	"	1.5	0.35	0.31		0.11		.6	3		"
20	1-5	1435 / 1440	"	1.5	0.20	0.70		0.14		.6	3		"
21	1-19	1040 / 1045	"	3.8	1.25	0.14		0.18		.6	4		"
22	2-16	1125 / 1130	"	2.0	0.42	0.76		0.32		.6	3		"
23	3-2	1535 / 1540	"	1.5	0.29	1.10		0.32		.6	3		"
24	3-16	1045 / 1050	"	1.5	0.35	0.74		0.26		.6	3		"
25	3-29	1540 / 1545	"	1.5	0.36	0.58		0.21		.6	3		"
26	4-13	1400 / 1405	"	2.3	0.40	0.85		0.34		.6	4		"
27	4-27	1515 / 1518	"	2.0	0.27	0.89		0.24		.6	4		"
28	5-11	1115 / 1120	"	1.8	0.40	0.38		0.15		.6	4		"
29	5-26	1615 / 1620	"	1.7	0.24	0.83		0.18		.6	3		"
30	6-24	1335 / 1338	TURNER	1.7	0.26	0.38		0.10		.5	3		FC43
31	7-6	0755 / 0759	LUCE	0.13	0.18	1.00		0.18		.6	3		FC39
32	8-10	1510 / 1515	"	1.5	0.16	0.75		0.12		.6	3		"
33	9-8	1445 / 1450	"	1.5	0.20	0.50		0.10		.6	3		"
34	9-29	0945 / 0950	"	1.5	0.15	0.47		0.07		.6	3		"

DISCHARGE MEASUREMENTS OF SAN JOSE CREEK F282-S

AT NEAR Hacienda Avenue DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1	4-15	0910 / 0915	STUNDEN	4.5	1.16	1.64	0.65	1.9		.5	5	0	FC36
2	4-15	0945 / 0950	"	4.5	1.17	1.62	0.65	1.9		.5	5	0	"
3	4-21	1345 / 1355	"	4.5	1.25	1.57	0.65	1.9		.5	5	0	"
4	4-28	1005 / 1010	"	4.5	1.04	1.44	0.62	1.5		.5	5	0	"
5	5-5	1610 / 1620	"	4.0	0.84	0.92	0.55	0.77		.5	5	0	"
6	5-10	1000 / 1005	WADDICOR - STUNDEN	5.0	1.86	1.29	0.65	2.4		.5	5	0	FC37
7	5-27	1525 / 1530	STUNDEN	1.0	0.17	1.18	0.40	0.20	FLOATS	1	0		

DISCHARGE MEASUREMENTS OF SAN JOSE CREEK F282-S

AT NEAR Hacienda Avenue DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
8	1-10	0930 / 0936	STUNDEN	4.0	1.21	1.74	0.50	2.1		.5	5	0	FC36
9	2-2	1010 / 1015	"	3.0	1.21	1.16	0.52	1.4		.5 .6	6	0	"
10	3-9	0945 / 0955	"	4.0	2.61	0.96	0.50	2.5		.6	8	0	"
11	4-27	0915 / 0920	"	4.6	2.16	0.69	0.48	1.5		.6 .5	5	0	"

DISCHARGE MEASUREMENTS OF SANTA CLARA RIVER F93-S

AT NEAR above Lang RR Station DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
118	10-9	0845 / 0850	LUCE	4.0	0.80	1.25		1.0		.6	6		FC39
119	10-16	0930 / 0935	"	4.0	0.99	1.01		1.0		.6	5		"
120	10-23	0830 / 0835	"	3.7	0.97	1.34		1.3		.6	4		"
121	10-30	0820 / 0825	"	4.0	1.06	1.11		1.2		.6	4		"
122	11-6	0840 / 0850	"	4.5	1.22	0.90		1.1		.6	4		"
123	11-13	0825 / 0830	"	3.5	1.14	1.10		1.2		.6	4		"
124	11-20	091C / 0915	"	4.0	1.40	1.21		1.7		.6	6		"
125	11-28	085C / 0855	"	4.0	1.22	1.39		1.7		.6	4		"
126	12-4	0850 / 0855	"	5.2	1.66	1.61		2.7		.6	7		"
127	12-11	0920 / 0925	"	5.5	2.52	2.06		5.2		.6	5		"
128	12-18	0925 / 0930	"	5.0	2.07	2.17		4.5		.6	5		"
129	12-26	1016 / 1020	"	5.0	2.32	1.81		4.2		.6	6		"
130	12-31	0940 / 0945	"	5.5	2.35	1.83		4.3		.6	6		"
131	1-8	0840 / 0845	"	5.8	2.70	2.07		5.6		.6	6		"
132	1-15	0835 / 0840	"	5.5	2.47	1.71		4.4		.6	6		"
133	1-22	0925 / 0930	"	5.5	2.57	1.94		5.0		.6	6		"
134	1-29	0915 / 0922	"	6.7	2.69	1.78		4.8		.6	7		"
135	2-5	1005 / 1010	"	7.5	3.71	1.99		7.4		.6	6		"
136	2-19	1315 / 1320	"	6.0	2.46	1.99		4.9		.6	6		"
137	2-27	0845 / 0850	"	4.5	1.97	2.13		4.2		.6	5		"
138	3-4	1025 / 1030	"	4.8	2.27	2.07		4.7		.6	5		"
139	3-11	0855 / 0900	"	4.5	2.37	2.07		4.9		.6	5		"
140	3-17	1410 / 1420	"	5.3	2.90	2.17		6.3		.6	6		"
141	3-25	1335 / 1345	"	6.5	4.24	2.00		8.5		.6	7		"
142	3-31	1500 / 1506	TURNER	5.0	3.28	1.52		5.0		.6	5		FC43
143	4-8	1022 / 1028	LUCE	11.0	4.61	1.42		6.8		.6	7		FC39
144	4-15	1C20 / 1025	"	9.0	4.12	1.33		5.5		.6	6		"
145	4-28	0925 / 0930	"	6.0	2.20	1.45		3.2		.6	6		"
146	5-6	0905 / 0910	"	5.5	2.16	1.20		2.6		.6	6		"
147	5-13	1130 / 1135	"	5.0	2.04	1.23		2.5		.6	6		"
148	5-20	1510 / 1515	"	4.5	1.34	1.19		1.6		.6	5		"
149	5-26	1035 / 1040	"	3.9	1.07	0.77		0.82		.6	4		"
150	6-4	0830 / 0835	"	3.0	1.34	1.19		1.6		.6	5		"
151	6-9	0835 / 0840	"	3.5	1.23	1.22		1.5		.6	5		"
152	6-17	0845 / 0850	"	3.5	1.38	0.94		1.3		.6	4		"
153	6-23	1310 / 1313	TURNER	2.0	0.88	1.48		1.3		.5	4		FC43
154	7-2	1330 / 1336	"	3.5	1.25	0.88		1.1		.6	5		"
155	7-9	0910 / 0915	LUCE	3.8	1.44	1.18		1.7		.6	4		FC39
156	7-15	1640 / 1645	"	2.5	1.42	0.85		1.2		.6	4		"
157	7-22	0920 / 0925	"	2.7	1.42	0.70		1.0		.6	5		"
158	7-29	1640 / 1645	"	3.1	0.97	1.03		1.0		.6	5		"
159	8-5	0830 / 0835	"	4.0	1.31	0.75		0.98		.6	4		"
160	8-19	1125 / 1130	"	4.0	0.99	0.91		0.90		.6	4		"
161	8-26	1315 / 1320	"	2.8	0.81	0.94		0.76		.6	4		"
162	9-2	0935 / 0940	"	3.0	1.10	1.00		1.1		.6	5		"
163	9-8	0805 / 0810	"	2.5	1.37	1.24		1.7		.6	4		"
164	9-16	0750 / 0755	"	2.0	1.13	1.06		1.2		.6	4		"
165	9-23	1620 / 1625	"	4.0	2.06	0.83		1.7		.6	4		"
166	9-30	1303 / 1310	LUCE-VAN DER GOOT	3.2	1.30	0.71		0.92		.6	4		"

DISCHARGE MEASUREMENTS OF SANTA CLARA RIVER F93-S

AT NEAR above Lang R. R. Station DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
167	10-7	0850 / 0855	LUCE	3.3	2.20	0.73		1.6		.6	4		FC39
168	10-21	1510 / 1515	"	4.2	2.22	0.54		1.2		.6	5		"
169	10-28	1400 / 1405	"	4.5	1.28	0.62	3.78	0.80		.6	5	0	"
170	11-10	0835 / 0840	"	4.5	1.43	0.70	3.44	1.0		.6	5	0	"
171	11-18	0750 / 0755	"	4.2	1.63	0.71	3.42	1.3		.6	5	0	"
172	11-24	0855 / 0900	"	3.8	1.39	0.79	3.43	1.1		.6	4	0	"
173	12-2	0840 / 0845	"	4.5	1.86	0.64	3.42	1.2		.6	6	0	"
174	12-9	1435 / 1440	"	4.5	1.88	0.64	3.44	1.2		.6	5	0	"
175	12-16	1145 / 1155	"	3.6	1.73	0.81	3.40	1.4		.6	4	0	"
176	12-23	0930 / 0940	"	4.2	0.99	1.01	3.40	1.0		.6	5	0	"
177	12-30	0945 / 0950	"	4.5	2.37	1.39	3.45	3.3		.6	5	0	"
178	1-6	0930 / 0940	"	4.5	2.22	2.03	3.44	4.5		.6	5	0	"
179	1-13	1310 / 1315	"	5.5	2.65	1.74	3.46	4.6		.6	6	0	"
180	1-20	1240 / 1245	LUCE - WRIGHT	5.5	2.64	1.97	3.46	5.2		.6	6	0	"
181	1-27	1110 / 1115	LUCE	5.5	2.65	1.77	3.43	4.7		.6	6	0	"
182	2-3	0910 / 0915	"	6.0	2.85	1.75	3.43	5.0		.6	7	0	"
183	3-10	0830 / 0835	"	5.3	2.60	1.65	3.42	4.3		.6	6	0	"
184	2-17	1230 / 1235	"	5.0	2.31	1.82	3.42	4.2		.6	6	0	"
185	2-24	1040 / 1045	"	5.0	2.25	1.69	3.42	3.8		.6	6	0	"
186	3-3	0925 / 0930	"	6.0	2.55	1.45	3.45	3.7		.6	7	0	"
187	3-10	0905 / 0910	"	5.6	2.31	1.34	3.43	3.1		.6	6	0	"
188	3-17	0915 / 0920	"	5.7	2.14	1.54	3.40	3.3		.6	6	0	"
189	3-24	0830 / 0835	"	5.6	2.17	1.29	3.42	2.8		.6	6	0	"
190	3-30	0915 / 0920	"	5.5	2.20	1.18	3.45	2.6		.6	6	0	"
191	4-7	0845 / 0850	"	5.2	2.31	1.39	3.44	3.2		.6	6	0	"
192	4-14	0915 / 0920	"	5.0	2.46	1.18	3.53	2.9		.6	5	0	"
193	4-21	1145 / 1150	"	5.0	2.68	1.04	3.50	2.8		.6	5	0	"
194	4-28	0910 / 0915	"	3.5	2.04	1.08	3.51	2.2		.6	4	0	"
195	5-12	0910 / 0915	"	3.5	2.40	0.75	3.54	1.8		.6	4	0	"
196	5-27	1130 / 1135	"	3.5	2.69	0.69	3.52	2.0		.6	5	0	"
197	6-22	1457 / 1500	TURNER	TWO CHANNELS			3.64	1.7		.6	5	0	FC43
198	6-30	1130 / 1135	LUCE	3.0	2.75	0.40	3.52	1.1		.6	5	0	FC39
199	7-14	0905 / 0910	"	3.5	2.62	0.61	3.55	1.6		.6	5	0	"
200	7-28	0825 / 0830	"	3.0	2.83	0.39	3.58	1.1		.6	5	0	"
201	8-25	0845 / 0850	"	3.5	2.89	0.35	3.56	1.0		.6	5	0	"
202	9-7	0845 / 0850	"	3.5	3.34	0.42	3.93	1.4		.6	5	0	"
203	9-22	1330 / 1335	"	3.5	0.81	0.88		0.71		.6	5		"

DISCHARGE MEASUREMENTS OF SANTA CLARA RIVER F137 B-S

8 miles West of Castaic Junction DURING THE YEAR ENDING SEPTEMBER 30, 1948

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	D. HT. CHANGE TOTAL	METER NO.
119	10-9	1615 / 1625	LUCE	6.0	5.95	2.32		13.8		.6	6		FC39
120	10-16	1545 / 1555	"	6.0	6.39	2.43		15.5		.6	6		"
121	10-23	1515 / 1525	"	6.5	5.27	2.24		11.8		.6	5		"
122	10-30	1545 / 1600	"	6.5	6.12	2.16		13.2		.6	6		"
123	11-6	1505 / 1515	"	8.0	8.58	2.45		21.0		.6	6		"
124	11-13	1435 / 1445	"	7.5	8.39	2.12		17.8		.6	5		"
125	11-20	1430 / 1445	"	7.0	8.48	2.39		20.3		.6	5		"
126	11-28	1630 / 1640	"	8.0	10.5	2.24		23.5		.6	5		"
127	12-4	1615 / 1633	"	9.0	11.2	2.21		24.8		.6	5		"
128	12-11	1620 / 1630	"	10.5	12.9	1.84		23.7		.6	6		"
129	12-18	1615 / 1625	"	11.0	13.4	1.79		24.0		.6	6		"
130	12-26	1540 / 1550	"	10.5	13.2	1.61		21.3		.6	7		"
131	12-31	1540 / 1550	"	14.0	11.0	2.26		24.8		.6	8		"
132	1-8	1700 / 1715	"	17.0	12.8	2.17		27.8		.6	8		"
133	1-15	1415 / 1430	"	17.7	13.3	1.65		22.0		.6	10		"
134	1-22	1415 / 1425	"	21.5	16.6	1.57		26.1		.6	10		"
135	1-22	1515 / 1525	"	11.5	9.69	2.38		23.0		.6	7		"
136	1-29	1540 / 1555	"	25.0	19.7	1.30		25.5		.6	10		"
137	2-4	1430 / 1450	"	25.5	20.4	1.27		26.0		.6	13		"
138	2-10	1440 / 1450	"	13.5	10.8	2.66		28.7		.6	7		"
139	2-19	1620 / 1630	"	24.0	16.1	1.65		26.7		.6	12		"
140	2-27	1520 / 1530	"	21.0	13.6	1.71		23.3		.6	11		"
141	3-4	1450 / 1500	"	20.0	13.0	1.81		23.5		.6	10		"
142	3-11	1535 / 1545	"	16.0	7.86	2.16		17.0		.6	8		"
143	3-17	1635 / 1645	"	16.0	9.82	2.56		25.1		.6	8		"
144	3-31	1100 / 1112	"	17.0	9.65	2.68		26.4		.6	9		"
145	4-8	1415 / 1425	"	17.0	10.3	2.59		26.7		.6	9		"
146	4-15	1440 / 1455	"	17.5	10.9	2.72		29.6		.6	10		"
147	4-28	1340 / 1350	"	16.5	7.71	2.13		16.4		.6	9		"
148	5-6	1340 / 1350	"	12.5	6.30	2.40		15.1		.6	6		"
149	5-13	1450 / 1505	"	12.3	5.72	1.89		10.8		.6	7		"
150	5-20	1015 / 1025	"	12.5	6.49	1.81		11.7		.6	7		"
151	5-26	1350 / 1400	"	12.0	5.96	2.06		12.3		.6	6		"
152	6-4	1445 / 1455	"	12.0	6.46	2.01		13.0		.6	6		"
153	6-9	1140 / 1150	"	11.5	6.19	1.94		12.0		.6	7		"
154	6-17	1435 / 1445	"	11.3	5.36	1.62		8.7		.6	7		"
155	6-23	0955 / 1004	"	11.0	5.33	1.80		9.6		.6	6		"
156	7-2	1042 / 1051	"	11.0	4.52	1.70		7.7		.6	6		"
157	7-8	1515 / 1525	"	11.5	4.90	1.29		6.3		.6	6		"
158	7-22	1335 / 1345	"	11.0	4.71	1.27		6.0		.6	6		"
159	7-27	1605 / 1615	LUCE & KOCH	11.0	3.90	1.10		4.3		.6	9		"
160	8-5	1605 / 1615	LUCE	11.0	4.36	1.19		5.2		.6	6		"
161	8-12	1515 / 1525	"	9.5	3.43	1.08		3.7		.6	5		"
162	8-19	0900 / 0910	"	10.2	4.15	1.33		5.5		.6	6		"
163	8-26	1510 / 1520	"	8.5	4.00	1.42		5.7		.6	5		"
164	9-2	1530 / 1540	"	8.0	2.79	1.18		3.3		.6	6		"
165	9-8	1330 / 1340	"	5.2	3.85	1.51		5.6		.6	5		"
166	9-16	1655 / 1700	"	8.5	2.60	1.19		3.1		.6	5		"
167	9-23	0930 / 0940	"	8.5	3.82	1.44		5.5		.6	6		"
168	9-30	1032 / 1046	LUCE - VAN DER GOOT	9.2	5.16	1.43		7.4		.6	8		"

DISCHARGE MEASUREMENTS OF SANTA MONICA CREEK F272-S

above Rustic Canyon DURING THE YEAR ENDING SEPTEMBER 30, 1948

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	D. HT. CHANGE TOTAL	METER NO.
250	10-2	1140 / 1144	BOLLINGER	4.2	0.23	1.56		0.36		FLOATS	4		
251	11-6	1234 / 1240	"	3.2	0.19	3.10		0.59		"	3		
252	12-18	1242 / 1251	"	3.6	0.21	2.62		0.55		"	4		
253	1-15	1443 / 1448	"	3.0	0.22	2.95		0.65		"	4		
254	2-19	1427 / 1433	"	3.2	0.15	3.07		0.46		"	4		
255	3-4	1248 / 1253	"	1.3	0.50	1.06		0.53		"	2		
256	4-7	1333 / 1338	"	3.3	0.20	2.50		0.50		"	3		
257	4-29	1427 / 1433	"	3.2	0.15	2.40		0.36		"	4		
258	5-20	1423 / 1427	"	2.8	0.13	1.85		0.24		"	4		
259	6-10	1537 / 1543	"	2.8	0.16	2.06		0.33		"	4		
260	7-1	1345 / 1350	BOLLINGER-BLAKELY	3.0	0.13	2.38		0.31		"	4		
261	7-14	1603 / 1606	BLAKELY	2.5	0.25	1.48		0.37		"	1		
262	7-21	1456 / 1502	"	2.5	0.24	1.37		0.33		"	3		
263	8-19	1509 / 1512	BOLLINGER	2.5	0.11	1.73		0.19		"	3		
264	9-23	1408 / 1413	"	2.4	0.11	1.91		0.21		"	3		

DISCHARGE MEASUREMENTS OF SANTA MONICA CREEK F272-S

above Rustic Canyon DURING THE YEAR ENDING SEPTEMBER 30, 1949

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	D. HT. CHANGE TOTAL	METER NO.
265	10-28	1002 / 1008	BOLLINGER	3.0	0.13	2.00		0.26		FLOATS	4		
266	11-18	1252 / 1257	"	2.2	0.11	2.09		0.23		"	3		
267	12-23	1440 / 1446	"	2.7	0.18	2.56		0.46		"	4		
268	1-27	1327 / 1333	"	3.4	0.18	2.56		0.46		"	3		
269	2-17	1305 / 1302	DIAS - BOLLINGER	2.7	0.11	2.09		0.23		"	4		
270	3-17	1330 / 1335	BOLLINGER	3.2	0.11	3.00		0.33		"	4		
271	3-31	0940 / 0946	"	2.8	0.17	2.23		0.38		"	4		
272	4-21	0900 / 0905	"	2.8	0.14	1.72		0.24		"	3		
273	5-5	0828 / 0834	"	2.3	0.11	2.54		0.28		"	3		
274	5-18	0840 / 0845	"	3.0	0.12	1.83		0.22		"	4		
275	6-16	0840 / 0846	"	2.9	0.09	1.67		0.15		"	4		
276	6-30	0830 / 0837	"	3.0	0.14	1.76		0.25		"	4		
277	7-14	1312 / 1316	BLAKELY	3.7	0.23	1.22		0.28		"	4		
278	8-4	1156 / 1202	BOLLINGER	3.1	0.13	2.00		0.26		"	4		
279	8-18	1005 / 1010	"	3.0	0.14	2.07		0.29		"	4		
280	9-1	1100 / 1106	"	3.3	0.14	2.28		0.32		"	3		
281	9-14	1210 / 1214	"	3.0	0.13	2.08		0.27		"	3		
282	9-29	1337 / 1344	"	2.5	0.11	2.72		0.30		"	3		

DISCHARGE MEASUREMENTS OF SANTA MONICA CREEK F56-S

below Rustic Canyon DURING THE YEAR ENDING SEPTEMBER 30, 1948

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	D. HT. CHANGE TOTAL	METER NO.
310	10-2	1126 / 1133	BOLLINGER	2.7	0.88	0.72		0.63		.5	5		FC6
311	11-6	1217 / 1223	"	2.0	0.64	1.28		0.82		.5	4		"
312	12-18	1222 / 1229	"	4.0	1.09	0.92		1.0		.5	4		"
313	1-15	1427 / 1434	"	2.0	0.85	1.15		0.98		.5	4		"
314	2-19	1412 / 1417	"	2.0	0.96	1.01		0.97		.5	4		"
315	3-4	1240 / 1245	"	2.0	1.43	0.70		1.0		.5	3		"
316	4-7	1320 / 1325	"	1.5	0.28	2.25		0.63		.5	3		"
317	4-29	1415 / 1420	"	3.2	0.69	0.96		0.66		.5	4		"
318	5-20	1410 / 1415	"	3.0	0.75	0.83		0.62		.5	5		"
319	6-10	1526 / 1531	"	2.7	0.23	3.00		0.69		FLOATS	4		
320	7-1	1335 / 1339	"	4.5	0.35	2.42		0.85		"	4		
321	7-14	1557 / 1600	BLAKELY	3.5	0.36	2.47		0.89		"	5		
322	7-21	1508 / 1516	"	3.5	0.33	2.67		0.88		"	5		
323	8-19	1457 / 1502	BOLLINGER	3.0	0.23	1.96		0.45		"	4		
324	9-23	1400 / 1404	"	3.6	0.25	1.84		0.46		"	5		

DISCHARGE MEASUREMENTS OF SANTA MONICA CREEK F55-S

below Rustic Canyon DURING THE YEAR ENDING SEPTEMBER 30, 1948

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
325	10-28	0950 / 0957	BOLLINGER	TWO CHANNELS				0.58		FLOATS	3		
326	10-18	1306 / 1311	"	"	"			0.62		"	3		
327	12-23	1430 / 1435	"	4.6	0.28	2.92		0.82		FLOATS	4		
328	1-27	1317 / 1322	"	4.7	0.39	2.44		0.95		"	4		
329	2-17	1248 / 1255	DIAS - BOLLINGER	3.0	0.89	0.75		0.67		.5	5		FC6
330	3-17	1344 / 1349	BOLLINGER	1.4	0.35	1.57		0.55		.6	2		"
331	3-31	0955 / 1000	"	4.5	0.32	2.44		0.78		FLOATS	6		
332	4-1	0917 / 0922	"	TWO CHANNELS				0.79		"			
333	5-5	0845 / 0850	"	"	"			0.80		"	4		
334	5-18	0822 / 0830	"	5.6	1.46	0.41		0.60		.5	6		FC6
335	6-16	0905 / 0910	"	4.1	0.39	2.41		0.94		FLOATS	4		
336	6-30	0905 / 0912	"	4.0	0.32	1.65		0.53		"	4		
337	7-14	1320 / 1326	BLAKELY	5.2	0.49	1.96		0.96		"	6		
338	8-4	1210 / 1214	BOLLINGER	5.0	0.32	2.56		0.82		"	6		
339	8-18	1018 / 1023	"	TWO CHANNELS				0.55		FLOATS	4		
340	9-1	1112 / 1117	"	"	"			0.50		"	4		
341	9-14	1220 / 1226	"	"	"			0.47		"	4		
342	9-29	1353 / 1400	"	"	"			0.53		"	4		

DISCHARGE MEASUREMENTS OF SANTIAGO CREEK F125-S

above Little Rock Creek DURING THE YEAR ENDING SEPTEMBER 30, 1948

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
62	3-25	1200 / 1205	LUCE - WRIGHT	3.5	0.62	0.90		0.56		.6	6		FC39
63	4-29	1405 / 1410	LUCE	5.0	1.60	0.88		1.4		.6	5		"

DISCHARGE MEASUREMENTS OF SANTIAGO CREEK F 125-S

above Little Rock Creek DURING THE YEAR ENDING SEPTEMBER 30, 1949

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
64	3-16	1515 / 1520	LUCE	3.0	0.42	0.64		0.27		.6	5		FC39
65	3-29	1245 / 1250	"	2.4	0.25	0.72		0.18		.6	4		"
66	4-13	1130 / 1135	"	2.7	0.52	0.83		0.43		.6	5		"

DISCHARGE MEASUREMENTS OF TUJUNGA WASH - WEST BRANCH F105B-S

above Los Angeles River DURING THE YEAR ENDING SEPTEMBER 30, 1948

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1	3-24	0916 / 0921	BLAKELY - LANG	6.0	1.99	1.66		3.3		.6	6		FC35
2	3-31	1137 / 1147	BLAKELY	6.0	1.97	1.47		2.9		.5	6		"
3	4-5	1553 / 1557	"	6.0	1.50	2.33	0.75	3.5		.5	6	0	"
4	4-14	0903 / 0910	"	6.0	1.76	1.31	0.66	2.3		.5	6	0	"
5	4-21	0912 / 0920	"	6.0	1.71	1.05	0.56	1.8		.5	6	0	"
6	4-28	0919 / 0925	BLAKELY - JOHNSON	6.0	1.51	1.46	0.60	2.2		.5	6	0	"
7	5-5	0925 / 0932	BLAKELY	6.0	1.32	1.29	0.52	1.7		.5	6	0	"
8	5-12	1408 / 1414	"	2.0	1.11	1.80	0.48	2.0		.5	4	0	"
9	5-19	1338 / 1344	"	2.0	1.21	2.32	0.50	2.8		.5	4	0	"
10	5-26	0855 / 0902	"	3.4	1.21	1.16	0.45	1.4		.5	3	0	"
11	6-2	1320 / 1326	"	6.0	1.12	0.98	0.56	1.1		.5	6	0	"
12	6-9	0926 / 0937	BLAKELY - MIRON	6.0	1.14	1.14	0.74	1.3		.5	6	0	"
13	6-15	0945 / 0955	BOLLINGER	3.1	0.76	1.28	0.59	0.97		.5	4	0	FC6
14	6-22	1020 / 1030	" "	3.0	0.83	1.32	0.43	1.1		.6	6	0	"
15	6-30	1009 / 1015	BLAKELY	5.0	0.94	0.87	0.48	0.82		.5	5	0	FC35
16	7-7	0905 / 0911	"	4.5	0.87	1.13	0.52	0.98		.5	5	0	"
17	7-13	1335 / 1341	"	4.0	0.86	1.15	0.48	0.99		.5	4	0	"
18	7-21	1228 / 1236	"	3.3	0.69	0.93	0.45	0.64		.5	5	0	"
19	7-27	0839 / 0846	BOLLINGER	2.7	0.61	1.02	0.45	0.62		.6	5	0	FC6
20	8-3	0945 / 0950	"	1.06	0.33	1.76	0.44	0.58		.5	1	0	"
21	8-3	0957 / 1003	"	3.5	0.75	1.03	0.44	0.77		.5	5	0	"
22	8-11	0950 / 0956	BLAKELY	3.7	0.84	0.96	0.44	0.81		.5	5	0	FC35
23	8-18	1048 / 1054	"	5.0	0.78	0.86	0.45	0.67		.5	5	0	"
24	9-15	1005 / 1015	BOLLINGER	3.5	0.72	0.69	0.46	0.50		.5	6	0	FC6
25	9-21	1225 / 1235	"	3.6	0.77	0.75	0.52	0.58		.5	7	0	"
26	9-29	0936 / 0942	BLAKELY	4.7	0.86	0.73	0.59	0.63		.5	5	0	FC35

DISCHARGE MEASUREMENTS OF VALYERMO RANCH SPRINGS CREEK F291-S

AT Pearblossom Highway DURING THE YEAR ENDING SEPTEMBER 30, 1948

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1	10-15	1455 / 1500	LUCE	1.5	0.44	0.86		0.38		.6	3		FC39
2	11-12	1455 / 1500	"	1.5	0.42	0.93		0.39		.6	3		"
3	12-23	1420 / 1425	"	TWO CHANNELS				0.70		.6	9		"
4	2-5	1520 / 1525	"	2.0	0.91	1.54		1.4		.6	4		"
5	2-10	1500 / 1505	"	2.0	0.48	0.75		0.36		.6	4		"
6	2-26	1455 / 1500	"	1.7	0.26	0.54		0.14		.6	3		"
7	3-10	1455 / 1500	"	1.8	0.28	0.68		0.19		.6	4		"
8	3-21	1305 / 1309	"	1.5	0.26	0.58		0.15		.6	3		"
9	4-7	1550 / 1555	"	2.0	0.39	0.67		0.26		.6	4		"
10	4-16	1342 / 1345	"	1.6	0.21	0.43		0.09		.6	3		"
11	5-12	1430 / 1435	"	1.9	0.54	0.72		0.39		.6	4		"
12	5-27	1030 / 1032	"	1.9	0.33	0.64		0.21		.6	4		"
13	6-10	1505 / 1510	"	2.0	0.34	0.53		0.18		.6	3		"
14	7-15	1143 / 1145	"	1.4	0.26	0.46		0.12		.6	3		"
15	9-10	1345 / 1350	"	1.2	0.12	0.50		0.06		.6	2		"

DISCHARGE MEASUREMENTS OF VALYERMO RANCH SPRINGS CREEK F291-S

AT Pearblossom Highway DURING THE YEAR ENDING SEPTEMBER 30, 1949

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
16	10-15	1408 / 1410	LUCE	1.4	0.28	0.29		0.08		.6	3		FC39
17	11-26	1550 / 1555	"	1.5	0.27	0.33		0.09		.6	2		"
18	1-5	1455 / 1500	"	1.5	0.40	0.42		0.17		.6	3		"
19	1-19	1100 / 1105	"	1.5	0.42	0.50		0.21		.6	3		"
20	2-16	1150 / 1155	"	1.5	0.40	0.45		0.18		.6	3		"
21	3-2	1600 / 1605	"	1.7	0.58	0.48		0.28		.6	4		"
22	3-16	1150 / 1155	"	1.5	0.42	0.50		0.21		.6	3		"
23	3-29	1630 / 1635	"	1.4	0.38	0.55		0.21		.6	3		"
24	4-13	1415 / 1420	"	1.9	0.62	0.50		0.31		.6	4		"
25	4-27	1532 / 1535	"	1.8	0.48	0.75		0.36		.6	4		"
26	5-11	1205 / 1210	"	1.8	0.48	0.58		0.28		.6	4		"
27	5-26	1640 / 1645	"	1.8	0.34	0.32		0.11		.6	4		"
28	6-8	1550 / 1555	"	1.8	0.28	0.43		0.12		.6	3		"
29	6-24	1400 / 1403	TURNER	1.8	0.11	0.45		0.05		.5	4		FC43
30	7-6	0805 / 0810	LUCE	2.0	0.49	0.27		0.13		.6	4		FC39
31	8-10	1540 / 1545	"	1.5	0.24	0.21		0.05		.6	3		"
32	9-8	1515 / 1520	"	1.3	0.18	0.44		0.08		.6	3		"
33	9-29	1015 / 1017	"	1.4	0.21	0.33		0.07		.6	3		"

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:

$$S = A + B - (D + E + F + X) + I + J + (K - L) + N + O + Q \text{ WHICH, IN GENERAL,}$$

S = THE RISING WATER AT WHITTIER NARROWS, IN SECOND-FEET.

A = THE MEASURED DISCHARGE AT STATION F64-R, RIO HONDO 1000 FEET ABOVE MISSION BRIDGE.

B = THE MEASURED DISCHARGE AT STATION F83-R, MISSION CREEK (FORMERLY RIO HONDO SLOUGH) AT SAN GABRIEL BLVD.

D = THE MEASURED DISCHARGE OF THE RIO HONDO ABOVE RISING WATER.

E = THE MEASURED DISCHARGE AT STATION F66B-S, TRI-CITY OUTFALL SEWER ABOVE JUNCTION WITH RIO HONDO.

F = THE MEASURED DISCHARGE OF THE EL MONTE SEWER.

X = ADDITIONAL FLOW AT VARIOUS LOCATIONS.

I = THE MEASURED DISCHARGE OF TEMPLE DITCH.

J = THE MEASURED DISCHARGE OF RINCON DITCH.

K = THE MEASURED DISCHARGE AT STATION F84S, CATE DITCH BELOW SLUICE GATE.

L = THE MEASURED, OR ESTIMATED, DISCHARGE FROM THE CATE DITCH WELL.

N = THE MEASURED DISCHARGE AT STATION F86-S, STANDEFER DITCH BELOW HEADGATE.

O = THE MEASURED DISCHARGE AT STATION F86-S, SAN GABRIEL RIVER BELOW STANDEFER DITCH.

Q = 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 1923.

Factor "E"

DISCHARGE MEASUREMENTS OF TRI-CITY OUTFALL SEWER F66B-S

~~AT~~ NEAR above Rio Hondo DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT-INGS	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
466	10-2	0745 / 0755	WADDICOR	10.5	5.72	1.56		8.9		.6	6		FC37
467	10-9	0740 / 0750	"	11.0	7.36	1.09		8.0		.6	7		"
468	10-16	0745 / 0755	"	11.2	7.63	1.10		8.4		.6	7		"
469	10-23	0740 / 0750	"	11.0	5.70	1.33		7.4		.6	7		"
470	10-30	0740 / 0750	"	8.8	5.57	0.86		4.8		.6	7		"
471	11-6	0745 / 0755	"	7.6	5.78	1.05		6.1		.6	5		"
472	11-13	0740 / 0750	"	9.8	3.49	1.60		5.6		.6	7		"
473	11-20	0745 / 0755	"	11.0	5.93	1.28		7.6		.6	7		"
474	11-28	0740 / 0750	"	11.2	5.49	0.95		5.2		.6	7		"
475	12-4	0750 / 0800	"	10.3	6.16	1.33		8.2		.6	7		"
476	12-11	0750 / 0800	"	11.0	5.55	1.44		8.0		.6	7		"
477	12-8	0755 / 0805	STUNDEN	10.0	5.04	1.41		7.1		.6	7		FC36
478	12-26	0745 / 0755	WADDICOR	10.8	6.86	0.93		6.4		.6	7		FC37
479	1-2	0750 / 0800	"	9.6	5.57	1.15		6.4		.6	7		"
480	1-8	0740 / 0750	"	10.0	5.48	0.95		5.2		.6	6		"
481	1-15	0740 / 0750	"	10.0	7.03	0.98		6.9		.6	6		"
482	1-22	0745 / 0755	"	10.2	4.42	1.11		4.9		.6	6		"
483	1-29	0745 / 0755	"	11.5	4.63	1.02		4.7		.6	6		"
484	2-13	0728 / 0738	"	11.0	5.22	1.26		6.6		.6	7		"
485	2-19	0745 / 0755	"	10.3	5.81	1.03		6.0		.6	6		"
486	2-26	0730 / 0740	WADDICOR - SILL	10.5	6.20	1.00		6.2		.6	7		"
487	3-4	0740	WADDICOR					0					

"Factor F"

DISCHARGE MEASUREMENTS OF EL MONTE SEWER

~~AT~~ NEAR Junction with Rio Hondo DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT-INGS	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
419	10-2	0805 / 0810	WADDICOR	4.0	1.63	0.55		0.92		.6	4		FC37
420	10-9	0800 / 0807	"	4.0	1.76	0.68		1.2		.6	4		"
421	10-16	0800 / 0810	"	3.5	1.65	0.48		0.79		.6	4		"
422	10-23	0800 / 0805	"	3.6	1.73	0.64		1.1		.6	4		"
423	10-30	0800 / 0805	"	3.0	1.85	0.24		0.64		.6	4		"
424	11-6	0805 / 0810	"	2.5	1.49	0.32		0.47		.6	3		"
425	11-13	0800 / 0805	"	3.7	1.55	0.58		0.88		.6	4		"
426	11-20	0805 / 0810	"	3.0	0.72	0.82		0.59		.6	4		"
427	11-28	0800 / 0810	"	3.5	0.91	0.70		0.64		.6	4		"
428	12-4	0810 / 0815	"	3.0	0.65	0.88		0.58		.6	4		"
429	12-11	0805 / 0810	"	3.0	0.84	0.92		0.77		.6	3		"
430	12-18	0740 / 0755	STUNDEN	2.0	0.68	0.75		0.51		.5	3		FC36
431	12-26	0802 / 0807	WADDICOR	3.5	1.13	0.59		0.67		.6	4		FC37
432	1-2	0810 / 0815	"	2.6	0.50	0.92		0.46		.6	4		"
433	1-8	0755 / 0800	"	3.0	0.70	0.93		0.65		.6	4		"
434	1-15	0800 / 0805	"	3.0	0.70	0.74		0.52		.6	4		"
435	1-22	0802 / 0807	"	3.0	0.64	0.75		0.48		.6	4		"
436	1-29	0802 / 0807	"	3.0	0.70	0.86		0.60		.6	5		"
437	2-5	0802 / 0807	"	3.8	1.01	0.71		0.72		.6	4		"
438	2-19	0805 / 0810	"	3.0	0.76	0.86		0.65		.6	3		"
439	2-26	0755 / 0800	WADDICOR - SILL	3.0	0.76	0.71		0.54		.6	3		"
440	3-4	0800 / 0805	WADDICOR	3.0	0.68	0.81		0.55		.6	3		"

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT-ING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
441	3-11	0800 / 0805	"	3.0	0.64	C.88		0.56		.6	3		"
442	3-18	0800 / 0805	"	3.0	0.84	0.70		0.59		.6	3		"
443	3-23	1005 / 1010	"	3.0	C.66	C.56		0.37		.6	3		"
444	4-1	0755 / 0800	"	3.0	0.76	0.96		0.73		.6	3		"
445	4-8	0815 / 0820	"	3.0	C.64	0.75		0.48		.6	3		"
446	4-15	0740 / 0745	"	3.0	C.70	0.74		0.52		.6	3		"
447	4-22	0800 / 0805	"	3.0	C.56	C.89		C.50		.6	3		"
448	4-29	0805 / 0810	"	4.0	0.86	C.99		C.85		.6	4		"
449	5-6	0807 / 0815	"	4.8	C.97	1.13		1.1		.6	5		"
450	5-13	0805 / 0810	"	4.0	C.72	0.86		C.62		.6	4		"
451	5-20	0805 / 0810	"	3.8	0.93	0.78		0.73		.6	4		"
452	5-27	0815 / 0822	"	4.2	0.78	0.77		0.60		.5	4		"
453	6-2	0820 / 0828	"	4.0	0.88	0.74		C.65		.6	4		"
454	6-10	0750 / 0755	"	3.8	1.00	C.67		0.67		.5	4		"
455	6-17	0820 / 0830	"	4.5	0.9C	C.89		C.80		.5	5		"
456	6-24	0822 / 0830	"	4.0	1.09	0.58		C.63		.6	4		"
457	6-30	0815 / 0820	"	4.0	1.18	C.61		0.72		.6	4		"
458	7-8	0755 / 0800	"	4.0	1.12	0.83		0.93		.6	4		"
459	7-15	0820 / 0825	"	2.5	0.52	1.08		0.56		.5	4		"
460	7-22	0800 / 0805	"	3.0	0.59	C.68		0.40		.6	4		"
461	7-29	0825 / 0831	WADDICOR-BONADIMAN	3.8	C.85	C.85		0.72		.5	5		"
462	8-4	0922 / 0930	LYNN-BONADIMAN	5.C	1.14	0.75		C.85		.5	4		FC19
463	8-11	0812 / 0820	BONADIMAN	5.0	0.90	C.82		0.74		.5	4		FC46
464	8-19	0810 / 0833	WADDICOR - LYNN	2.8	0.70	1.07		C.75		.5	5		FC37
465	8-26	0810 / 0815	WADDICOR	3.C	0.85	1.04		C.88		.5	3		"
466	9-2	0807 / 0812	"	4.C	1.18	1.1C		1.3		.5	4		"
467	9-8	0805 / 0810	STUNDEN	2.5	C.47	0.91		C.43		.5	5		FC36
468	9-16	0810 / 0815	WADDICOR	3.4	0.75	0.88		C.66		.5	4		FC37
469	9-22	0810 / 0817	"	3.8	C.82	C.96		C.8C		.5	4		"
470	9-30	0815 / 0820	"	3.5	C.74	1.01		C.75		.5	4		"

FACTOR " F "

DISCHARGE MEASUREMENTS OF EL MONTE SEWER

AT NEAR Junction with Rio Hondo DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT-ING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
471	10-7	0815 / 0820	WADDICOR	3.5	C.72	1.08		0.78		.5	4		FC37
472	10-14	0815 / 0820	"	3.4	C.73	C.99		0.72		.5	4		"
473	10-21	0815 / 0820	"	3.4	0.69	1.01		0.70		.5	4		"
474	10-28	0815 / 0820	"	3.5	0.75	C.88		C.66		.5	4		"
475	11-4	0820 / 0825	"	3.5	C.76	1.14		C.87		.5	4		"
476	11-12	0810 / 0815	"	3.4	C.89	0.97		0.86		.5	4		"
477	11-18	0830 / 0835	WADDICOR - WILLUT	3.0	C.66	C.92		0.61		.5	4		"
478	11-26	0800 / 0807	WADDICOR	3.0	0.59	C.97		0.57		.5	4		"
479	12-2	0805 / 0810	"	3.5	0.82	C.99		0.81		.5	4		"
480	12-9	0805 / 0810	"	3.5	C.75	C.96		0.72		.5	4		"
481	12-16	0810 / 0815	"	3.8	1.04	0.74		0.77		.5	4		"
482	12-30	0810 / 0815	"	3.7	0.96	0.76		0.73		.5	4		"
483	1-6	0805 / 0812	"	4.C	1.04	C.89		0.93		.5	4		"
484	1-27	0810 / 0817	"	4.C	1.04	0.69		0.72		.5	4		"
485	2-10	0855 / 0900	"	4.C	C.90	0.86		0.77		.5	4		"
486	2-17	0830	"					0					

"Factor I"

DISCHARGE MEASUREMENTS OF TEMPLE DITCH

~~NEAR~~ above Head of Pipeline DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT-ING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
423	10-2	1500 / 1510	WADDICOR	8.4	1.67	0.96		1.6		.6	5		FC37
424	10-9	1440 / 1450	"	7.5	2.81	0.50		1.4		.6	6		"
425	10-16	1440 / 1450	"	6.5	2.52	0.63		1.6		.6	7		"
426	10-23	1410 / 1420	"	7.5	2.32	0.73		1.7		.6	6		"
427	10-30	1500 / 1510	"	7.0	1.97	C.91		1.8		.6	5		"
428	11-6	1450 / 1500	"	6.0	1.70	1.00		1.7		.6	5		"
429	11-13	1430 / 1440	"	8.4	2.37	0.55		1.3		.6	6		"
430	11-20	1430 / 1440	"	6.6	2.10	0.67		1.4		.6	5		"
431	11-28	1400 / 1408	"	7.0	2.35	0.55		1.3		.6	5		"
432	12-4	1450	"					0					
433	12-11	1500	"					0					
434	12-18	1400	STUNDEN					C					
435	12-26	1400	STUNDEN - WADDICOR					0					
436	1-2	1435	"					C					
437	1-8	1410 / 1420	"	6.0	1.78	0.62		1.1		.6	5		FC37
438	1-15	1420 / 1430	"	5.C	1.20	0.83		1.C		.6	5		"
439	1-22	1430 / 1440	"	6.0	1.79	0.84		1.5		.6	5		"
440	1-29	1430	"					C					
441	2-13	1450 / 1500	"	5.7	1.81	0.77		1.4		.6	6		FC37
442	2-19	1310	"					C					
443	2-26	1420 / 1430	SILL - WADDICOR	6.5	1.75	C.74		1.3		.6	7		FC37
444	3-4	1430 / 1440	WADDICOR	5.7	1.78	C.73		1.3		.6	6		"
445	3-11	1440 / 1448	"	5.4	1.54	0.62		C.95		.6	6		"
446	3-18	1415 / 1425	"	5.3	1.79	0.84		1.5		.6	5		"
447	3-23	1420	"					0					
448	4-1	1420	"					C					
449	4-8	1415	"					C					
450	4-15	1420	"					0					
451	4-22	1505 / 1515	"	6.8	2.45	C.73		1.8		.6	7		FC37
452	4-29	1425 / 1435	"	6.C	2.5C	C.88		2.2		.6	6		"
453	5-6	1435 / 1445	"	4.3	1.27	1.1C		1.4		.6	5		"
454	5-13	1430 / 1440	"	5.6	1.61	0.99		1.6		.6	6		"
455	5-20	1430 / 1440	"	4.C	1.04	C.96		1.C		.6	4		"
456	5-27	1440 / 1448	"	4.C	1.C2	C.52		C.53		.5	4		"
457	6-2	1430	"					C					
458	6-10	1420 / 1430	"	4.0	1.16	0.73		0.85		.5 .6	4		FC37
459	6-17	1430 / 1437	"	4.5	1.33	0.64		0.85		.6	5		"
460	6-24	1430 / 1440	"	4.6	1.14	C.7C		C.79		.6	5		"
461	6-30	1430 / 1440	"	5.0	1.38	C.65		C.9C		.6	5		"
462	7-8	1420 / 1430	"	4.C	0.84	C.7C		C.59		.5	5		"
463	7-15	1230 / 1237	WADDICOR - BARON	4.0	1.77	0.13		C.23		.6	4		"
464	7-22	1415 / 1420	WADDICOR	3.5	0.67	C.37		C.25		.5	4		"
465	7-29	1440 / 1446	WADDICOR - BONADIMAN	2.5	0.35	0.31		0.11		.5	3		"
466	8-4	1500 / 1507	LYNN - BONADIMAN	3.5	0.65	0.26		C.17		.5	4		FC19
467	8-11	1450 / 1453	BONADIMAN	1.5	0.15	0.07		C.01		.6	2		FC46
468	8-19	1455	WADDICOR - LYNN					0					
469	8-26	1415	WADDICOR					C					
470	9-2	1400	"					0					
471	9-8	1445	"					0					
472	9-16	1510	"					0					
473	9-22	1415	"					C					
474	9-30	1435	"					0					

Factor "J"
DISCHARGE MEASUREMENTS OF RINCON DITCH

above Head of Pipeline DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
433	10-2	1420 / 1430	WADDICOR	7.5	8.37	C.80		6.7		.6	5		FC37
434	10-9	1400 / 1410	"	9.0	11.7	0.53		6.2		.6	7		"
435	10-16	1410 / 1420	"	7.5	8.28	0.75		6.2		.6	5		"
436	10-23	1500 / 1510	"	7.5	8.81	0.73		6.4		.6	6		"
437	10-30	1420 / 1430	"	7.0	5.80	C.81		4.7		.6	5		"
438	11-6	1415 / 1425	"	7.0	7.83	C.74		5.8		.6	5		"
439	11-13	1400 / 1410	"	9.8	8.23	0.92		7.6		.6	6		"
440	11-20	1355 / 1405	"	7.0	7.68	C.66		5.1		.6	6		"
441	11-28	1300 / 1310	"	7.2	7.46	1.06		7.9		.6	5		"
442	12-4	1432	"					0					
443	12-11	1430	"					0					
444	12-18	1410	STUNDEN					0					
445	12-26	1330	STUNDEN - WADDICOR					C					
446	1-2	1420	WADDICOR					0					
447	1-8	1400	"					0					
448	1-15	1410	"					0					
449	1-22	1415	"					C					
450	1-29	1400 / 1410	"	4.0	1.08	0.93		1.0		.6	4		FC37
451	2-13	1440	"					C					
452	2-19	1300	"					0					
453	2-26	1405	WADDICOR - STILL					C					
454	3-4	1405	WADDICOR					0					
455	3-11	1420 / 1425	"	2.0	0.29	C.41		C.12		.6	4		FC37
456	3-18	1400	"					0					
457	3-23	1405	"					0					
458	4-1	1400	"					C					
459	4-8	1400	"					C					
460	4-15	1400	"					0					
461	4-22	1448	"					C					
462	4-29	1400 / 1410	"	6.2	5.56	0.81		4.5		.6	6		FC 37
463	5-6	1415 / 1425	"	5.5	3.03	1.23		3.7		.6	4		"
464	5-13	1350 / 1400	"	5.3	2.62	1.30		3.4		.6	5		"
465	5-20	1400 / 1410	"	5.8	3.11	1.35		4.2		.6	6		"
466	5-28	1410 / 1420	"	6.0	3.28	1.31		4.3		.6	6		"
467	6-2	1400 / 1410	"	6.C	3.68	1.25		4.6		.6	6		"
468	6-10	1355 / 1405	"	5.6	2.92	1.37		4.C		.6	6		"
469	6-17	1405 / 1415	"	5.8	2.74	1.28		3.5		.6	6		"
470	6-24	1400 / 1410	"	6.9	3.24	1.05		3.4		.6	7		"
471	6-30	1405 / 1415	"	6.3	2.91	1.13		3.3		.6	7		"
472	7-8	1350 / 1400	"	5.2	2.39	1.21		2.9		.6	6		"
473	7-15	1210 / 1220	BARON - WADDICOR	4.6	2.18	1.28		2.8		.6	5		"
474	7-22	1345 / 1355	WADDICOR	5.0	2.32	1.21		2.8		.6	5		"
475	7-29	1410 / 1420	WADDICOR - BONADIMAN	4.C	1.61	1.06		1.7		.6	5		"
476	8-4	1420 / 1430	LYNN - BONADIMAN	4.0	1.53	1.18		1.8		.6	6		FC19
477	8-11	1410 / 1418	BONADIMAN	4.5	1.53	0.92		1.4		.6	5		FC46
478	8-19	1440 / 1450	LYNN - WADDICOR	4.0	1.44	0.83		1.2		.6	4		FC37
479	8-26	1350 / 1357	WADDICOR	3.5	0.94	1.03		0.97		.6	4		"
480	9-2	1340 / 1347	"	2.0	C.30	0.60		0.18		.5	4		"
481	9-8	1415 / 1420	STUNDEN	3.0	0.91	0.82		0.75		.5	4		FC36
482	9-16	1440 / 1450	WADDICOR	3.5	0.86	0.80		0.69		.6	4		FC37
483	9-22	1350 / 1400	"	4.3	1.65	0.73		1.2		.5	4		"
484	9-30	1415 / 1420	"	3.2	0.97	0.57		0.55		.5	4		"

FACTOR " J "
DISCHARGE MEASUREMENTS OF RINCON DITCH

~~NEAR~~ above Head of Pipeline DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
485	10-7	1430 / 1437	WADDICOR	4.0	1.48	0.64		0.95		.6	4		FC37
486	10-14	1405 / 1410	"	3.5	1.47	0.63		0.92		.5	4		"
487	10-21	1400 / 1407	"	3.8	1.36	0.51		0.69		.6	4		"
488	10-28	1422 / 1428	"	3.5	1.13	0.38		0.43		.5	4		"
489	11-4	1430 / 1436	"	3.4	1.53	0.58		0.89		.5	4		"
490	11-12	1400 / 1405	"	3.5	1.0C	1.0C		1.0		.6 / .5	4		"
491	11-18	1330 / 1340	WADDICOR - WILLLT	3.8	1.44	0.51		C.74		.6	5		"
492	11-26	1405 / 1412	WADDICOR	3.2	1.08	0.62		0.67		.6	4		"
493	12-2	1430 / 1437	"	3.3	1.05	0.78		C.82		.5	4		"
494	12-9	1445 / 1452	"	3.5	1.19	C.71		0.84		.5	4		"
495	12-16	1400 / 1405	"	3.5	1.31	0.63		0.83		.6	4		"
496	12-30	1515	"					0					
497	1-6	1420	"					0					
498	1-27	1345	"					0					
499	2-10	1400	"					0					
500	2-17	1410	"					0					
501	2-24	1420	"					0					
502	3-3	1425	"					0					
503	3-10	1330	"					0					
504	3-17	1440	"					0					
505	3-24	1525	"					0					
506	3-30	1445	"					C					
507	4-7	1420	"					C					
508	4-14	1420	"					C					
509	4-21	1410	"					C					
510	4-28	1415 / 1420	"	3.5	0.66	0.52		C.34		.5	4		FC37
511	5-5	1420 / 1425	"	3.5	1.01	0.36		0.37		.5	4		"
512	5-12	1400 / 1405	"	3.5	1.01	0.27		C.27		.5	4		"
513	5-19	1445 / 1452	"	4.C	1.00	0.44		C.44		.5	4		"
514	5-26	1500 / 1505	"	3.5	1.5	C.34		0.39		.5	4		"
515	6-1	1420 / 1422	"	2.C	C.2C	0.30		C.06		.5	2		"
516	6-9	1350 / 1352	"	2.C	C.18	0.33		C.06		.5	2		"
517	6-16	1410	"					0					
518	6-23	1405	"					C					
519	6-30	1430	"					0					
520	7-7	1500	"					0					
521	7-14	1429	"					C					
522	7-20	1400	BONADIMAN					0					
523	7-27	1350	"					0					
524	8-3	1350	"					0					
525	8-10	1420	"					C					
526	8-17	1430	"					0					
527	8-24	1400	WADDICOR					0					
528	8-31	1300	"					0					
529	9-7	1400	"					0					
530	9-14	1500	"					0					
531	9-21	1350	"					0					
532	9-29	1400	"					0					

Factor "K"
DISCHARGE MEASUREMENTS OF CATE DITCH F 84 S

AT OR NEAR below Sluice gate DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC.FT.	RATING	METHOD	MEAS. SEC. NO.	S. NT. CHANGE TOTAL	METER NO.
551	10-2	0932 / 0942	WADDICOR	10.4	13.5	1.18		15.9		.6	8		FC37
552	10-9	0925 / 0935	"	9.3	9.58	1.40		13.4		.6	7		"
553	10-16	0930 / 0940	"	9.2	8.83	1.27		11.2		.6	7		"
554	10-23	0928 / 0938	"	9.2	8.83	1.28		11.3		.6	7		"
555	10-30	0930 / 0940	"	9.5	8.88	1.26		11.2		.6	7		"
556	11-6	0925 / 0935	"	9.1	8.88	1.09		9.7		.6	7		"
557	11-13	0945 / 0955	"	9.6	11.6	0.91		10.6		.6	7		"
558	11-20	1030 / 1040	"	9.3	8.68	1.30		11.3		.6	7		"
559	11-28	0945 / 0955	"	9.5	8.40	1.10		9.3		.6	7		"
560	12-4	0940 / 0950	"	8.8	9.35	1.47		12.5		.6	7		"
561	12-11	0952 / 1000	"	4.0	1.00	0.50		0.50		.6	4		"
562	12-18	0940 / 0950	STUNDEN	8.0	6.43	0.56		3.6		.6	5		FC36
563	12-26	0940 / 0950	WADDICOR	4.0	1.28	1.17		1.5		.6	4		FC37
564	1-2	0930 / 0938	"	4.1	1.27	0.72		0.92		.6	5		"
565	1-8	0927 / 0934	"	4.3	1.10	0.37		0.41		.6	5		"
566	1-15	0925 / 0930	"	3.0	0.62	0.65		0.40		.6	3		"
567	1-22	0920 / 0930	"	6.7	3.46	1.07		3.7		.6	5		"
568	1-29	0930 / 0940	"	7.0	3.56	1.24		4.4		.6	5		"
569	2-13	0940 / 0950	"	5.0	1.90	1.00		1.9		.6	5		"
570	2-19	0910 / 0920	"	5.4	2.18	1.10		2.4		.6	5		"
571	2-26	0940 / 0950	SILL - WADDICOR	6.0	2.46	0.98		2.4		.6	6		"
572	3-4	0920 / 0925	WADDICOR	6.0	2.72	0.96		2.6		.6	6		"
573	3-11	0935 / 0945	"	8.8	5.78	1.05		6.1		.6	5		"
574	3-18	0930 / 0940	"	9.2	5.88	1.16		6.8		.6	5		"
575	3-23	1110 / 1120	"	8.8	5.35	1.01		5.4		.6	5		"
576	4-1	0930 / 0938	"	6.0	2.87	0.94		2.7		.6	4		"
577	4-8	0930 / 0938	"	8.0	3.71	0.92		3.4		.6	5		"
578	4-15	0900 / 0910	"	7.0	3.08	0.84		2.6		.6	7		"
579	4-22	0915 / 0925	"	7.9	3.10	0.87		2.7		.6	5		"
580	4-29	0910 / 0920	"	9.4	8.73	1.34		11.7		.6	6		"
581	5-6	0930 / 0940	"	9.0	7.42	1.16		8.6		.6	6		"
582	5-13	0935 / 0945	"	9.0	7.06	1.22		8.6		.6	6		"
583	5-20	0915 / 0925	"	9.0	9.06	1.22		11.1		.6	6		"
584	5-27	0942 / 0952	"	9.1	8.83	1.31		11.6		.6	10		"
585	6-2	0935 / 0945	"	9.0	11.0	1.33		14.6		.6	9		"
586	6-10	0905 / 0915	"	8.5	10.1	1.31		13.2		.6	6		"
587	6-17	0942 / 0952	"	8.6	8.73	1.27		11.1		.6	6		"
588	6-24	0940 / 0950	"	9.4	11.3	1.30		14.7		.6	10		"
589	6-30	0935 / 0945	"	9.2	10.4	1.26		13.5		.6	10		"
590	7-8	0910 / 0920	"	9.3	12.7	0.92		11.7		.6	10		"
591	7-15	0952 / 1002	WADDICOR - BARON	9.5	10.1	1.15		11.6		.6	8		"
592	7-22	0925 / 0935	WADDICOR	9.0	11.4	1.11		12.7		.6	10		"
593	7-29	0950 / 1000	WADDICOR - BONADIMAN	9.2	9.89	0.87		8.6		.6	7		"
594	8-4	1100 / 1114	LYNN - BONADIMAN	10.0	13.3	0.71		9.5		.6	8		FC19
595	8-11	0955 / 1007	BONADIMAN	10.0	11.5	0.81		9.3		.6	9		FC46
596	8-19	1037 / 1047	WADDICOR - LYNN	7.0	12.6	0.49		6.2		.6	7		FC37
597	8-19	1053 / 1103	"	9.0	14.7	0.45		6.6		.6	8		"
598	8-26	0950 / 1000	WADDICOR	9.5	13.3	0.71		9.4		.6	6		"
599	9-2	0942 / 0952	"	10.0	10.4	0.69		7.2		.6	7		"
600	9-8	1030 / 1045	STUNDEN	12.5	16.9	0.66		11.1		.6	13		FC36
601	9-16	0940 / 0950	WADDICOR	7.5	9.17	0.70		6.4		.6	8		FC37
602	9-22	0940 / 0950	"	7.5	8.63	0.93		8.0		.6	8		"
603	9-30	0935 / 0945	"	7.1	7.95	1.06		8.4		.6	8		"

Factor "K"
DISCHARGE MEASUREMENTS OF CATE DITCH F 84-S

AT OR NEAR below Sluice gate DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	S. NT. CHANGE TOTAL	METER NO.
604	10-7	0945 / 0955	WADDICOR	9.7	8.64	0.89		7.7		.6	7		FC37
605	10-14	0945 / 0955	"	9.8	8.83	0.85		7.5		.6	7		"
606	10-21	0935 / 0945	"	9.7	8.69	0.85		7.4		.6	9		"
607	10-28	0940 / 0950	"	9.8	9.26	0.84		7.8		.6	10		"
608	11-4	1020 / 1030	"	9.8	9.36	0.81		7.6		.6	9		"
609	11-12	0930 / 0940	"	9.0	8.87	0.88		7.8		.6	7		"
610	11-18	1000 / 1010	WADDICOR - WILLUT	9.5	9.33	0.93		8.7		.6	8		"
611	11-26	0925 / 0935	WADDICOR	9.8	10.5	0.81		8.5		.6	8		"
612	12-2	0940 / 0950	"	10.0	11.5	0.87		10.0		.6	8		"
613	12-9	0935 / 0945	"	10.0	10.2	0.85		8.7		.6	10		"
614	12-16	1010 / 1020	"	9.0	9.46	0.93		8.8		.6	9		"
615	12-30	1000 / 1007	"	5.2	2.83	0.92		2.6		.6	5		"
616	1-6	0928 / 0938	"	5.7	2.90	0.69		2.0		.6	6		"
617	1-27	1050 / 1055	"	1.8	0.18	0.39		0.07		.5	2		"
618	2-10	1010 / 1015	"	2.8	0.40	0.52		0.21		.5	3		"
619	2-17	0955 / 1000	"	3.0	0.46	0.67		0.31		.5	3		"
620	2-24	0935 / 0940	"	3.0	0.46	0.70		0.32		.5	3		"
621	3-3	1015 / 1020	"	3.0	0.46	0.78		0.36		.5	3		"
622	3-10	1022 / 1026	WADDICOR - DIAS	3.0	0.50	0.64		0.32		.5	3		"
623	3-17	0950 / 0955	WADDICOR	3.0	0.54	0.76		0.41		.5	4		"
624	3-24	0940 / 0945	"	3.6	0.88	0.69		0.61		.5	4		"
625	3-30	0930 / 0937	"	4.0	2.14	1.07		2.3		.5	4		"
626	4-7	0953 / 0957	WADDICOR - LANG	4.5	3.27	0.92		3.0		.6	5		"
627	4-14	0932 / 0942	WADDICOR	8.6	6.62	1.03		6.8		.6	9		"
628	4-21	0920 / 0930	"	9.6	9.57	1.21		11.6		.6	8		"
629	4-28	0930 / 0940	"	9.2	7.45	1.10		8.2		.6	9		"
630	5-5	0935 / 0945	"	9.4	6.86	0.95		6.5		.6	9		"
631	5-12	0915 / 0925	"	6.7	8.43	1.00		8.4		.6	7		"
632	5-19	0930 / 0940	"	7.0	7.72	0.96		7.4		.6	7		"
633	5-26	0907 / 0917	"	7.0	9.41	0.94		8.8		.6	7		"
634	6-1	1002 / 1014	WADDICOR - MOON	7.0	8.81	0.50		4.4		.6	7		"
635	6-9	0920 / 0930	WADDICOR	7.0	11.1	0.93		10.3		.6	7		"
636	6-16	0920 / 0930	"	7.0	8.65	0.65		5.6		.6	7		"
637	6-23	0850 / 0900	"	7.0	12.9	1.03		13.3		.6	7		"
638	6-30	0910 / 0920	"	7.0	10.6	0.81		8.6		.6	7		"
639	7-7	1012 / 1050	WADDICOR-REINHARD	7.0	8.26	0.56		4.6		.6	7		"
640	7-14	0925 / 0935	WADDICOR	7.0	7.30	0.52		3.8		.6	7		"
641	7-20	0946 / 0956	BONADIMAN	7.9	7.07	0.48		3.4		.6	7		FC46
642	7-27	0908 / 0924	"	6.8	7.98	0.54		4.3		.6	7		"
643	7-27	1050 / 1100	"	6.8	8.69	0.60		5.2		.6	7		"
644	8-3	0904 / 0920	"	7.8	10.0	0.63		6.3		.6	7		"
645	8-10	0917 / 0927	"	6.8	10.3	0.56		5.8		.6	7		"
646	8-17	0930 / 0940	"	6.8	7.40	0.42		3.1		.6	7		"
647	8-24	0915 / 0925	WADDICOR	7.0	11.2	0.61		6.8		.6	7		FC37
648	8-31	0910 / 0920	"	7.0	9.65	0.34		3.3		.6	8		"
649	9-7	0910 / 0920	"	7.0	8.24	0.38		3.1		.6	7		"
650	9-14	1017 / 1035	REINHARD-WADDICOR	7.0	11.5	0.52		6.0		.6	7		"
651	9-21	0910 / 0920	WADDICOR	7.0	6.89	0.45		3.1		.6	7		"
652	9-29	0920 / 0930	"	7.0	13.0	0.25		3.2		.6	7		"

Factor "N"
DISCHARGE MEASUREMENTS OF STANDEFER DITCH F 85-S

AT OR NEAR below Headgate DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATINGS	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
552	10-2	1000 1010	WADDICOR	4.7	6.54	2.83		18.5		.6	5		FC37
553	10-9	1000 1010	"	4.6	6.08	2.73		16.6		.6	5		"
554	10-16	1000 1008	"	3.4	1.28	0.70		0.90		.6	5		"
555	10-23	0945 0955	"	4.68	6.46	2.86		18.5		.6	5		"
556	10-30	0950 1000	"	4.67	6.54	3.12		20.4		.6	5		"
557	11-6	0947 0957	"	4.7	6.54	3.04		19.9		.6	5		"
558	11-13	1010 1018	"	4.68	6.46	2.70		17.4		.6	5		"
559	11-20	0937 0947	"	4.6	6.08	2.84		17.3		.6	5		"
560	11-28	1010 1020	"	4.64	6.26	2.66		16.7		.6	5		"
561	12-4	1005 1015	"	4.1	3.90	2.28		8.9		.6	5		"
562	12-11	1020 1025	"	3.4	1.28	0.64		0.82		.6	6		"
563	12-18	1025 1035	STUNDEN	3.4	1.59	1.07		1.7		.5	5		FC36
564	12-26	1010 1015	WADDICOR	3.21	1.09	1.19		1.3		.6	4		FC37
565	1-2	0948 0953	"	3.2	1.02	0.59		0.60		.6	4		"
566	1-8	0942 0952	"	3.2	0.90	0.36		0.32		.6	4		"
567	1-15	0945 0952	"	3.7	2.34	1.45		3.4		.6	5		"
568	1-22	0955 1005	"	3.66	2.20	1.41		3.1		.6	5		"
569	1-29	0955 1005	"	4.14	4.06	2.31		9.4		.6	5		"
570	2-13	1015 1025	"	3.8	2.72	1.69		4.6		.6	5		"
571	2-19	0930 0937	"	3.8	2.72	1.68		4.6		.6	5		"
572	2-26	1005 1015	WADDICOR - SILL	3.76	2.56	1.64		4.2		.6	5		"
573	3-4	0937 0947	WADDICOR	4.4	5.18	2.74		14.2		.6	5		"
574	3-11	1022 1031	"	4.6	6.08	2.98		18.1		.6	5		"
575	3-18	0950 1000	"	4.4	5.18	2.68		13.9		.6	5		"
576	3-23	1125 1135	"	4.16	4.16	2.40		10.0		.6	5		"
577	4-1	0950 0955	"	3.2	0.64	0.45		0.29		.6	3		"
578	4-8	0952	"					0					
579	4-15	0925 0930	"	3.0	0.72	0.65		0.48		.6	3		FC37
580	4-22	0940 0947	"	3.56	1.84	1.25		2.3		.6	5		"
581	4-29	0940 0950	"	4.04	3.66	2.21		8.1		.6	5		"
582	5-6	1000	"					0					
583	5-13	0950 1000	"	4.5	5.62	2.94		16.5		.6	5		FC37
584	5-20	0940 0950	"	4.42	5.26	2.93		15.4		.6	5		"
585	5-27	1002 1012	"	4.42	5.26	2.82		14.8		.6	5		"
586	6-2	0955 1003	"	4.52	5.72	2.90		16.6		.6	5		"
587	6-10	0925 0935	"	4.5	5.62	2.98		16.8		.6	5		"
588	6-17	1010 1020	"	4.5	5.62	2.95		16.6		.6	5		"
589	6-24	1020 1030	"	4.34	5.06	2.73		13.8		.6	5		"
590	6-30	1000 1010	"	4.26	4.58	2.60		11.9		.6	5		"
591	7-8	0935 0942	"	4.30	4.74	2.68		12.7		.6	5		"
592	7-15	1020 1030	WADDICOR - BARON	4.40	5.18	2.47		12.8		.6	5		"
593	7-22	0950 0957	WADDICOR	4.34	4.92	2.44		12.0		.6	5		"
594	7-29	1020 1026	WADDICOR-BONADIMAN	4.5	4.88	2.56		12.5		.6	5		"
595	8-4	1130 1138	BONADIMAN - LYNN	4.16	4.55	2.66		12.1		.6	5		FC19
596	8-11	1028 1035	BONADIMAN	4.16	4.37	2.45		10.7		.6	5		FC46
597	8-19	1127 1137	WADDICOR - LYNN	4.34	4.92	2.52		12.4		.6	5		FC37
598	8-26	1015 1023	WADDICOR	4.24	4.48	2.23		10.0		.6	5		"
599	9-2	1022 1029	"	4.28	4.66	2.51		11.7		.6	5		"
600	9-8	1110 1125	STUNDEN	4.2	4.49	2.54		11.4		.6	9		FC36
601	9-16	1015 1025	WADDICOR	4.28	4.66	2.60		12.1		.6	5		FC37
602	9-22	1012 1020	"	4.2	4.32	2.41		10.4		.6	5		"
603	9-30	1000 1010	"	4.28	4.66	2.38		11.1		.6	5		"

Factor "N"
DISCHARGE MEASUREMENTS OF STANDEFER DITCH F 85-S

AT OR NEAR below Headgate DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATINGS	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
604	10-7	1035 1042	WADDICOR	4.30	4.74	2.45		11.6		.6	5		FC37
605	10-14	1010 1017	"	4.34	4.92	2.52		12.4		.6	5		"
606	10-21	1002 1010	"	4.30	4.74	2.51		11.9		.6	5		"
607	10-28	1002 1012	"	4.30	4.74	2.70		12.8		.6	5		"
608	11-4	1042 1052	"	4.34	4.92	2.66		13.1		.6	5		"
609	11-12	1000 1008	"	4.34	4.92	2.22		10.9		.6	5		"
610	11-18	1032 1037	WADDICOR - WILLUT	4.34	4.92	2.48		12.2		.6	5		"
611	11-26	0950 0958	WADDICOR	4.30	4.74	2.47		11.7		.6	5		"
612	12-2	1020 1028	"	4.30	4.74	2.45		11.6		.6	5		"
613	12-9	1005 1012	"	4.36	5.00	2.44		12.2		.6	5		"
614	12-16	1035 1045	"	4.34	4.92	2.42		11.9		.6	5		"
615	12-30	1030	"					0					
616	1-6	0940 0950	"	4.34	4.92	2.56		12.6		.6	5		FC37
617	1-27	1125 1128	"	3.15	0.77	0.21		0.16		.5	4		"
618	2-10	1032	"					0					
619	2-17	1015	"					0					
620	2-24	0955	"					0					
621	3-3	1035	"					0					
622	3-10	1044	"					0					
623	3-17	1010	"					0					
624	3-24	1045						0					
625	3-30	1015						0					
626	4-7	1023 1028	WADDICOR - LANG	4.00	3.50	2.31		8.1		.6	5		FC37
627	4-14	1000 1007	WADDICOR	4.00	3.50	2.28		8.0		.6	5		"
628	4-21	0944 0950	"	4.02	3.58	2.26		8.1		.6	5		"
629	4-28	0954 1002	"	4.04	3.66	2.24		8.2		.6	5		"
630	5-5	1015 1022	"	4.04	3.66	2.32		8.5		.6	5		"
631	5-12	1000 1007	"	4.20	4.32	2.73		11.8		.6	5		"
632	5-19	0930 0958	"	4.34	4.92	2.70		13.3		.6	5		"
633	5-26	1002 1010	"	4.32	4.84	2.73		13.2		.6	5		"
634	6-1	1059 1107	WADDICOR - MOON	4.18	4.24	2.60		11.0		.6	5		"
635	6-9	1028 1035	WADDICOR	4.22	4.40	2.54		11.2		.6	5		"
636	6-16	1022 1029	"	4.16	4.16	2.43		10.1		.6	5		"
637	6-23	0935 0942	"	4.06	3.74	2.27		8.5		.6	5		"
638	6-30	0950 0957	"	4.08	3.82	2.38		9.1		.6	5		"
639	7-7	1122 1130	WADDICOR - REINHARD	4.00	3.50	2.28		8.0		.6	5		"
640	7-14	0950 0958	WADDICOR	3.96	3.34	2.13		7.1		.6	5		"
641	7-20	1018 1029	BONADIMAN	3.76	2.58	1.47		3.8		.6	5		FC46
642	7-27	1000 1018	"	3.98	3.46	2.01		7.0		.6	5		"
643	8-3	0950 1000	"	4.00	3.56	1.88		6.7		.6	5		"
644	8-10	1000 1008	"	3.98	3.40	1.82		6.2		.6	5		"
645	8-17	1000 1008	"	3.98	3.50	1.89		6.6		.6	5		"
646	8-24	0935 0943	WADDICOR	3.98	3.42	1.99		6.8		.6	5		FC37
647	8-31	1010 1017	"	3.96	3.34	1.95		6.6		.6	5		"
648	9-7	0945 0953	"	3.96	3.34	2.04		6.8		.6	5		"
649	9-14	1240 1250	REINHARD - WADDICOR	3.90	3.10	1.94		6.0		.6	5		"
650	9-21	0935 0943	WADDICOR	3.94	3.26	1.90		6.2		.6	5		"
651	9-29	0945 0953	"	4.00	3.50	2.17		7.6		.6	5		"

Factor "O"
DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER F86-S

AT near below Standefer Ditch DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
547	10-2	1030 / 1040	WADDICOR	16.0	14.7	1.13		16.6		.6	9		FC37
548	10-9	1020 / 1030	"	15.5	14.0	1.20		16.8		.6	9		"
549	10-16	1015 / 1040	"	THREE CHANNELS				36.3		.6	19		"
550	10-23	1000 / 1030	"	"	"			22.4		.6	15		"
551	10-30	1005 / 1025	"	"	"			18.4		.6	13		"
552	11-6	1000 / 1025	"	FOUR CHANNELS				19.3		.6	20		"
553	11-13	1025 / 1040	"	TWO CHANNELS				22.0		.6	17		"
554	11-20	0955 / 1010	"	THREE CHANNELS				18.9		.6	15		"
555	11-28	1025 / 1045	"	"	"			20.6		.6	15		"
556	12-4	1020 / 1040	"	TWO CHANNELS				32.8		.6	12		"
557	12-11	1030 / 1047	"	THREE CHANNELS				54.4		EST. .6	16		"
558	12-18	1040 / 1100	STUNDEN	36.0	36.8	1.58		56.5		.6	10		FC36
559	12-26	1030 / 1042	WADDICOR	32.0	37.1	1.50		55.6		.6	10		FC37
560	1-2	1008 / 1028	"	FOUR CHANNELS				52.1		.6	20		"
561	1-8	1000 / 1020	"	THREE CHANNELS				53.4		.6	21		"
562	1-15	1000 / 1020	"	"	"			51.0		.6	18		"
563	1-22	1010 / 1030	"	"	"			42.8		.6	17		"
564	1-29	1010 / 1027	"	"	"			42.3		.6	14		"
565	2-13	1030 / 1045	"	THREE CHANNELS				43.0		.6	22		"
566	2-19	0945 / 1000	"	TWO CHANNELS				44.3		.6	16		"
567	2-26	1025 / 1045	WADDICOR - SILL	"	"			43.5		.6	16		"
568	3-4	0955 / 1010	WADDICOR	"	"			35.0		.6	16		"
569	3-11	1037 / 1055	"	"	"			25.7		.6	15		"
570	3-18	1005 / 1022	"	"	"			36.4		.6	16		"
571	3-23	1140 / 1155	"	"	"			40.3		.6	15		"
572	4-1	1005 / 1020	"	"	"			52.6		.6	14		"
573	4-8	1000 / 1020	"	"	"			50.6		.6	15		"
574	4-15	0935 / 0955	"	"	"			49.0		.6	16		"
575	4-22	0955 / 1015	"	"	"			43.3		.6	15		"
576	4-29	0957 / 1017	"	"	"			30.1		.6	14		"
577	5-6	1008 / 1026	"	"	"			38.4		.6	14		"
578	5-13	1007 / 1022	"	"	"			21.0		.6	13		"
579	5-20	0955 / 1012	"	"	"			15.9		.6	13		"
580	5-27	1020 / 1038	"	"	"			14.8		.6	11		"
581	6-2	1012 / 1032	"	"	"			14.7		.6	12		"
582	6-10	0940 / 0955	"	"	"			12.3		.6	12		"
583	6-17	1025 / 1040	"	"	"			12.8		.6	10		"
584	6-24	1035 / 1050	"	"	"			13.6		.6	15		"
585	6-30	1015 / 1032	"	"	"			15.1		.6	12		"
586	7-8	0945 / 1002	"	"	"			15.3		.6	13		"
587	7-15	1038 / 1050	WADDICOR - BARON	"	"			17.3		.6	12		"
588	7-22	1005 / 1027	WADDICOR	"	"			15.5		.6	12		"
589	7-29	1036 / 1053	WADDICOR - BONADIMAN	"	"			14.3		.5	11		"
590	8-4	1146 / 1200	BONADIMAN - LYNN	"	"			15.1		.5 .6	10		FC19
591	8-11	1045 / 1100	BONADIMAN	"	"			13.1		.6	11		FC46
592	8-19	1140 / 1155	WADDICOR - LYNN	"	"			15.2		.6	12		FC37
593	8-26	1027 / 1039	WADDICOR	"	"			13.9		.6 .5	10		"
594	9-2	1032 / 1045	"	"	"			13.1		.6	10		"
595	9-8	1130 / 1145	STUNDEN	9.0	8.42	1.56		13.1		.6	9		FC36
596	9-16	1025 / 1040	WADDICOR	TWO CHANNELS				13.1		.5 .6	11		FC37
597	9-22	1025 / 1038	"	"	"			12.1		.6	10		"
598	9-30	1015 / 1030	"	"	"			12.4		.6	10		"

FACTOR "O"
DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER F86-S

AT near below Standefer Ditch DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
599	10-7	1047 / 1059	WADDICOR	TWO CHANNELS				11.9		.6 .5	11		FC37
600	10-14	1020 / 1032	"	9.7	10.6	1.23		13.2		.6	10		"
601	10-21	1015 / 1025	"	9.5	9.93	1.24		12.3		.6	9		"
602	10-28	1020 / 1030	"	8.6	9.01	1.43		12.9		.6	9		"
603	11-4	1100 / 1110	"	9.5	10.3	1.38		14.2		.6	7		"
604	11-12	1020 / 1030	"	9.8	12.1	1.60		19.4		.6	7		"
605	11-18	1045 / 1055	WADDICOR - WILLUT	8.8	9.80	1.39		13.6		.6	9		"
606	11-26	1010 / 1020	WADDICOR	TWO CHANNELS				15.3		EST. .6	8		"
607	12-2	1035 / 1045	"	"	"			16.4		EST. .6	10		"
608	12-9	1020 / 1030	"	9.5	10.4	1.39		14.5		.6	10		"
609	12-16	1055 / 1105		8.5	8.16	1.56		12.7		.6	9		"
610	12-30	1035 / 1045	"	TWO CHANNELS				35.3		6	9		"
611	1-6	0950 / 1010	"	"	"			20.7		.6	11		"
612	1-27	1135 / 1150	"	"	"			36.3		.6	14		"
613	2-10	1035 / 1052	"	"	"			37.7		.6	14		
614	2-17	1022 / 1037	"	"	"			39.6		.6	13		"
615	2-24	1010 / 1030	"	"	"			38.2		.6	14		"
616	3-3	1040 / 1055	"	16.5	16.0	2.69		43.0		.6	10		"
617	3-10	1100 / 1114	WADDICOR - DIAS	21.0	16.9	2.38		40.2		.6	10		"
618	3-17	1017 / 1029	WADDICOR	21.5	17.8	2.18		38.8		.6	10		"
619	3-24	1056 / 1108	"	22.5	18.5	2.16		39.9		.6	9		"
620	3-30	1022 / 1034	"	22.0	18.7	2.07		38.8		.6	9		"
621	4-7	1046 / 1056	WADDICOR - LANG	16.8	20.0	1.31		26.2		.6	10		"
622	4-14	1012 / 1027	WADDICOR	17.8	17.5	1.11		19.5		.6	10		"
623	4-21	0955 / 1010	"	17.2	19.2	0.82		15.8		.6	10		"
624	4-38	1010 / 1020	"	17.5	17.3	0.82		14.2		.6	8		"
625	5-5	1035 / 1047	"	19.0	17.8	0.83		14.7		.6	10		"
626	5-12	1017 / 1027	"	10.0	8.46	1.41		11.9		.6	10		"
627	5-19	1007 / 1017	"	11.2	10.8	1.44		15.5		.6	7		"
628	5-26	1020 / 1040	"	11.0	11.1	1.14		12.6		.6	8		"
629	6-1	1115 / 1125	WADDICOR - MOON	10.0	8.53	1.23		10.5		.6	8		"
630	6-9	1045 / 1052	WADDICOR	10.4	9.47	1.17		11.1		.6	8		"
631	6-16	1033 / 1043	"	10.0	9.57	1.11		10.6		.6	8		"
632	6-23	0950 / 1000	"	10.5	9.14	0.94		8.6		.6	7		"
633	6-30	1010 / 1020	"	11.4	10.9	0.91		9.9		.6	8		"
634	7-7	1140 / 1150	"	11.0	9.77	0.78		7.6		.6	8		"
635	7-14	1005 / 1015	"	11.0	10.7	0.72		7.7		.6	8		"
636	7-20	1040 / 1054	"	12.0	12.4	0.67		8.3		.6	8		FC46
637	7-27	1020 / 1030	"	12.0	11.7	0.50		5.9		.6	8		"
638	8-3	1010 / 1020	"	13.0	15.0	0.39		5.8		.6	7		"
639	8-10	1020 / 1030	"	15.0	5.42	1.16		6.3		.6	8		"
640	8-17	1020 / 1030	"	10.0	5.58	1.11		6.2		.6	6		"
641	8-24	1000 / 1010	WADDICOR	10.0	5.42	1.18		6.4		.6	7		FC37
642	8-31	1025 / 1035	"	11.0	6.26	0.96		6.0		.6	8		"
643	9-7	1000 / 1010	"	12.2	7.11	0.86		6.1		.6	8		"
644	9-14	1300 / 1318	REINHARD - WADDICOR	10.5	4.47	1.12		5.0		.6	10		"
645	9-21	0955 / 1005	WADDICOR	12.0	6.47	0.97		6.3		.6	8		"
646	9-29	1000 / 1010	"	10.0	5.49	1.28		7.0		.6	7		"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No._____

Daily discharge, in second-feet of RISING WATER at Whittier Narrows, for the year ending September 30, 1948

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	78.2	85.7	86.0	86.6	88.5	82.6	92.1	85.1	77.7	66.4	58.5	53.5
2	78.5	85.4	86.1	85.3	88.4	83.1	91.7	84.3	78.0	65.9	57.7	53.7
3	78.8	85.1	86.2	85.6	88.3	83.7	91.4	83.6	78.0	65.4	56.9	53.6
4	79.2	84.8	86.3	86.0	88.2	84.2	91.0	82.8	78.0	65.0	56.1	53.4
5	79.5	84.5	86.7	86.4	88.1	83.4	90.6	82.0	78.0	64.6	55.5	53.2
6	79.9	84.2	87.1	86.8	88.0	82.5	90.2	81.3	78.0	64.1	54.8	53.1
7	80.3	84.8	87.5	87.2	87.4	81.7	89.9	81.1	77.9	63.6	54.2	53.0
8	80.7	85.4	88.0	87.6	86.9	80.8	89.5	81.0	77.9	63.2	53.5	52.8
9	81.1	86.0	88.5	87.4	86.4	80.0	88.8	80.8	77.9	63.6	52.9	52.9
10	81.4	86.6	89.0	87.1	85.9	79.2	88.1	80.7	77.9	63.9	52.2	53.0
11	81.7	87.3	89.5	86.9	85.4	78.5	87.3	80.5	77.0	64.3	51.6	53.1
12	82.0	88.0	89.6	86.6	84.9	79.2	86.6	80.4	76.0	64.6	51.9	53.2
13	82.3	88.7	89.7	86.4	84.4	80.2	85.9	80.2	75.0	65.0	52.2	53.2
14	82.6	89.3	89.8	86.1	84.2	81.1	85.2	79.7	74.0	65.3	52.5	53.3
15	82.9	88.4	89.9	85.9	84.0	82.1	84.5	79.1	73.0	65.7	52.8	53.4
16	83.2	87.5	90.0	85.6	83.8	83.0	84.2	78.6	72.1	65.3	53.1	53.5
17	82.6	86.5	90.1	85.3	83.6	83.9	83.9	78.1	71.2	65.0	53.4	53.4
18	82.0	85.5	90.1	85.0	83.3	84.9	83.6	77.5	70.9	64.6	53.7	53.2
19	81.4	84.5	90.5	84.7	83.0	85.5	83.3	77.0	70.6	64.2	54.0	53.0
20	80.8	83.5	91.0	84.4	82.6	86.1	83.0	76.5	70.3	63.8	53.7	52.9
21	80.2	83.7	91.5	84.1	82.3	86.7	82.7	76.5	70.0	63.5	53.4	52.8
22	79.5	83.9	92.0	83.9	81.9	87.3	82.4	76.4	69.7	63.1	53.1	52.6
23	78.9	84.1	92.5	84.6	81.6	87.9	83.0	76.3	69.4	62.8	52.9	52.6
24	79.9	84.4	93.0	85.3	81.2	88.3	83.6	76.2	69.0	62.5	52.6	52.5
25	80.9	84.7	93.5	86.0	80.8	88.8	84.2	76.2	68.6	62.2	52.3	52.5
26	81.9	85.0	94.0	86.7	80.5	89.3	84.8	76.1	68.3	61.9	52.0	52.4
27	83.0	85.3	92.8	87.4	81.0	89.8	85.4	76.0	67.9	61.6	52.2	52.4
28	84.1	85.6	91.6	88.1	81.6	90.2	86.0	76.3	67.5	61.3	52.5	52.3
29	85.2	85.7	90.4	88.8	82.1	90.7	86.6	76.7	67.2	61.0	52.7	52.3
30	86.3	85.8	89.2	88.7		91.2	85.8	77.0	66.8	60.2	53.0	52.3
31	86.0		87.9	88.6		91.7		77.4		59.4	53.2	
	2525.0	2569.9	2780.0	2675.1	2448.3	2627.4	2595.3	2451.4	2193.8	1973.0	1661.1	1589.1
MEAN	81.5	85.7	89.7	86.3	84.4	84.8	86.5	79.1	73.1	63.6	53.6	53.0
ACRE-FEET	5010.	5100.	5510.	5310.	4860.	5210.	5150.	4860.	4350.	3910.	3290.	3150.

Remarks:

YEAR OR PERIOD MEAN 76.7
ACRE-FEET 55,710.

F. C. Dist. Form 52 4-46

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

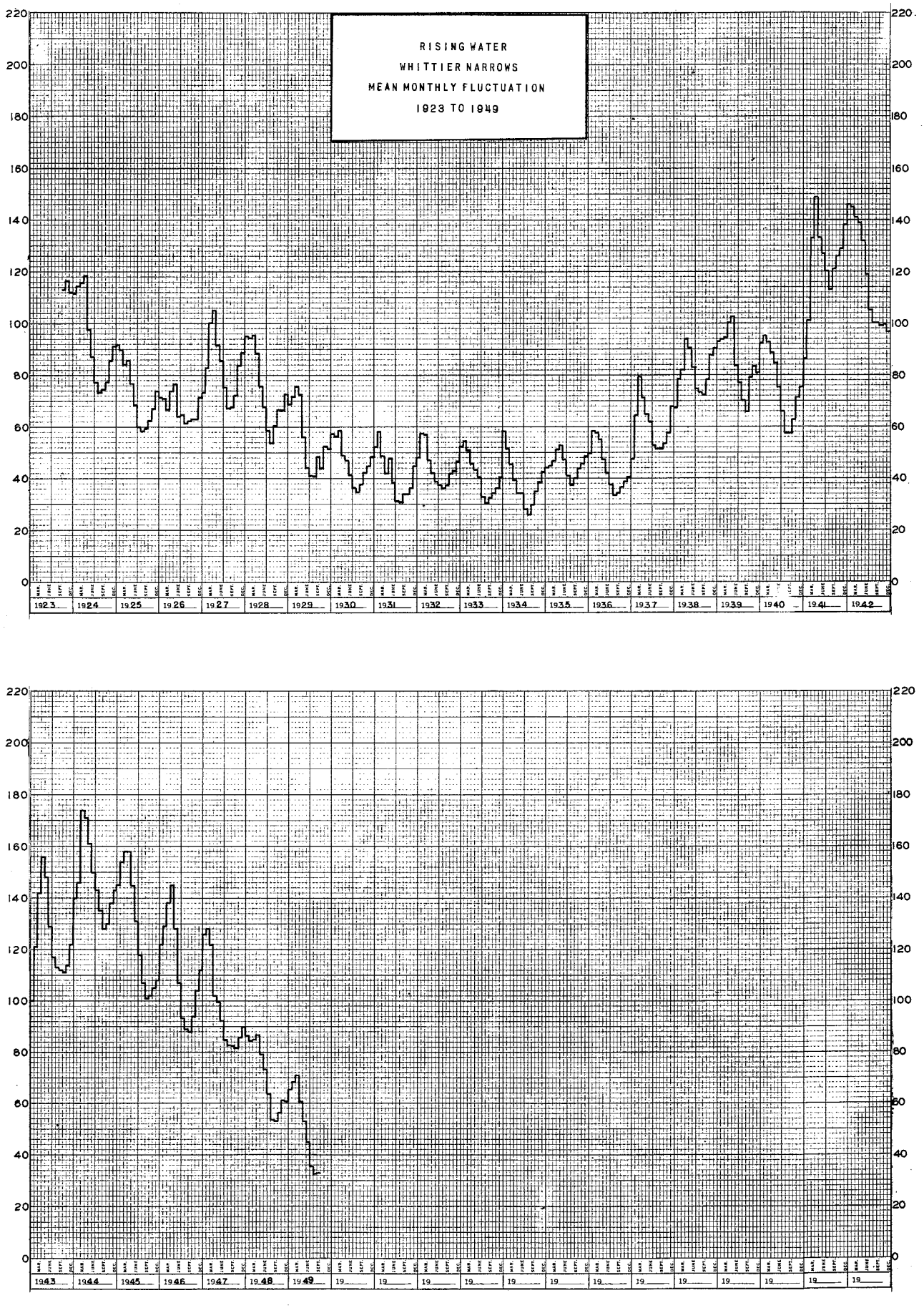
Sta. No._____

Daily discharge, in second-feet of Rising Water at Whittier Narrows, for the year ending September 30, 19 49

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	52.7	59.2	59.3	69.7	67.5	70.6	67.8	54.8	47.2	42.6	31.7	32.3
2	53.1	59.5	59.0	65.5	67.8	71.3	67.0	54.5	46.9	42.0	32.0	32.5
3	53.5	59.9	59.2	64.9	68.0	72.0	66.3	54.2	46.6	41.4	32.2	32.6
4	53.9	60.2	59.3	64.3	68.2	72.0	65.6	54.0	46.3	40.7	32.1	32.8
5	54.2	60.6	59.5	63.7	68.5	72.0	64.8	53.7	46.0	40.1	31.9	32.9
6	54.6	61.0	59.6	63.1	68.7	72.0	64.1	53.6	45.6	39.5	31.8	33.1
7	55.0	61.4	59.8	63.4	68.9	72.0	63.4	53.5	45.3	38.9	31.7	33.2
8	55.2	61.8	59.9	63.6	69.1	71.9	62.9	53.4	45.0	38.6	31.6	32.9
9	55.3	62.2	60.1	63.9	69.4	71.9	62.5	53.2	44.7	38.4	31.4	32.5
10	55.5	62.6	59.8	64.2	69.7	71.9	62.0	53.1	45.3	38.1	31.3	32.2
11	55.7	63.0	59.5	64.5	69.4	71.9	61.6	53.0	45.8	37.8	31.6	31.9
12	55.8	63.4	59.2	64.7	69.0	71.9	61.1	52.9	46.4	37.5	31.9	31.6
13	56.0	63.0	59.0	65.0	68.7	71.9	60.7	53.0	46.9	37.3	32.2	31.2
14	56.2	62.5	58.7	65.0	68.3	71.9	60.2	53.2	47.5	37.0	32.5	30.9
15	56.3	62.1	58.4	65.0	68.0	71.9	60.1	53.3	48.0	36.2	32.8	31.1
16	56.3	61.6	58.1	65.0	67.6	71.9	60.0	53.5	48.6	35.3	33.1	31.3
17	56.4	61.2	58.4	65.0	67.3	71.9	59.9	53.6	47.4	34.5	33.4	31.5
18	56.5	60.7	58.6	65.0	67.3	71.5	59.9	53.8	46.2	33.7	33.4	31.8
19	56.6	60.7	58.9	65.0	67.2	71.1	59.8	53.9	45.0	32.8	33.4	32.0
20	56.6	60.7	59.2	65.0	67.2	70.7	59.7	53.8	43.9	32.0	33.4	32.1
21	56.7	60.7	59.5	65.2	67.1	70.4	59.6	53.7	42.7	31.8	33.5	32.4
22	56.9	60.7	59.7	65.4	67.1	70.0	59.0	53.6	41.5	31.6	33.5	32.7
23	57.0	60.7	60.0	65.6	67.0	69.6	58.5	53.5	40.3	31.4	33.5	33.0
24	57.2	60.7	61.0	65.7	67.0	69.2	57.9	53.4	40.7	31.1	33.5	33.4
25	57.4	60.7	62.1	65.9	67.7	69.2	57.3	53.3	41.1	30.9	33.3	33.7
26	57.6	60.7	63.1	66.1	68.4	69.2	56.7	53.2	41.5	30.7	33.1	34.0
27	57.7	60.4	64.2	66.3	69.1	69.2	56.2	52.2	42.0	30.5	32.9	34.4
28	57.9	60.1	65.2	66.5	69.9	69.2	55.6	51.2	42.4	30.7	32.7	34.7
29	58.2	59.9	66.2	66.8		69.2	55.3	50.2	42.8	31.0	32.6	35.0
30	58.6	59.6	67.3	67.0		69.2	55.0	49.2	43.2	31.2	32.4	34.7
31	58.9		66.7	67.3		68.5		48.2		31.5	32.2	
	1739.5	1831.5	1878.5	2023.3	1909.1	2197.1	1820.5	1643.7	1342.8	1096.8	1008.6	980.4
MEAN	56.1	61.0	60.6	65.3	68.2	70.9	60.7	53.0	44.8	35.4	32.5	32.7
ACRE-FEET	3,450	3,630.	3,730.	4,010.	3,790.	4,360.	3,610.	3,260.	2,660.	2,180.	2,000.	1.940.

Remarks:

YEAR OR PERIOD MEAN 53.5
ACRE-FEET 38,620.


RISING WATER
WHITTIER NARROWS
MEAN MONTHLY FLUCTUATION
1923 TO 1949
DISCHARGE IN SECOND-FEET
0
20
40
60
80
100
120
140
160
180
200
220
1923
1924
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1949

MISCELLANEOUS STATIONS

DISCHARGE MEASUREMENTS OF BALLONA CREEK DRAINAGE AREA

AT ~~NEAR~~ miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 48

DISCHARGE MEASUREMENTS OF BALLONA CREEK DRAINAGE AREA

AT ~~NEAR~~ Various points DURING THE YEAR ENDING SEPTEMBER 30, 19 49

BALLONA CREEK at Jackson Avenue

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
259	10-2	0807 / 0820	BOLLINGER	26.0	6.77	0.97		6.6		.5	12		FC6
260	10-9	0755 / 0807	"	24.0	5.83	0.87		5.1		.5	11		"
261	10-16	0900 / 0908	"	21.0	5.08	0.88		4.5		.5	10		"
262	10-23	0927 / 0941	"	22.0	5.02	0.86		4.3		.5	11		"
263	10-30	0907 / 0918	"	20.5	5.01	0.92		4.6		.5	11		""
264	11-6	0821 / 0831	"	9.6	5.36	1.44		7.7		.6	8		"
265	11-13	1345 / 1357	"	20.5	5.01	0.92		4.6		.5	12		"
266	11-20	0754 / 0806	"	20.0	5.03	1.03		5.2		.5	11		"
267	12-4	0803 / 0816	"	20.0	5.30	1.06		5.6		.5	13		"
268	12-11	1510 / 1519	"	10.5	9.72	1.49		14.6		.6	9		"
269	12-18	1415 / 1424	"	10.5	6.08	1.31		8.0		.6	8		"
270	12-26	0945 / 0957	"	18.0	4.18	1.00		4.2		.5	12		"
271	12-31	1400 / 1414	"	19.5	4.95	1.17		5.8		.5	12		"
272	1-8	0750 / 0802	"	20.0	5.19	1.16		6.0		.5	12		"
273	1-15	0810 / 0826	"	20.0	5.66	1.16		6.6		.5	13		"
274	1-22	0843 / 0858	"	20.0	4.79	0.92		4.4		.5	14		"
275	1-29	0855 / 0907	"	17.0	4.25	0.94		4.0		.5	11		"
276	2-13	1005 / 1018	"	20.0	4.79	0.98		4.7		.5	11		"
277	2-19	0850 / 0901	"	11.6	7.25	0.91		6.6		.6	11		"
278	2-26	0757 / 0808	"	9.0	7.10	0.99		7.0		.6	9		"
279	3-4	1522 / 1532	"	14.3	9.68	1.05		10.2		.6	10		"
280	3-11	1100 / 1112	"	13.3	6.35	0.82		5.2		.6	10		"
281	3-18	1518 / 1527	"	14.0	8.32	0.92		7.7		.6	9		"
282	4-1	1012 / 1022	"	10.0	6.42	1.04		6.7		.6	8		""
283	4-8	0934 / 0945	"	11.0	8.79	0.69		6.1		.6	9		"
284	4-13	0925 / 0930	"	11.6	8.47	0.66		5.6		.6	8		"
285	4-22	0900 / 0913	"	10.5	10.7	0.90		9.6		.6	10		"
286	4-29	0745 / 0758	"	11.5	11.0	1.29		14.2		.6	11		"
287	5-6	0845 / 0856	"	11.6	10.9	1.03		11.2		.6	11		"
288	5-13	0825 / 0834	"	10.0	8.80	0.69		6.1		.6	9		"
289	5-20	0848 / 0900	"	10.7	9.08	0.68		6.2		.6	10		"
290	5-27	0913 / 0923	"	10.5	8.77	0.72		6.3		.6	9		"
291	6-4	1008 / 1018	"	10.0	8.35	0.72		6.0		.6	10		"
292	6-10	1322 / 1333	"	10.2	8.41	0.76		6.4		.6	10		"
293	6-17	0757 / 0806	"	10.0	8.58	0.70		6.0		.6	11		"
294	6-24	0833 / 0842	"	9.0	8.46	0.73		6.2		.6	9		"
295	6-30	1047 / 1058	"	10.0	8.05	0.84		6.8		.6	10		"
296	7-8	0845 / 0857	"	8.7	7.95	0.70		5.6		.6	9		"
297	7-14	1146 / 1154	BLAKELY	34.0	6.02	1.16		7.0		.5	9		FC35
298	7-21	1118 / 1126	"	10.5	8.40	0.93		7.8		.85 SURF.	7		"
299	7-28	1117 / 1125	"	12.4	5.11	1.72		8.8		.6	7		"
300	8-5	1520 / 1530	BOLLINGER	11.6	9.61	1.01		9.7		.6	9		FC6
301	8-12	0800 / 0813	"	11.8	6.87	0.86		5.9		.6	12		"
302	8-19	0844 / 0851	"	7.6	6.08	1.25		7.6		.6	8		"
303	8-26	0950 / 1000	"	11.0	7.42	1.05		7.8		.6	11		"
304	9-2	0913 / 0924	"	11.2	6.47	1.05		6.8		.6	11		"
305	9-8	0945 / 0954	"	11.5	7.85	0.98		7.7		.6	10		"
306	9-23	1005 / 1015	"	8.0	6.02	0.95		5.7		.6	8		"

BALLONA CREEK at Jackson Avenue

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
307	10-7	0833 / 0847	BOLLINGER	TWO CHANNELS				9.5		.6	12		FC6
308	10-14	0812 / 0826	"	14.2	8.30	1.07		8.9		.6	12		"
309	10-21	1348 / 1400	"	9.8	7.27	1.54		11.2		.6	10		"
310	10-28	1308 / 1320	"	9.0	8.33	1.00		8.3		.6	9		"
311	11-4	1320 / 1330	"	8.4	7.21	0.68		4.9		.6	8		"
312	11-12	1440 / 1455	"	12.5	12.0	1.17		14.0		.6	11		"
313	11-18	1500 / 1512	"	10.1	10.8	1.05		11.4		.6	10		"
314	11-24	1006 / 1017	"	9.0	8.62	1.04		9.0		.6	8		"
315	12-2	1340 / 1351	"	8.8	7.28	0.91		6.6		.6	9		"
316	12-9	1454 / 1505	"	8.8	7.86	1.60		12.6		.6	9		"
317	12-16	1100 / 1112	"	10.0	8.09	0.63		5.1		.6	10		"
318	12-23	1115 / 1133	"	16.5	11.5	1.28		14.7		.6	14		"
319	12-30	0900 / 0914	BOLLINGER - DIAS	22.5	12.2	0.44		5.4		.6	6		"
320	1-6	1335 / 1347	BOLLINGER	12.5	7.13	1.04		7.4		.6	11		"
321	1-27	0913 / 0926	"	15.1	6.64	0.90		6.0		.6	11		"
322	2-10	0832 / 0847	"	12.7	6.47	0.93		6.0		.6	12		"
323	2-17	1427 / 1442	DIAS - BOLLINGER	14.3	7.52	1.06		8.0		.6	13		"
324	3-10	0813 / 0828	BOLLINGER	11.8	6.67	1.20		8.0		.6	11		"
325	3-17	1630 / 1642	"	11.0	7.16	1.20		8.6		.6	10		"
326	3-31	1215 / 1226	"	12.5	7.96	0.73		5.8		.6	10		"
327	4-7	0915 / 0930	"	11.5	6.65	0.75		5.0		.6	10		"
328	4-14	1226 / 1238	BOLLINGER - LANG	12.0	7.42	0.97		7.2		.6	11		"
329	4-21	1225 / 1243	BOLLINGER	12.0	7.34	0.94		6.9		.6	11		"
330	4-28	0753 / 0808	"	13.5	7.83	0.68		5.3		.6	11		"
331	5-5	1203 / 1218	"	12.5	6.89	0.83		5.7		.6	12		"
332	5-11	1534 / 1545	"	14.2	9.37	1.17		11.0		.6	9		"
333	5-18	1427 / 1442	"	13.5	10.2	1.19		12.1		.6	8		"
334	5-25	0858 / 1006	BLAKELY	16.0	7.64	0.97		7.4		.5 .6	8		FC35
335	6-2	0938 / 0950	BOLLINGER	27.0	8.32	0.74		6.2		.6	8		FC6
336	6-16	1217 / 1238	"	12.9	8.34	0.81		6.8		.6	14		"
337	6-23	1507 / 1523	"	14.5	10.2	1.17		11.9		.6	11		"
338	6-30	1245 / 1300	"	13.1	8.23	0.92		7.6		.6	10		"
339	7-7	0823 / 0936	"	11.4	5.43	0.88		4.8		.6	11		"
340	7-14	1043 / 1049	BLAKELY	11.3	5.35	1.23		6.6		.6	6		FC35
341	7-20	1126 / 1134	"	12.5	6.72	1.41		9.5		.5 .6	7		"
342	7-28	1038 / 1053	BOLLINGER	10.8	6.19	0.92		5.7		.6	11		FC6
343	8-4	1540 / 1554	"	12.8	8.24	1.41		11.6		.6	12		"
344	8-11	0904 / 0918	"	10.7	6.10	1.03		6.3		.6	11		"
345	8-18	1347 / 1400	"	12.0	8.33	1.09		9.1		.6	11		"
346	8-25	0917 / 0935	"	12.2	5.77	0.69		4.0		.6	11		"
347	9-1	1345 / 1400	"	12.3	6.25	1.18		9.7		.6	12		"
348	9-8	0752 / 0808	"	11.3	5.86	0.96		5.6		.6	11		"
349	9-14	1330 / 1345	"	11.0	6.79	1.09		7.4		.6	10		"
350	9-22	0937 / 0950	"	9.9	5.71	1.00		5.7		.6	10		"
351	9-29	1000 / 1015	"	9.1	4.69	0.90		4.2		.6	9		"

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER DRAINAGE AREA

AT ~~NEAR~~ miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19~~48~~

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	S. HT. CHANGE TOTAL	METER NO.
			PACOIMA CREEK above Pacoima Dam										
33	5-18	0945 / 0948	TURNER	4.0	1.80	0.29		0.52		FLOATS	4		
34	5-18	1050 / 1056	"	5.0	1.00	0.43		0.43		.5	5		FC43
			LOS ANGELES RIVER L.A.W.D. Main Spreading Canal										
252	10-2	1406 / 1424	BLAKELY	THREE CHANNELS			3.02	34.0		.6	15	0	FC35
253	10-9	1359 / 1444	"	"	"		3.03	33.0		.6	15	0	"
254	10-16	1340 / 1357	"	"	"		3.08	35.2		.6	15	0	"
255	10-23	1410 / 1424	"	"	"		3.10	33.0		.6	15	0	"
256	11-20	1114 / 1133	"	"	"		3.35	32.1		.6	15	0	"
257	11-26	1355 / 1415	"	"	"		3.32	32.2		.6	15	0	"
258	12-4	1355 / 1415	"	"	"		3.35	37.1		.6	15	0	"
259	1-8	1210 / 1225	"	"	"		2.50	20.8		.6	15	0	"
260	1-29	1530 / 1555	BOLLINGER	"	"		3.50	15.0		.6	12	0	FC6
261	6-17	1358 / 1414	BLAKELY	"	"		2.94	30.0		.6	15	0	FC35
			LOS ANGELES RIVER above Victory Boulevard										
1	7-9	1055 / 1105	BOLLINGER	12.0	10.8	1.27		13.7		.6	11		FC6
2	7-15	1428 / 1436	BLAKELY	12.3	5.91	2.10		12.4		.6	7		FC35
3	8-11	1130 / 1155	BOLLINGER	THREE CHANNELS				10.2		.6	17		FC6
4	8-18	1245 / 1308	"	TWO CHANNELS				10.4		.6	18		"
5	8-25	1250 / 1315	"	"	"			10.8		.6	19		"
6	8-31	1127 / 1152	"	"	"			9.7		.6	18		"
7	9-16	1404 / 1416	BLAKELY	THREE CHANNELS				9.2		.5 .6	15		FC35
8	9-30	1325 / 1339	"	FOUR CHANNELS				11.3		.5	13		"
			ARROYO SECO below Millard Canyon										
54	2-5	1525 / 1535	MOON - MIRANDA	15.0	10.2	0.87		8.9		.6	7		FC22
55	2-5	1555 / 1600	" "	5.0	0.50	4.20		2.1		FLOATS	1		
56	2-6	1140 / 1150	"	20.0	13.6	1.06		14.4		.6	10		FC22
57	2-6	1225 / 1230	"	6.0	1.95	3.02		5.9		.5	4		"
58	3-25	0925 / 0944	HAIG - CUADRAZ	15.0	7.60	1.63		12.4		.6	10		FC5
			ARROYO SECO below Devil's Gate Dam										
110	4-4	1345 / 1347	MOON	2.0	0.20	1.00		0.20		.5	2		FC22
111	4-5	1705 / 1710	MOON - YORK	4.0	0.93	1.51		1.4		.5	4		"
112	4-6	1500 / 1505	MOON	4.0	1.36	1.40		1.9		.5	4		"
113	4-8	1615 / 1620	"	4.0	1.30	1.38		1.8		.5	4		"
114	4-14	0950 / 0957	"	4.3	1.31	1.30		1.7		.5	5		"
115	8-12	1300 / 1305	"	2.5	0.47	1.25		0.59		.5	4		"
116	8-25	0845 / 0850	"	2.5	0.30	0.77		0.23		.5	3		"
117	9-8	1250 / 1252	"	1.5	0.12	0.75		0.09		.5	2		"

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER DRAINAGE AREA

AT ~~NEAR~~ Miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 49

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	S. HT. CHANGE TOTAL	METER NO.
			PACOIMA CREEK above Pacoima Dam at Highway Bridge										
35	1-26	1545 / 1548	TURNER	2.7	0.53	0.60		0.32		.5	5		FC43
36	3-2	1501 / 1510	"	11.6	5.22	1.11		5.8		.6	7		"
37	3-18	0930 / 0942	"	11.2	4.40	1.07		4.7		.6	7		"
38	4-21	0933 / 0938	TURNER - LANG	5.5	1.43	0.84		1.2		.6	6		"
39	5-12	1005 / 1011	TURNER	5.0	0.90	0.53		0.48		.5	6		"
40	6-2	0945 / 0951	"	5.0	0.87	0.52		0.45		.5	5		"
41	7-7	0855 / 0858	"	1.8	0.29	0.55		0.16		.5	3		"
42	8-11	0855 / 0858	"	1.4	0.14	0.50		0.07		.5	3		"
			PACOIMA CREEK above Pacoima Dam below Maple Canyon										
1	1-26	1355 / 1401	TURNER	3.3	1.70	0.38		0.65		.6	4		FC43
2	3-2	1340 / 1349	"	10.2	8.62	0.77		6.6		.6	10		"
			BIG TUJUNGA CREEK below Fox Creek										
241	5-4	1500 / 1506	TURNER	5.0	3.42	0.88		3.0		.6	6		FC43
			BIG TUJUNGA CREEK L.A.W.D. Diversion to Spreading Grounds										
1	3-10	1225 / 1234	TURNER	12.0	4.08	1.52		6.2		.6	6		FC43
2	5-26	1055 / 1104	"	11.5	3.27	1.01		3.3		.6	7		"
3	6-2	1210 / 1216	"	10.5	2.82	0.89		2.5		.5	6		"
4	7-21	1145 / 1151	"	5.5	1.21	1.32		1.6		.5	6		"
			LOS ANGELES RIVER L.A.W.D. Main Spreading Canal										
262	8-11	1254 / 1318	BLAKELY	THREE CHANNELS				20.0		.6	15		FC35
263	9-21	1340 / 1405	BOLLINGER	THREE CHANNELS				18.2		.6	14		FC6
			ARROYO SECO above Millard Canyon										
65	2-27	1045 / 1055	MOON	17.0	4.96	2.62		13.0		.5	7		FC22
66	3-4	2153 / 2210	MOON - INGRAM	13.0	11.4	0.82		9.4		.6	7		"
			ARROYO SECO below Millard Canyon										
59	1-21	0855 / 0910	MOON	17.0	13.7	1.11		15.2		.6	10		FC22
60	2-27	0927 / 0940	MOON	19.0	17.0	0.88		14.9		.6	10		"
			ARROYO SECO at Head of Spreading Grounds										
1	1-21	0930 / 0940	MOON	11.0	4.94	2.11		10.4		.6 .5	8		FC22
2	2-26	2100 / 2110	"	8.0	5.00	1.52		7.6		.6	4		"
3	2-27	0955 / 1005	"	11.5	6.18	2.27		14.0		.5	8		"
4	2-27	1520 / 1530	"	13.0	8.15	1.74		14.2		.6	7		"
5	3-4	2053 / 2103	MOON - INGRAM	12.0	6.70	1.58		10.6		.6	6		"
6	3-11	0155 / 0207	HAIG - INGRAM	8.5	4.07	2.06		8.4		.6	8		FC42
7	5-19	1210 / 1225	MOON - YORK	14.0	7.25	2.17		15.7		.6	8		FC22
			ARROYO SECO below Devil's Gate Dam										
118	4-28	1615 /	MOON - YORK					0.22		VOL.			
119	6-2	1500 / 1505	MOON	3.5	0.37	0.89		0.33		SURF.	5		FC22
120	6-3	1544 / 1602	MOON - YORK	4.4	0.98	1.33		1.3		.5	7		"
121	6-7	0840 / 0850	" "	4.4	0.96	1.15		1.1		.5	7		"
122	6-9	1100 / 1110	MOON	4.5	0.98	1.33		1.3		.5	7		"

DISCHARGE MEASUREMENTS OF RIO HONDO DRAINAGE AREA

AT NEAR miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			EATON CREEK above Eaton Wash Dam (Inflow)										
53	3-24	1542 / 1552	HAIG - CUADRAZ	6.0	2.30	2.04		4.7		.6	6		FC5
54	3-25	1015 / 1025	" "	4.5	1.33	1.20		1.6		.6	6		"
			SANTA ANITA CREEK above Santa Anita Dam (Inflow)										
84	3-25	1205 / 1215	HAIG - CUADRAZ	5.0	3.57	1.51		5.4		.6	6		FC5
85	4-29	1015 / 1027	MOON - SHIPLEY	11.0	10.7	1.01		10.8		.6	9		FC22
			SANTA ANITA CREEK below Santa Anita Dam (Outflow)										
415	10-19	0940 / 0950	MOON	6.0	1.92	1.41		2.7		.5	6		FC22
416	10-23	0940 / 0945	"	3.0	1.27	2.20		2.8		.5	3		"
417	11-6	0920 / 0930	"	5.5	1.88	1.44		2.7		.5	6		"
418	11-13	0900 / 0910	"	4.0	1.52	1.58		2.4		.5	7		"
419	11-20	1110 / 1120	"	4.0	1.50	1.60		2.4		.5	7		"
420	11-26	1040 / 1050	"	4.0	1.50	1.53		2.3		.5	7		"
421	12-4	0900 / 0910	"	3.8	1.38	1.59		2.2		.5	7		"
422	12-11	0900 / 0910	"	3.8	1.29	1.55		2.0		.5	7		"
423	12-18	0845 / 0855	"	4.0	1.30	1.54		2.0		.5	8		"
424	12-26	1530 / 1540	"	3.5	1.13	1.24		1.4		.5	7		"
425	1-2	1035 / 1045	"	3.5	1.09	1.28		1.4		.5	7		"
426	1-8	0940 / 0950	"	3.5	1.04	1.25		1.3		.5	7		"
427	1-15	0845 / 0855	"	3.5	1.12	1.25		1.4		.5	7		"
428	1-28	1050 / 1055	"	3.0	0.66	1.11		0.73		.5	4		"
429	2-5	1730 / 1740	MOON - MIRANDA	8.0	2.40	2.58		6.1		.5	5		"
430	2-10	1250 / 1300	MOON	4.0	1.99	1.76		3.5		.5	6		"
431	2-19	0815 / 0822	"	3.6	1.67	1.20		2.0		.5	6		"
432	2-26	0815 / 0825	"	3.6	1.55	0.97		1.5		.5	6		"
433	3-4	0835 / 0845	"	3.6	1.27	0.72		0.91		.5	7		"
434	3-11	0820 / 0827	"	3.5	1.21	0.91		1.1		.5	5		"
435	3-18	0830 / 0837	"	3.5	1.13	0.84		0.95		.5	5		"
			SANTA ANITA CREEK Three Cities Farms Diversion										
181	10-2	1050 / 1052	MOON	2.0	0.48	1.13		0.54		.5	2		FC22
182	10-9	0900 / 0902	"	2.0	0.68	0.94		0.64		.5	2		"
183	10-16	1010 / 1012	"	2.0	1.60	0.53		0.84		.6	2		"
184	10-23	1015 / 1017	"	2.0	0.30	1.53		0.46		.5	2		"
185	10-31	1030 / 1032	"	2.0	2.40	0.37		0.90		SURF.	2		"
186	11-20	1140 / 1142	"	2.0	1.76	0.45		0.80		.6	2		"
187	12-18	0820 / 0822	"	2.0	0.30	1.46		0.44		.5	2		"
188	1-2	1015 / 1017	"	2.0	0.30	1.60		0.48		.5	2		"
189	1-8	0915 / 0917	"	2.0	0.24	1.08		0.26		.5	2		"
190	1-15	0815 / 0817	"	2.0	0.16	1.38		0.22		.5	2		"
191	1-22	1030 / 1032	"	1.0	0.10	0.80		0.08		.5	2		"
192	1-28	1010 / 1012	"	2.0	0.70	0.91		0.64		.5	2		"
193	2-19	0840 / 0842	"	2.0	0.28	1.50		0.42		.5	2		"
194	2-26	0845 / 0847	"	2.0	1.40	0.64		0.90		.6	2		"
195	3-4	0910 / 0912	"	2.0	0.32	1.62		0.52		.5	2		"
196	4-15	1205 / 1207	"	2.0	0.28	1.50		0.42		.5	2		"
197	4-22	0920 / 0924	"	2.0	1.28	0.75		0.96		.6	2		"
198	5-13	0930 / 0932	"	2.0	0.96	1.00		0.96		.5	2		"
199	5-20	0930 / 0932	"	2.0	0.88	1.00		0.88		.6	2		"
200	6-10	0955 / 0957	"	2.0	0.78	1.26		0.98		.6	2		"
201	6-16	0930 / 0932	"	2.0	0.44	1.32		0.58		.5	2		"
202	6-24	0920 / 0925	STUNDEN	2.0	0.50	1.16		0.58		.5	4		FC36
203	6-30	1040 / 1045	"	2.0	0.40	1.05		0.42		.5	4		"
204	7-7	0850 / 0855	"	2.0	2.00	0.65		1.3		.6	4		"
205	7-14	0920 / 0925	"	2.0	1.20	0.78		0.94		.6	4		"
206	7-22	0950 / 0953	MOON	2.0	1.64	0.61		1.0		.6	2		FC22
207	7-29	0935 / 0937	"	2.0	1.32	0.64		0.84		.6	2		"
208	8-5	0930 / 0932	"	2.0	0.42	1.24		0.52		.5	2		"
209	8-12	0930 / 0932	"	2.0	1.96	0.46		0.90		.6	2		"
210	8-25	1400 / 1402	"	2.0	2.80	0.33		0.92		.6	2		"
211	9-2	0925 / 0927	LYNN - MOON	2.0	2.80	0.36		1.0		.6	2		"
212	9-8	0945 / 0947	MOON	2.0	0.60	0.87		0.52		.5	2		"
213	9-17	0900 / 0908	STUNDEN	2.0	0.40	0.95		0.38		.5	4		FC36
214	9-23	1015 / 1017	MOON	2.0	1.60	0.61		0.98		.6	2		"
215	9-30	1130 / 1132	"	2.0	2.40	0.40		0.96		.6	2		"
			RIO HONDO above Peck Road										
16	6-3	0755 / 0812	BLAKELY - SILL	35.0	175.	3.60	6.96	630.		.6	10	+.06	FC35
17	6-3	1247 / 1312	MOON - BLAKELY	36.0	188.	3.72	7.27	700.		.6	11	+.02	"
18	6-4	1344 / 1434	" "	35.0	174.	4.22	6.93	735.		.6	12	+.02	"
19	6-7	1425 / 1452	"	34.7	160.	4.14	6.68	662.		.6	10	0	"

DISCHARGE MEASUREMENTS OF RIO HONDO DRAINAGE AREA

AT NEAR Miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			SANTA ANITA CREEK Three Cities Farms Diversion										
216	10-7	0950 / 0952	MOON	2.0	0.32	1.38		0.44		.5	2		FC22
217	10-14	0940 / 0942	"	2.0	0.40	1.08		0.43		.5	2		"
218	11-10	1435 / 1437	"	2.0	0.30	1.43		0.43		.5	2		"
219	11-19	1600 / 1606	"	TWO CHANNELS				0.69		.5	4		"
220	11-24	1320 / 1327	"	" "				0.39		.5	4		"
221	12-2	1530 / 1533	"	2.0	0.56	1.25		0.70		.5	2		"
222	12-9	1435 / 1438	"	2.0	0.24	1.54		0.37		.5	2		"
223	12-17	1245 / 1247	"	2.0	0.26	1.46		0.38		.5	2		"
224	3-17	1015 / 1018	"	2.0	1.12	0.85		0.95		.6	2		"
225	3-30	1308 / 1310	MOON - LANG	2.0	0.28	1.39		0.39		.5	2		"
226	4-20	1255 / 1257	MOON	2.0	0.20	1.70		0.34		.5	2		"
227	4-28	1500 / 1502	"	2.0	0.84	1.12		0.94		.5	2		"
228	5-5	1610 / 1612	"	2.0	1.84	0.51		0.93		.6	2		"
229	5-12	1450 / 1452	"	2.0	1.28	0.78		1.0		.6	2		"
230	5-26	1225 / 1227	"	2.0	2.00	0.60		1.2		.6	2		"
231	6-2	1251 / 1253	"	2.0	0.96	1.03		0.99		.3	2		"
232	6-9	0945 / 0948	"	2.0	2.14	0.51		1.1		.6	2		"
233	6-16	0950 / 0952	"	2.0	2.18	0.50		1.1		.6	2		"
234	6-23	1150 / 1152	"	2.0	1.04	0.92		0.96		.6	2		"
235	6-30	1150 / 1152	"	2.0	0.36	1.58		0.57		.5	2		"
236	7-6	0925 / 0930	STUNDEN	2.0	0.20	0.80		0.16		.5	4		FC36
237	7-13	0855 / 0900	"	2.0	2.10	0.40		0.83		.6	4		"
238	7-20	0905 / 0910	"	2.0	1.72	0.44		0.75		.6	4		"
239	7-26	0930 / 0932	MOON	2.0	1.88	0.53		1.0		.6	2		FC22
240	8-4	1010 / 1012	"	2.0	2.40	0.42		1.0		.6	2		"
241	8-11	0935 / 0937	"	2.0	2.40	0.42		1.0		.6	2		"
242	8-18	0945 / 0947	"	2.0	2.40	0.37		0.89		.6	2		"
243	8-25	0930 / 0932	"	2.0	1.74	0.50		0.87		.6	2		"
244	9-1	1000 / 1002	"	2.0	2.64	0.34		0.91		.6	2		"
245	9-8	1130 / 1132	"	2.0	1.34	0.61		0.82		.6	2		"
246	9-15	0940 / 0942	"	2.0	2.68	0.32		0.85		.6	2		"
247	9-22	0950 / 0952	"	2.0	2.68	0.32		0.86		.6	2		"
248	9-29	0920 / 0922	"	2.0	2.24	0.41		0.92		.6	2		"

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER DRAINAGE AREA

AT ~~NEAR~~ Miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1948

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	S. MT. CHANGE TOTAL	METER NO.
			SAN GABRIEL RIVER-WEST FORK above Devils Creek										
28	11-6	1000 / 1012	MIDDLETON	6.5	1.67	0.60		1.0		.6	10		FC29
29	5-19	1117 / 1131	MIDDLETON- DE VORE	6.5	2.49	1.00		2.5		.6	10		"
30	6-23	1020 / 1035	MIDDLETON	5.2	1.30	0.58		0.76		.6	10		"
31	7-28	1055 / 1057	"	1.5	0.32	0.38		0.12		.6	3		"
			DEVILS CREEK above Junction with San Gabriel River										
28	5-19	1430 / 1442	MIDDLETON	6.0	2.72	0.81		2.2		.6	11		FC29
29	6-23	1200 / 1208	"	4.0	1.24	0.62		0.77		.6	8		"
30	6-23	1412 / 1420	"	4.5	1.38	0.46		0.64		.6	7		"
			SAN GABRIEL RIVER-WEST FORK Inflow to Dam No.2										
49	11-6	1055 / 1103	MIDDLETON	3.7	0.78	0.77		0.60		.6	6		FC29
50	6-23	1223 / 1235	"	4.5	1.43	0.98		1.4		.6	8		"
51	7-28	1255 / 1259	"	2.2	0.42	0.57		0.24		.6	4		"
			SAN DIMAS CREEK above San Dimas Dam										
23	10-22	1220 / 1230	BREWSTER	5.0	1.60	0.48		0.77		.6	5		FC12
24	11-12	1140 / 1150	"	5.0	2.02	0.49		0.99		.6	5		"
25	12-17	1213 / 1225	"	6.0	2.28	0.57		1.3		.6	6		"
26	1-21	1237 / 1247	BREWSTER - STUNDEN	6.0	2.38	0.55		1.3		.6	6		"
27	2-11	1303 / 1315	STUNDEN - BREWSTER	6.0	2.36	0.89		2.1		.6	6		"
28	3-10	1130 / 1140	STUNDEN	6.0	2.34	0.69		1.6		.5 .6	6		FC36
29	4-7	1325 / 1335	STUNDEN - BELDING	6.0	2.64	1.06		2.8		.6	6		"
30	5-6	1230 / 1240	STUNDEN - SILL	5.0	1.78	0.73		1.3		.6	5		"
31	6-10	0950 / 1000	STUNDEN	4.1	1.34	0.65		0.87		.5	8		"
32	7-8	1020 / 1025	"	1.4	0.29	0.52		0.15		.5	3		"
			SAN DIMAS CREEK below San Dimas Dam										
124	5-20	1000 / 1010	STUNDEN	2.4	1.38	1.74		2.4		.5 .6	5		FC36
125	5-27	1135 / 1145	"	2.4	1.39	1.80		2.5		.6	5		"
			SAN JOSE CREEK at Pomona Boulevard (sewer outflow)										
3	2-6	1135 / 1402	STUNDEN - BREWSTER	6.0	2.78	2.12		5.9		.6	6		FC12
			SAN JOSE CREEK at Anaheim-Puente Road										
2	1-13	1020 / 1026	BREWSTER - STUNDEN	4.0	1.82	1.48		2.7		.6	4		FC12
			SAN JOSE CREEK at Hacienda Boulevard										
1	1-13	1000 / 1010	BREWSTER - STUNDEN	4.0	2.12	1.37		2.9		.6	4		FC12

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER DRAINAGE AREA

AT ~~NEAR~~ Miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1949

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	S. MT. CHANGE TOTAL	METER NO.
			SAN GABRIEL RIVER-WEST FORK above Bear Creek										
17	12-27	1315 / 1332	SPANGLER - MIDDLETON	11.0	6.93	1.92		13.3		.6	10		FC29
18	1-20	1435 / 1452	"	28.0	24.9	1.31		32.5		.6	13		"
19	4-11	1215 / 1225	MIDDLETON	9.0	3.24	0.74		2.4		.6	9		"
20	4-28	1232 / 1241	LANG	7.8	2.50	0.64		1.6		.6	7		"
21	5-12	1406 / 1420	"	10.4	4.86	2.02		9.8		.6	10		"
22	5-26	1110 / 1128	MIDDLETON	10.5	6.28	1.89		11.9		.6	13		"
23	6-9	1215 / 1232	"	12.8	5.08	1.97		10.0		.6	12		"
24	6-16	0935 / 0952	"	11.8	5.05	1.88		9.5		.6	11		"
25	6-30	1250 / 1306	"	10.7	4.88	1.93		9.4		.6	12		"
26	7-14	1314 / 1330	"	9.7	5.16	1.16		6.0		.6	9		"
27	7-28	0935 / 0952	"	11.9	5.16	2.00		10.3		.6	11		"
28	8-11	1322 / 1340	"	10.8	4.51	2.00		9.0		.6	12		"
29	8-25	0925 / 0946	"	11.5	5.06	1.80		9.1		.6	13		"
30	9-8	1022 / 1040	"	10.8	3.97	1.44		5.7		.6	14		"
31	9-22	1140 / 1158	"	7.6	2.99	0.91		2.7		.6	14		"
			BEAR CREEK above Junction with San Gabriel River										
19	12-27	1340 / 1357	SPANGLER - MIDDLETON	13.0	18.2	0.48		8.8		.6	9		FC29
20	1-20	1450	" "					22.5		EST.			
21	4-11	1245 / 1302	MIDDLETON	11.5	16.4	0.98		16.0		.6	11		FC29
22	4-28	1342 / 1400	LANG - MIDDLETON	10.8	8.34	1.16		9.7		.6	11		"
23	5-12	1335 / 1350	LANG	9.8	6.22	0.97		6.0		.6	10		"
24	5-26	1152 / 1210	MIDDLETON	11.5	7.87	0.89		7.0		.6	12		"
25	6-9	1252 / 1304	"	7.0	3.82	1.18		4.5		.6	14		"
26	6-16	0905 / 0920	"	8.0	4.03	0.94		3.8		.6	10		"
27	6-30	1330 / 1338	"	4.9	1.83	1.69		3.1		.6	8		"
28	7-14	1250 / 1300	"	4.3	1.11	0.88		0.98		.6	8		"
29	7-28	1012 / 1020	"	4.2	1.19	0.73		0.87		.6	8		"
30	8-11	1300 / 1305	"	2.1	0.50	0.82		0.41		.6	5		"
31	8-25	0958 / 1007	"	2.1	0.55	0.71		0.39		.6	7		"
32	9-8	1102 / 1108	"	1.9	0.46	0.59		0.27		.6	6		"
33	9-22	1120 / 1126	"	2.0	0.45	0.71		0.32		.6	5		"
			SAN GABRIEL RIVER-NORTH FORK above Junction with West Fork										
24	12-27	1415 / 1435	SPANGLER - MIDDLETON	9.5	3.66	1.69		6.2		.6	12		FC29
25	1-20	1505 / 1522	" "	14.0	6.55	1.04		6.8		.6	11		"
26	4-11	1320 / 1334	MIDDLETON	11.0	5.40	0.96		5.2		.6	10		"
27	4-28	1423 / 1441	LANG - MIDDLETON	TWO CHANNELS				3.2		.6	13		"
28	5-12	1435 / 1447	LANG	8.6	3.45	0.90		3.1		.6	8		"
29	5-26	1315 / 1332	MIDDLETON	TWO CHANNELS				3.6		.6	12		"
30	6-9	1322 / 1335	"	8.2	2.67	1.12		3.0		.6	8		"
31	6-16	0625 / 0640	"	9.2	3.26	0.95		3.1		.6	11		"
32	6-30	1400 / 1414	"	6.5	2.69	1.19		3.2		.6	10		"
33	7-14	1350 / 1405	"	5.6	2.46	0.81		2.0		.6	11		"
34	7-28	1027 / 1045	"	6.7	2.61	0.96		2.5		.6	11		"
35	8-11	1405 / 1417	"	4.3	1.50	1.20		1.8		.6	9		"
36	8-25	1032 / 1041	"	4.7	1.66	1.02		1.7		.6	8		"
37	9-8	1133 / 1142	"	4.4	1.42	0.99		1.4		.6	9		"
38	9-22	1215 / 1227	"	4.6	1.42	0.92		1.3		.6	8		"

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT-ING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			SAN GABRIEL RIVER below San Gabriel Dam No. 1										
146	11-1	1420 / 1445	MIDDLETON - HOOKER	33.5	25.7	2.06		53.0		.6	17		FC29
147	11-2	0915 / 0937	MIDDLETON	23.5	10.9	2.08		22.7		.6	13		"
148	11-3	0923 / 0945	"	16.0	8.37	2.63		22.0		.6	16		"
149	11-4	0905 / 0921	MIDDLETON - HOOKER	12.0	6.90	2.91		20.1		.6	12		"
150	11-5	0922 / 0938	" "	12.0	5.56	2.52		14.0		.6	12		"
151	11-15	0905 / 0925	MIDDLETON	13.8	5.10	2.65		13.5		.6	13		"
152	4-15	1005 / 1028	"	12.2	4.56	2.52		11.5		.6	13		"
153	4-21	1013 / 1035	"	16.8	5.06	2.27		11.5		.6	14		"
154	5-3	1120 / 1144	LANG	18.0	11.6	3.57		41.4		.6	17		"
155	5-6	1325 / 1350	"	25.8	17.6	2.38		41.9		.6	16		"
156	6-21	1024 / 1026	MIDDLETON	0.80	0.11	5.64		0.62		.6 EST.	2		"
			BIG DALTON CREEK above Big Dalton Dam										
8	3-3	0945 / 0955	STUNDEN	TWO CHANNELS				0.25		.5 "V"	3 NOTCH WEIR		FC36
9	3-23	1105 / 1115	"	"	"			0.27		.5 "V"	3 NOTCH WEIR		"
10	6-1	0920 / 0923	"	"	"			0.10		.5 "V"	1 NOTCH WEIR		"
			BIG DALTON CREEK Inflow to Spreading Area										
23	9-16	1427 / 1440	STUNDEN - INGRAM	7.5	2.92	1.75	1.42	5.1		.6	9	-.01	FC36
24	9-21	1355 / 1405	"	8.0	2.82	1.95	1.98	5.5		.5	10	0	"
			SAN DIMAS CREEK above San Dimas Dam										
33	11-4	1330 / 1335	STUNDEN	1.7	0.51	0.55		0.28		.5	4		FC36
34	12-2	0810 / 0817	"	1.3	0.45	0.93		0.42		.5	3		"
35	12-30	1405 / 1410	"	2.2	0.79	1.39		1.1		.5 .6	5		"
36	2-3	1130 / 1135	"	4.0	1.93	1.19		2.3		.5 .6	4		"
37	2-23	1430 / 1436	"	2.5	0.89	1.57		1.4		.5	5		"
38	3-3	1115 / 1125	"	4.0	1.87	1.66		3.1		.5	8		"
39	3-23	1350 / 1358	"	3.1	1.37	1.46		2.0		.5	6		"
40	4-7	1130 / 1138	"	3.1	1.18	1.44		1.7		.5	6		"
41	4-28	1345 / 1350	"	2.5	0.76	1.71		1.3		.5	5		"
42	5-12	1017 / 1025	"	4.0	1.17	0.71		0.76		.5	4		"
43	5-18	1640 / 1650	"	5.0	2.48	1.21		3.0		.5 .6	5		"
44	5-24	1125 / 1130	"	4.0	1.20	0.71		0.85		.5	4		"
45	6-16	1425 / 1428	"	1.2	0.42	0.67		0.28		.5	3		"

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT-ING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			SAN DIMAS CREEK below San Dimas Dam										
126	4-21	1220 / 1236	STUNDEN	3.5	2.32	1.25		2.9		.6	5		FC36
127	5-24	1035 / 1042	"	2.8	1.64	1.22		2.0		.5 .6	5		"
128	5-26	1345 / 1355	"	4.0	2.05	0.88		1.8		.5 .6	6		"
129	6-1	1300 / 1310	"	2.6	1.57	1.21		1.9		.5 .6	5		"
130	6-7	1615 / 1630	"	3.5	2.50	1.24		3.1		.6	7		"
131	6-9	1435 / 1445	"	3.5	2.49	1.24		3.1		.6	7		"
132	6-16	1500 / 1506	STUNDEN - TURNER	3.4	2.42	1.28		3.1		.6	7		"
133	6-23	1315 / 1325	STUNDEN - BLEEMERS	4.0	3.11	1.51		4.7		.5 .6	8		"
134	6-30	1220 / 1235	STUNDEN	4.0	3.01	1.53		4.6		.5 .6	9		"
135	7-7	1405 / 1415	"	4.0	3.18	1.41		4.5		.5 .6	9		"
136	7-14	1430 / 1445	"	4.0	2.79	1.54		4.3		.5 .6	8		"
137	7-22	1610 / 1620	"	4.0	2.45	1.10		2.7		.5 .6	8		"
			PUDDINGSTONE DIVERSION CHANNEL at Outlet										
7	10-7	1045 / 1050	STUNDEN - KELLY	2.0	0.34	1.59		0.54		.5	4		FC36
8	10-14	0835 / 0840	STUNDEN	1.0	0.33	1.21		0.40		.5	2		"
9	11-4	1005 / 1008	"	0.70	0.14	1.36		0.19		.5	1		"
10	11-12	1005 / 1010	"	0.80	0.08	1.13		0.09		.5	2		"
11	11-19	1030 / 1033	"	0.60	0.12	1.33		0.16		FLOATS	1		
12	11-26	1520 / 1522	"	0.40	0.04	0.25		0.01		"	1		
13	12-2	1505 / 1510	"	1.5	0.36	0.69		0.25		.5	3		FC36
14	12-9	1515 / 1520	"	0.80	0.16	1.50		0.24		.5	2		"
15	5-12	1550 / 1555	"	2.0	0.52	1.71		0.89		.5	4		"
16	6-9	1040 / 1045	"	1.5	0.30	1.23		0.37		.5	3		"
17	6-23	0945 / 0948	"	1.0	0.18	1.06		0.19		.5	2		"
18	8-4	0908 / 0910	"	0.60	0.12	1.58		0.19		.5	1		"
19	8-11	1040 / 1043	"	0.50	0.10	1.60		0.16		.5	1		"
20	9-7	1305 / 1310	"	1.0	0.25	1.68		0.42		FLOATS	2		

TABLE X

PERCOLATION LOSSES ON MISSION CREEK
BASED ON METER MEASUREMENTS

1947-48

DATE	MISSION CREEK @ SAN GABRIEL BOULEVARD	FLOW AT STREAMLAND PARK	LOSS IN REACH CFS	FLOW NORTH OF ROSEMEAD & GALLATIN RD.	GAIN OR LOSS IN REACH CFS	FLOW ABOVE LEXINGTON & GALLATIN RD.	LOSS IN REACH CFS	FLOW ABOVE RIO HONDO	LOSS IN REACH CFS
6-22	16.4	12.5	1.7	17.5	+1.1	15.9	1.6	15.2	0.7
8-20	14.2			10.7	-1.8	8.4	2.3	6.7	1.7

1948-49

DATE	MISSION CREEK @ SAN GABRIEL BOULEVARD	FLOW 1500 FEET BELOW SAN GABRIEL BOULEVARD	GAIN IN REACH CFS	FLOW AT TRAILER CAMP RD.	LOSS IN REACH CFS	FLOW AT STREAMLAND PARK	LOSS IN REACH CFS	CATE DITCH WASTE	FLOW AT ROSEMEAD BOULEVARD	LOSS IN REACH CFS	FLOW ABOVE RIO HONDO	LOSS IN REACH CFS
1-31	17.6	RISING WATER + FISH POND INFLOW 18.4	0.8	17.2	-1.2	16.6	0.6	EST. 0.4	16.6	0.4	13.7	2.9

PERCOLATION LOSSES ON SAN JOSE CREEK
BASED ON METER MEASUREMENTS

1947-48

DATE	SAN JOSE CREEK AT VALLEY BOULEVARD	FLOW AT ANA-HEIM-SPADRA ROAD	LOSS IN REACH CFS	FLOW AT LEMON AVENUE	LOSS IN REACH CFS	FLOW AT NOGALES AVENUE	LOSS IN REACH CFS	FLOW AT ANA-HEIM-PUENTE ROAD	LOSS IN REACH CFS	FLOW AT HACIENDA AVENUE	LOSS IN REACH CFS
4-8	5.6			4.4	1.2			3.4	1.0	0.75	2.65

1948-49

1-10	6.1	4.6	1.5	4.2	0.4	3.5	0.7	2.5	1.0	2.1	0.4

PERCOLATION LOSSES ON THE RIO HONDO IN COASTAL BASIN
BASED ON METER MEASUREMENTS AND RECORDER STATIONS

1947-48

DATE	RIO HONDO @ MISSION BRIDGE	RIO HONDO BELOW SAN GABRIEL BOULEVARD	GAIN OR LOSS IN REACH CFS	RIO HONDO ABOVE LA MERCED COMPROMISE LINE	LOSS IN REACH CFS	RIO HONDO AT LA MERCED COMPROMISE LINE	GAIN OR LOSS IN REACH CFS	RIO HONDO ABOVE MISSION CREEK	LOSS IN REACH CFS	ADDITIONAL FLOW FROM MISSION CREEK	RIO HONDO BELOW MISSION CREEK	ARROYO DITCH	RIO HONDO BELOW ARROYO DITCH	LOSS IN REACH CFS	RIO HONDO BELOW WHITTIER BOULEVARD	LOSS IN REACH CFS	MONTEBELLO STORM DRAIN	RIO HONDO BELOW MONTEBELLO STORM DRAIN	LOSS IN REACH CFS	CATE DITCH RETURN	RIO HONDO AT WASHINGTON BOULEVARD	LOSS IN REACH CFS	REMARKS
4-13	16.2					13.3	-2.9	10.5	2.8	21.2	31.7				21.2	10.5	E 0.03	7.0	14.2	E 0.05	0.7	6.3	END OF PERC. 300' BELOW WASHINGTON BOULEVARD.
5-3	14.8	14.8	0	11.2	3.6	11.7	+0.5	7.6	-4.1	22.8	30.4	16.2	8.8	5.4	5.3	3.5							END OF PERC. AT U.P.R.R. BRIDGE.
5-17	11.9	12.6	+0.7			8.5	-4.1	5.8	-2.7	14.9	20.7	12.5	0	8.2									ALL WATER TAKEN BY ARROYO DITCH.

1948-49

1-31	13.6	15.3	+1.7			9.8	-5.5	8.8	-1.0	13.7					5.9	16.6					0	5.9	END OF PERC. 300' ABOVE WASHINGTON BOULEVARD.

TABLE XI

SUMMARY OF SEASONAL DISCHARGE

Water Years 1947-48, 1948-49

YEAR	F.C. NO.	STATION	LOCATION	MAXIMUM DAILY C.F.S.	MINIMUM DAILY C.F.S.	MEAN C.F.S.	RUNOFF A.F.	PEAK FLOW MONTH	PEAK FLOW DAY	PEAK FLOW C.F.S.
1947-48	F81D-R	ALHAMBRA WASH	NEAR SHORT STREET	155.	0.1	2.82	2040.	3	24	2670.
1948-49	"	" "	" " "	95.	0.2	2.80	2020.	12	17	758.
1947-48	F152-R	ALISO WASH	AT NORDHOFF STREET				0			
1948-49	"	" "	" " "	2.7	0	0.05	40.	12	26	51.
1947-48	U1-R	ARROYO SECO	ABOVE MOUTH OF CANYON	32.	0.1	1.65	1200.	4	29	45.
1948-49	"	" "	" " " "	22.	0.1	1.74	1260.	1	20	35.
1947-48	P277-R	ARROYO SECO	BELOW DEVIL'S GATE DAM	1.6	0	0.07	52.	VARIOUS DAYS		1.6
1948-49	"	" "	" " " "	1.8	0	.024	18.	6	13	1.7
1947-48	F38B-R	BALLONA CREEK	AT SAWTELLE BOULEVARD	1000.	3.5	18.8	13630.	3	24	12710.
1948-49	"	" "	" " "	668.	2.8	22.2	16090.	2	7	5740.
1947-48	F120-R	BIG DALTON CREEK	BELOW BIG DALTON DAM	2.6	0	0.02	15.	2	5	20.
1948-49	"	" " "	" " " "	7.4	0	0.14	103.	12	18	E 25.
								9	15	7.4
1947-48	U9-R	BIG DALTON CREEK	NEAR MOUTH OF CANYON	1.8	0	0.04	31.	2	5	23.
1948-49	"	" " "	" " " "	7.4	0	0.164	119.	9	16	11.
1947-49	F274-R	DALTON WASH	AT MERCED AVENUE	20.	0	0.13	96.	12	5	149.
1948-49	"	" "	" " "	19.	0	0.13	97.	12	17	181.
1947-48	F111C-R	BIG TUJUNGA CREEK	BELOW MILL CREEK	42.	0.1	INC.	INC.			INC.
1948-49	"	" " "	" " "	11.	+	1.78	1290.	1	20	9.1
								3	4	13.
1947-48	F111B-R	BIG TUJUNGA CREEK	ABOVE EDISON ROAD	49.	0.1	2.64	1910.	4	29	140.
1948-49	"	" " "	" " "	11.	+	2.09	1510.	3	5	14.
								1	20	16.
1947-48	F168B-R	BIG TUJUNGA CREEK	BELOW BIG TUJUNGA DAM	28.	0.4	4.93	3580.	7	15	54.
1948-49	"	" " "	" " " "	4.5	+	2.28	1650.	8	31	4.5
1947-48	F213-R	BIG TUJUNGA CREEK	ABOVE GOLD CANYON	25.	0.7	6.40	4640.	2	5	53.
1948-49	"	" " "	" " "	13.	0.6	3.40	2460.	1	20	20.
1947-48	E286-R	TUJUNGA WASH	BELOW HANSEN DAM	2.3	0	0.01	9.1	2	5	34.
1948-49	"	" "	" " "	0.08	0	.004	2.6			
1947-48	F208-R	TUJUNGA WASH	AT GLEN OAKS BOULEVARD				0			
1948-49	"	" "	" " "				0			
1947-48	F105-R	TUJUNGA WASH	AT MAGNOLIA BOULEVARD	0.3	0	+	0.6	3	24	1.3
1948-49	"	" "	" " "	STATION DISCONTINUED MARCH 24, 1949						
1947-48	F106-R	TUJUNGA WASH-CENTRAL BRANCH	" " "	22.	0	0.08	58.	3	24	285.
1948-49	"	" " "	" " "	29.	0	0.04	30.	12	17	40.
1947-48	F270-R	CALABASAS CREEK	AT VENTURA BOULEVARD				0			
1948-49	"	" "	" " "				0			
1947-48	F108-R	CASTAIC CREEK	AT HIGHWAY 126	24.	0	0.11	77.	3	24	243.
1948-49	"	" "	" " "				0			
1947-48	F378-R	COMPTON CREEK	NEAR GREENLEAF DRIVE	170.	0.6	7.90	5740.	3	24	1410.
1948-49	"	" "	" " "	282.	0.1	5.06	3660	12	17	2710.
1947-48	F41C-R	COYOTE CREEK	AT DEL AMO STREET	9.3	0	2.07	1500	12	13	23.
1948-49	"	" "	" " "	9.2	0	1.31	951.	1	21	11.
1947-48	F265-R	DOMINGUEZ CHANNEL	AT CARSON BOULEVARD	32.	1.4	7.17	5200.	3	18	37.
1948-49	"	" "	" " "	66.	1.8	7.81	5660.	1	21	75.
1947-48	F53-R	DUME CREEK	AT ROOSEVELT HIGHWAY				0			
1948-49	"	" "	" " "				0			
1947-48	U2-R	EATON CREEK	ABOVE MOUTH OF CANYON	13.	0	0.07	52.	4	29	42.
1948-49	"	" "	" " " "	9.1	0	0.05	35.	1	20	18.
1947-48	F271-R	EATON WASH	BELOW EATON WASH DAM	1.7	0	0.01	5.6	12	4, 5	9.0
1948-49	"	" "	" " " "	0.3	0	.002	1.2	12	17	0.4
1947-48	F104-R	EATON WASH	AT ELLIS LANE	23.	0	0.26	191.	3	24	390.
1948-49	"	" "	" " "	8.0	0	0.12	86.	3	11	54.
1947-48	U7-R	FISH CREEK	ABOVE MOUTH OF CANYON	8.8	0.01	0.74	536.	4	28	28.
1948-49	"	" "	" " " "	18.	0.01	0.84	610.	1	20	35.
1947-48	U12-R	HAINES CREEK	ABOVE MOUTH OF CANYON	0.07	0	.006	4.2	2	5	6.2
1948-49	"	" "	" " " "	0.01	0	.003	1.9			
1947-48	F287-R	LA TUNA CREEK	AT BELMONT COUNTRY CLUB	+	0	+	+	3	24	0.35
1948-49	"	" " "	" " " "				0			
1947-48	F149-R	LIMEKILN WASH	AT DEVONSHIRE AVENUE	4.5	0	0.03	23.	3	24	70.
1948-49	"	" "	" " "	1.0	0	.006	4.4	3	11	6.7
1947-48	F65B-R	LITTLE DALTON CREEK	ABOVE MOUTH OF CANYON	1.6	0	0.06	41.	4	3	4.0
1948-49	"	" " "	" " " "	1.1	0	0.08	58.	3	4	1.9
1947-48	L1-R	LITTLE ROCK CREEK	ABOVE LITTLE ROCK DAM	62.	0	3.37	2450.	4	29	122.
1948-49	"	" " "	" " " "	33.	0	4.38	3170.	4	14	37.
1947-48	U3-R	LITTLE SANTA ANITA CREEK	ABOVE SIERRA MADRE DAM	2.0	0.3	0.22	157.	4	28	12.
1948-49	"	" " " "	" " " "	1.7	0.02	0.23	164.	1	20	3.1
1947-48	F67B-R	LITTLE SANTA ANITA CREEK	BELOW SIERRA MADRE DAM	1.6	0	0.01	7.2	4	28	11.
1948-49	"	" " " "	" " " "	0.1	0	+	0.2	3	11	1.6
1947-48	F267-R	LITTLE SANTA ANITA CREEK	AT WOODLAND AVENUE	6.2	0	0.07	52.	3	13	76.
1948-49	"	" " "	" " "	1.1	0	.024	18.	3	4	43.
1947-48	F19-R	LITTLE TUJUNGA WASH	AT FOOTHILL BOULEVARD	2.6	0	0.01	9.1	3	24	16.
1948-49	"	" "	" " "	0.1	0	+	0.2	5	19	0.9
1947-48	F31-R	LIVE OAK CREEK	AT MOUTH OF CANYON				0			
1948-49	"	" "	" " "				0			
1947-48	F5B-R	LOS ANGELES RIVER	BELOW SEPULVEDA BOULEVARD	83.	5.2	11.7	8510.	3	24	284.
1948-49	"	" "	" " "	103.	4.0	8.45	6120.	12	17	149.
1947-48	F266-R	LOS ANGELES RIVER	AT MARIPOSA STREET	359.	5.1	21.0	15260.	3	24	2180.
1948-49	"	" "	" " "	295.	4.0	23.4	16970.	12	16	1110.
1947-48	F57C-R	LOS ANGELES RIVER	ABOVE ARROYO SECO	498.	3.6	20.5	14890.	3	24	4900.
1948-49	"	" " "	" " "	451.	4.2	24.3	17600	12	17	1530.
1947-48	F34B-R	LOS ANGELES RIVER	AT FIRESTONE BOULEVARD	1280.	10.	52.8	38350.	3	24	8980.
1948-49	"	" " "	" " "	1130.	11.	49.1	35550.	12	17	5300.
1947-48	F180-R	LOS ANGELES RIVER	AT PACIFIC COAST HIGHWAY	1540.	19.	72.8	52820.	3	24	9310.
1948-49	"	" " "	" " " "	1790.	13.	61.3	44350.	12	17	5520.
1947-48	F130-R	MALIBU CREEK	AT CRATER CAMP	15.	0.03	0.25	177.	3	24	113.
1948-49	"	" "	" " "	0.6	+	0.12	90.	5	18	0.62
1947-48	F83-R	MISSION CREEK	AT SAN GABRIEL	33.	13.	17.4	12670.	12	5	51.
1948-49	"	" "	" " "	24.	10.	14.7	10640.	1	20	27.
1947-48	F22-R	MONROVIA CREEK	ABOVE SAWPIT CREEK	0.2	0.02	.036	26.	3	24	1.4
1948-49	"	" "	" " "	0.2	0.01	.037	27.	1	20	0.64
1947-48	F195-R	MONROVIA STORM DRAIN	AT PECK ROAD	16.8	0	0.23	169.	3	24	398.
1948-49	"	" " "	" " "	9.3	0	.208	150.	3	7	154.

SUMMARY OF SEASONAL DISCHARGE

Water Years 1947-48, 1948-49

YEAR	F.C. NO.	STATION	LOCATION	MAXIMUM DAILY C.F.S.	MINIMUM DAILY C.F.S.	MEAN C.F.S.	RUNOFF A.F.	PEAK FLOW MONTH	PEAK FLOW DAY	PEAK FLOW C.F.S.
1947-48	F181-R	MONTEBELLO STORM DRAIN	ABOVE RIO HONDO	86.	0.1	1.26	913.	12	5	1230.
1948-49	"	" " "	" " "	41.	0.1	1.19	861.	12	17	347.
1947-48	F118B-R	PACOIMA CREEK	BELOW PACOIMA DAM	6.4	0	0.46	334.	6	22	10.
1948-49	"	" "	" " "	7.9	0	1.02	740.	6	24	10.
1947-48	F16-R	PACOIMA WASH	AT PARTHENIA STREET	19.	0	0.14	102.	3	24	178.
1948-49	"	" "	" " "	6.6	0	0.07	53.	12	26	60.
1947-48	F135-R	PLACERITA CREEK	AT RIDGE ROUTE HIGHWAY	19.	0	0.12	84.	3	24	82.
1948-49	"	" "	" " "	8.6	0	0.13	94.	12	26	37.
1947-48	F40-R	PUDDINGSTONE CREEK	BELOW PUDDINGSTONE DAM	0.7	0.01	0.07	49.	7	13	7.3
1948-49	"	" "	" " "	0.9	+	.063	45.	7	22	2.5
1947-48	F280-R	RIO HONDO DIVERSION	BELOW SANTA FE DAM	786.	0	10.9	7880.	6	4	800.
1948-49	"	" " "	" " " "				0			
1947-48	F192-R	RIO HONDO	AT LOWER AZUSA ROAD	570.	0	7.23	5250.	6	7	584.
								3	24	141.
1948-49	"	" "	" " " "	4.9	0	0.10	71.	1	19, 20	16.
								2	27	50.
1947-48	F64-R	RIO HONDO	ABOVE MISSION BRIDGE	548.	6.6	34.9	25370.	6	4	566.
								3	24	4240.
1948-49	"	" "	" " "	269.	4.8	15.3	11100.	1	19, 20	910.
								12	17	984.
1947-48	F45-R	RIO HONDO	AT STEWART AND GRAY ROAD	425.	0	4.83	3510.	3	24	2880.
1948-49	"	" "	" " " "	268.	0	2.06	1490.	1	20	713.
1947-48	U14-R	ROCK CREEK	ABOVE MOUTH OF CANYON	45.	2.9	6.39	4640.	4	29	84.
1948-49	"	" "	" " "	24.0	2.4	5.77	4180.	4	23	26.
1947-48	U6-R	ROGERS CREEK	ABOVE MOUTH OF CANYON	4.9	0	.263	190.	4	29	13.
1948-49	"	" "	" " " "	12.	0	.435	314.	1	20	22.
1947-48	F82C-R	RUBIO WASH	AT GLENDON WAY	91.	0	1.48	1080.	3	24	2090.
1948-49	"	" "	" " "	59.	0	1.49	1080.	10	30	530.
1947-48	U15-R	SAN ANTONIO CREEK	ABOVE EDISON CO. POWER PLANT	2.9	0.2	0.76	549.	4	28	20.
1948-49	"	" " "	" " " " "	2.3	0.1	0.54	388.	4	20	10.
1947-48	F151-R	SAN ANTONIO CREEK	AT MOUTH OF CANYON	2.2	0	.008	6.0	4	29	17.
1948-49	"	" " "	" " " "			+				
1947-48	U10-R	SAN DIMAS CREEK	AT MOUTH OF CANYON	4.7	0.02	1.05	759.	7	27	55.
1948-49	"	" " "	" " " "	5.5	0	1.05	763.	1	25	6.5
1947-48	F218-R	SAN DIMAS WASH	BELOW PUDDINGSTONE DIVERSION DAM				0			
1948-49	"	" " "	" " " "				0			
1947-48	F208-R	SAN GABRIEL RIVER-WEST FORK	BELOW SAN GABRIEL DAM NO. 2	28.	0.1	4.19	3050.	5	17	79.
1948-49	"	" " "	" " " "	12.3	0.1	3.83	2780.	7	21	67.
1947-48	P3-R	SAN GABRIEL RIVER-WEST FORK	ABOVE FORKS	135.	3.0	17.1	12450.	4	29	329.
1948-49	"	" " "	" "	55.	2.3	14.5	10510.	1	20	78.
1947-48	P4B-R	SAN GABRIEL RIVER-EAST FORK	ABOVE FORKS	133.	6.9	21.3	15490.	4	29	210.
1948-49	"	" " "	" "	64.	6.3	20.3	14700	4	24	70.
1947-48	F250-R	SAN GABRIEL-AZUSA CONDUIT	AT WEIR BELOW SAN GABRIEL DAM NO. 1	60.	0	36.9	26830.	VARIOUS DAYS		60.
1948-49	"	" " "	" " " " " "	70.	0	25.0	18120.	1	21	74.
1947-48	F220-R	SAN GABRIEL-AZUSA CONDUIT	AT GARCIA CANYON	60.	+	34.4	24960.	VARIOUS DAYS		60.
1948-49	"	" " "	" " "	70.	0.1	24.0	17380.	1	21	70.
1947-48	U8-R	SAN GABRIEL RIVER	BELOW MORRIS DAM	1170.	0	18.1	13170.	6	2	1320.
1948-49	"	" " "	" " "	61.	0	5.72	4140.	10	27	79.
1947-48	S100A-R	SAN GABRIEL-AZUSA DUARTE TUNNEL DIVERSION	AT MOUTH OF CANYON	19.2	0	0.21	151.			
1948-49	"	" " " " " "	" " " "	34.6	0	4.04	2920.			
1947-48	F190-R	SAN GABRIEL RIVER	AT FOOTHILL BOULEVARD	1010.	0	14.3	10370.	6	2	1120.
1948-49	"	" " "	" " "				0			
1947-48	*E281-R	SAN GABRIEL RIVER	BELOW SANTA FE DAM	809.	0	11.2	*8120.	6	4	822.
1948-49	"	" " "	" " " "				0			
1947-48	F261B-R	SAN GABRIEL RIVER	AT VALLEY BOULEVARD				0			
1948-49	"	" " "	" " "				0			
1947-48	F263-R	SAN GABRIEL RIVER	AT BEVERLY BOULEVARD	48.	0	11.8	8590.	2	6	84.
1948-49	"	" " "	" " "	77.	0	8.94	6470.	1	20	144.
1947-48	F262-R	SAN GABRIEL RIVER	AT FLORENCE AVENUE				0			
1948-49	"	" " "	" " "				0			
1947-48	F42-R	SAN GABRIEL RIVER	AT SPRING STREET, LONG BEACH				0			
1948-49	"	" " "	" " " "				0			
1947-48	F48-R	SAN JOSE CREEK	AT WORKMAN MILL ROAD	21.	0.6	2.76	2000.	12	6	160.
1948-49	"	" " "	" " " "	35.	0.2	1.68	1220.	1	20	107.
1947-48	U4-R	SANTA ANITA CREEK	ABOVE BIG SANTA ANITA DAM	12.	0.1	1.43	1040.	4	28	47.
1948-49	"	" " "	" " " " "	18.	0.1	1.56	1130.	1	20	32.
1947-48	F119-R	SANTA ANITA CREEK	BELOW BIG SANTA ANITA DAM	5.2	0.3	1.71	1240.	2	6	5.2
1948-49	"	" " "	" " " " "	10.4	0.5	1.36	982.	1	20	10.4
1947-48	F260B-R	SANTA ANITA WASH	AT FOOTHILL BOULEVARD				0			
1948-49	"	" " "	" " "				0			
1947-48	F92B-R	SANTA CLARA RIVER	AT HIGHWAY 99	E 33.	0.8	3.12	2270.	3	24	350.
1948-49	"	" " "	" " "	4.9	0.4	1.80	1300.	3	11	9.9
1948-49	F137-R	SANTA CLARA RIVER	1/2 MILE WEST OF COUNTY LINE	33.	1.1	12.2	8800.	1	20	40.
1947-48	F278-R	SAWPIT CREEK	BELOW SAWPIT DAM				0			
1948-49	"	" "	" " "	7.2	0	.022	16.	2	9	15.
1947-48	U5-R	SAWPIT CREEK	BELOW MONROVIA CANYON	0.4	0	.005	3.4	3	14	0.8
1948-49	"	" "	" " "	7.1	0	0.02	16.	2	9	16.
1947-48	F185-R	SEPULVEDA CREEK	AT CHARNOCK ROAD	118.	+	2.50	1820.	3	24	1710.
1948-49	"	" "	" " "	99.	+	3.33	2410.	2	7	1530.
1947-48	F43-R	SYCAMORE CANYON CHANNEL	ABOVE SOLWAY STREET	2.1	0	.014	9.9	3	24	51.
1948-49	"	" " "	" " "	0.4	0	.012	8.6	1	9	3.4
1947-48	F44-R	SYCAMORE CANYON CHANNEL	AT ADAMS SQUARE	42.	0	0.41	300.	3	24	818.
1948-49	F44B-R	" " "	" " "	20.	+	0.41	294.	3	7	98.
1947-48	F276-R	THOMPSON CREEK SPREADING GROUNDS INTAKE	AT THOMPSON CREEK DAM				0			
1948-49	"	" " " " " "	" " " "				0			
1947-48	F32-R	THOMPSON CREEK	BELOW THOMPSON CREEK DAM				0			
1948-49	"	" "	" " " "				0			
1947-48	F54-R	TOPANGA CREEK	ABOVE MOUTH OF CANYON	23.	0	0.23	168.	3	24	276.
1948-49	"	" "	" " " "	5.0	0.01	0.14	99.	12	26	63.
1947-48	F252-R	VERDUGO CHANNEL	AT ESTELLE AVENUE	41.	0	0.53	382.	3	24	573.
1948-49	"	" "	" " "	35.	0	0.60	433.	12	16	202.
1947-48	F47-R	WALNUT CREEK	AT COVINA BOULEVARD	56.	0	0.23	164.	12	5	232.
1948-49	"	" "	" " "	16.	0	0.07	48.	12	17	121.

*DEDUCT FLOW AT STATION F280-R FOR FLOW DOWN SAN GABRIEL RIVER BELOW SANTA FE DAM.

LEGEND

E - - - - ESTIMATED
+ - - - - 0.05 C.F.S. OR LESS

DAM OPERATION RECORDS

DAMS, DEBRIS DAMS, AND DEBRIS BASINS

FOREWORD

The District operated and maintained fourteen dams, four debris dams, and twenty-four debris basins during the 1947-48 and 1948-49 water years. The Los Angeles District, Corps of Engineers, Department of the Army, operated and maintained Hansen Dam on the Tujunga Wash, Sepulveda Dam on the Los Angeles River, and Santa Fe Dam on the San Gabriel River and the Rio Hondo, and Haines Debris Basin. Pertinent data relative to the District's flood control and water conservation dams, debris dams, and debris basins are presented in the three following tabulations.

FLOOD CONTROL AND CONSERVATION DAMS

Dam	Date of Completion	Date of Survey for Original Storage	Original Storage at Spwy. A.F.	Date of Latest Survey	Latest Storage at Spwy. A.F.	Drainage Area
1. Pacoima	Feb. 1929	1919	6060	Dec. 1944	4714	28.2
2. Big Tujunga	July 1931	1928	6240	June 1944	4235	82.3
3. Devil's Gate	June 1920	1933	4601	Fall 1948	2561 (2)	31.9
4. Eaton Wash	Feb. 1937	Jan. 1936	956	June 1947	661 (2)	9.5
5. Big Santa Anita	Mar. 1927	1923	1376	Jan. 1947	728 (2)	10.8
6. Sawpit	June 1927	1923	476	Dec. 1943	322	3.3
7. San Gabriel No. 2	Apr. 1934	Jan. 1936	12298	Sept. 1947	10634 (2)	39.2
8. San Gabriel No. 1	July 1939	1938 (3)	53344	Nov. 1948	43825 (2)	163.5* (1)
9. Big Dalton	Aug. 1929	1935 (4)	1053	Oct. 1944	952	4.5
10. San Dimas	Sept. 1922	1919	1496	Nov. 1944	1042	16.2
11. Puddingstone Div.***	July 1928	1929	148	Sept. 1944	110	2.6
12. Puddingstone	Jan. 1928	1915	17398	Jan. 1941	17190	11.0**
13. Live Oak	Nov. 1922	1919	250	May 1938	228	2.3
14. Thompson Creek	Mar. 1928	Oct. 1932	812	Jan. 1943	612 (5)	3.5
Totals			106508		87814	408.8

* EXCLUSIVE OF DRAINAGE AREA ABOVE SAN GABRIEL DAM NO. 2
** EXCLUSIVE OF DRAINAGE AREA ABOVE LIVE OAK, SAN DIMAS, AND PUDDINGSTONE DIV. DAMS.
*** TEMPORARY STORAGE; FUNCTIONS PRIMARILY TO DIVERT FLOW.
(1) DRAINAGE AREA CORRECTED TO LATEST AVAILABLE U.S.G.S. TOPOGRAPHY.
(2) CORRECTED TO LATEST SURVEY.
(3) BASED ON A PARTIAL SURVEY PRIOR TO MARCH 2, 1938 AND EXTRAPOLATIONS.
(4) 1935 IS DATE OF FIRST COMPLETE SURVEY, ORIGINAL RECONNAISSANCE SURVEY WAS IN 1923. EARLIER PUBLICATIONS SHOW STORAGE BASED ON VOLUMETRIC COMPUTATIONS WITH EXTRAPOLATIONS BASED ON THE 1923 SURVEY.
(5) LOSS IN STORAGE DUE TO LOWERING SPILLWAY LIP IN JANUARY 1942.

DEBRIS DAMS

Debris Dam	Date of Completion	Drainage Area in Sq. Mi.	Maximum Debris Capacity Cu. Yds.	Capacity at Beginning of 1948-49 Season Cu. Yds.	Approx. Debris Deposition Cu. Yds. 1947-48	1948-49
1. Sunset	Nov. 1929	0.44	17,500	12,800	N	N
2. Verdugo	Mar. 1935	10.01 (1)	151,700 (2)	114,300	Unknown	Unknown
3. Rubio	Apr. 1944	1.26	143,900	138,900	N	N
4. Sierra Madre	Feb. 1928	2.39	81,200 (3)	69,100 (3)	N	N
Totals		14.10	394,300	335,100		

DEBRIS BASINS

Debris Basin	Date of Completion	Drainage Area in Sq. Mi.	Maximum Debris Capacity Cu. Yds.	Capacity at Beginning of 1948-49 Season Cu. Yds.	Approx. Debris Deposition Cu. Yds. 1947-48	1948-49
1. Aliso-Wilbur	June 1942	8.63	50,300 (2)	43,400	6,960	3,280
2. Vanalden	Apr. 1945	1.08	5,400	4,800	N	N
3. Nichols	Nov. 1937	0.94	32,200	20,800	440	845
4. Stough	Jan. 1941	1.65	103,700	92,900	N	N
5. Brand	Nov. 1935	1.03	72,500 (2)	68,300	N	N
6, Scholl	Aug. 1945	0.66	30,900	30,300	N	N
7. Dunsmuir	Oct. 1936	0.84*	122,200	97,100	N	N
8. Ward	Dec. 1944	0.64*	7,400 (2)	6,300	1,040	370
9. Shields	Jan. 1937	0.27*	46,600 (2)	43,600	N	N
10. Eagle	Oct. 1936	0.61*	71,900	59,700	70	N
11. Pickens	Nov. 1935	1.84*	116,500 (2)	88,700	440	N
12. Shover	Feb. 1937	0.23*	37,700 (2)	22,900	N	N
13. Halls	Nov. 1935	1.06*(4)	104,000 (2)	84,200	N	N
14. Sparr	Feb. 1947	0.84	9,900	9,900	N	N
15. Hay	Oct. 1936	0.20	39,800 (2)	36,200	N	N
16. Paradise	June 1944	0.58	13,200 (2)	11,500	210	160
17. Gould	Dec. 1947	0.47	53,800	53,800	N	N
18. Lincoln	Jan. 1936	0.50	40,800 (2)	37,400	N	N
19. West Ravine	Dec. 1935	0.25	49,600 (2)	43,400	N	N
20. Fern	Dec. 1935	0.30	32,900 (2)	26,000	N	N
21. Fair Oaks	Dec. 1935	0.21	28,500 (2)	22,900	N	N
22. Las Flores	Apr. 1936	0.45	61,600 (2)	57,400	N	N
23. Altadena G. C.	Approx. 1915	0.65	12,900	9,500	2,010	1,420
24. Bailey	Aug. 1945	0.57	10,200	9,400	N	N
Totals		24.50	1,153,800	980,400		
Haines (5)	June 1938	1.53	158,600 (2)	142,400	N	N

N NEGLIGIBLE

(1) EXCLUDES 5.49 SQUARE MILES OF DRAINAGE AREA CONTROLLED BY DEBRIS BASINS DESIGNATED BY *.

(2) DESIGN CAPACITY ENLARGED BY CLEANOUT.

(3) DOES NOT INCLUDE DEBRIS CAPACITY ABOVE SPILLWAY ELEVATION.

(4) INCLUDES WEBBER CANYON.

(5) OWNED AND OPERATED BY CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY.

PURPOSE

Dams in the Los Angeles County Flood Control District serve two purposes, the primary purpose being flood control, the secondary, conservation. Proper flood control operation precludes any appreciable period of conservation storage during the storm season, as flood control demands that a maximum amount of storage capacity be kept in reserve. Conservation of flood waters by percolation in natural channels and off-channel spreading grounds is accomplished by regulated releases of storm waters.

Debris dams and debris basins serve primarily for the purpose of controling detritus from their respective drainage areas.

OPERATION

The major portion of available storage is kept in reserve during the winter season to enable the District to store or detain peak flood flows until valley runoff has receded sufficiently to allow the discharging of storm waters from the mountains. The conservation of inflows by sustained storage is usually commenced when the threat of the winter flood season is reasonably passed. The stored water is then released in such a manner as to be used directly for irrigation or percolated to the ground water supply.

Reclaiming of valuable storage capacity is effected by sluicing from the District reservoirs to the limit of available and safe channel capacity below the dams when runoff and storage conditions permit.

The following tabulation shows the amount of debris removed from dams by sluicing and excavation during the 1947-48 and 1948-49 seasons.

Dams	1947-48 Cu. Yds.	1948-49 Cu. Yds.
Devil's Gate	20,105 (2)	26,961 (2)
San Gabriel No. 1		270,000 (1)
Total Cubic Yards	20,105	297,221

(1) BY SLUICING
(2) BY EXCAVATION; FROM RECORDS FURNISHED BY CITY OF PASADENA.

RECORDS

The daily storage and flow records at fourteen of the District dams are summarized on the Dam Operation Record sheets. The sheets show:

1. Reservoir water surface elevations based on the United States Geological Survey datum used for the design and construction of the dam. Water stage recorder graphs or interpolation from staff gage readings are obtained and recorded as of midnight of each day.

2. Storages in acre feet based on topographic surveys taken following important changes in reservoir beds. These changes consist primarily of debris inflow during large storms and debris removal by sluicing or mechanical means.

3. Inflows in cubic feet per second are usually calculated from storage change and known outflow. When outflow is not known, the inflow may be determined from gaging station records or interpolated between measurements.

4. Outflows in cubic feet per second are mean daily valve and/or spillway discharge. These are determined from gaging station records, known valve openings and rating curves, or from storage change and known inflow.

5. In some instances, total monthly and yearly evaporation and percolation losses have been computed and are indicated on the Dam Operation Records. Discrepancies between outflow and storage losses at certain dams were attributable to percolation and evaporation losses and are shown as total monthly and yearly losses For San Gabriel Dams No. 1 and No. 2 reservoirs, total monthly evaporation losses are shown as determined from measurements made on floating evaporation pans. In those cases where no allowances were made for evaporation, the amounts are necessarily included in the flow values.

Accuracy of the flow records computed from storage records is dependent on the frequency with which storage data are revised to keep in step with physical change in reservoirs. Percentage of error is in direct proportion to the error in water surface areas through the range at which the flows were computed; normally the error is small.

COMPLETE ANNUAL RESERVOIR OPERATION SUMMARY

A summary table showing total annual inflow, outflow, storages, and extremes for each of the fourteen District dams during the 1947-48 and 1948-49 water years, is included in this report on page 328.

RESPONSIBILITY

The compilation of the records and assembly for publication during 1947-48 and 1948-49 was under the immediate supervision of H. A. van der Goot and R. E. Lindsay, assisted by F. H. Mellen, G. P. Brown and J. H. Lang

Office work was under the direction of W. J. Wood, Assistant Chief, Hydraulic Division.

Determination of storage and releases during both floods and normal or percolation flows for channels and spreading grounds, drawdown for sluicing operations, channel capacities and conditions, measuring inflows and outflows and notification of parties affected by releases was under the direction of Finley B. Laverty, Chief, Hydraulic Division.

The operation and maintenance, such as mechanical operation of valves, maintenance and construction of various structures for dams, debris basins and spreading grounds and access thereto was under the supervision of R. D. Reeve, Chief, Operation and Maintenance Division.

PACOIMA

F. C. Dist. Form 68A Revised 808 11/44

Daily Gage Height in feet and Operation Record of PACOIMA Dam

In Pacoima Canyon for the Year Ending September 30, 19 48

Drainage Area 28.2 Square Miles. Capacity of Reservoir 4,714.4 Ac. Ft. at Spillway Elev. 1950.0 Ft. as of December 19 44 Survey

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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	1695±		0.4	0.4	1695±	0	0.3	0.3	1760.5	109	e 0.2	0	1773.9	266	e 0.1	0	1
2			0.5	0.5	1695±	0	0.3	0.3	1761.3	113	0.2	0	1774.2	268	0.1	0	2
3			0.5	0.5	1695±	0	0.3	0.3	1762.0	117	0.2	0	1774.4	270	0.1	0	3
4			0.5	0.5	1698.0	0.2	0.3	0.2	1762.7	123	0.3	0	1774.7	272	0.1	0	4
5			0.5	0.5	1710.0	0.6	0.3	0.1	1763.7	139	0.8	0	1774.9	274	0.1	0	5
6			0.5	0.5	1718.4	1.0	0.3	0.1	1764.3	147	0.4	0	1775.2	276	0.1	0	6
7			0.5	0.5	1722.7	1.4	0.3	0.1	1764.8	153	0.3	0	1775.4	278	0.1	0	7
8			0.5	0.5	1726.8	1.8	e 0.2	0	1765.3	159	0.3	0	1775.7	280	0.1	0	8
9			0.5	0.5	1730.6	2.2	0.2	0	1765.8	165	0.3	0	1776.0	282	0.1	0	9
10			0.4	0.4	1733.1	2.6	0.2	0	1766.2	170	0.3	0	1776.3	284	0.1	0	10
11			0.4	0.4	1735.5	3.0	0.2	0	1766.6	176	0.3	0	1776.6	286	0.1	0	11
12			0.4	0.4	1737.8	3.4	0.2	0	1767.2	182	0.3	0	1776.9	288	0.1	0	12
13			0.4	0.4	1740.0	3.8	0.2	0	1767.6	188	0.3	0	1777.1	290	0.1	0	13
14	No Storage		0.4	0.4	1741.5	4.2	0.2	0	1768.1	194	0.3	0	1777.4	292	0.1	0	14
15			0.3	0.3	1743.0	4.6	0.2	0	1768.6	200	0.3	0	1777.6	294	0.1	0	15
16			0.3	0.3	1744.5	5.0	0.2	0	1769.1	204	0.2	0	1777.8	296	0.1	0	16
17			0.3	0.3	1745.9	5.4	0.2	0	1769.6	208	0.2	0	1778.0	298	0.1	0	17
18			0.4	0.4	1747.3	5.8	0.2	0	1769.9	212	0.2	0	1778.1	300	0.1	0	18
19			0.4	0.4	1748.6	6.1	0.2	0	1770.2	216	0.2	0	1778.2	302	0.1	0	19
20			0.4	0.4	1749.8	6.5	0.2	0	1770.6	220	0.2	0	1778.4	304	0.1	0	20
21			0.3	0.3	1751.0	6.9	0.2	0	1770.9	224	0.2	0	1778.6	306	0.1	0	21
22			0.3	0.3	1752.2	7.3	0.2	0	1771.2	228	0.2	0	1778.8	308	0.1	0	22
23			0.3	0.3	1753.3	7.7	0.2	0	1771.5	232	0.2	0	1779.0	310	0.1	0	23
24			0.3	0.3	1754.3	8.1	0.2	0	1771.8	236	0.2	0	1779.2	312	0.1	0	24
25			0.3	0.3	1755.3	8.5	0.2	0	1772.1	240	0.2	0	1779.4	314	0.1	0	25
26			0.3	0.3	1756.3	8.9	0.2	0	1772.3	244	0.2	0	1779.6	316	0.1	0	26
27			0.3	0.3	1757.2	9.3	0.2	0	1772.5	248	0.2	0	1779.8	318	0.1	0	27
28			0.3	0.3	1758.1	9.7	0.2	0	1772.7	252	0.2	0	1780.0	320	0.1	0	28
29			0.3	0.3	1759.0	10.1	0.2	0	1773.0	256	0.2	0	1780.2	322	0.1	0	29
30			0.3	0.3	1759.7	10.5	e 0.2	0	1773.3	260	0.2	0	1780.4	324	0.1	0	30
31			0.3	0.3					1773.6	264	e 0.2	0	1780.5	326	e 0.1	0	31
TOTAL			11.8	11.8			6.7	1.4			8.0	0			3.1	0	
Inf. Ac. Ft.			23.4				13.3				15.9				6.1		58.7
Outf. Ac. Ft.				23.4				2.8				0			0		26.2
Maximum Mean Daily Inflow			0.5				0.3				0.8				0.1		0.8
Minimum Mean Daily Inflow			0.3				0.2				0.2				0.1		0.1
Storage Change	0				+10.5				+15.9				+6.2				+32.6

NOTE: Gage Heights and Storages as of Midnight on Day Shown — ½ Year

Max. W. S. Elev.	1819.95	feet on	6/10/48	Storage	267.3	Acre Feet		
Min. W. S. Elev.	1695. ±	feet on	PART OF YEAR	Storage	0	Acre Feet		
Max. Peak Inf.	12.1	C.F.S. from	10:00	on	4/29/48	to	11:00 A.M.	on 4/29/48
Max. Peak Outf.	7.7	C.F.S. from	11:30 A.M.	on	6/29/48	to	12:00 N	on 6/29/48

RECORDS COLLECTED BY

L. L. MOORE	Dam Tender	
L. J. TURNER	Hydrographer	
	Hydrographer	

COMPUTATIONS	ckd.	Date
Gage Hts. copied	APK DB	6/21/48
Storage applied	APK JHL	9/28/48
Inf. & Outf. comp.	APK JHL	"

REMARKS
- INDICATES AVERAGE FOR PERIOD
- e INDICATES ESTIMATES BASED ON OCCASIONAL MEASUREMENTS
- NO ALLOWANCE MADE FOR PERCOLATION OR EVAPORATION
- STORAGES COMPUTED FROM INFLOW & OUTFLOW RECORDS DUE TO CHANGE IN STORAGE RESULTING FROM SLUICING.

F. C. Dist. Form 68B Revised 806 11/44

Daily Gage Height in feet and Operation Record of PACOIMA Dam

In Pacoima Canyon for the Year Ending September 30, 19 48

Drainage Area 28.2 Square Miles. Capacity of Reservoir 4,714.4 Ac. Ft. at Spillway Elev. 1950.0 Ft. as of December 19 44 Survey

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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	1780.6	329	0.1	0	1786.9	413	0.3	0	1796.2	714	0.5	0	1813.3	197.4	2.8	0	1
2	1780.8	331	0.1	0	1787.2	419	0.3	0	1796.9	747	1.7	0	1813.8	202.3	2.5	0	2
3	1780.9	331	0.1	0	1787.5	426	0.3	0	1798.0	804	2.8	0	1814.3	207.2	2.5	0	3
4	1781.0	332	0.1	0	1787.8	432	0.3	0	1798.8	849	2.3	0	1814.7	211.1	2.0	0	4
5	1781.2	334	0.1	0	1788.1	438	0.3	0	1799.8	907	2.9	0	1815.0	214.1	1.5	0	5
6	1781.4	335	0.1	0	1788.4	445	0.3	0	1800.7	962	2.8	0	1815.2	216.1	1.2	0	6
7	1781.6	337	0.1	0	1788.7	452	0.3	0	1801.5	1014	2.6	0	1815.5	219.2	1.2	0	7
8	1781.8	339	0.1	0	1789.0	459	0.3	0	1802.2	1061	2.4	0	1815.7	221.2	1.1	0	8
9	1782.0	341	0.1	0	1789.3	467	0.3	0	1802.7	1095	1.7	0	1815.9	223.3	1.1	0	9
10	1782.1	342	0.1	0	1789.6	475	0.4	0	1803.6	1158	3.2	0	1816.1	225.3	1.1	0	10
11	1782.2	343	0.1	0	1789.8	480	0.4	0	1804.4	1216	2.9	0	1816.3	227.4	1.0	0	11
12	1782.4	345	0.1	0	1790.0	485	0.4	0	1805.1	1268	2.6	0	1816.6	230.5	1.0	0	12
13	1782.6	347	0.1	0	1790.3	493	0.4	0	1805.6	1306	2.0	0	1816.7	231.6	0.9	0	13
14	1782.8	349	0.1	0	1790.8	507	0.7	0	1806.0	1336	1.6	0	1816.9	233.7	0.9	0	14
15	1783.0	351	0.1	0	1791.2	519	0.6	0	1806.4	1368	1.5	0	1817.0	234.7	0.9	0	15
16	1783.3	355	0.1	0	1791.4	526	0.4	0	1806.8	1400	1.4	0	1817.1	235.8	0.7	0	16
17	1783.6	359	0.1	0	1791.7	535	0.6	0	1807.2	1432	1.4	0	1817.2	236.8	0.7	0	17
18	1783.8	361	0.2	0	1791.9	542	0.6	0	1807.5	1457	1.4	0	1817.4	239.0	0.6	0	18
19	1784.0	364	0.2	0	1792.2	552	0.6	0	1807.7	1473	1.4	0	1817.5	240.1	0.6	0	19
20	1784.3	368	0.2	0	1792.6	566	0.6	0	1808.1	1506	1.3	0	1817.6	241.1	0.6	0	20
21	1784.5	372	0.2	0	1792.9	577	0.6	0	1808.4	1532	1.2	0	1817.7	242.2	0.6	0	21
22	1784.7	374	0.2	0	1793.3	591	0.6	0	1808.7	1557	1.1	0	1817.8	243.3	0.6	0	22
23	1785.0	379	0.2	0	1793.6	603	0.6	0	1809.0	1582	1.1	0	1817.9	244.3	0.6	0	23
24	1785.2	382	0.2	0	1794.0	618	0.6	0	1809.3	1608	1.1	0	1818.1	246.5	0.6	0	24
25	1785.5	388	0.2	0	1794.4	634	0.6	0	1809.5	1626	1.1	0	1818.2	247.6	0.6	0	25
26	1785.7	391	0.2	0	1794.7	647	0.6	0	1809.7	1643	1.1	0	1818.3	248.7	0.6	0	26
27	1786.0	396	0.2	0	1795.0	659	0.6	0	1809.9	1660	1.1	0	1818.4	249.8	0.6	0	27
28	1786.3	402	0.2	0	1795.3	673	0.6	0	1810.2	1687	1.4	0	1818.5	250.9	0.6	0	28
29	1786.6	407	0.2	0	1795.5	682	0.6	0	1811.6	1814	6.4	0	1818.6	252.0	0.6	0	29
30					1795.8	695	0.6	0	1812.7	1917	5.2	0	1818.7	253.1	0.6	0	30
31					1796.0	704	0.6	0					1818.8	254.2	0.6	0	31
TOTAL			4.1	0			15.0	0			61.2	0			31.5	0	
Inf. Ac. Ft.			8.1				29.7				121.4				62.5		280.4
Outf. Ac. Ft.				0				0				0			0		26.2
Maximum Mean Daily Inflow			0.2				0.7				6.4				2.8		6.4
Minimum Mean Daily Inflow			0.1				0.3				0.5				0.6		0.1
Storage Change	+8.1				+29.7				+121.3				+62.5				+254.2

NOTE: Gage Heights and Storages as of Midnight on Day Shown — ¾ Year

Max. W. S. Elev.	1819.95	feet on	6/10/48	Storage	267.3	Acre Feet		
Min. W. S. Elev.	1695. ±	feet on	PART OF YEAR	Storage	0	Acre Feet		
Max. Peak Inf.	12.1	C.F.S. from	10:00 A.M.	on	4/29/48	to	11:00 AM.	on 4/29/48
Max. Peak Outf.	7.7	C.F.S. from	11:30 A.M.	on	6/29/48	to	12:00 N	on 6/29/48

RECORDS COLLECTED BY

L. L. MOORE	Dam Tender	
L. J. TURNER	Hydrographer	
	Hydrographer	

COMPUTATIONS	ckd.	Date
Gage Hts. copied	DE RCL	
Storage applied	RCL DB	
Inf. & Outf. comp.	RCL DB	

REMARKS
- INDICATES AVERAGE FOR PERIOD
- NO ALLOWANCE MADE FOR PERCOLATION OR EVAPORATION
- STORAGES BASED ON RATING TABLE VI + 30.0 A.F. FOR ADDITIONAL SLUICED STORAGE, COMMENCING 2/1/48

PACOIMA (cont'd)

F. C. Dist. Form 58C Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PACOIMA Dam

In ~~On~~ Pacoima Canyon for the Year Ending September 30, 1948

Continuous Water Stage Recorder Au

Drainage Area 28.2 Square Miles. Capacity of Reservoir 4,714.4 Ac. Ft. at Spillway Elev. 1950.0 Ft. as of December, 1944 Survey 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	1819.0	256.4	0.6	0	1778.3	*16.9	0.5	5.8	1754.0	3.0	0.4	0.4	1776.5	11.9	0.2	0	1
2	1819.1	257.5	0.6	0	1763.7	7.8	0.5	5.1	1754.0	3.0	0.4	0.4	1777.2	12.3	0.2	0	2
3	1819.2	258.7	0.6	0	1752.0	4.4	0.5	2.2	1754.0	3.0	0.4	0.5	1777.8	12.7	0.2	0	3
4	1819.3	259.8	0.6	0	1746.5	2.4	0.5	1.5	1754.0	3.0	0.4	0.4	1778.3	13.1	0.2	0	4
5	1819.5	262.1	0.6	0	1741.5	1.0	0.5	1.2	1754.0	3.0	0.4	0.4	1778.8	13.5	0.2	0	5
6	1819.6	263.2	0.6	0	1740±	0.4	0.5	0.8	1754.0	3.0	0.4	0.3	1779.3	13.9	0.2	0	6
7	1819.7	264.4	0.6	0	1740±	0.2	0.5	0.6	1754.0	3.0	0.3	0.3	1779.6	14.3	0.2	0	7
8	1819.8	265.5	0.6	0	1740±	0	0.5	0.6	1754.0	3.0	0.3	0.3	1779.9	14.7	0.2	0	8
9	1819.9	266.7	0.6	0	1743.4	**0.2	0.5	0.4	1754.0	3.0	0.3	0.3	1780.3	15.1	0.2	0	9
10	1819.3	259.8	0.6	4.3	1748.4	1.2	0.5	0	1754.0	3.0	0.3	0.3	1780.6	15.5	0.2	0	10
11	1818.2	247.6	0.6	6.4	1752.2	2.2	0.5	0	1754.0	3.0	0.3	0.3	1781.0	15.9	0.2	0	11
12	1817.2	236.8	0.6	6.4	1754.0	3.0	0.5	0.1	1755.7	3.4	0.3	0.1	1781.3	16.3	0.2	0	12
13	1816.1	225.3	0.6	6.3	1754.0	3.0	0.4	0.4	1757.8	4.0	0.3	0	1781.6	16.7	0.2	0	13
14	1815.0	214.1	0.6	6.2	1754.0	3.0	0.4	0.4	1759.8	4.6	0.3	0	1781.9	17.1	0.2	0	14
15	1813.9	203.2	0.6	6.2	1754.0	3.0	0.4	0.4	1761.8	5.2	0.3	0	1782.3	17.5	0.2	0	15
16	1812.7	191.7	0.6	6.2	1754.0	3.0	0.4	0.4	1762.7	5.6	0.2	0	1782.4	17.6	0.1	0	16
17	1811.5	180.5	0.6	6.0	1754.0	3.0	0.4	0.4	1763.6	6.0	0.2	0	1782.5	17.8	0.1	0	17
18	1810.4	170.5	0.6	5.9	1754.0	3.0	0.4	0.4	1764.7	6.4	0.2	0	1782.5	17.8	0.1	0.1	18
19	1809.1	159.1	0.6	5.9	1754.0	3.0	0.4	0.4	1765.9	6.8	0.2	0	1782.6	18.0	0.2	0.1	19
20	1807.9	149.0	0.6	5.8	1754.0	3.0	0.4	0.4	1767.0	7.2	0.2	0	1782.7	18.2	0.2	0.1	20
21	1806.6	138.4	0.6	5.7	1754.0	3.0	0.4	0.4	1768.1	7.6	0.2	0	1782.7	18.2	0.2	0.2	21
22	1805.3	128.3	0.6	5.8	1754.0	3.0	0.4	0.4	1769.2	8.0	0.2	0	1782.7	18.2	0.2	0.2	22
23	1804.0	118.6	0.5	5.7	1754.0	3.0	0.4	0.4	1770.2	8.4	0.2	0	1782.7	18.2	0.2	0.2	23
24	1802.6	108.8	0.5	5.6	1754.0	3.0	0.4	0.4	1770.9	8.8	0.2	0	1782.6	18.0	0.1	0.2	24
25	1800.9	97.5	0.5	6.0	1754.0	3.0	0.4	0.4	1771.3	9.1	0.2	0	1782.5	17.8	0.1	0.2	25
26	1799.2	87.2	0.5	5.8	1754.0	3.0	0.4	0.4	1772.1	9.5	0.2	0	1782.5	17.8	0.2	0.2	26
27	1797.2	76.2	0.5	5.6	1754.0	3.0	0.4	0.4	1773.0	9.9	0.2	0	1782.5	17.8	0.2	0.2	27
28	1795.2	66.8	0.5	5.4	1754.0	3.0	0.4	0.4	1773.7	10.3	0.2	0	1782.5	17.8	0.2	0.2	28
29	1791.8	53.9	0.5	6.0	1754.0	3.0	0.4	0.4	1774.5	10.7	0.2	0	1782.5	17.8	0.2	0.2	29
30	1787.9	43.4	0.5	6.3	1754.0	3.0	0.4	0.4	1775.2	11.1	0.2	0	1782.5	17.8	0.2	0.2	30
31					1754.0	3.0	0.4	0.4	1775.8	11.5	0.2	0					31
TOTAL			17.2	123.5			13.6	25.9			8.3	4.0			5.5	2.3	
Inf. Ac. Ft.			34.1				27.0				16.5				10.9	3.6.8.9	
Outf. Ac. Ft.				24.5.0				51.4				7.9			4.6	33.5.1	
Maximum Mean Daily Inflow			0.6				0.5				0.4				0.2	6.4	
Minimum Mean Daily Inflow			0.5				0.4				0.2				0.1	0.1	
Storage Change		-210.8				*-24.4				+8.5				+6.3		+17.8 (16.0)	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — Yearly Totals

Max. W. S. Elev.	1819.95	feet on	6/10/48	Storage	267.3 Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1695.±	feet on	PART OF YEAR	Storage	0 Acre Feet	L. L. MOORE	Dam Tender	Gage Hts. copied	JHL	LT
Max. Peak Inf.	12.1	C.F.S. from	10:00 A.M. on 4/29/48	to	11:00 A.M. on 4/29/48	L. J. TURNER	Hydrographer	Storage applied	JHL	LT
Max. Peak Outf.	7.7	C.F.S. from	11:30 A.M. on 6/29/48	to	12:00 N on 6/29/48		Hydrographer	Inf. & Outf. comp.	JHL	LT

REMARKS * STORAGES COMPUTED FROM INFLOW AND OUTFLOW, JULY 1 TO JULY 8; 16.0 A.F. STORAGE LOSS DUE TO SILTATION
** STORAGES COMPUTED FROM INFLOW AND OUTFLOW JULY 9 TO SEPTEMBER 30
(INDICATES AVERAGE FOR PERIOD
NO ALLOWANCE MADE FOR PERCOLATION OR EVAPORATION

F. C. Dist. Form 58A Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PACOIMA Dam

In ~~On~~ Pacoima Canyon for the Year Ending September 30, 1949

Continuous Water Stage Recorder Au

Drainage Area 28.2 Square Miles. Capacity of Reservoir 4714.4 Ac. Ft. at Spillway Elev. 1950.0 Ft. as of December, 1944 Survey 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	1782.5	17.8	0.2	0.2	1782.5	17.8	0.2	0.2	1782.4	17.7	0.1	0.1	1785.5	22.0	0.1	0	1
2	1782.5	17.8	0.2	0.2	1782.5	17.8	0.2	0.2	1782.4	17.7	0.1	0.1	1785.6	22.1	0.1	0	2
3	1782.5	17.8	0.2	0.2	1782.5	17.8	0.2	0.2	1782.4	17.7	0.1	0.1	1785.8	22.5	0.1	0	3
4	1782.5	17.8	0.2	0.2	1782.5	17.8	0.1	0.1	1782.4	17.7	0.1	0.1	1785.8	22.5	0.1	0	4
5	1782.5	17.8	0.2	0.2	1782.5	17.8	0.1	0.1	1782.5	17.8	0.1	0.1	1785.8	22.5	0.1	0	5
6	1782.5	17.8	0.2	0.2	1782.4	17.7	0.1	0.1	1782.5	17.8	0.1	0.1	1785.9	22.6	0.1	0	6
7	1782.5	17.8	0.2	0.2	1782.4	17.7	0.1	0.1	1782.5	17.8	0.1	0.1	1786.0	22.8	0.1	0	7
8	1782.5	17.8	0.2	0.2	1782.4	17.7	0.1	0.1	1782.5	17.8	0.1	0.1	1786.1	23.0	0.1	0	8
9	1782.5	17.8	0.2	0.2	1782.4	17.7	0.1	0.1	1782.5	17.8	0.1	0.1	1786.2	23.2	0.1	0	9
10	1782.5	17.8	0.2	0.2	1782.4	17.7	0.1	0.1	1782.5	17.8	0.1	0.1	1786.2	23.2	0.1	0	10
11	1782.5	17.8	0.2	0.2	1782.4	17.7	0.1	0.1	1782.5	17.8	0.1	0.1	1786.2	23.2	0.1	0	11
12	1782.5	17.8	0.2	0.2	1782.4	17.7	0.1	0.1	1782.5	17.8	0.1	0.1	1786.3	23.4	0.1	0	12
13	1782.5	17.8	0.2	0.2	1782.4	17.7	0.1	0.1	1782.5	17.8	0.1	0.1	1786.5	23.8	0.1	0	13
14	1782.5	17.8	0.2	0.2	1782.4	17.7	0.1	0.1	1782.5	17.8	0.1	0.1	1786.7	24.1	0.1	0	14
15	1782.5	17.8	0.2	0.2	1782.4	17.7	0.1	0.1	1782.6	17.9	0.1	0.1	1786.9	24.5	0.1	0	15
16	1782.5	17.8	0.2	0.2	1782.3	17.6	0.1	0.1	1782.7	18.0	0.1	0.1	1787.1	24.9	0.1	0	16
17	1782.5	17.8	0.2	0.2	1782.3	17.6	0.1	0.1	1782.8	18.1	0.1	+	1787.1	24.9	0.1	0	17
18	1782.5	17.8	0.2	0.2	1782.3	17.6	0.1	0.1	1783.0	18.3	0.2	0	1787.1	24.9	0.1	0	18
19	1782.5	17.8	0.2	0.2	1782.3	17.6	0.1	0.1	1783.2	18.6	0.1	0	1787.2	25.1	0.1	0	19
20	1782.5	17.8	0.2	0.2	1782.3	17.6	0.1	0.1	1783.4	18.8	0.1	0	1787.4	25.5	0.2	0	20
21	1782.5	17.8	0.2	0.2	1782.3	17.6	0.1	0.1	1783.6	19.1	0.1	0	1787.6	26.0	0.1	0	21
22	1782.5	17.8	0.2	0.2	1782.3	17.6	0.1	0.1	1783.7	19.2	0.1	0	1787.7	26.2	0.2	0	22
23	1782.5	17.8	0.2	0.2	1782.3	17.6	0.1	0.1	1783.9	19.5	0.2	0	1787.9	26.6	0.2	0	23
24	1782.5	17.8	0.2	0.2	1782.3	17.6	0.1	0.1	1784.1	19.8	0.1	0	1788.1	27.0	0.1	0	24
25	1782.5	17.8	0.2	0.2	1782.3	17.6	0.1	0.1	1784.3	20.0	0.1	0	1788.2	27.3	0.1	0	25
26	1782.5	17.8	0.2	0.2	1782.3	17.6	0.1	0.1	1784.5	20.4	0.2	0	1788.3	27.5	0.1	0	26
27	1782.5	17.8	0.2	0.2	1782.3	17.6	0.1	0.1	1784.7	20.6	0.1	0	1788.5	28.0	0.1	0	27
28	1782.5	17.8	0.2	0.2	1782.3	17.6	0.1	0.1	1784.9	21.0	0.2	0	1788.6	28.2	0.1	0	28
29	1782.5	17.8	0.2	0.2	1782.4	17.7	0.1	0.1	1785.1	21.3	0.2	0	1788.6	28.2	0.1	0	29
30	1782.5	17.8	0.2	0.2	1782.4	17.7	0.1	0.1	1785.3	21.6	0.2	0	1788.7	28.4	0.1	0	30
31	1782.5	17.8	0.2	0.2					1785.4	21.8	0.1	0	1788.8	28.6	0.1	0	31
TOTAL			6.2	6.2			3.3	3.3			3.7	1.6			3.4	0	
Inf. Ac. Ft.			12.3				6.5				7.3				6.7	32.8	
Outf. Ac. Ft.				12.3				6.5				3.2			0	22.0	
Maximum Mean Daily Inflow			0.2				0.2				0.2				0.2	0.2	
Minimum Mean Daily Inflow			0.2				0.1				0.1				0.1	0.1	
Storage Change		0				-0.1				+4.1				+6.8		+10.8	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — ½ Year

Max. W. S. Elev.	1841.1	feet on	4/28/49	Storage	554.3 Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1732.5	feet on	8/29/49	Storage	0.4 Acre Feet	L. L. MOORE	Dam Tender	Gage Hts. copied	JHL EAD	3/28/49
Max. Peak Inf.	17.4	C.F.S. from	0400 on 3/5/49	to	0500 on 3/5/49	L. J. TURNER	Hydrographer	Storage applied	JHL EAD	3/28/49
Max. Peak Outf.	10.3	C.F.S. from	1715 on 6/24/49	to	1730 on 6/24/49		Hydrographer	Inf. & Outf. comp.	JHL EAD	3/28/49

REMARKS STORAGE BASED ON STORAGE TABLE V1 + 13.2 A.F. FOR ADDITIONAL SLUICED AREA; COMMENCING 10/1/48. OUTFLOW FROM STATION F118-R.
(INDICATES AVERAGE FOR PERIOD. NO ALLOWANCE FOR PERCOLATION OR EVAPORATION.

PACOIMA (cont'd)

F. C. Dist. Form 68B Revised 500 11/44

Daily Gage Height in feet and Operation Record of PACOIMA Dam

In Pacoima Canyon for the Year Ending September 30, 19 49

On

Drainage Area 28.2 Square Miles. Capacity of Reservoir 4714.4 Ac. Ft. at Spillway Elev. 1950.0 Ft. as of December, 19 44 Survey

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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	1788.9	289	0.2	0	1804.5	105.5	6.8	0	1835.5	462.0	2.9	0	1839.0	518.7	0.7	5.5	1
2	1789.2	296	0.3	0	1806.1	117.6	6.1	0	1835.9	468.2	2.9	0	1838.4	508.7	0.7	5.5	2
3	1789.4	301	0.3	0	1807.7	130.5	6.5	0	1836.3	474.6	2.9	0	1837.9	500.5	0.8	5.4	3
4	1789.7	309	0.3	0	1809.5	145.8	7.7	0	1836.6	479.4	2.9	0	1837.3	490.7	0.7	5.4	4
5	1789.9	314	0.3	0	1811.8	166.5	10.5	0	1836.9	484.2	2.8	0	1836.7	481.0	0.7	5.4	5
6	1790.2	323	0.4	0	1813.5	182.6	8.1	0	1837.2	489.1	2.3	0	1836.1	471.4	0.7	5.4	6
7	1790.5	331	0.4	0	1815.1	198.3	7.9	0	1837.5	494.0	2.3	0	1835.6	463.5	0.7	5.2	7
8	1790.7	337	0.4	0	1816.5	212.7	7.3	0	1837.8	498.8	2.3	0	1834.9	452.6	0.7	5.4	8
9	1790.9	342	0.4	0	1817.6	224.3	5.8	0	1838.1	503.8	2.3	0	1834.3	443.3	0.7	5.4	9
10	1791.3	355	0.5	0	1818.9	238.5	7.1	0	1838.3	507.1	2.3	0	1833.7	434.1	0.7	5.4	10
11	1791.7	367	0.5	0	1820.4	255.6	8.7	0	1838.5	510.4	1.7	0	1833.0	423.5	0.6	5.4	11
12	1792.0	377	0.5	0	1821.8	272.1	8.3	0	1838.7	513.7	1.7	0	1832.4	414.5	0.6	5.4	12
13	1792.3	388	0.5	0	1822.9	285.5	6.8	0	1838.9	517.0	1.7	0	1831.7	404.1	0.7	5.4	13
14	1792.6	398	0.6	0	1823.9	297.9	6.2	0	1839.1	520.4	1.7	0	1831.1	395.4	0.7	5.5	14
15	1792.9	409	0.6	0	1824.8	309.3	5.8	0	1839.3	523.7	1.6	0	1830.5	386.7	0.7	5.5	15
16	1793.2	420	0.6	0	1825.7	320.9	5.8	0	1839.5	527.1	1.3	0	1829.8	376.7	0.8	5.5	16
17	1793.6	435	0.6	0	1826.4	330.1	4.6	0	1839.7	530.5	1.3	0	1829.2	368.3	1.0	5.6	17
18	1794.0	450	0.7	0	1827.2	340.8	5.4	0	1839.9	533.8	1.3	0	1828.7	361.4	2.2	5.6	18
19	1794.3	462	0.7	0	1828.0	351.7	5.5	0	1840.1	537.2	1.3	0	1828.5	358.6	4.1	5.6	19
20	1794.6	475	0.7	0	1828.9	364.1	6.3	0	1840.3	540.6	1.3	0	1828.1	353.1	2.9	5.6	20
21	1794.9	487	0.7	0	1829.7	375.3	5.6	0	1840.4	542.3	1.3	0	1827.6	346.3	2.1	5.6	21
22	1795.1	496	0.7	0	1830.4	385.3	5.1	0	1840.5	544.1	1.3	0	1827.0	338.1	1.5	5.6	22
23	1795.4	509	0.7	0	1831.0	393.9	4.3	0	1840.6	545.8	1.3	0	1826.3	328.8	1.0	5.6	23
24	1795.8	527	0.7	0	1831.7	404.1	5.2	0	1840.7	547.5	1.2	0	1825.6	319.6	1.0	5.1	24
25	1796.3	550	1.0	0	1832.3	413.0	4.4	0	1840.8	549.2	1.2	0	1825.1	313.1	0.9	4.8	25
26	1797.5	610	3.0	0	1832.8	420.5	3.8	0	1840.9	550.9	0.8	0	1824.5	305.5	0.8	4.8	26
27	1800.5	782	8.7	0	1833.3	428.1	3.6	0	1841.0	552.6	0.8	0	1823.8	296.6	0.8	4.8	27
28	1802.6	920	7.0	0	1833.8	435.7	3.6	0	1840.6	545.8	0.8	4.0	1823.2	289.2	0.8	4.8	28
29					1834.3	443.3	3.6	0	1840.1	537.2	0.8	5.5	1822.5	280.6	0.8	4.8	29
30					1834.7	449.5	3.5	0	1839.5	527.1	0.7	5.5	1821.9	273.3	0.7	4.8	30
31					1835.1	455.7	3.5	0					1821.2	265.0	0.7	4.8	31
TOTAL			32.0	0			183.4	0			51.0	15.0			32.5	164.6	
Inf. Ac. Ft.			63.5				363.8				101.2				64.5	625.8	
Outf. Ac. Ft.				0				0				29.8			32.5	378.3	
Maximum Mean Daily Inflow			8.7				10.5				2.9				4.1	10.5	
Minimum Mean Daily Inflow			0.2				3.5				0.7				0.6	0.1	
Storage Change		+63.4				+363.7				+71.4				-262.1		+247.2	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

¾ Year

Max. W. S. Elev.	1841.1	feet on	4/28/49	Storage	554.3	Acre Feet		
Min. W. S. Elev.	1732.5	feet on	8/29/49	Storage	0.4	Acre Feet		
Max. Peak Inf.	17.4	C.F.S. from	0400	on 3/5/49	to 0500	on 3/5/49		
Max. Peak Outf.	10.3	C.F.S. from	1715	on 6/24/49	to 1730	on 6/24/49		

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
L. L. MOORE	Dam Tender	Gage Hts. copied	JHL CJR	11/1/49
L. J. TURNER	Hydrographer	Storage applied	JHL CJR	11/1/49
	Hydrographer	Inf. & Outf. comp.	JHL CJR	11/1/49

REMARKS { INDICATES AVERAGE FOR PERIOD. NO ALLOWANCE FOR PERCOLATION OR EVAPORATION.
STORAGE BASED ON STORAGE TABLE NO. V.I + 13.2 A.F. ADDITIONAL SLUICED AREA.
OUTFLOW FROM STATION F118-R

F. C. Dist. Form 68C Revised 500 11/44

Daily Gage Height in feet and Operation Record of PACOIMA Dam

In Pacoima Canyon for the Year Ending September 30, 19 49

On

Drainage Area 28.2 Square Miles. Capacity of Reservoir 4714.4 Ac. Ft. at Spillway Elev. 1950 Ft. as of December, 19 44 Survey

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

Gage Heights Read daily

Day	JUNE Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JULY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1820.5	256.8	0.7	5.0	1785.2	21.4	0.5	0	1794.3	46.2	0.4	0	1732.8	0.4	0.3	0.3	1
2	1819.7	247.6	0.7	4.9	1786.1	23.0	0.5	0	1791.9	37.4	0.4	3.6	1734.1	0.6	0.3	0.2	2
3	1819.0	239.6	0.7	4.6	1786.7	24.1	0.5	0	1788.8	28.6	0.4	5.2	1735.2	0.6	0.3	0.3	3
4	1818.3	231.9	0.6	4.6	1786.9	24.5	0.5	0	1785.3	21.6	0.5	4.5	1735.2	0.6	0.3	0.3	4
5	1817.6	224.3	0.6	4.6	1787.2	25.1	0.5	0	1779.2	15.3	0.5	4.1	1734.9	0.6	0.3	0.3	5
6	1816.8	215.8	0.6	4.6	1787.6	26.0	0.5	0	1770.3	** 9.9	* 0.6	3.3	1734.3	0.6	0.3	0.3	6
7	1816.1	208.5	0.6	4.6	1788.1	27.0	0.4	0	1759.6	6.3	0.6	2.4	1733.7	0.6	0.3	0.3	7
8	1815.2	199.3	0.5	4.7	1788.4	27.7	0.4	0	1746.0	3.0	0.6	2.3	1733.1	0.6	0.3	0.4	8
9	1814.4	191.4	0.5	4.7	1788.8	28.6	0.4	0	1739.4	2.4	0.6	0.9	1732.6	0.4	0.3	0.3	9
10	1813.6	183.5	0.5	4.7	1789.2	29.6	0.4	0	1739.0	2.4	0.4	0.4	1732.7	0.4	0.3	0.3	10
11	1812.8	175.8	0.4	4.7	1789.5	30.4	0.4	0	1738.9	2.4	0.6	0.6	1733.2	0.6	0.3	0.2	11
12	1812.1	169.2	0.4	3.8	1789.6	30.7	0.4	0	1738.8	2.4	0.6	0.6	1733.5	0.6	0.3	0.3	12
13	1811.3	161.9	0.4	4.0	1789.8	31.2	0.4	0	1738.8	2.4	0.6	0.6	1733.7	0.6	0.3	0.3	13
14	1810.3	152.8	0.5	4.7	1790.2	32.3	0.4	0	1738.8	2.4	0.5	0.5	1733.8	0.6	0.3	0.3	14
15	1809.4	144.9	0.5	4.6	1790.5	33.1	0.4	0	1738.3	2.2	0.4	0.5	1733.7	0.6	0.3	0.3	15
16	1808.4	136.4	0.6	4.6	1790.8	33.9	0.4	0	1737.9	2.0	0.4	0.5	1733.7	0.6	0.3	0.3	16
17	1807.4	128.1	0.6	4.8	1791.2	35.1	0.4	0	1737.5	2.0	0.4	0.4	1733.6	0.6	0.3	0.3	17
18	1806.4	120.0	0.6	4.5	1791.4	35.8	0.4	0	1737.1	2.0	0.3	0.3	1733.6	0.6	0.3	0.3	18
19	1805.4	112.2	0.7	4.4	1791.6	36.4	0.3	0	1736.4	1.8	0.3	0.3	1733.4	0.6	0.3	0.3	19
20	1804.5	105.5	0.7	4.7	1791.8	37.1	0.3	0	1735.9	1.8	0.3	0.3	1733.2	0.6	0.3	0.3	20
21	1803.5	98.3	0.5	4.2	1792.0	37.7	0.3	0	1735.6	1.8	0.3	0.3	1732.8	0.4	0.3	0.3	21
22	1802.4	90.6	0.5	4.3	1792.1	38.1	0.3	0	1735.2	1.6	0.3	0.4	1732.5	0.4	0.3	0.3	22
23	1801.5	84.6	0.4	3.9	1792.3	38.8	0.4	0	1734.8	1.4	0.3	0.4	1733.7	0.8	0.3	0.1	23
24	1800.1	75.7	0.4	5.1	1792.4	39.1	0.4	0	1734.4	1.2	0.3	0.4	1736.9	1.2	0.3	+	24
25	1796.8	57.4	0.4	7.9	1792.6	39.8	0.4	0	1733.9	1.0	0.3	0.4	1739.0	1.6	0.2	+	25
26	1793.7	43.9	0.4	7.6	1792.9	40.9	0.4	0	1733.4	0.8	0.3	0.4	1739.3	1.6	0.2	0.2	26
27	1789.6	30.7	0.4	7.2	1793.1	41.6	0.4	0	1733.1	0.6	0.3	0.4	1738.8	0.8	0.2	0.6	27
28	1786.1	23.0	0.4	5.6	1793.4	42.7	0.4	0	1732.7	0.4	0.3	0.4	1738.9	0.8	0.2	+	28
29	1784.5	20.4	0.4	1.3	1793.6	43.5	0.4	0	1732.5	0.4	0.2	0.3	1738.6	0.8	0.2	0.4	29
30	1784.6	20.5	0.4	+	1793.9	44.6	0.4	0	1732.6	0.4	0.2	0.2	1737.9	0.8	0.3	0.5	30
31					1794.1	45.4	0.4	0	1732.5	0.4	0.3	0.3					31
TOTAL			15.6	138.9			12.6	0			12.5	35.2			8.5	8.3	
Inf. Ac. Ft.			30.9				25.0				24.8				16.9	72.34	
Outf. Ac. Ft.				27.5.5				0				69.8			16.5	74.01	
Maximum Mean Daily Inflow			0.7				0.5				0.6				0.3	10.5	
Minimum Mean Daily Inflow			0.4				0.3				0.2				0.2	0.1	
Storage Change		-244.5				+24.9				-4.5.0				+0.4		-170	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Yearly Totals

Max. W. S. Elev.	1841.1	feet on	4/28/48	Storage	554.3	Acre Feet		
Min. W. S. Elev.	1732.5	feet on	8/29/49	Storage	0.4	Acre Feet		
Max. Peak Inf.	17.4	C.F.S. from	0400	on 3/5/49	to 0500	on 3/5/49		
Max. Peak Outf.	10.3	C.F.S. from	1715	on 6/24/49	to 1730	on 6/24/49		

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
L. L. MOORE	Dam Tender	Gage Hts. copied	CJR JHL	11/7/49
L. J. TURNER	Hydrographer	Storage applied	CJR JHL	11/7/49
	Hydrographer	Inf. & Outf. comp.	CJR JHL	11/7/49

REMARKS { INDICATES AVERAGE FOR PERIOD.
OUTFLOW FROM STATION F 118-R
* INCREASE IN INFLOW DUE TO BANK STORAGE. ** STORAGE COMPUTED FROM INFLOW AND OUTFLOW

BIG TUJUNGA

F. C. Dist. Form 58A Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In Big Tujunga Canyon for the Year Ending September 30, 19 48

Continuous Water Stage Recorder Au

Drainage Area 82.3 Square Miles. Capacity of Reservoir 4,235.3 Ac. Ft. at Spillway Elev. 2290.0 Ft. as of June 19 44 Survey 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	2220.0	832.4	0.6	5.2	2210.3	606.6	1.6	4.9	2202.5	453.1	2.8	4.3	2202.6	454.9	3.5	4.4	1
2	2219.6	822.5	0.8	5.1	2210.0	600.1	1.6	4.8	2202.4	451.3	2.8	4.3	2202.5	453.1	3.5	4.4	2
3	2219.3	815.0	0.9	5.1	2209.7	593.7	1.6	4.8	2202.2	447.7	2.8	4.3	2202.5	453.1	3.5	4.4	3
4	2218.9	805.2	0.9	5.1	2209.4	587.3	1.6	4.7	2202.4	451.3	6.1	4.3	2202.4	451.3	3.5	4.4	4
5	2218.6	797.8	0.9	5.1	2209.1	580.9	1.6	4.7	2203.7	475.0	16.3	4.3	2202.3	449.5	3.5	4.4	5
6	2218.2	788.1	1.1	5.1	2208.8	574.7	1.6	4.7	2204.2	484.3	9.0	4.3	2202.2	447.7	3.5	4.4	6
7	2217.9	780.8	1.1	5.0	2208.5	568.5	1.6	4.7	2204.4	488.0	6.2	4.3	2202.1	445.9	3.5	4.4	7
8	2217.5	771.2	1.1	5.0	2208.2	562.3	1.6	4.7	2204.5	489.9	5.2	4.3	2202.0	444.1	3.5	4.4	8
9	2217.2	764.0	1.2	5.0	2207.9	556.2	1.6	4.7	2204.5	489.9	4.4	4.3	2202.0	444.1	3.5	4.4	9
10	2216.9	756.8	1.2	5.0	2207.6	550.2	1.6	4.6	2204.6	491.8	4.3	4.4	2201.9	442.3	3.5	4.4	10
11	2216.6	749.8	1.2	5.0	2207.3	544.1	1.6	4.6	2204.5	489.9	4.3	4.4	2201.8	440.6	3.5	4.4	11
12	2216.3	742.7	1.2	5.0	2207.0	538.1	1.6	4.6	2204.5	489.9	4.1	4.4	2201.7	438.8	3.5	4.4	12
13	2216.0	735.6	1.2	5.0	2206.7	532.2	1.7	4.5	2204.4	488.0	3.8	4.4	2201.6	437.1	3.5	4.4	13
14	2215.7	728.6	1.2	5.0	2206.4	526.3	1.7	4.5	2204.3	486.1	3.6	4.4	2201.5	435.3	3.5	4.4	14
15	2215.4	721.6	1.2	5.0	2206.1	520.5	1.8	4.5	2204.2	484.3	3.6	4.4	2201.4	433.5	3.5	4.3	15
16	2215.1	714.5	1.5	5.0	2205.9	516.6	1.8	4.4	2204.1	482.4	3.6	4.4	2201.3	431.8	3.5	4.3	16
17	2214.8	707.6	1.5	5.0	2205.6	510.8	1.9	4.4	2204.0	480.5	3.6	4.4	2201.2	430.0	3.5	4.3	17
18	2214.5	700.7	1.5	5.0	2205.4	507.0	1.9	4.4	2204.0	480.5	3.5	4.4	2201.1	428.3	3.5	4.3	18
19	2214.2	693.8	1.5	5.0	2205.2	503.1	2.0	4.4	2203.9	478.7	3.5	4.4	2201.0	426.5	3.5	4.3	19
20	2213.9	686.9	1.5	5.0	2204.9	497.4	2.0	4.4	2203.8	476.8	3.5	4.4	2200.8	423.0	3.5	4.3	20
21	2213.6	680.1	1.6	5.0	2204.7	493.7	2.1	4.4	2203.7	475.0	3.5	4.4	2200.7	421.3	3.5	4.3	21
22	2213.3	673.2	1.6	5.0	2204.5	489.9	2.1	4.4	2203.6	473.1	3.5	4.4	2200.6	419.6	3.5	4.3	22
23	2213.0	666.4	1.6	5.0	2204.2	484.3	2.2	4.4	2203.5	471.3	3.5	4.4	2200.5	417.9	3.5	4.3	23
24	2212.7	659.7	1.6	5.0	2204.0	480.5	2.2	4.4	2203.4	469.5	3.5	4.4	2200.4	416.1	3.5	4.3	24
25	2212.4	652.9	1.6	5.0	2203.8	476.8	2.3	4.4	2203.3	467.6	3.5	4.4	2200.3	414.4	3.5	4.3	25
26	2212.1	646.2	1.6	5.0	2203.6	473.1	2.3	4.4	2203.2	465.8	3.5	4.4	2200.2	412.7	3.5	4.3	26
27	2211.8	639.5	1.6	5.0	2203.4	469.5	2.3	4.3	2203.1	463.9	3.5	4.4	2200.1	410.9	3.6	4.3	27
28	2211.5	632.9	1.6	5.0	2203.1	463.9	2.4	4.3	2203.0	462.1	3.5	4.4	2200.0	409.2	3.6	4.3	28
29	2211.2	626.2	1.6	5.0	2202.9	460.3	2.4	4.3	2202.9	460.3	3.5	4.4	2199.9	407.5	3.6	4.3	29
30	2210.9	619.6	1.6	5.0	2202.7	456.7	2.4	4.3	2202.8	458.5	3.5	4.4	2199.9	407.5	3.6	4.3	30
31	2210.6	613.1	1.7	4.9					2202.7	456.7	3.5	4.4	2199.8	405.8	3.6	4.3	31
TOTAL			41.2	155.6			56.7	135.6			135.5	135.5			109.0	134.7	
Inf. Ac. Ft.			81.7				112.5				268.8				216.2	267.2	
Outf. Ac. Ft.				308.6				269.0				268.8					
Maximum Mean Daily Inflow			1.7				2.4				16.3				3.6	16.3	
Minimum Mean Daily Inflow			0.8				1.6				2.8				3.5	0.8	
Storage Change		-226.9				-156.4				0				-50.9		-434.2	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

½ Year

Max. W. S. Elev.	2245.8	feet	on	5/11/48	Storage	1639.5	Acre Feet		
Min. W. S. Elev.	2145. ±	feet	on	9/22/48	Storage	0	Acre Feet		
Max. Peak Inf.	85.3	C.F.S. from	2:00 A.M.	on	4/29/48	to	4:00 A.M.	on	4/29/48
Max. Peak Outf.	53.6	C.F.S. from	8:42 A.M.	on	7/15/48	to	2:42 P.M.	on	7/15/48

REMARKS (INDICATES AVERAGE FOR PERIOD
NO ALLOWANCE MADE FOR EVAPORATION OR CANYON WALL LEAKAGE
OUTFLOW FROM STATION F 168-R

RECORDS COLLECTED BY		
D. J. ROBERTSON	Dam Tender	
L. J. TURNER	Hydrographer	
	Hydrographer	

COMPUTATIONS	ckd.	Date
Gage Hts. copied	APK DB	6/28/48
Storage applied	APK DB	"
Inf. & Outf. comp.	APK DB	7/1/48

F. C. Dist. Form 58B Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In Big Tujunga Canyon for the Year Ending September 30, 19 48

Continuous Water Stage Recorder Au

Drainage Area 82.3 Square Miles. Capacity of Reservoir 4,235.3 Ac. Ft. at Spillway Elev. 2290.0 Ft. as of June 19 44 Survey 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	2199.7	404.2	3.6	4.3	2216.6	749.8	5.5	0.6	2232.4	1180.2	6.9	0.6	2244.3	1582.0	10.4	2.8	1
2	2199.6	402.5	3.9	4.3	2217.0	759.2	5.4	0.6	2232.8	1192.5	6.9	0.7	2244.6	1593.3	8.0	2.8	2
3	2199.6	402.5	3.7	4.3	2217.4	768.8	5.3	0.6	2233.3	1208.1	8.5	0.7	2244.9	1604.7	6.6	2.8	3
4	2199.6	402.5	4.3	4.3	2217.8	778.4	5.1	0.6	2233.8	1223.8	8.6	0.7	2245.1	1612.4	6.0	2.8	4
5	2202.2	447.7	28.0	5.2	2218.1	785.6	5.0	0.6	2234.2	1236.5	7.1	0.7	2245.2	1616.2	5.6	2.8	5
6	2203.9	478.7	20.0	4.3	2218.5	795.4	4.8	0.6	2234.6	1249.2	7.1	0.7	2245.3	1620.1	5.4	2.8	6
7	2204.7	493.7	11.8	4.3	2218.8	802.7	4.7	0.6	2235.0	1261.9	6.9	0.7	2245.4	1624.0	5.3	2.8	7
8	2205.2	503.1	9.1	4.3	2219.1	810.1	4.6	0.6	2235.4	1274.8	6.7	0.8	2245.5	1627.9	5.2	2.8	8
9	2205.8	514.7	8.6	2.4	2219.5	820.0	4.4	0.6	2235.7	1284.5	6.5	0.8	2245.6	1631.7	5.1	2.8	9
10	2206.6	530.3	8.1	0.6	2219.8	827.4	4.3	0.6	2236.1	1297.5	7.4	0.8	2245.7	1635.6	5.0	2.8	10
11	2207.4	546.1	7.7	0.6	2220.1	834.9	4.2	0.6	2236.4	1307.3	7.0	0.8	2245.7	1635.6	4.8	5.5	11
12	2208.0	558.2	7.3	0.6	2220.4	842.5	4.2	0.6	2236.8	1320.4	6.1	0.8	2245.6	1631.7	4.8	6.8	12
13	2208.6	570.6	6.9	0.6	2221.0	857.7	8.3	0.6	2237.1	1330.2	5.7	0.8	2245.5	1627.9	4.7	7.2	13
14	2209.2	583.1	6.6	0.6	2221.8	878.3	11.0	0.6	2237.4	1340.1	5.5	0.8	2245.3	1620.1	4.7	7.2	14
15	2209.7	593.7	6.4	0.6	2222.5	896.7	9.8	0.6	2237.7	1350.1	5.4	0.8	2245.2	1616.2	4.7	7.6	15
16	2210.3	606.6	6.2	0.6	2223.1	912.5	8.6	0.6	2237.9	1356.7	5.3	0.8	2245.0	1608.5	4.7	7.6	16
17	2210.8	617.5	6.2	0.6	2223.9	933.8	11.3	0.6	2238.2	1366.7	5.2	0.9	2244.9	1604.7	4.7	7.6	17
18	2211.4	630.6	6.1	0.6	2224.5	950.2	8.9	0.6	2238.4	1373.4	5.0	0.9	2244.7	1597.1	4.7	7.6	18
19	2211.8	639.5	6.1	0.6	2225.0	963.8	7.5	0.6	2238.7	1383.5	5.0	0.9	2244.6	1593.3	4.7	7.6	19
20	2212.4	652.9	6.1	0.6	2225.6	980.4	8.9	0.6	2238.9	1390.2	5.0	0.9	2244.4	1585.8	4.7	7.6	20
21	2212.9	664.2	6.0	0.6	2226.0	991.5	6.3	0.6	2239.1	1397.0	5.0	1.0	2244.3	1582.0	4.7	7.6	21
22	2213.4	675.5	6.0	0.6	2226.4	1002.8	6.3	0.6	2239.3	1403.8	5.0	1.0	2244.1	1574.4	4.7	7.6	22
23	2213.8	684.6	6.0	0.6	2226.8	1014.1	6.2	0.6	2239.6	1414.1	4.9	1.0	2243.9	1566.9	4.7	7.6	23
24	2214.2	693.8	5.9	0.6	2227.8	1042.6	15.1	0.6	2239.9	1424.3	4.9	1.0	2243.7	1559.5	4.7	8.0	24
25	2214.7	705.3	5.9	0.6	2228.8	1071.8	15.2	0.6	2240.1	1431.2	4.9	1.0	2243.6	1555.8	4.7	8.0	25
26	2215.0	712.2	5.9	0.6	2229.4	1089.4	10.1	0.6	2240.3	1438.1	4.9	1.0	2243.4	1548.5	4.7	8.0	26
27	2215.4	721.6	5.8	0.6	2230.0	1107.2	9.0	0.6	2240.5	1445.1	4.9	0.8	2243.2	1541.1	4.7	8.0	27
28	2215.9	733.3	5.7	0.6	2230.5	1122.3	8.2	0.6	2241.0	1462.4	10.6	2.0	2243.0	1533.7	4.7	8.0	28
29	2216.3	742.7	5.7	0.6	2231.0	1137.3	8.1	0.6	2243.3	1544.8	44.5	2.9	2242.8	1526.5	4.7	8.0	29
30					2231.5	1152.6	8.4	0.6	2243.9	1566.9	13.9	2.8	2242.7	1522.9	4.6	8.0	30
31					2232.0	1167.8	8.2	0.6					2242.5	1515.7	4.6	8.0	31
TOTAL			219.6	49.7			232.9	18.6			231.3	30.1			161.3	187.1	
Inf. Ac. Ft.			435.6				462.0				458.8				319.9	355.5	
Outf. Ac. Ft.				98.6				36.9				59.7			371.1	167.9	
Maximum Mean Daily Inflow			28.0				15.2				44.5				10.4	44.5	
Minimum Mean Daily Inflow			3.6				4.2				4.9				4.6	0.8	
Storage Change		+336.9				+425.1				+399.1				-512		+675.7	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

⅝ Year

Max. W. S. Elev.	2245.8	feet	on	5/11/48	Storage	1639.5	Acre Feet		
Min. W. S. Elev.	2145. ±	feet	on	9/22/48	Storage	0	Acre Feet		
Max. Peak Inf.	85.3	C.F.S. from	2:00 A.M.	on	4/29/48	to	4:00 A.M.	on	4/29/48
Max. Peak Outf.	53.6	C.F.S. from	8:42 A.M.	on	7/15/48	to	2:42 P.M.	on	7/15/48

REMARKS (INDICATES AVERAGE FOR PERIOD OR PRORATED DAILY AMOUNTS
NO ALLOWANCE MADE FOR EVAPORATION OR CANYON WALL LEAKAGE
OUTFLOW FROM STATION F168-R

RECORDS COLLECTED BY		
D. J. ROBERTSON	Dam Tender	
L. J. TURNER	Hydrographer	
	Hydrographer	

COMPUTATIONS	ckd.	Date
Gage Hts. copied	RCL	8/24/48
Storage applied	RCL	"
Inf. & Outf. comp. DB	RCL	9/10/48

BIG TUJUNGA (cont'd)

F. C. Dist. Form 680 Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In Big Tujunga Canyon for the Year Ending September 30, 1948

Continuous Water Stage Recorder Au

Drainage Area 82.3 Square Miles. Capacity of Reservoir 4235.3 Ac. Ft. at Spillway Elev. 2290.0 Ft. as of June 1944 Survey 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	2242.4	1512.1	6.2	8.0	2234.1	1233.3	1.5	7.2	2202.2	508.2	0.7	12.4	2158.3	23.6	0.7	0.9	1
2	2242.2	1504.9	4.8	8.4	2233.7	1220.7	1.5	7.2	2200.8	485.4	0.7	12.2	2158.3	23.2	0.7	0.9	2
3	2242.1	1501.3	6.0	8.4	2233.3	1208.1	1.5	7.2	2199.3	462.9	0.7	12.0	2158.3	22.8	0.7	0.9	3
4	2241.9	1494.2	5.0	8.0	2233.0	1198.7	1.5	7.2	2197.9	440.9	0.7	11.8	2158.3	22.2	0.7	1.0	4
5	2241.7	1487.1	3.9	8.0	2232.6	1186.3	1.5	7.2	2196.4	419.3	0.7	11.6	2158.3	21.4	0.7	1.1	5
6	2241.5	1480.1	3.9	8.0	2232.2	1174.0	1.1	7.2	2195.0	398.1	0.7	11.4	2158.3	21.2	0.7	0.8	6
7	2241.3	1473.0	3.9	7.6	2231.8	1161.7	1.1	7.2	2193.6	377.3	0.7	11.2	2158.4	21.4	0.7	0.6	7
8	2241.1	1465.9	3.9	7.6	2231.4	1149.5	1.1	7.2	2192.2	356.8	0.7	11.0	2158.5	21.2	0.7	0.8	8
9	2240.9	1458.9	3.9	7.6	2231.0	1137.3	1.0	7.2	2190.8	336.6	0.7	10.9	2158.6	20.8	0.7	0.9	9
10	2240.6	1448.5	3.8	7.6	2230.6	1125.3	1.0	7.2	2188.9	311.4	0.7	13.4	2158.6	20.4	0.7	0.9	10
11	2240.4	1441.6	2.8	7.6	2230.2	1113.2	0.9	7.2	2186.8	283.0	0.7	15.0	2158.5	19.8	0.7	1.0	11
12	2240.1	1431.2	2.8	7.6	2229.9	1104.2	0.9	7.2	2184.6	255.7	0.7	14.5	2158.4	19.6	0.7	0.8	12
13	2239.8	1420.9	2.8	7.6	2229.5	1092.4	0.9	7.2	2182.6	231.3	0.7	13.0	2158.4	20.0	0.7	0.5	13
14	2239.5	1410.7	2.7	7.6	2229.1	1080.6	0.9	6.8	2180.9	209.9	0.7	11.5	2158.5	20.6	0.7	0.4	14
15	2239.2	1400.4	2.7	7.6	2227.5	1034.2	0.9	28.0	2179.2	192.2	0.7	9.6	2158.5	21.0	0.7	0.5	15
16	2238.9	1390.2	2.6	7.6	2225.8	986.0	0.9	26.0	2177.8	180.1	0.7	6.8	2158.5	21.2	0.7	0.6	16
17	2238.6	1380.2	2.5	7.6	2224.0	936.5	0.9	26.0	2176.5	170.6	0.7	5.5	2158.5	21.4	0.7	0.6	17
18	2238.3	1370.1	2.5	7.6	2222.2	888.8	0.9	25.0	2174.6	151.9	0.7	10.1	2158.6	21.4	0.7	0.7	18
19	2238.0	1360.0	2.5	7.6	2220.4	842.5	0.9	24.0	2171.4	120.4	0.7	16.6	2158.6	21.2	0.7	0.8	19
20	2237.7	1350.1	2.5	7.6	2218.5	795.4	0.9	24.0	2168.9	98.0	0.7	12.0	2155.7	9.9	0.7	6.4	20
21	2237.4	1340.1	2.2	7.6	2216.5	747.4	0.7	24.0	2166.8	80.3	0.7	9.6	2145	1.4	0.7	5.0	21
22	2237.1	1330.2	2.2	7.6	2214.9	709.9	0.7	19.8	2164.7	64.3	0.7	8.8			0.7	1.4	22
23	2236.8	1320.4	2.1	7.6	2213.7	682.4	0.7	14.3	2162.7	50.6	0.7	7.6			0.7	0.7	23
24	2236.5	1310.6	2.1	7.2	2212.6	657.4	0.7	14.1	2161.1	40.5	0.7	5.8			0.7	0.7	24
25	2236.1	1297.5	2.1	7.2	2211.4	630.6	0.7	13.9	2160.0	33.9	0.7	4.0			0.7	0.7	25
26	2235.8	1287.7	1.7	7.2	2210.2	604.4	0.7	13.7	2159.4	30.1	0.7	2.6			0.7	0.7	26
27	2235.5	1278.1	1.6	7.2	2209.0	578.8	0.7	13.5	2159.0	27.8	0.7	1.9			0.7	0.7	27
28	2235.1	1265.1	1.6	7.2	2207.7	552.2	0.7	13.3	2158.8	26.4	0.7	1.4			0.7	0.7	28
29	2234.8	1255.5	1.6	7.2	2206.3	524.4	0.7	13.1	2158.0	24.2	0.7	1.8			0.7	0.7	29
30	2234.4	1242.8	1.6	7.2	2204.9	497.4	0.7	12.8	2158.2	24.2	0.7	0.7			0.7	0.7	30
31					2203.5	471.3	0.7	12.6	2158.3	24.0	0.7	0.8					31
TOTAL			90.8	228.4			29.5	418.5			21.7	277.5			2.1.0	33.1	
Inf. Ac. Ft.			180.1				58.5				43.0				41.7	267.8	
Outf. Ac. Ft.				453.0				830.0				550.4			65.7	359.0	
Maximum Mean Daily Inflow			6.2				1.5				0.7				0.7	44.5	
Minimum Mean Daily Inflow			1.7				0.7				0.7				0.7	0.7	
Storage Change			-272.9				-771.5				-507.4 * (60.1)				-24.0	+840.0 (60.1)	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — Yearly Totals

Max. W. S. Elev.	2245.8	feet on	5/11/48	Storage	1639.5	Acre Feet				
Min. W. S. Elev.	2145. +	feet on	9/30/48	Storage	0	Acre Feet				
Max. Peak Inf.	85.3	C. F. S. from	2:00 A.M.	on	4/29/48	to	4:00 A.M.	on	4/29/48	
Max. Peak Outf.	53.6	C. F. S. from	8:42 A.M.	on	7/15/48	to	2:42 P.M.	on	7/15/48	

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
D. J. ROBERTSON	Dam Tender	Gage Hts. copied	DE JHL	10/22/48
L. J. TURNER	Hydrographer	Storage applied	DE JHL	3/9/49
	Hydrographer	Inf. & Outf. comp.	LJT JHL	"

REMARKS
INDICATES AVERAGE FOR PERIOD
* STORAGE COMPUTED FROM INFLOW AND OUTFLOW FROM DATE RESERVOIR EMPTIED, 9/22/48; ENDING 60.1 A.F. BANK STORAGE.
OUTFLOW FROM STATION F 168-R. NO ALLOWANCE MADE FOR EVAPORATION OR CANYON WALL LEAKAGE.

F. C. Dist. Form 680A Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In Big Tujunga Canyon for the Year Ending September 30, 1949

Continuous Water Stage Recorder Au

Drainage Area 82.3 Square Miles. Capacity of Reservoir 4235.3 Ac. Ft. at Spillway Elev. 2290.0 Ft. as of June 1944 Survey 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	2145		0.6	0.6	2145		0.8	0.8	2160.8	25.7	0.8	0	2184.5	192.8	3.0	0.2	1
2			0.6	0.6			0.8	0.8	2161.5	28.2	1.3	0	2185.1	199.4	3.0	0.2	2
3			0.5	0.5			0.8	0.8	2162.3	31.1	1.5	0.1	2185.5	204.0	2.9	0.2	3
4			0.5	0.5			0.8	0.8	2163.2	34.5	1.9	0.2	2186.0	209.7	2.9	0.2	4
5			0.5	0.5			0.8	0.8	2164.0	37.6	1.8	0.2	2186.4	214.4	2.9	0.2	5
6			0.4	0.4			0.8	0.8	2164.7	40.5	1.6	0.2	2186.8	219.1	2.6	0.2	6
7			0.4	0.4			0.8	0.8	2165.3	43.1	1.6	0.2	2187.2	223.9	2.6	0.2	7
8			0.4	0.4	2145	0	0.8	0.8	2165.8	45.3	1.6	0.2	2187.6	228.8	2.7	0.2	8
9			0.5	0.5		0.6	* 0.7	0.4	2166.5	48.6	1.6	0.2	2188.1	235.0	3.3	0.2	9
10			0.5	0.5		1.8	0.6	0	2167.1	51.5	1.6	0.2	2188.6	241.2	3.3	0.2	10
11			0.5	0.5	2150.8	3.0	0.6	0	2167.7	54.6	1.7	0.2	2189.1	247.5	3.4	0.2	11
12			0.6	0.6	2151.6	4.0	0.5	0	2168.3	57.8	1.7	0.2	2189.7	255.2	3.9	0.2	12
13			0.6	0.6	2152.2	4.8	0.4	0	2168.8	60.5	1.7	0.2	2190.2	261.7	3.9	0.2	13
14		No Storage	0.6	0.6	2152.8	5.7	0.5	0	2169.3	63.4	1.7	0.2	2190.8	269.7	3.8	0.2	14
15			0.7	0.7	2153.4	6.8	0.5	0	2169.9	66.9	2.0	0.2	2191.3	276.4	3.8	0.2	15
16			0.7	0.7	2153.9	7.6	0.4	0	2170.6	71.3	2.4	0.2	2191.8	283.2	3.5	0.2	16
17			0.7	0.7	2154.4	8.6	0.5	0	2173.0	87.4	8.3	0.2	2192.2	288.7	3.4	0.2	17
18			0.7	0.7	2154.9	9.6	0.5	0	2174.2	96.3	4.7	0.2	2192.7	295.7	3.4	0.2	18
19			0.7	0.7	2155.4	10.7	0.6	0	2174.9	101.7	3.3	0.2	2193.4	305.7	5.2	0.2	19
20			0.7	0.7	2155.9	11.8	0.6	0	2175.6	107.3	2.6	0.2	2195.4	335.3	15.2	0.2	20
21			0.7	0.7	2156.4	13.0	0.6	0	2176.1	111.3	2.3	0.2	2196.8	356.9	11.1	0.2	21
22			0.7	0.7	2156.9	14.2	0.6	0	2176.8	117.2	3.1	0.2	2197.9	374.4	9.0	0.2	22
23			0.7	0.7	2157.3	15.2	0.5	0	2177.4	122.4	2.8	0.2	2199.0	392.4	9.4	0.3	23
24			0.8	0.8	2157.7	16.3	0.5	0	2178.0	127.7	2.9	0.2	2199.9	407.5	7.9	0.3	24
25			0.8	0.8	2158.1	17.4	0.6	0	2178.5	132.2	2.5	0.2	2200.4	416.1	4.6	0.3	25
26			0.8	0.8	2158.5	18.6	0.6	0	2179.1	137.6	2.9	0.2	2201.0	426.5	5.5	0.3	26
27			0.8	0.8	2158.9	19.7	0.6	0	2180.8	153.9	8.4	0.2	2201.6	437.1	5.7	0.3	27
28			0.8	0.8	2159.4	21.2	0.7	0	2181.9	165.0	5.8	0.2	2201.9	442.3	4.7	2.2	28
29			0.6	0.8	2159.9	22.8	0.7	0	2182.7	173.3	4.4	0.2	2202.0	444.1	4.7	3.1	29
30			0.8	0.8	2160.3	24.1	* 0.8	0	2183.4	180.7	4.0	0.2	2202.2	447.7	4.7	3.1	30
31			0.8	0.8					2184.0	187.2	3.4	0.2	2202.4	451.3	4.6	3.1	31
TOTAL			19.9	19.9			19.0	6.8			87.9	5.7			150.6	17.4	
Inf. Ac. Ft.			39.5				37.7				174.3				298.7	550.2	
Outf. Ac. Ft.				39.5				135				11.3			34.5	98.8	
Maximum Mean Daily Inflow			0.8				0.8				8.4				15.2	15.2	
Minimum Mean Daily Inflow			0.4				0.4				0.8				2.6	0.4	
Storage Change		0				+24.1				+163.1				+264.1		+451.3	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — ½ Year

Max. W. S. Elev.	2235.9	feet on	5/23/49	Storage	1291.0	Acre Feet				
Min. W. S. Elev.	2145.+	feet IN ~~on~~	OCTOBER	Storage	0	Acre Feet				
Max. Peak Inf.	18.2	C. F. S. from	0000	on	3/11/49	to	0600	on	3/11/49	
Max. Peak Outf.	4.5	C. F. S. from	0800	on	8/30/49	to	2400	on	9/2/49	

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
D. J. ROBERTSON	Dam Tender	Gage Hts. copied	JHL EAD	3/25/49
L. J. TURNER	Hydrographer	Storage applied	JHL EAD	3/25/49
	Hydrographer	Inf. & Outf. comp.	JHL EAD	3/25/49

REMARKS
INDICATES AVERAGE FOR PERIOD.
* INDICATES DECREASE IN INFLOW DUE TO BANK STORAGE.
NO ALLOWANCE MADE FOR PERCOLATION OR EVAPORATION. OUTFLOWS FROM STATION F 168-R.

BIG TUJUNGA (cont'd)

F. C. Dist. Form 86B Revised 8/46 11/44

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

In ~~Co.~~ Big Tujunga Canyon for the Year Ending September 30, 19 49

Drainage Area 82.3 Square Miles. Capacity of Reservoir 4235.3 Ac. Ft. at Spillway Elev. 2290.0 Ft. as of June, 19 44 Survey

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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	2202.5	4531	40	31	2211.5	6329	91	35	2228.1	10514	6.4	0.2	2235.1	12651	3.0	2.6	1
2	2202.6	4549	40	31	2212.0	6439	90	35	2228.5	10631	6.4	0.2	2235.1	12651	3.0	2.6	2
3	2202.8	4585	49	31	2212.5	6552	93	36	2229.0	10776	6.4	0.2	2235.2	12684	2.9	2.6	3
4	2202.9	4603	40	31	2213.3	6732	12.7	3.6	2229.4	10894	6.4	0.2	2235.2	12684	2.9	2.6	4
5	2203.1	4639	5.0	3.2	2214.3	6961	15.2	3.6	2229.8	11013	6.4	0.2	2235.2	12684	2.9	2.6	5
6	2203.2	4658	4.2	3.2	2215.0	7122	11.7	3.6	2230.1	11102	5.4	0.2	2235.2	12684	2.6	2.6	6
7	2203.5	4713	5.9	3.2	2215.6	7262	10.7	3.7	2230.5	11223	5.4	0.2	2235.2	12684	2.6	2.6	7
8	2203.8	4768	6.0	3.2	2216.1	7380	9.7	3.7	2230.8	11313	5.4	0.2	2235.2	12684	2.6	2.6	8
9	2204.0	4805	4.8	3.2	2216.5	7474	8.4	3.7	2231.1	11404	5.3	0.2	2235.2	12684	2.6	2.6	9
10	2204.1	4824	4.4	3.2	2217.0	7592	9.7	3.7	2231.5	11526	5.3	0.2	2235.2	12684	2.6	2.6	10
11	2204.5	4899	7.0	3.2	2218.0	7832	15.6	3.7	2231.8	11617	4.6	0.2	2235.2	12684	2.6	2.6	11
12	2205.0	4993	7.9	3.2	2218.7	8003	12.4	3.7	2232.1	11709	4.6	0.2	2235.2	12684	2.6	2.6	12
13	2205.4	5070	7.2	3.3	2219.4	8175	12.3	3.7	2232.4	11802	4.6	0.2	2235.2	12684	3.0	3.0	13
14	2205.6	5108	5.4	3.3	2220.0	8324	11.2	3.7	2232.6	11863	4.6	0.6	2235.2	12684	3.3	3.3	14
15	2205.8	5147	5.4	3.3	2220.5	8451	10.1	3.7	2232.8	11925	4.6	1.1	2235.3	12716	3.8	3.3	15
16	2206.1	5205	5.5	3.3	2221.0	8577	10.0	3.7	2233.0	11987	4.5	1.1	2235.3	12716	3.8	3.3	16
17	2206.3	5244	5.5	3.3	2221.4	8680	8.9	3.7	2233.2	12050	4.5	1.1	2235.3	12716	3.9	3.3	17
18	2206.5	5283	5.5	3.3	2221.8	8783	8.9	3.7	2233.5	12144	4.5	1.1	2235.5	12781	6.6	3.3	18
19	2206.7	5322	5.8	3.3	2222.3	8914	10.3	3.7	2233.7	12207	4.5	1.1	2235.7	12845	6.5	3.3	19
20	2207.0	5381	5.9	3.4	2222.8	9045	10.3	3.7	2233.9	12270	4.5	1.1	2235.8	12877	4.9	3.3	20
21	2207.3	5441	5.9	3.4	2223.1	9125	8.1	3.7	2234.1	12333	3.5	1.1	2235.9	12910	3.3	3.3	21
22	2207.5	5482	5.9	3.4	2223.5	9232	8.0	3.7	2234.2	12365	3.5	1.1	2235.9	12910	3.3	3.3	22
23	2207.8	5542	6.4	3.4	2223.8	9312	8.0	3.5	2234.3	12396	3.4	1.1	2235.9	12910	3.3	3.3	23
24	2208.2	5623	7.5	3.4	2224.2	9420	8.0	1.8	2234.5	12460	3.4	1.1	2235.8	12877	3.3	3.3	24
25	2208.8	5747	9.6	3.4	2224.6	9583	8.0	0.2	2234.6	12492	3.4	1.1	2235.8	12877	3.3	3.3	25
26	2209.6	5916	12.0	3.5	2225.3	9721	7.1	0.2	2234.7	12524	3.4	1.1	2235.7	12845	2.3	3.3	26
27	2210.4	6088	12.2	3.5	2225.7	9832	7.1	0.2	2234.9	12587	3.4	1.1	2235.7	12845	2.2	3.3	27
28	2211.0	6218	10.1	3.5	2226.2	9972	7.1	0.2	2235.0	12619	3.4	2.1	2235.6	12813	2.2	3.3	28
29					2226.7	10113	7.0	0.2	2235.0	12619	3.4	2.6	2235.5	12781	2.2	3.3	29
30					2227.2	10255	7.0	0.2	2235.1	12651	3.4	2.6	2235.5	12781	2.2	3.3	30
31					2227.7	10399	7.0	0.2					2235.4	12748	2.2	3.3	31
TOTAL			1779	920			2981	873			1385	250			985	936	
Inf. Ac. Ft.			3529				5913				2747				1954	1864.5	
Outf. Ac. Ft.				1825				1732				496			1857	6098	
Maximum Mean Daily Inflow			133				15.8				6.4				6.6	15.8	
Minimum Mean Daily Inflow			4.0				7.0				3.4				2.2	0.4	
Storage Change		+1705				+4181				+2252				+97		+12748	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	2235.9	feet	on	5/23/49	Storage	1291.0	Acre Feet				
Min. W. S. Elev.	2145.±	feet	IN ~~on~~	OCTOBER	Storage	0	Acre Feet				
Max. Peak Inf.	18.2	C.F.S. from	0000	on	3/11/49	to	0600	on	3/11/49		
Max. Peak Outf.	4.5	C.F.S. from	0800	on	8/30/49	to	2400	on	9/2/49		

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
D. J. ROBERTSON	Dam Tender	Gage Hts. copied	JHL CJR	10/11/49
L. J. TURNER	Hydrographer	Storage applied	JHL CJR	10/11/49
	Hydrographer	Inf. & Outf. comp.	JHL CJR	10/11/49

REMARKS (INDICATES AVERAGE FOR PERIOD.
NO ALLOWANCE MADE FOR PERCOLATION OR EVAPORATION.
OUTFLOWS FROM STATION F 168-R.

F. C. Dist. Form 86C Revised 8/46 11/44

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

In ~~Co.~~ Big Tujunga Canyon for the Year Ending September 30, 19 49

Drainage Area 82.3 Square Miles. Capacity of Reservoir 4235.3 Ac. Ft. at Spillway Elev. 2290.0 Ft. as of June, 19 44 Survey

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

Gage Heights Read daily

Day	JUNE Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JULY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	2235.4	12748	2.0	3.3	2230.7	11283	0.7	4.1	2223.5	9232	0.6	4.0	2215.2	7169	0.3	4.5	1
2	2235.3	12716	2.0	3.3	2230.5	11223	0.7	4.1	2223.3	9178	0.6	4.0	2214.8	7076	0.3	4.5	2
3	2235.2	12684	2.0	3.3	2230.3	11162	0.7	4.1	2223.0	9098	0.6	4.0	2214.5	7007	0.3	4.4	3
4	2235.1	12651	2.0	3.3	2230.1	11102	0.7	4.1	2222.8	9045	0.6	4.0	2214.1	6915	0.3	4.4	4
5	2235.0	12619	2.0	3.3	2229.8	11013	0.7	4.1	2222.5	8967	0.6	4.0	2213.7	6824	0.3	4.4	5
6	2234.9	12587	1.6	3.3	2229.6	10954	0.7	4.1	2222.3	8914	0.6	4.0	2213.3	6732	0.2	4.4	6
7	2234.8	12555	1.5	3.3	2229.4	10894	0.7	4.1	2222.0	8835	0.6	4.0	2213.0	6664	0.2	4.4	7
8	2234.7	12524	1.5	3.3	2229.2	10835	0.7	4.1	2221.8	8783	0.6	4.0	2212.6	6574	0.2	4.3	8
9	2234.6	12492	1.5	3.3	2228.9	10747	0.7	4.1	2221.5	8706	0.6	4.0	2212.3	6507	0.2	4.3	9
10	2234.4	12428	1.5	3.9	2228.7	10689	0.7	4.0	2221.3	8654	0.6	4.0	2211.9	6417	0.2	4.3	10
11	2234.2	12365	1.5	4.4	2228.5	10631	0.7	4.0	2221.0	8577	0.5	4.0	2211.5	6329	0.2	4.3	11
12	2234.1	12333	1.5	4.4	2228.3	10572	0.7	4.0	2220.7	8501	0.5	3.9	2211.2	6262	0.2	4.2	12
13	2233.9	12270	1.5	4.4	2228.0	10485	0.7	4.0	2220.5	8451	0.5	3.9	2210.9	6196	0.2	4.2	13
14	2233.7	12207	1.5	4.4	2227.8	10428	0.7	4.0	2220.2	8375	0.5	3.9	2210.5	6110	0.2	4.2	14
15	2233.5	12144	1.5	4.4	2227.5	10342	0.7	4.0	2220.0	8324	0.5	3.9	2210.1	6023	0.2	4.2	15
16	2233.3	12081	1.3	4.4	2227.3	10284	0.7	4.0	2219.7	8250	0.5	3.8	2209.7	5937	0.2	4.2	16
17	2233.1	12018	1.3	4.4	2227.1	10227	0.7	4.0	2219.4	8175	0.5	3.8	2209.4	5873	0.1	4.2	17
18	2232.9	11956	1.3	4.4	2226.9	10170	0.7	4.0	2219.1	8101	0.5	3.8	2209.0	5788	0.1	4.1	18
19	2232.7	11894	1.3	4.4	2226.6	10085	0.7	4.0	2218.9	8052	0.5	3.7	2208.6	5706	0.1	4.1	19
20	2232.5	11833	1.2	4.4	2226.4	10028	0.7	4.0	2218.6	7978	0.5	3.7	2208.2	5623	0.1	4.1	20
21	2232.3	11771	1.0	4.4	2226.2	9972	0.7	4.0	2218.4	7930	0.5	3.7	2207.8	5542	0.1	4.1	21
22	2232.2	11740	1.0	1.7	2225.9	9887	0.7	4.0	2218.1	7856	0.5	3.7	2207.4	5461	0.1	4.1	22
23	2232.2	11740	1.0	0.2	2225.7	9832	0.7	4.0	2217.8	7784	0.5	3.6	2207.0	5381	0.1	4.1	23
24	2232.2	11740	0.9	2.2	2225.4	9749	0.7	4.0	2217.6	7736	0.5	3.6	2206.6	5303	0.1	4.1	24
25	2232.0	11678	0.9	4.1	2225.2	9693	0.7	4.0	2217.3	7664	0.5	3.6	2206.2	5224	0.1	4.1	25
26	2231.8	11617	0.8	4.1	2225.0	9638	0.6	4.0	2217.0	7592	0.5	3.6	2205.8	5147	0.1	4.0	26
27	2231.6	11556	0.7	4.1	2224.7	9556	0.6	4.0	2216.8	7545	0.5	3.6	2205.4	5070	0.1	4.0	27
28	2231.4	11495	0.7	4.1	2224.5	9502	0.6	4.0	2216.5	7474	0.5	3.6	2205.0	4993	0.2	4.0	28
29	2231.1	11404	0.7	4.1	2224.3	9447	0.6	4.0	2216.2	7403	0.5	3.6	2204.6	4918	0.2	4.0	29
30	2230.9	11343	0.7	4.1	2224.0	9365	0.6	4.0	2215.9	7333	0.5	4.2	2204.2	4843	0.2	4.0	30
31					2223.7	9285	0.6	4.0	2215.5	7239	0.5	4.5					31
TOTAL			399	1107			211	1249			165	1197			54	1262	
Inf. Ac. Ft.			791				419				327				107	21289	
Outf. Ac. Ft.				2196				2477				2374			2503	16448	
Maximum Mean Daily Inflow			2.0				0.7				0.6				0.3	15.8	
Minimum Mean Daily Inflow			0.7				0.6				0.5				0.1	0.1	
Storage Change		-1405				-2058				-2046				-2396		+4843	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — Yearly Totals

Max. W. S. Elev.	2235.9	feet	on	5/23/49	Storage	1291.0	Acre Feet				
Min. W. S. Elev.	2145.±	feet	IN ~~on~~	OCTOBER	Storage	0	Acre Feet				
Max. Peak Inf.	18.2	C.F.S. from	0000	on	3/11/49	to	0600	on	3/11/49		
Max. Peak Outf.	4.5	C.F.S. from	0800	on	8/30/49	to	2400	on	9/2/49		

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
D. J. ROBERTSON	Dam Tender	Gage Hts. copied	JHL CJR	10/18/49
L. J. TURNER	Hydrographer	Storage applied	JHL CJR	10/18/49
	Hydrographer	Inf. & Outf. comp.	JHL CJR	10/18/49

REMARKS (INDICATES AVERAGE FOR PERIOD.
NO ALLOWANCE MADE FOR PERCOLATION OR EVAPORATION.
OUTFLOWS FROM STATION F168-R.

DEVIL'S GATE

F. C. Dist. Form 68A Revised 500 11/44

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

In Arroyo Seco for the Year Ending September 30, 1948

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

Drainage Area 31.9 Square Miles. Capacity of Reservoir 2504.1 Ac. Ft. at Spillway Elev. 1054.0 Ft. as of December 1943 Survey 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	1008		0	0	1008		0	0	1008		0	0	1008		0	0	1
2			0	0			0	0			0	0			0	0	2
3			0	0			0	0			0	0			0	0	3
4			0	0			0	0		e 40	e 20	0			0	0	4
5			0	0			0	0		e 50	e 10	e 05			0	0	5
6			0	0			0	0			0	0			0	0	6
7			0	0			0	0			0	0			0	0	7
8			0	0			0	0			0	0			0	0	8
9			0	0			0	0			0	0			0	0	9
10			0	0			0	0			0	0			0	0	10
11			0	0			0	0			0	0			0	0	11
12			0	0			0	0			0	0			0	0	12
13			0	0			0	0			0	0			0	0	13
14			0	0			0	0			0	0			0	0	14
15	Small pool		0	0			0	0			0	0			0	0	15
16		Storage Negligible	0	0	Reservoir Dry		0	0	Large pool (after 2/5)		0	0	Small pool	Storage Negligible	0	0	16
17			0	0		No Storage	0	0			0	0			0	0	17
18			0	0			0	0			0	0			0	0	18
19			0	0			0	0			0	0			0	0	19
20			0	0			0	0			0	0			0	0	20
21			0	0			0	0			0	0			0	0	21
22			0	0			0	0			0	0			0	0	22
23			0	0			0	0		Storage only in sluiced sump (after 12/5)	0	0			0	0	23
24			0	0			0	0			0	0			0	0	24
25			0	0			0	0			0	0			0	0	25
26			0	0			0	0			0	0			0	0	26
27			0	0			0	0			0	0			0	0	27
28			0	0			0	0			0	0			0	0	28
29			0	0			0	0			0	0			0	0	29
30			0	0			0	0			0	0			0	0	30
31			0	0							0	0			0	0	31
TOTAL			0	0			0	0			30	05			0	0	
Inf. Ac. Ft.			0				0				60				0		60
Outf. Ac. Ft.				0				0			10 + (50)				0	10 + (50)	
Maximum Mean Daily Inflow			0				0				20				0	20	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		0				0				0				0			0

NOTE: Gage Heights and Storages as of Midnight on Day Shown ½ Year

Max. W. S. Elev.	1019.5	feet on	3/25/48	Storage	101.4	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1008.+	feet on	PART OF YEAR	Storage	0	Acre Feet	K. M. YORK	Dam Tender	Gage Hts. copied JHL		
Max. Peak Inf.	444.1	C. F. S. from	2:00 P.M. on	3/24/48	to	3:00 P.M. on	3/24/48	T. E. MOON	Hydrographer	Storage applied JHL	
Max. Peak Outf.	1.9	C. F. S. from	6:00 P.M. on	4/5/48	to	6:30 P.M. on	4/5/48		Hydrographer	Inf. & Outf. comp. JHL	

REMARKS e ESTIMATED

( ) INDICATES TOTAL MONTHLY EVAPORATION AND PERCOLATION LOSSES.

F. C. Dist. Form 68B Revised 500 11/44

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

In Arroyo Seco for the Year Ending September 30, 1948

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

Drainage Area 31.9 Square Miles. Capacity of Reservoir 2504.1 Ac. Ft. at Spillway Elev. 1054.0 Ft. as of December 1943 Survey 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	1008		0	0	1012.4	3.7	0	0	1018.8	82.1	1.4	0	1019.2	92.8	0	0	1
2	1008		0	0	1012.3	3.4	0	0	1018.7	79.6	0.2	0.1	1019.1	89.9	0	0	2
3	1008		0	0	1012.2	3.2	0	0	1018.7	79.6	1.6	0.2	1019.0	87.0	0	0	3
4	1008		0	0	1012.1	2.9	0	0	1018.5	74.7	0	0.2	1018.9	84.5	0	0	4
5	1012.5	43.9	2.8	0	1012.0	2.7	0	0	1018.4	72.2	0	0.7	1018.8	82.1	0	0	5
6	1014.5	136	6.1	0	1012.0	2.7	0	0	1018.1	64.9	0	1.9	1018.7	79.6	0	0	6
7	1014.2	113	0	0	1011.9	2.5	0	0	1017.8	58.5	0	1.9	1018.6	77.2	0	0	7
8	1014.0	9.8	0	0	1011.8	2.4	0	0	1017.5	52.7	0	1.9	1018.6	77.2	0	0	8
9	1013.9	9.3	0	0	1011.7	2.3	0	0	1017.1	44.9	0	1.9	1018.5	74.7	0	0	9
10	1013.8	8.9	0	0	1011.6	2.1	0	0	1017.1	44.9	0.3	1.8	1018.4	72.2	0	0	10
11	1013.7	8.4	0	0	1011.6	2.1	0	0	1016.7	38.5	0	1.8	1018.3	69.8	0	0	11
12	1013.6	7.9	0	0	1011.5	2.0	0	0	1016.4	34.1	0	1.8	1018.2	67.3	0	0	12
13	1013.5	7.5	0	0	1015.2	19.6	9.6	0	1016.0	28.2	0	1.8	1018.1	64.9	0	0	13
14	1013.4	7.0	0	0	1016.6	37.0	9.8	0	1015.6	23.9	0	1.7	1018.1	64.9	0	0	14
15	1013.3	6.6	0	0	1016.7	38.5	1.7	0	1015.2	19.6	0	1.7	1018.0	62.4	0	0	15
16	1013.3	6.6	0	0	1016.7	38.5	1.0	0	1014.8	15.9	0	1.7	1017.9	60.5	0	0	16
17	1013.2	6.1	0	0	1017.2	46.8	5.2	0	1014.3	12.1	0	1.7	1017.8	58.5	0	0	17
18	1013.1	5.6	0	0	1017.1	44.9	0.2	0	1013.8	8.9	0	1.7	1017.7	56.6	0	0	18
19	1013.0	5.2	0	0	1017.0	42.9	0.4	0	1013.3	6.6	0	1.7	1017.6	54.6	0	0	19
20	1012.9	4.9	0	0	1016.9	41.4	0	0	1013.0	5.2	0	0.5	1017.6	54.6	0	0	20
21	1012.8	4.7	0	0	1016.9	41.4	0	0	1013.0	5.2	0	0	1017.5	52.7	0	0	21
22	1012.8	4.7	0	0	1016.8	40.0	0	0	1013.0	5.2	0.5	0	1017.4	50.7	0	0	22
23	1012.7	4.4	0	0	1016.7	38.5	0	0	1012.9	4.9	0.3	0	1017.4	50.7	0	0	23
24	1012.6	4.2	0	0	1019.0	87.0	26.0	0	1012.9	4.9	0.1	0	1017.3	48.8	0	0	24
25	1012.4	3.7	0	0	1019.5	101.4	9.3	0	1012.8	4.7	0	0	1017.2	46.8	0	0	25
26	1012.4	3.7	0	0	1019.3	95.6	0	0	1012.8	4.7	0	0	1017.2	46.8	0	0	26
27	1012.3	3.4	0	0	1019.2	92.8	0	0	1012.7	4.4	0	0	1017.1	44.9	0	0	27
28	1012.5	3.9	0.4	0	1019.1	89.9	0	0	1014.8	15.9	6.2	0	1017.0	42.9	0	0	28
29	1012.5	3.9	0.1	0	1019.0	87.0	0	0	1018.6	77.2	32.2	0	1017.0	42.9	0	0	29
30					1018.9	84.5	0	0	1019.3	95.6	11.0	0	1016.9	41.4	0	0	30
31					1018.8	82.1	0	0					1016.8	40.0	0	0	31
TOTAL			9.4	0			63.2	0			53.8	26.7			0	0	
Inf. Ac. Ft.			18.6				125.4				106.7				0	256.7	
Outf. Ac. Ft.			0 + (14.7)				0 + (47.2)				52.9 + (40.3)			0 + (55.6)		53.9 + (162.8)	
Maximum Mean Daily Inflow			6.1				26.0				32.2				0	32.2	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		+ 3.9				+ 78.2				+ 13.5				- 55.6		+ 40.0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown ¾ Year

Max. W. S. Elev.	1019.5	feet on	3/25/48	Storage	101.4	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1008.+	feet FOR SEVERAL MONTHS		Storage	0	Acre Feet	K. M. YORK	Dam Tender	Gage Hts. copied APK RCL		4/28-5/31
Max. Peak Inf.	444.1	C. F. S. from	2:00 P.M. on	3/24/48	to	3:00 P.M. on	3/24/48	T. E. MOON	Hydrographer	Storage applied APK RCL	"
Max. Peak Outf.	1.9	C. F. S. from	6:00 P.M. on	4/5/48	to	6:30 P.M. on	4/5/48		Hydrographer	Inf. & Outf. comp. RCL JHL	10/15/48

REMARKS (INDICATES AVERAGE FOR PERIOD

( ) INDICATES TOTAL MONTHLY EVAPORATION, PERCOLATION AND OTHER LOSSES

DEVIL'S GATE (cont'd)

F. C. Dist. Form 68C Revised 500 11/44

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

In ~~Da~~ Arroyo Seco for the Year Ending September 30, 1948

Drainage Area 31.9 Square Miles. Capacity of Reservoir 2504.1 Ac. Ft. at Spillway Elev. 1054.0 Ft. as of December 1943

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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	1016.8	400	[0.1	0	1014.8	15.9	0	0	1012.3	3.4	0	0	1008		0	0	1
2	1016.8	400	1.1	0	1014.7	15.1	0	0	1012.3	3.4	0	0			0	0	2
3	1016.8	400	0.6]	0	1014.6	14.4	0	0	1012.2	3.2	0	0			0	0	3
4	1016.7	385	0	0	1014.5	13.6	0	0	1012.1	2.9	0	0			0	0	4
5	1016.6	370	0	0	1014.4	12.8	0	0	1012.0	2.7	0	0			0	0	5
6	1016.6	370	0	0	1014.3	12.1	0	0	1011.9	2.5	0	0.1			0	0	6
7	1016.5	356	0	0	1014.3	12.1	0	0	1011.6	2.1	0	0.2			0	0	7
8	1016.4	341	0	0	1014.2	11.3	0	0	1011.3	1.7	0	0.2			0	0	8
9	1016.3	326	0	0	1014.1	10.5	0	0	1011.0	1.2	0	0.2			0	0	9
10	1016.3	326	0	0	1014.1	10.5	0	0	1010.7	1.0	0	0.2			0	0	10
11	1016.2	311	0	0	1014.0	9.8	0	0	1010.3	0.6	0	0.2			0	0	11
12	1016.1	29.7	0	0	1013.9	9.3	0	0	1009.8	0.3	0	0.1			0	0	12
13	1016.0	28.2	0	0	1013.8	8.9	0	0	1009.4	0.2	0	0.1			0	0	13
14	1016.0	28.2	0	0	1013.7	8.4	0	0	1009.2	0.1	0	0.1			0	0	14
15	1015.9	27.1	0	0	1013.7	8.4	0	0	1009.0		0	0.1			0	0	15
16	1015.8	26.0	0	0	1013.6	7.9	0	0	1008		0	0			0	0	16
17	1015.7	25.0	0	0	1013.5	7.5	0	0			0	0			0	0	17
18	1015.7	25.0	0	0	1013.4	7.0	0	0			0	0			0	0	18
19	1015.6	23.9	0	0	1013.4	7.0	0	0			0	0	Small Pool		0	0	19
20	1015.5	22.8	0	0	1013.4	7.0	0	0			0	0			0	0	20
21	1015.4	21.7	0	0	1013.3	6.6	0	0			0	0	Storage Negligible		0	0	21
22	1015.4	21.7	0	0	1013.2	6.1	0	0			0	0			0	0	22
23	1015.4	21.7	0	0	1013.1	5.6	0	0			0	0			0	0	23
24	1015.3	20.6	0	0	1013.0	5.2	0	0			0	0			0	0	24
25	1015.2	19.6	0	0	1012.9	4.9	0	0			0	0			0	0	25
26	1015.1	18.5	0	0	1012.8	4.7	0	0			0	0			0	0	26
27	1015.1	18.5	0	0	1012.8	4.7	0	0			0	0			0	0	27
28	1015.0	17.4	0	0	1012.7	4.4	0	0			0	0			0	0	28
29	1014.9	16.6	0	0	1012.6	4.2	0	0			0	0			0	0	29
30	1014.8	15.9	0	0	1012.5	3.9	0	0			0	0			0	0	30
31					1012.4	3.7	0	0			0	0			0	0	31
TOTAL			1.8	0			0	0			0	1.5			0	0	
Inf. Ac. Ft.			3.6				0				0				0	260.3	
Outf. Ac. Ft.			0 + (27.7)				0 + (12.2)				3.0 + (0.7)				0	56.9 (203.4)	
Maximum Mean Daily Inflow			1.1				0				0				0	32.2	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		-24.1				-12.2				-3.7				0		0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Yearly Totals

Max. W. S. Elev.	1019.5	feet	on	3/25/48	Storage	101.4	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1008.±	feet	FOR XXX SEVERAL MONTHS		Storage	0	Acre Feet	K. M. YORK	Dam Tender	Gage Hts. copied	RCL JHL	10/15/48
Max. Peak Inf.	444.1	C. F. S. from	2:00 P.M.	on	3/24/48	to	3:00 P.M.	on	3/24/48	T. E. MOON	Hydrographer	Storage applied	RCL JHL	"
Max. Peak Outf.	1.9	C. F. S. from	6:00 P.M.	on	4/5/48	to	6:30 P.M.	on	4/5/48		Hydrographer	Inf. & Outf. comp.	RCL JHL	"

REMARKS [INDICATES AVERAGE FOR PERIOD
( ) INDICATES TOTAL MONTHLY EVAPORATION, PERCOLATION AND OTHER LOSSES.

F. C. Dist. Form 68A Revised 500 11/44

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

In ~~Da~~ Arroyo Seco for the Year Ending September 30, 1949

Drainage Area 31.9 Square Miles. Capacity of Reservoir 2581.4 Ac. Ft. at Spillway Elev 1054.0 Ft. as of November 1948 Survey

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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	995±		0	0	997.0	0.4	0	0	995±		0	0	1013.5	32.5	0	0	1
2			0	0	996.9	0.3	0	0	995±		0	0	1013.4	31.9	0	0	2
3			0	0	996.8	0.3	0	0	999.3	1.3	0.9	0	1013.3	31.3	0	0	3
4			0	0	996.7	0.3	0	0	999.2	1.3	0.2	0	1013.2	30.6	0	0	4
5			0	0	996.6	0.2	0	0	999.0	1.2	[0.1	0	1013.1	30.0	0	0	5
6			0	0	996.5	0.2	0	0	999.0	1.2	0.1	0	1013.0	29.4	0	0	6
7			0	0	996.4	0.2	0	0	999.0	1.2	0.1]	0	1013.0	29.4	0	0	7
8			0	0	996.3	0.2	0	0	999.2	1.3	0.1	0	1012.9	28.9	0	0	8
9			0	0	996.2	0.2	0	0	999.5	1.4	0.1	0	1013.1	30.0	0.8	0	9
10			0	0	996.2	0.2	0	0	999.8	1.6	0.2	0	1013.1	30.0	0.3	0	10
11			0	0	996.1	0.1	0	0	1000.3	1.9	0.2	0	1013.7	33.7	2.2	0	11
12			0	0	996.0	0.1	0	0	1000.8	2.3	0.3	0	1014.0	35.6	1.3	0	12
13			0	0	995.8	0.1	0	0	1001.3	2.7	0.3	0	1014.0	35.6	0.3	0	13
14			0	0	995.7	0.1	0	0	1001.6	2.9	0.2	0	1014.0	35.6	0.3	0	14
15			0	0	995.6	0.1	0	0	1002.0	3.3	0.3	0	1013.9	35.0	0	0	15
16			0	0	995.5	0.1	0	0	1004.2	5.8	1.4	0	1013.8	34.4	0	0	16
17			0	0	995.4	0.1	0	0	1012.2	25.6	10.5	0	1013.7	33.7	0	0	17
18			0	0	995		0	0	1012.1	25.1	0.2	0	1013.7	33.7	0	0	18
19			0	0			0	0	1012.1	25.1	0.2	0	1015.0	43.6	5.4	0	19
20			0	0			0	0	1012.1	25.1	0.2	0	1017.2	69.4	13.6	0	20
21			0	0			0	0	1012.2	25.6	0.6	0	1017.5	74.0	2.9	0	21
22			0	0			0	0	1012.4	26.5	0.7	0	1017.6	75.5	1.4	0	22
23			0	0			0	0	1012.4	26.5	0.3	0	1017.6	75.5	0.6	0	23
24	995±		0	0			0	0	1012.3	26.0	0.1	0	1017.5	74.0	0	0	24
25	996.2	0.2	0.2	0			0	0	1012.2	25.6	0.1	0	1017.4	72.5	0	0	25
26	996.0	0.1	0	0			0	0	1013.7	33.7	4.5	0	1017.3	71.0	0	0	26
27	995.7	0.1	0	0			0	0	1014.0	35.6	1.5	0	1017.3	71.0	0	0	27
28	995.6	0.1	0	0			0	0	1013.8	34.4	[0.1	0	1017.2	69.4	0	0	28
29	995.4	0.1	0	0			0	0	1013.7	33.7	0	0	1017.1	67.9	0	0	29
30	997.3	0.5	0.4	0			0	0	1013.6	33.1	0	0	1017.0	66.4	0	0	30
31	997.1	0.4	0	0					1013.5	32.5	0	0	1017.0	66.4	0	0	31
TOTAL			0.6	0			0	0			23.5	0			29.1	0	
Inf. Ac. Ft.			1.2				0				46.6				57.7	1055	
Outf. Ac. Ft.			0 + (0.8)				0 + (0.4)				0 + (14.1)				0 + (23.8)	0 + (391)	
Maximum Mean Daily Inflow			0.4				0				10.5				13.6	136	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		+0.4				-0.4				+32.5				+33.9		+664	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

½ Year

Max. W. S. Elev.	1018.5	feet	on	3/11/49	Storage	90.3	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	995.	feet	on	PART OF YEAR	Storage	0	Acre Feet	K. M. YORK	Dam Tender	Gage Hts. copied	JHL EAD	4/4/49
Max. Peak Inf.	58.7	C. F. S. from	2200	on	3/10/49	to	2400	on	3/10/49	T. E. MOON	Hydrographer	Storage applied	JHL EAD	4/4/49
Max. Peak Outf.	1.3	C. F. S. from	1000	on	6/3/49	to	1200	on	6/8/49		Hydrographer	Inf. & Outf. comp.	JHL EAD	4/4/49

REMARKS ( ) INDICATES LOSSES DUE TO PERCOLATION,
[INDICATES TOTAL FOR PERIOD OR PRORATED DAILY AMOUNTS.

DEVIL'S GATE (cont'd)

F. C. Dist. Form 88B Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In ~~On~~ Arroyo Seco for the Year Ending September 30, 1949

Continuous Water Stage Recorder Au

Drainage Area 31.9 Square Miles. Capacity of Reservoir 2561.4 Ac. Ft. at Spillway Elev. 1054.0 Ft. as of November, 1948 Survey 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	1016.9	651	0	0	1017.4	725	0	0	1017.0	664	0	0	1014.6	404	0	0.2	1
2	1016.8	639	0	0	1017.4	725	0	0	1017.0	664	0	0	1014.4	388	0	0.2	2
3	1016.9	651	1.1	0	1017.3	710	0	0	1016.9	651	0	0	1014.3	380	0	0.2	3
4	1016.8	639	0	0	1017.7	770	3.5	0	1016.8	639	0	0	1014.1	364	0	0.2	4
5	1016.7	626	0	0	1017.6	755	0	0	1016.8	639	0	0	1014.0	356	0	0.2	5
6	1016.7	626	0	0	1017.5	740	0	0	1016.7	626	0	0	1013.9	350	0	0.2	6
7	1016.9	651	1.5	0	1017.5	740	0.2	0	1016.6	613	0	0	1013.7	337	0	0.2	7
8	1016.8	639	0	0	1017.4	725	0	0	1016.5	601	0	0	1013.5	325	0	0.2	8
9	1016.7	626	0	0	1017.4	725	0	0	1016.4	588	0	0	1013.4	319	0	0.2	9
10	1016.7	626	0	0	1018.3	868	7.8	0	1016.3	575	0	0	1013.2	306	0	0.2	10
11	1017.2	694	3.9	0	1018.4	885	1.5	0	1016.2	562	0	0	1013.0	294	0	0.2	11
12	1017.1	679	0	0	1018.3	868	0	0	1016.2	562	0	0	1012.7	280	0	0.2	12
13	1017.0	664	0	0	1018.2	851	0	0	1016.1	550	0	0	1012.5	270	0	0.2	13
14	1017.0	664	0	0	1018.2	851	0	0	1016.0	537	0	0	1012.3	260	0	0.2	14
15	1016.9	651	0	0	1018.1	833	0	0	1016.0	537	0	0	1012.1	251	0	0.2	15
16	1016.8	639	0	0	1018.0	816	0	0	1015.9	527	0	0	1012.0	246	0.2	0.1	16
17	1016.8	639	0	0	1017.9	801	0	0	1015.8	517	0	0	1012.4	265	1.5	0.1	17
18	1016.7	626	0	0	1017.8	786	0	0	1015.8	517	0	0	1013.3	313	2.9	0.1	18
19	1016.7	626	0	0	1017.9	801	1.4	0	1015.7	507	0	0	1014.3	380	3.9	0.1	19
20	1016.6	613	0	0	1017.8	786	0	0	1015.6	497	0	0	1014.2	372	0.1	0.1	20
21	1016.5	601	0	0	1017.7	770	0	0	1015.6	497	0	0	1014.1	364	0	0.1	21
22	1016.5	601	0	0	1017.7	770	0	0	1015.5	487	0	0	1014.0	356	0	0.1	22
23	1016.4	588	0	0	1017.6	755	0	0	1015.4	476	0	0	1013.9	350	0	0.1	23
24	1016.8	639	2.9	0	1017.6	755	0.1	0	1015.3	466	0	0	1013.8	344	0	0.1	24
25	1016.7	626	0	0	1017.5	740	0	0	1015.3	466	0	0	1013.7	337	0	0.1	25
26	1017.6	755	6.9	0	1017.4	725	0	0	1015.2	456	0	0	1013.6	331	0	0.1	26
27	1017.6	755	0.5	0	1017.4	725	0	0	1015.1	446	0	0	1013.6	331	0	0.1	27
28	1017.5	740	0	0	1017.3	710	0	0	1015.0	436	0	0.1	1013.5	325	0	0.1	28
29					1017.2	694	0	0	1014.9	428	0	0.2	1013.4	319	0	0.1	29
30					1017.2	694	0	0	1014.7	412	0	0.2	1013.3	313	0	0.1	30
31					1017.1	679	0	0					1013.2	306	0	0.1	31
TOTAL			16.8	0			14.5	0			0	0.5			8.6	4.6	
Inf. Ac. Ft.			33.3				28.8				0				17.1	184.7	
Outf. Ac. Ft.			0 + (25.8)				0 + (34.9)				10 + (25.7)				91 + (18.5)	101 + (144.0)	
Maximum Mean Daily Inflow			6.9				7.8				0				3.9	13.6	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			+7.6				-6.1				-26.7				-10.6	+30.6	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

% Year

Max. W. S. Elev.	1018.5	feet	on	3/11/49	Storage	90.3	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	995.	feet	on	PART OF YEAR	Storage	0	Acre Feet	K. M. YORK	Dam Tender	Gage Hts. copied	JHL CJR 10/24/49
Max. Peak Inf.	58.7	C. F. S. from	2200	on	3/10/49	to	2400	on	3/10/49	T. E. MOON	Hydrographer	Storage applied	JHL CJR 10/24/49
Max. Peak Outf.	1.3	C. F. S. from	1000	on	6/3/49	to	1200	on	6/8/49		Hydrographer	Inf. & Outf. comp.	JHL CJR 10/24/49

REMARKS ( ) INDICATES LOSSES DUE TO PERCOLATION
{ INDICATES AVERAGE FOR PERIOD.

F. C. Dist. Form 88C Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In ~~On~~ Arroyo Seco for the Year Ending September 30, 1949

Continuous Water Stage Recorder Au

Drainage Area 31.9 Square Miles. Capacity of Reservoir 2561.4 Ac. Ft. at Spillway Elev. 1054.0 Ft. as of November, 1948 Survey 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	1013.1	300	0	0.1	995±		0	0	995±		0	0	995±		0	0	1
2	1012.9	289	0	0.4			0	0			0	0			0	0	2
3	1012.4	265	0	1.1			0	0			0	0			0	0	3
4	1011.7	235	0	1.3			0	0			0	0			0	0	4
5	1010.9	206	0	1.3			0	0			0	0			0	0	5
6	1010.0	178	0	1.3			0	0			0	0			0	0	6
7	1008.9	148	0	1.3			0	0			0	0			0	0	7
8	1007.6	117	0	1.3			0	0			0	0			0	0	8
9	1006.3	91	0	1.1			0	0			0	0			0	0	9
10	1005.1	71	0	1.1			0	0			0	0			0	0	10
11	1003.2	46	0	1.1			0	0			0	0			0	0	11
12	1000.9	23	0	1.1			0	0			0	0			0	0	12
13	996.1	01	0	1.0			0	0			0	0			0	0	13
14	995.6	01	0	0			0	0			0	0			0	0	14
15	995.6		0	0			0	0			0	0			0	0	15
16	995.6		0	0			0	0			0	0			0	0	16
17	995.6		0	0			0	0			0	0			0	0	17
18	995.6	Pool	0	0			0	0			0	0			0	0	18
19	995		0	0			0	0			0	0			0	0	19
20	995		0	0			0	0			0	0			0	0	20
21	995		0	0			0	0			0	0			0	0	21
22	995	Small	0	0			0	0			0	0			0	0	22
23	995±		0	0			0	0			0	0			0	0	23
24			0	0.1			0	0			0	0			0	0	24
25			0	0			0	0			0	0			0	0	25
26			0	0			0	0			0	0			0	0	26
27			0	0			0	0			0	0			0	0	27
28			0	0			0	0			0	0			0	0	28
29			0	0			0	0			0	0			0	0	29
30			0	0			0	0			0	0			0	0	30
31							0	0			0	0					31
TOTAL			0	13.6			0	0			0	0			0	0	
Inf. Ac. Ft.			0				0				0				0	185.3	
Outf. Ac. Ft.			270 + (36)					0				0			0	371 + (148.2)	
Maximum Mean Daily Inflow			0				0				0				0	13.6	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			-30.6			0			0			0		0		0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Yearly Totals

Max. W. S. Elev.	1018.5	feet	on	3/11/49	Storage	90.3	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	995.	feet	on	PART OF YEAR	Storage	0	Acre Feet	K. M. YORK	Dam Tender	Gage Hts. copied	JHL
Max. Peak Inf.	58.7	C. F. S. from	2200	on	3/10/49	to	2400	on	T. E. MOON	Hydrographer	Storage applied	JHL
Max. Peak Outf.	1.3	C. F. S. from	1000	on	6/3/49	to	1200	on 6/8/49		Hydrographer	Inf. & Outf. comp.	JHL

REMARKS ( ) INDICATES LOSS DUE TO PERCOLATION.

F. C. Dist. Form 68A Revised 500 11/44

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

~~In~~ On Eaton Wash for the Year Ending September 30, 1948

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

Drainage Area 9.48 Square Miles. Capacity of Reservoir 661.1 Ac. Ft. at Spillway Elev. 887.5 Ft. as of June 1947 Survey 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	8425		0	0	8425		0	0	8425	0	0	0	8425		0	0	1
2			0	0			0	0	8425	0	0	0			0	0	2
3			0	0			0	0	8425	0	0	0			0	0	3
4			0	0			0	0	8498	06	(08	05			0	0	4
5			0	0			0	0	8489	02	15	17			0	0	5
6			0	0			0	0	8425	0	0	0			0	0	6
7			0	0			0	0			0	0			0	0	7
8			0	0			0	0			0	0			0	0	8
9			0	0			0	0			0	0			0	0	9
10			0	0			0	0			0	0			0	0	10
11			0	0			0	0			0	0			0	0	11
12			0	0			0	0			0	0			0	0	12
13	Reservoir Dry		0	0	Reservoir Dry		0	0			0	0			0	0	13
14		No Storage	0	0		No Storage	0	0			0	0			0	0	14
15			0	0			0	0			0	0			0	0	15
16			0	0			0	0			0	0			0	0	16
17			0	0			0	0			0	0			0	0	17
18			0	0			0	0			0	0	Reservoir Dry		0	0	18
19			0	0			0	0	Reservoir Dry	No Storage	0	0		No Storage	0	0	19
20			0	0			0	0			0	0			0	0	20
21			0	0			0	0			0	0			0	0	21
22			0	0			0	0			0	0			0	0	22
23			0	0			0	0			0	0			0	0	23
24			0	0			0	0			0	0			0	0	24
25			0	0			0	0			0	0			0	0	25
26			0	0			0	0			0	0			0	0	26
27			0	0			0	0			0	0			0	0	27
28			0	0			0	0			0	0			0	0	28
29			0	0			0	0			0	0			0	0	29
30			0	0			0	0			0	0			0	0	30
31			0	0							0	0			0	0	31
TOTAL			0	0			0	0			23	22			0	0	
Inf. Ac. Ft.			0				0				46				0		46
Outf. Ac. Ft.				0				0			44 + (02)				0		44 + (02)
Maximum Mean Daily Inflow			0				0				15				0		15
Minimum Mean Daily Inflow			0				0				0				0		0
Storage Change		0				0				0				0			0

NOTE: Gage Heights and Storages as of Midnight on Day Shown — ½ Year

Max. W. S. Elev.	858.9	feet	on	4/29/48	Storage	38.8	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	842.+	feet	FOR XXX SEVERAL MONTHS		Storage	0	Acre Feet	HAROLD BELDING	Dam Tender	Gage Hts. copied APK	RCL	
Max. Peak Inf.	89.5	C.F.S. from	9:00 P.M.	on	4/28/48	to	10:00 P.M.	on	4/28/48	T. E. MOON	Hydrographer	Storage applied APK	JHL	10/14/48
Max. Peak Outf.	9.0	C.F.S. from	10:50 P.M.	on	12/4/47	to	3:30 A.M.	on	12/5/47		Hydrographer	Inf. & Outf. comp. RCL	JHL	"

REMARKS { INDICATES AVERAGE FOR PERIOD
( ) " LOSSES DUE TO EVAPORATION AND PERCOLATION

F. C. Dist. Form 68B Revised 500 11/44

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

~~In~~ On Eaton Wash for the Year Ending September 30, 1948

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

Drainage Area 9.48 Square Miles. Capacity of Reservoir 661.1 Ac. Ft. at Spillway Elev. 887.5 Ft. as of June 1947 Survey 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	8425	0	0	0	8425	0	0	0	8488	**48	(0	0	8581	341	0	0	1
2	8425	0	0	0			0	0	8486	45	0	0	8578	324	0	0	2
3	8425	0	0	0			0	0	8485	45	02	0	8575	309	0	0	3
4	8425	0	0	0			0	0	8484	42	0	0	8572	293	0	0	4
5	8527	*36	21	0			0	0	8483	41	0	0	8569	277	0	0	5
6	8528	37	04	0			0	0	8482	39	0	0	8566	263	0	0	6
7	8524	31	0	0			0	0	8481	38	0	0	8564	253	0	0	7
8	8521	27	0	0			0	0	8480	36	0	0	8561	239	0	0	8
9	8518	23	0	0			0	0	8479	34	0	0	8559	230	0	0	9
10	8516	20	0	0			0	0	8478	34	(03	0	8557	221	0	0	10
11	8514	18	0	0			0	0	8478	33	0	0	8554	209	0	0	11
12	8512	15	0	0	8425	0	0	0	8477	32	0	0	8552	200	0	0	12
13	8510	13	0	0	*8510	*13	08	0	8476	31	0	0	8549	188	0	0	13
14	8508	12	0	0	8506	11	0	0	8475	30	0	0	8547	181	0	0	14
15	8506	11	0	0	8504	09	0	0	8474	28	0	0	8545	**170	0	0	15
16	8503	09	0	0	8502	08	0	0	8473	27	0	0	8543	160	0	0	16
17	8500	07	0	0	8504	09	02	0	8472	26	0	0	8541	151	0	0	17
18	8498	06	0	0	8502	08	0	0	8471	26	0	0	8540	145	0	0	18
19	8496	05	0	0	8501	08	01	0	8470	25	0	0	8538	138	0	0	19
20	8494	04	0	0	8500	07	0	0	8469	24	0	0	8536	134	0	0	20
21	8491	02	0	0	8498	06	0	0	8469	24	0	0	8535	130	0	0	21
22	8488	02	0	0	8496	05	0	0	8468	24	0	0	8534	125	0	0	22
23	8485	02	0	0	8494	*04	0	0	8468	24	0	0	8533	121	0	0	23
24	8482	01	0	0	8515	**101	54	03	8467	23	0	0	8531	115	0	0	24
25	8480	01	0	0	8510	89	0	0	8466	23	0	0	8530	112	0	0	25
26	8479	01	0	0	8504	78	0	0	8466	22	0	0	8530	109	0	0	26
27	8476	*01	0	0	8500	70	0	0	8465	**22	0	0	8528	106	0	0	27
28	8425	0	0	0	8497	64	0	0	8551	196	94	0	8527	101	0	0	28
29	8425	0	0	0	8494	58	0	0	8589	388	109	0	8526	98	0	0	29
30					8492	55	0	0	8585	365	01	0	8524	94	0	0	30
31					8490	**52	0	0					8523	**90	0	0	31
TOTAL			25	0			65	03			209	0			0	0	
Inf. Ac. Ft.			50				129				414				0		639
Outf. Ac. Ft.			0 + (50)				06 + (71)				0 + (101)			0 + (276)			50 + (500)
Maximum Mean Daily Inflow			21				54				109				0		109
Minimum Mean Daily Inflow			0				0				0				0		0
Storage Change		0				+52				+313				-275			+90

NOTE: Gage Heights and Storages as of Midnight on Day Shown — ½ Year

Max. W. S. Elev.	858.9	feet	on	4/29/48	Storage	38.8	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	842.+	feet	FOR XXX SEVERAL MONTHS		Storage	0	Acre Feet	HAROLD BELDING	Dam Tender	Gage Hts. copied AWS	RCL	8/23/48
Max. Peak Inf.	89.5	C.F.S. from	9:00 P.M.	on	4/28/48	to	10:00 P.M.	on	4/28/48	T. E. MOON	Hydrographer	Storage applied AWS	RCL	"
Max. Peak Outf.	9.0	C.F.S. from	10:50 P.M.	on	12/4/47	to	3:30 A.M.	on	12/5/47		Hydrographer	Inf. & Outf. comp. RCL	JHL	10/14/48

REMARKS * STORAGE IN RESERVOIR ONLY ** PIT W.S. ELEV. USED, STORAGE IN PIT & RESERVOIR
{ INDICATES AVERAGE FOR PERIOD () INDICATES LOSSES DUE TO EVAPORATION AND PERCOLATION

EATON (cont'd)

F. C. Dist. Form 68C Revised 500 11/44

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

In/On Eaton Wash for the Year Ending September 30, 1948

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

Drainage Area 9.48 Square Miles. Capacity of Reservoir 661.1 Ac. Ft. at Spillway Elev. 887.5 Ft. as of June 1947 Survey 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	852.3	**8.9	0	0	849.4	***4.5	0	0	847.2	***2.6	0	0	845.5	***1.5	0	0	1
2	852.2	8.6	0	0	849.3	4.4	0	0	847.1	2.6	0	0	845.4	1.4	0	0	2
3	852.1	8.4	0	0	849.2	4.3	0	0	847.0	2.5	0	0	845.4	1.4	0	0	3
4	852.0	8.1	0	0	849.2	4.3	0	0	847.0	2.5	0	0	845.3	1.4	0	0	4
5	851.9	7.9	0	0	849.1	4.2	0	0	846.9	2.4	0	0	845.2	1.3	0	0	5
6	851.8	7.8	0	0	849.0	4.1	0	0	846.9	2.4	0	0	845.2	1.3	0	0	6
7	851.6	7.4	0	0	849.0	4.1	0	0	846.8	2.4	0	0	845.2	1.3	0	0	7
8	851.4	7.0	0	0	848.9	4.0	0	0	846.8	2.4	0	0	845.1	1.3	0	0	8
9	851.3	6.8	0	0	848.8	3.9	0	0	846.7	2.3	0	0	845.0	1.2	0	0	9
10	851.2	6.6	0	0	848.7	3.8	0	0	846.6	2.2	0	0	845.0	1.2	0	0	10
11	851.2	6.5	0	0	848.7	3.8	0	0	846.6	2.2	0	0	844.9	1.2	0	0	11
12	851.1	6.4	0	0	848.6	3.7	0	0	846.5	2.2	0	0	844.9	1.2	0	0	12
13	850.9	6.1	0	0	848.5	3.7	0	0	846.5	2.2	0	0	844.8	1.1	0	0	13
14	850.8	6.0	0	0	848.5	3.7	0	0	846.4	2.1	0	0	844.8	1.1	0	0	14
15	850.7	5.9	0	0	848.4	3.6	0	0	846.4	2.1	0	0	844.7	1.1	0	0	15
16	850.7	**5.8	0	0	848.3	3.5	0	0	846.3	2.0	0	0	844.7	1.1	0	0	16
17	850.6	***5.7	0	0	848.3	3.5	0	0	846.2	1.9	0	0	844.6	1.0	0	0	17
18	850.5	5.6	0	0	848.2	3.4	0	0	846.2	1.9	0	0	844.6	1.0	0	0	18
19	850.5	5.6	0	0	848.1	3.3	0	0	846.1	1.9	0	0	844.6	1.0	0	0	19
20	850.4	5.4	0	0	848.0	3.2	0	0	846.1	1.9	0	0	844.5	1.0	0	0	20
21	850.3	5.3	0	0	847.9	3.1	0	0	846.0	1.8	0	0	844.5	1.0	0	0	21
22	850.2	5.2	0	0	847.9	3.1	0	0	846.0	1.8	0	0	844.4	0.9	0	0	22
23	850.1	5.1	0	0	847.8	3.1	0	0	845.9	1.7	0	0	844.4	0.9	0	0	23
24	850.0	5.0	0	0	847.8	3.1	0	0	845.9	1.7	0	0	844.4	0.9	0	0	24
25	849.9	4.9	0	0	847.7	3.0	0	0	845.8	1.7	0	0	844.4	0.9	0	0	25
26	849.8	4.8	0	0	847.6	2.9	0	0	845.8	1.7	0	0	844.3	0.8	0	0	26
27	849.7	4.7	0	0	847.5	2.9	0	0	845.7	1.6	0	0	844.3	0.8	0	0	27
28	849.6	4.6	0	0	847.4	2.8	0	0	845.7	1.6	0	0	844.2	0.8	0	0	28
29	849.6	4.6	0	0	847.4	2.8	0	0	845.7	1.6	0	0	844.2	0.8	0	0	29
30	849.5	***4.6	0	0	847.3	2.7	0	0	845.6	1.6	0	0	844.1	***0.8	0	0	30
31					847.2	***2.6	0	0	845.5	***1.5	0	0					31
TOTAL			0	0			0	0			0	0			0	0	
Inf. Ac. Ft.			0				0				0				0	639	
Outf. Ac. Ft.			0 + (4.4)				0 + (20)				0 + (11)				0 + (0.7)	50 + (582)	
Maximum Mean Daily Inflow			0				0				0				0	109	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		− 4.4				− 2.0				− 1.1				− 0.7		+ 0.8	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — Yearly Totals

Max. W. S. Elev.	858.0	feet on 4/29/48	Storage 38.8	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS ckd. Date
Min. W. S. Elev.	842.±	feet FOR XXX SEVERAL MONTHS	Storage 0	Acre Feet	HAROLD BELDING	Dam Tender	Gage Hts. copied RCL JHL 10/14/48
Max. Peak Inf.	89.6	C. F. S. from 9:00 P.M. on 4/28/48	to 10:00 P.M. on 4/28/48		T. E. MOON	Hydrographer	Storage applied RCL JHL "
Max. Peak Outf.	9.0	C. F. S. from 10:50 P.M. on 12/4/47	to 3:30 A.M. on 12/5/47			Hydrographer	Inf. & Outf. comp. RCL JHL "

REMARKS ** PIT W.S. ELEV. USED, STORAGE IN PIT & RESERVOIR *** STORAGE IN PIT ONLY

( ) INDICATES LOSSES DUE TO EVAPORATION AND PERCOLATION

F. C. Dist. Form 68A Revised 500 11/44

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

In/On Eaton Wash for the Year Ending September 30, 1949

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

Drainage Area 9.48 Square Miles. Capacity of Reservoir 661.1 Ac. Ft. at Spillway Elev. 887.5 Ft. as of June 1947 Survey 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	*844.0	0.7	0	0	**847−		0	0	847−		0	0	848.5	0.2	0	0	1
2	844.0	0.7	0	0			0	0			0	0	848.1	0.1	0	0	2
3	843.8	0.6	0	0			0	0			0	0	847.7	0.1	0	0	3
4	843.4	0.4	0	0			0	0			0	0	847		0	0	4
5	842		0	0			0	0			0	0			0	0	5
6			0	0			0	0			0	0			0	0	6
7			0	0			0	0			0	0			0	0	7
8		Pool	0	0			0	0		No Storage	0	0			0	0	8
9			0	0			0	0			0	0			0	0	9
10			0	0			0	0			0	0			0	0	10
11			0	0			0	0			0	0		Dry	0	0	11
12			0	0			0	0			0	0			0	0	12
13		Small	0	0			0	0			0	0			0	0	13
14			0	0			0	0			0	0		Small Pool	0	0	14
15			0	0			0	0			0	0			0	0	15
16	Dry		0	0	Dry		0	0	847		0	0			0	0	16
17			0	0			0	0	849.7	0.6	2.1	0.1			0	0	17
18	Reservoir		0	0	Reservoir		0	0	847		0	0.3	847		0	0	18
19			0	0		No Storage	0	0	847		0	0.2	849.8	0.6	0.7	0	19
20			0	0			0	0			0	0	854.5	6.9	4.7	0	20
21			0	0			0	0			0	0	854.4	6.7	0.7	0	21
22			0	0			0	0		Dry Pool	0	0	854.4	6.7	0.4	0	22
23		Storage	0	0			0	0			0	0	854.2	6.3	0.2	0	23
24			0	0			0	0			0	0	853.9	5.7	0	0	24
25			0	0			0	0	847		0	0	853.7	5.3	0	0	25
26			0	0			0	0	850.8	1.2	1.1	0	853.5	5.0	0	0	26
27		No	0	0			0	0	850.4	0.9	0.2	0	853.3	4.6	0	0	27
28			0	0			0	0	850.0	0.7	0	0	853.0	4.0	0	0	28
29			0	0			0	0	849.6	0.5	0	0	852.8	3.7	0	0	29
30			0	0			0	0	849.3	0.4	0	0	852.7	3.6	0	0	30
31			0	0					849.0	0.2	0	0	852.5	3.3	0	0	31
TOTAL			0	0			0	0			3.4	0.6			6.7	0	
Inf. Ac. Ft.			0				0				6.7				13.3	200	
Outf. Ac. Ft.			0	0.8				0			1.2 + (5.3)				0 + (10.2)	1.2 + (16.3)	
Maximum Mean Daily Inflow			0				0				2.1				4.7	4.7	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		− 0.8				0				+ 0.2				+ 3.1		+ 2.5	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — ½ Year

Max. W. S. Elev.	854.6	feet on 1/21/49	Storage 7.1	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS ckd. Date
Min. W. S. Elev.	847.-	feet on MOST OF YEAR	Storage 0	Acre Feet	F. D. KELLY, DAM OPERATOR		Gage Hts. copied JHL APK 6/9/49
Max. Peak Inf.	9.9	C. F. S. from 1100 on 1/20/49	to 1200 on 1/20/49		T. E. MOON	Hydrographer	Storage applied JHL APK 6/9/49
Max. Peak Outf. (LEAKAGE)	0.3	C. F. S. from on 12/18/48	to on			Hydrographer	Inf. & Outf. comp. JHL APK 6/8/49

REMARKS * STORAGE IN PIT ONLY ** RESERVOIR W. S. ELEVATION

( ) INDICATES PERCOLATION AND EVAPORATION

INDICATES AVERAGE FOR PERIOD

EATON (cont'd)

F. C. Dist. Form 68B Revised 580 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

~~In~~ On Eaton Wash for the Year Ending September 30, 19 49

Continuous Water Stage Recorder Au

Drainage Area 9.48 Square Miles. Capacity of Reservoir 881.1 Ac. Ft. at Spillway Elev. 887.5 Ft. as of June 1947 Survey 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	852.3	3.0	0	0	853.0	4.0	0	0	848.9	0.2	0	0	847-		0	0	1
2	852.1	2.7	0	0	852.8	3.7	0	0	848.7	0	0	0			0	0	2
3	851.9	2.4	0	0	852.6	3.4	0	0	848.5	0	0	0			0	0	3
4	851.8	2.3	0	0	853.2	4.4	0.7	0	848.3	0.1	0	0			0	0	4
5	851.6	2.0	0	0	853.0	4.0	0	0	848.2	0.1	0	0			0	0	5
6	851.4	1.8	0	0	852.8	3.7	0	0	848.0	0.1	0	0			0	0	6
7	851.5	1.9	0.2	0	852.6	3.4	0	0	847.8	0.1	0	0			0	0	7
8	851.3	1.7	0	0	852.4	3.1	0	0	847.7	0.1	0	0			0	0	8
9	851.1	1.4	0	0	852.2	2.8	0	0	847.5	0.1	0	0			0	0	9
10	850.9	1.2	0	0	853.0	4.0	1.0	0	847.3		0	0			0	0	10
11	852.0	2.5	1.1	0	853.4	4.8	0.7	0	847.2		0	0			0	0	11
12	851.8	2.3	0	0	853.2	4.4	0	0	847.1		0	0			0	0	12
13	851.6	2.0	0	0	853.0	4.0	0	0	847.0		0	0			0	0	13
14	851.4	1.8	0	0	852.8	3.7	0	0	847		0	0			0	0	14
15	851.2	1.5	0	0	852.6	3.4	0	0			0	0			0	0	15
16	851.0	1.3	0	0	852.4	3.1	0	0			0	0			0	0	16
17	850.8	1.2	0	0	852.2	2.8	0	0			0	0	847		0	0	17
18	850.6	1.1	0	0	852.0	2.5	0	0			0	0	850.0	0.7	0.7	0	18
19	850.4	0.9	0	0	851.9	2.4	0.1	0			0	0	850.4	0.9	0.3	0	19
20	850.2	0.8	0	0	851.7	2.1	0	0			0	0	850.0	0.7	0	0	20
21	850.0	0.7	0	0	851.4	1.8	0	0			0	0	849.6	0.5	0	0	21
22	849.8	0.6	0	0	851.2	1.5	0	0			0	0	848.9	0.2	0	0	22
23	849.5	0.4	0	0	851.0	1.3	0	0			0	0	847		0	0	23
24	849.8	0.6	0.2	0	850.8	1.2	0	0			0	0			0	0	24
25	849.6	0.5	0	0	850.5	1.0	0	0			0	0			0	0	25
26	852.6	3.4	2.0	0	850.3	0.9	0	0			0	0			0	0	26
27	853.5	5.0	1.1	0	850.0	0.7	0	0			0	0			0	0	27
28	853.2	4.4	0	0	849.8	0.6	0	0			0	0			0	0	28
29					849.6	0.5	0	0			0	0			0	0	29
30					849.4	0.4	0	0			0	0			0	0	30
31					849.1	0.3	0	0							0	0	31
TOTAL			4.6	0			2.5	0			0	0			1.0	0	
Inf. Ac. Ft.			9.1				5.0				0				2.0		36.1
Outf. Ac. Ft.			0 + (8.0)				0 + (9.1)				0 + (0.3)			0 + (2.0)			12+(35.7)
Maximum Mean Daily Inflow			2.0				1.0				0				0.7		4.7
Minimum Mean Daily Inflow			0				0				0				0		0
Storage Change		+1.1				-4.1				-0.3				0			-0.8

NOTE: Gage Heights and Storages as of Midnight on Day Shown — ¾ Year

Max. W. S. Elev.	854.6	feet	on 1/21/49	Storage	7.1	Acre Feet	RECORDS COLLECTED BY	OPERATORS	COMPUTATIONS	ckd. Date
Min. W. S. Elev.	847.-	feet	on MOST OF YEAR	Storage	0	Acre Feet	F. D. KELLY & D. E. WILSON	Dam Tender	Gage Hts. copied	JHL APK 6/9/49
Max. Peak Inf.	9.9	C.F.S. from	1100	on 1/20/49	to 1200	on 1/20/49	T. E. MOON	Hydrographer	Storage applied	JHL APK 6/9/49
Max. Peak Outf.	0.3 (LEAKAGE)	C.F.S. from		on 12/18/48	to	on		Hydrographer	Inf. & Outf. comp.	JHL APK 6/9/49

REMARKS ( ) INDICATES PERCOLATION AND EVAPORATION

F. C. Dist. Form 68C Revised 580 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

~~In~~ On Eaton Wash for the Year Ending September 30, 19 49

Continuous Water Stage Recorder Au

Drainage Area 9.48 Square Miles. Capacity of Reservoir 881.1 Ac. Ft. at Spillway Elev. 887.5 Ft. as of June 1947 Survey 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	847-		0	0	847-		0	0	847-		0	0	847-		0	0	1
2			0	0			0	0			0	0			0	0	2
3			0	0			0	0			0	0			0	0	3
4			0	0			0	0			0	0			0	0	4
5			0	0			0	0			0	0			0	0	5
6			0	0			0	0			0	0			0	0	6
7			0	0			0	0			0	0			0	0	7
8			0	0			0	0			0	0			0	0	8
9			0	0			0	0			0	0			0	0	9
10			0	0			0	0			0	0			0	0	10
11			0	0			0	0			0	0			0	0	11
12			0	0			0	0			0	0			0	0	12
13			0	0			0	0			0	0			0	0	13
14			0	0			0	0			0	0			0	0	14
15			0	0			0	0			0	0			0	0	15
16			0	0			0	0			0	0			0	0	16
17			0	0			0	0			0	0			0	0	17
18			0	0			0	0			0	0			0	0	18
19			0	0			0	0			0	0			0	0	19
20			0	0			0	0			0	0			0	0	20
21			0	0			0	0			0	0			0	0	21
22			0	0			0	0			0	0			0	0	22
23			0	0			0	0			0	0			0	0	23
24			0	0			0	0			0	0			0	0	24
25			0	0			0	0			0	0			0	0	25
26			0	0			0	0			0	0			0	0	26
27			0	0			0	0			0	0			0	0	27
28			0	0			0	0			0	0			0	0	28
29			0	0			0	0			0	0			0	0	29
30			0	0			0	0			0	0			0	0	30
31							0	0			0	0					31
TOTAL			0	0			0	0			0	0			0	0	
Inf. Ac. Ft.			0				0				0				0		36.1
Outf. Ac. Ft.				0				0				0			0		12+(35.7)
Maximum Mean Daily Inflow																	4.7
Minimum Mean Daily Inflow																	0
Storage Change		0				0				0				0			-0.8

NOTE: Gage Heights and Storages as of Midnight on Day Shown — Yearly Totals

Max. W. S. Elev.	854.6	feet	on 1/21/49	Storage	7.1	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	847.-	feet	on MOST OF YEAR	Storage	0	Acre Feet	D. E. WILSON	Dam Tender	Gage Hts. copied	CJR 10/19/49
Max. Peak Inf.	9.9	C.F.S. from	1100	on 1/20/49	to 1200	on 1/20/49	T. E. MOON	Hydrographer	Storage applied	CJR 10/19/49
Max. Peak Outf. (LEAKAGE)	0.3	C.F.S. from		on 12/18/48	to	on		Hydrographer	Inf. & Outf. comp.	JHL CJR 10/19/49

REMARKS ( ) INDICATES LOSS DUE TO PERCOLATION AND EVAPORATION.

BIG SANTA ANITA

F. C. Dist. Form 88A Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In Santa Anita Canyon for the Year Ending September 30, 1948

Continuous Water Stage Recorder Au

Drainage Area 10.8 Square Miles. Capacity of Reservoir 727.6 Ac. Ft. at Spillway Elev. 1,316.0 Ft. as of January 1947 Survey 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	1271.0	277.4	0.7	0.7	1260.8	213.7	1.1	2.7	1244.7	132.3	1.1	2.2	1242.6	123.2	1.4	1.4	1
2	1271.0	277.4	0.7	0.7	1260.3	210.8	1.1	2.7	1244.2	130.1	1.1	2.2	1242.6	123.2	1.4	1.4	2
3	1271.0	277.4	0.7	0.7	1259.7	207.4	1.1	2.7	1243.7	127.9	1.1	2.2	1242.6	123.2	1.4	1.4	3
4	1271.0	277.4	0.7	0.7	1259.1	204.1	1.1	2.7	1243.5	127.1	1.8	2.2	1242.6	123.2	1.4	1.4	4
5	1271.0	277.4	0.7	0.7	1258.6	201.3	1.1	2.7	1245.6	136.2	6.8	2.2	1242.6	123.2	1.4	1.4	5
6	1271.0	277.4	0.7	0.7	1258.0	197.9	1.0	2.7	1246.3	139.4	3.7	2.1	1242.6	123.2	1.4	1.4	6
7	1270.9	276.7	0.7	0.7	1257.4	194.6	1.0	2.6	1246.4	139.8	2.3	2.1	1242.6	123.2	1.4	1.4	7
8	1270.9	276.9	0.7	0.7	1256.8	191.3	1.0	2.6	1246.4	139.8	2.1	2.1	1242.6	123.2	1.4	1.4	8
9	1270.9	276.9	0.7	0.7	1256.2	188.1	1.0	2.6	1246.3	139.4	1.9	2.1	1242.6	123.2	1.4	1.4	9
10	1270.9	276.9	0.7	0.7	1255.6	184.9	1.0	2.5	1246.2	138.9	1.8	2.1	1242.6	123.2	1.4	1.4	10
11	1270.9	276.9	0.7	0.7	1255.1	182.2	1.0	2.5	1246.0	138.0	1.7	2.0	1242.6	123.2	1.4	1.4	11
12	1270.9	276.9	0.7	0.7	1254.5	179.1	1.0	2.5	1245.9	137.6	1.7	2.0	1242.5	122.8	1.4	1.4	12
13	1270.9	276.9	0.7	0.7	1254.0	176.5	1.1	2.4	1245.7	136.7	1.6	2.0	1242.5	122.8	1.4	1.4	13
14	1271.0	277.4	0.7	0.7	1253.4	173.4	1.1	2.4	1245.5	135.8	1.6	2.0	1242.4	122.4	1.3	1.4	14
15	1270.6	274.7	0.8	2.0	1252.9	170.9	1.1	2.4	1245.3	134.9	1.5	2.0	1242.4	122.4	1.3	1.4	15
16	1270.1	271.4	0.8	2.7	1252.3	167.9	1.1	2.4	1245.1	134.0	1.5	2.0	1242.7	123.6	1.3	0.9	16
17	1269.5	267.4	0.8	2.7	1251.8	165.4	1.1	2.4	1244.8	132.7	1.5	2.0	1243.3	126.2	1.3	0.3	17
18	1268.9	263.5	0.8	2.7	1251.3	162.9	1.1	2.4	1244.6	131.8	1.4	2.0	1243.9	128.8	1.3	0.3	18
19	1268.4	260.2	0.8	2.7	1250.8	160.4	1.1	2.4	1244.3	130.5	1.4	2.0	1244.4	131.0	1.3	0.3	19
20	1267.8	256.3	0.9	2.7	1250.2	157.6	1.1	2.4	1244.0	129.2	1.4	2.0	1245.0	133.6	1.3	0.3	20
21	1267.2	252.5	0.9	2.8	1249.6	154.7	1.1	2.4	1243.7	127.9	1.4	2.0	1245.5	135.8	1.3	0.3	21
22	1266.7	249.3	0.9	2.8	1249.1	152.3	1.1	2.4	1243.5	127.1	1.4	2.0	1246.0	138.0	1.3	0.3	22
23	1266.1	245.5	0.9	2.8	1248.6	149.9	1.1	2.4	1243.2	125.8	1.4	2.0	1246.4	139.8	1.3	0.5	23
24	1265.5	241.8	0.9	2.8	1248.1	147.6	1.1	2.3	1243.0	124.9	1.4	2.0	1246.6	140.7	1.3	0.7	24
25	1265.0	238.7	1.0	2.8	1247.6	145.3	1.1	2.3	1242.7	123.6	1.4	2.0	1246.7	141.2	1.3	0.7	25
26	1264.4	235.0	1.0	2.8	1247.1	143.0	1.1	2.3	1242.6	123.2	1.4	1.6	1246.9	142.1	1.3	0.7	26
27	1263.8	231.4	1.0	2.8	1246.7	141.2	1.1	2.3	1242.6	123.2	1.4	1.4	1247.1	143.0	1.3	0.7	27
28	1263.2	227.8	1.0	2.8	1246.2	138.9	1.1	2.3	1242.6	123.2	1.4	1.4	1247.3	143.9	1.3	0.7	28
29	1262.6	224.2	1.1	2.8	1245.7	136.7	1.1	2.3	1242.6	123.2	1.4	1.4	1247.5	144.8	1.3	0.7	29
30	1262.0	220.7	1.1	2.8	1245.2	134.5	1.1	2.3	1242.6	123.2	1.4	1.4	1247.7	145.7	1.3	0.7	30
31	1261.4	217.2	1.1	2.7					1242.6	123.2	1.4	1.4	1247.9	146.6	1.3	0.7	31
TOTAL			25.6	56.0			32.3	74.0			54.4	60.1			41.6	29.8	
Inf. Ac. Ft.			50.8				64.1				107.9				82.5	305.3	
Outf. Ac. Ft.				111.1				146.8				119.2			59.1	436.2	
Maximum Mean Daily Inflow			1.1				1.1				6.8				1.4	6.8	
Minimum Mean Daily Inflow			0.7				1.0				1.1				1.3	0.7	
Storage Change	-602				-82.7				-113				+23.4			-1308	

NOTE: Gage Heights and Storages as of Midnight on Day Shown ½ Year

Max. W. S. Elev.	1288.15	feet	on	6/10/48	Storage	413.4	Acre Feet	RECORDS COLLECTED BY			COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1239.2	feet	on	9/30/48	Storage	109.2	Acre Feet	K. A. SHIPLEY	Dam Tender		Gage Hts. copied APK	DB	6/25/48
Max. Peak Inf.	41.1	C. F. S. from	11:00 P.M.	on	4/28/48	to	2:00 A.M.	on	4/29/48	T. E. MOON	Hydrographer		Storage applied APK	DB	"
Max. Peak Outf.	5.2	C. F. S. from	5:00 P.M.	on	2/5/48	to	6:00 P.M.	on	2/6/48		Hydrographer		Inf. & Outf. comp. APK	JHL	8/25/48

REMARKS { INDICATES AVERAGE FOR PERIOD OR PRORATED DAILY AMOUNTS.
NO ALLOWANCE MADE FOR PERCOLATION OR EVAPORATION

F. C. Dist. Form 88B Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In Santa Anita Canyon for the Year Ending September 30, 1948

Continuous Water Stage Recorder Au

Drainage Area 10.8 Square Miles. Capacity of Reservoir 727.6 Ac. Ft. at Spillway Elev. 1316.0 Ft. as of January 1947 Survey 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	1248.1	147.6	1.2	0.7	1250.7	160.0	1.6	0.9	1271.9	283.6	2.7	1.0	1286.2	396.1	4.5	3.6	1
2	1248.3	148.5	1.2	0.7	1251.0	161.4	1.6	0.9	1272.4	287.1	2.8	1.0	1286.2	396.1	3.6	3.6	2
3	1248.5	149.5	1.2	0.7	1251.3	162.9	1.6	0.9	1273.4	294.2	4.7	1.1	1286.1	395.3	3.2	3.6	3
4	1248.8	150.9	1.5	0.4	1251.6	164.4	1.6	0.9	1274.3	300.7	4.3	1.1	1286.1	395.3	2.8	2.8	4
5	1251.7	164.9	8.3	1.7	1251.9	165.9	1.6	0.9	1275.1	306.6	4.1	1.1	1286.1	395.3	2.6	2.4	5
6	1252.3	167.9	6.7	5.2	1252.2	167.4	1.6	0.9	1275.7	311.1	3.4	1.1	1286.1	395.3	2.4	2.4	6
7	1251.8	165.4	3.8	5.0	1252.5	168.9	1.6	0.9	1276.2	314.8	2.9	1.1	1286.1	395.3	2.4	2.4	7
8	1251.0	161.4	2.7	4.7	1252.7	169.9	1.6	0.9	1276.7	318.6	3.1	1.1	1286.0	394.4	2.2	2.4	8
9	1250.5	159.0	2.6	3.8	1252.9	170.9	1.6	0.9	1277.1	321.7	2.6	1.1	1285.9	393.5	2.2	2.4	9
10	1250.1	157.1	2.1	3.1	1253.2	172.4	1.6	0.9	1277.8	327.1	3.8	1.1	1285.9	393.5	2.0	2.4	10
11	1249.7	155.2	2.1	3.1	1253.4	173.4	1.5	0.9	1278.3	331.0	3.2	1.2	1286.0	394.4	2.0	1.7	11
12	1249.3	153.2	2.1	3.1	1253.6	174.5	1.7	0.9	1278.7	334.1	2.6	1.2	1286.1	395.3	1.8	1.3	12
13	1249.4	153.7	2.1	1.9	1254.4	178.6	2.6	0.9	1279.1	337.3	2.4	1.2	1286.2	396.1	1.8	1.3	13
14	1249.4	153.7	2.1	2.0	1256.0	187.0	5.2	0.9	1279.3	338.9	2.3	1.2	1286.4	397.9	1.8	1.3	14
15	1249.3	153.2	2.0	2.0	1257.3	194.1	4.4	0.9	1279.5	340.5	2.3	1.2	1286.5	398.8	1.8	1.3	15
16	1249.3	153.2	2.0	2.0	1258.1	198.5	3.2	0.9	1279.8	342.8	2.0	1.2	1286.6	399.6	1.8	1.3	16
17	1249.2	152.8	1.8	2.0	1259.5	206.3	4.8	0.9	1280.0	344.4	2.0	1.2	1286.6	399.6	1.8	1.3	17
18	1249.0	151.8	1.8	2.0	1260.5	212.0	3.8	0.9	1280.1	345.2	2.0	1.2	1286.6	399.6	1.7	1.3	18
19	1248.9	151.3	1.7	2.0	1261.4	217.2	3.5	0.9	1280.2	346.0	1.8	1.2	1286.6	399.6	1.7	1.3	19
20	1248.9	151.3	1.7	1.7	1262.2	221.9	3.3	0.9	1280.4	347.6	1.8	1.2	1286.7	400.5	1.7	1.3	20
21	1249.0	151.8	1.6	1.4	1262.8	225.4	2.6	0.9	1280.5	348.5	1.6	1.2	1286.8	401.4	1.7	1.3	21
22	1249.1	152.3	1.6	1.4	1263.3	228.4	2.5	1.0	1280.7	350.1	2.1	1.2	1286.8	401.4	1.5	1.3	22
23	1249.2	152.8	1.6	1.4	1263.8	231.4	2.5	1.0	1280.9	351.7	2.0	1.2	1286.9	402.2	1.5	1.3	23
24	1249.3	153.2	1.6	1.4	1265.9	244.3	7.5	1.0	1281.1	353.3	1.7	1.2	1286.9	402.2	1.5	1.3	24
25	1249.3	153.2	1.6	1.4	1267.5	254.4	6.1	1.0	1281.2	354.1	1.7	1.2	1287.0	403.1	1.5	1.3	25
26	1249.3	153.2	1.6	1.4	1268.5	260.9	4.3	1.0	1281.3	355.0	1.6	1.2	1287.1	404.0	1.5	1.3	26
27	1249.5	154.2	1.6	1.1	1269.3	266.1	3.6	1.0	1281.3	355.0	1.6	1.3	1287.1	404.0	1.5	1.3	27
28	1249.9	156.1	1.6	0.9	1269.9	270.0	3.0	1.0	1282.5	364.8	6.2	1.3	1287.2	404.9	1.5	1.3	28
29	1250.4	158.5	1.6	0.9	1270.5	274.1	3.1	1.0	1285.6	391.0	14.5	1.3	1287.3	405.8	1.4	1.3	29
30					1271.0	277.4	2.7	1.0	1286.0	394.4	4.5	2.8	1287.4	406.7	1.4	1.3	30
31					1271.4	280.2	2.4	1.0					1287.5	407.6	1.4	1.3	31
TOTAL			65.1	59.1			90.3	28.9			94.3	36.7			62.4	55.7	
Inf. Ac. Ft.			129.1				179.1				187.0				123.8	224.3	
Outf. Ac. Ft.				117.2				57.3				72.8			110.5	794.0	
Maximum Mean Daily Inflow			8.3				7.5				14.5				4.5	14.5	
Minimum Mean Daily Inflow			1.2				1.5				1.6				1.4	0.7	
Storage Change	+119				+1217				+1142				+132			+1302	

NOTE: Gage Heights and Storages as of Midnight on Day Shown % Year

Max. W. S. Elev.	1288.15	feet	on	6/10/48	Storage	413.4	Acre Feet	RECORDS COLLECTED BY			COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1239.2	feet	on	9/30/48	Storage	109.2	Acre Feet	K. A. SHIPLEY	Dam Tender		Gage Hts. copied APK	RCL	8/19/48
Max. Peak Inf.	41.1	C. F. S. from	11:00 P.M.	on	4/28/48	to	2:00 A.M.	on	4/29/48	T. E. MOON	Hydrographer		Storage applied APK	RCL	"
Max. Peak Outf.	5.2	C. F. S. from	5:00 P.M.	on	2/5/48	to	6:00 P.M.	on	2/6/48		Hydrographer		Inf. & Outf. comp. JHL	RCL	8/26/48

REMARKS { INDICATES AVERAGE FOR PERIOD OR PRORATED DAILY AMOUNTS.
NO ALLOWANCE MADE FOR PERCOLATION OR EVAPORATION

BIG SANTA ANITA (cont'd)

F. C. Dist. Form 68C Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In ~~Os~~ Santa Anita Canyon for the Year Ending September 30, 19 48

Continuous Water Stage Recorder Au

Drainage Area 10.8 Square Miles. Capacity of Reservoir 727.6 Ac. Ft. at Spillway Elev. 1,316.0 Ft. as of January, 19 48 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	1287.6	408.4	1.7	1.3	1286.6	399.6	0.9	1.3	1281.4	355.8	0.5	1.2	1268.8	262.8	0.4	2.2	1
2	1287.8	410.2	2.2	1.3	1286.5	398.8	0.8	1.3	1281.2	354.1	0.5	1.2	1268.2	258.9	0.4	2.2	2
3	1287.9	411.1	1.8	1.3	1286.3	397.0	0.7	1.3	1281.0	352.5	0.5	1.2	1267.4	253.8	0.4	2.9	3
4	1288.0	412.0	1.5	1.3	1286.1	395.3	0.7	1.3	1280.8	350.9	0.4	1.2	1266.5	248.1	0.4	3.3	4
5	1288.0	412.0	1.5	1.3	1286.0	394.4	0.6	1.3	1280.6	349.3	0.4	1.2	1265.5	241.8	0.4	3.3	5
6	1288.0	412.0	1.4	1.3	1285.8	392.7	0.6	1.3	1280.4	347.6	0.4	1.2	1264.5	235.7	0.4	3.3	6
7	1288.1	412.9	1.4	1.3	1285.7	391.8	0.6	1.3	1280.2	346.0	0.4	1.2	1263.6	230.2	0.4	3.3	7
8	1288.1	412.9	1.2	1.3	1285.5	390.1	0.5	1.3	1280.0	344.4	0.4	1.2	1262.6	224.2	0.4	3.3	8
9	1288.1	412.9	1.2	1.3	1285.4	389.2	0.5	1.3	1279.8	342.8	0.4	1.2	1261.7	219.0	0.4	3.3	9
10	1288.1	412.9	1.2	1.3	1285.2	387.5	0.5	1.3	1279.6	341.2	0.4	1.2	1260.8	213.7	0.4	3.2	10
11	1288.1	412.9	1.2	1.3	1285.0	385.8	0.5	1.3	1279.4	339.7	0.4	1.2	1259.9	208.5	0.4	3.2	11
12	1288.0	412.0	1.2	1.3	1284.8	384.1	0.5	1.3	1279.1	337.3	0.4	1.2	1258.9	202.9	0.4	3.2	12
13	1288.0	412.0	1.2	1.3	1284.6	382.4	0.5	1.3	1278.8	334.9	0.4	1.9	1257.7	196.3	0.4	3.2	13
14	1288.0	412.0	1.2	1.3	1284.4	380.7	0.5	1.3	1278.3	331.0	0.4	2.3	1256.7	190.8	0.4	3.2	14
15	1287.9	411.1	1.2	1.3	1284.2	379.0	0.5	1.2	1277.8	327.1	0.3	2.3	1255.7	185.4	0.4	3.2	15
16	1287.8	410.2	1.2	1.3	1284.1	378.2	0.5	1.2	1277.3	323.2	0.3	2.3	1254.6	179.6	0.4	3.2	16
17	1287.7	409.3	1.2	1.4	1283.9	376.5	0.5	1.2	1276.8	319.4	0.3	2.3	1253.7	175.0	0.4	3.1	17
18	1287.6	408.4	1.2	1.4	1283.7	374.8	0.5	1.2	1276.3	315.6	0.3	2.3	1252.6	169.4	0.4	3.1	18
19	1287.5	407.6	1.0	1.4	1283.5	373.1	0.5	1.2	1275.7	311.1	0.3	2.3	1251.5	163.9	0.4	3.0	19
20	1287.5	407.6	1.0	1.4	1283.3	371.4	0.5	1.2	1275.2	307.3	0.3	2.3	1250.5	159.0	0.4	3.0	20
21	1287.4	406.7	1.0	1.4	1283.2	370.6	0.5	1.2	1274.7	303.6	0.3	2.3	1249.3	153.2	0.4	3.0	21
22	1287.3	405.8	1.0	1.4	1283.1	369.7	0.5	1.2	1274.1	299.2	0.3	2.3	1248.3	148.5	0.4	2.9	22
23	1287.3	405.8	1.0	1.4	1282.9	368.1	0.5	1.2	1273.7	296.3	0.3	2.3	1247.3	143.9	0.4	2.9	23
24	1287.2	404.9	1.0	1.4	1282.7	366.4	0.5	1.2	1273.1	292.0	0.3	2.3	1246.1	138.5	0.4	3.0	24
25	1287.2	404.9	1.0	1.4	1282.6	365.6	0.5	1.2	1272.6	288.5	0.3	2.2	1245.0	133.6	0.4	2.9	25
26	1287.1	404.0	1.0	1.4	1282.4	364.0	0.5	1.2	1272.0	284.3	0.3	2.2	1243.9	128.8	0.3	2.9	26
27	1287.0	403.1	1.0	1.3	1282.2	362.3	0.5	1.2	1271.5	280.9	0.3	2.2	1242.6	123.2	0.3	2.9	27
28	1286.9	402.2	0.9	1.3	1282.0	360.7	0.5	1.2	1271.0	277.4	0.3	2.2	1241.4	118.2	0.3	2.8	28
29	1286.8	401.4	0.9	1.3	1281.9	359.9	0.5	1.2	1270.5	274.1	0.3	2.2	1240.3	113.6	0.3	2.8	29
30	1286.7	400.5	0.9	1.3	1281.7	358.2	0.5	1.2	1269.9	270.0	0.3	2.2	1239.2	109.2	0.3	2.8	30
31					1281.6	357.4	0.5	1.2	1269.3	266.1	0.3	2.2					31
TOTAL			36.4	40.0			16.9	38.6			11.0	57.0			11.5	90.6	
Inf. Ac. Ft.			72.2				33.5				21.8				22.8	107.6	
Outf. Ac. Ft.				79.3				76.6				113.1			179.7	124.2.7	
Maximum Mean Daily Inflow			2.2				0.9				0.5				0.4	14.5	
Minimum Mean Daily Inflow			0.9				0.5				0.3				0.3	0.3	
Storage Change		-7.1				-43.1				+91.3				-156.9		-168.2	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — Yearly Totals

Max. W. S. Elev.	1288.15	feet	on	6/10/48	Storage	413.4	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1239.2	feet	on	9/30/48	Storage	109.2	Acre Feet	K. A. SHIPLEY	Dam Tender	Gage Hts. copied	RCL JHL	10/12/48
Max. Peak Inf.	41.1	C. F. S. from	11:00 P.M.	on	4/28/48	to	2:00 A.M.	on	4/29/48	T. E. MOON	Hydrographer	Storage applied	RCL JHL	10/12/48
Max. Peak Outf.	5.2	C. F. S. from	5:00 P.M.	on	2/5/48	to	6:00 P.M.	on	2/5/48		Hydrographer	Inf. & Outf. comp.	RCL JHL	10/12/48

REMARKS: (INDICATES AVERAGE FOR PERIOD OR PRORATED DAILY AMOUNTS.
NO ALLOWANCE MADE FOR PERCOLATION OR EVAPORATION

F. C. Dist. Form 68A Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In ~~Os~~ Santa Anita Canyon for the Year Ending September 30, 19 49

Continuous Water Stage Recorder Au

Drainage Area 10.8 Square Miles. Capacity of Reservoir 727.6 Ac. Ft. at Spillway Elev. 1316.0 Ft. as of January, 19 47 Survey 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	1238.0	104.4	0.3	2.7	1229.3	72.2	0.5	0.7	1227.4	65.8	0.5	0.7	1234.2	89.7	1.4	0.5	1
2	1236.9	100.0	0.4	2.7	1229.2	71.8	0.5	0.7	1227.3	65.5	0.5	0.7	1234.6	91.2	1.3	0.5	2
3	1235.7	95.4	0.4	2.6	1229.1	71.5	0.5	0.7	1227.2	65.2	0.5	0.6	1235.0	92.7	1.2	0.5	3
4	1234.5	90.8	0.4	2.6	1229.0	71.1	0.5	0.7	1227.2	65.2	0.5	0.5	1235.3	93.8	1.2	0.5	4
5	1233.4	86.7	0.4	2.6	1228.9	70.8	0.5	0.7	1227.2	65.2	0.5	0.5	1235.7	95.4	1.2	0.5	5
6	1232.6	83.6	0.4	1.7	1228.8	70.4	0.5	0.7	1227.3	65.5	0.6	0.5	1236.1	96.9	1.2	0.5	6
7	1232.3	82.7	0.4	0.8	1228.7	70.1	0.6	0.7	1227.3	65.5	0.6	0.5	1236.4	98.1	1.1	0.5	7
8	1232.2	82.3	0.5	0.8	1228.7	70.1	0.6	0.7	1227.3	65.5	0.6	0.5	1236.7	99.2	1.1	0.5	8
9	1232.1	82.0	0.5	0.8	1228.7	70.1	0.6	0.6	1227.4	65.8	0.6	0.5	1237.0	100.4	1.2	0.5	9
10	1232.0	81.6	0.5	0.8	1228.6	69.8	0.5	0.5	1227.5	66.2	0.6	0.5	1237.3	101.6	1.1	0.5	10
11	1231.9	81.3	0.5	0.8	1228.6	69.8	0.5	0.5	1227.6	66.5	0.6	0.5	1237.7	103.2	1.3	0.5	11
12	1231.8	80.9	0.5	0.8	1228.6	69.8	0.5	0.5	1227.7	66.8	0.6	0.5	1238.0	104.4	1.1	0.5	12
13	1231.6	80.2	0.6	0.8	1228.6	69.8	0.5	0.5	1227.8	67.1	0.7	0.5	1238.5	106.4	1.5	0.5	13
14	1231.5	79.9	0.6	0.8	1228.6	69.8	0.5	0.5	1227.9	67.5	0.7	0.5	1239.1	108.8	1.7	0.5	14
15	1231.3	79.2	0.6	0.8	1228.6	69.8	0.5	0.5	1228.0	67.8	0.7	0.5	1239.9	112.0	2.1	0.5	15
16	1231.1	78.5	0.5	0.8	1228.6	69.8	0.5	0.5	1228.1	68.1	0.8	0.5	1240.5	114.5	1.8	0.5	16
17	1231.0	78.1	0.5	0.7	1228.4	69.1	0.5	1.0	1228.3	68.8	0.8	0.5	1241.1	116.9	1.7	0.5	17
18	1230.9	77.8	0.5	0.7	1228.0	67.8	0.5	1.2	1228.5	69.5	0.8	0.5	1241.6	119.0	1.5	0.5	18
19	1230.8	77.4	0.5	0.7	1227.5	66.2	0.5	1.2	1228.7	70.1	0.8	0.5	1242.1	121.1	1.6	0.5	19
20	1230.7	77.1	0.5	0.7	1227.4	65.8	0.6	0.7	1228.9	70.8	0.8	0.5	1247.5	144.8	17.4	5.5	20
21	1230.6	76.7	0.5	0.7	1227.4	65.8	0.6	0.5	1229.2	71.8	1.0	0.5	1245.6	136.2	6.1	10.4	21
22	1230.4	76.0	0.5	0.7	1227.4	65.8	0.6	0.5	1229.6	73.2	1.2	0.5	1243.4	126.6	5.6	10.4	22
23	1230.3	75.7	0.5	0.7	1227.4	65.8	0.5	0.5	1230.0	74.6	1.2	0.5	1242.5	122.8	5.7	7.7	23
24	1230.1	75.0	0.5	0.7	1227.5	66.2	0.5	0.5	1230.2	75.3	0.9	0.5	1242.0	120.7	3.9	4.9	24
25	1229.9	74.3	0.4	0.7	1227.5	66.2	0.5	0.5	1230.5	76.4	1.0	0.5	1241.9	120.3	3.6	3.8	25
26	1229.8	73.9	0.5	0.7	1227.5	66.2	0.5	0.5	1231.0	78.1	1.4	0.5	1242.0	120.7	3.1	2.9	26
27	1229.7	73.6	0.5	0.7	1227.5	66.2	0.5	0.5	1231.4	79.5	1.2	0.5	1242.0	120.7	2.7	2.7	27
28	1229.6	73.2	0.5	0.7	1227.5	66.2	0.5	0.5	1231.9	81.3	1.4	0.5	1241.8	119.9	2.5	2.9	28
29	1229.5	72.9	0.5	0.7	1227.6	66.5	0.6	0.5	1232.6	83.8	1.8	0.5	1241.5	118.6	2.3	2.9	29
30	1229.5	72.9	0.5	0.7	1227.5	66.2	0.5	0.6	1233.2	85.9	1.5	0.5	1241.2	117.3	2.2	2.9	30
31	1229.4	72.5	0.5	0.7					1233.7	87.8	1.5	0.5	1240.6	115.7	2.1	2.9	31
TOTAL			14.9	33.4			15.7	18.9			26.9	16.0			83.5	69.4	
Inf. Ac. Ft.			29.6				31.1				53.4				165.6	279.7	
Outf. Ac. Ft.				66.2				37.5				31.7			137.7	273.1	
Maximum Mean Daily Inflow			0.6				0.6				1.8				17.4	17.4	
Minimum Mean Daily Inflow			0.3				0.5				0.5				1.1	0.3	
Storage Change		-36.7				-6.3				+21.6				+27.9		+6.5	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — ½ Year

Max. W. S. Elev.	1280.4	feet	on	6/2, 3/49	Storage	347.6	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1227.2	feet	on	12/3, 4/48	Storage	65.2	Acre Feet	K. A. SHIPLEY	Dam Tender	Gage Hts. copied	JHL EAD	3/22/49
Max. Peak Inf.	32.0	C. F. S. from	0800	on	1/20/49	to	1000	on	1/20/49	T. E. MOON	Hydrographer	Storage applied	JHL EAD	3/22/49
Max. Peak Outf.	10.4	C. F. S. from	1200	on	1/20/49	to	1230	on	1/23/49		Hydrographer	Inf. & Outf. comp.	JHL EAD	3/22/49

REMARKS: (INDICATES AVERAGE FOR PERIOD
NO ALLOWANCE MADE FOR EVAPORATION OR PERCOLATION.
OUTFLOW FROM STATION F 119-R

BIG SANTA ANITA (cont'd)

F. C. Dist. Form 68B Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In Santa Anita Canyon for the Year Ending September 30, 1949

Continuous Water Stage Recorder Au

Drainage Area 10.8 Square Miles. Capacity of Reservoir 727.6 Ac. Ft. at Spillway Elev. 1316.0 Ft. as of January 1947 Survey 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	1240.6	114.9	2.0	2.3	1256.1	187.5	4.9	2.0	1274.1	299.2	2.3	1.6	1277.2	322.4	1.4	1.3	1
2	1240.7	115.3	2.0	1.8	1257.0	192.4	4.5	2.0	1274.3	300.7	2.3	1.6	1277.2	322.4	1.4	1.3	2
3	1240.8	115.7	2.0	1.8	1257.9	197.4	4.5	2.0	1274.5	302.2	2.3	1.6	1277.3	323.2	1.4	1.3	3
4	1240.9	116.1	2.0	1.8	1259.2	204.6	5.6	2.0	1274.7	303.6	2.3	1.6	1277.3	323.2	1.3	1.3	4
5	1241.0	116.5	1.9	1.8	1260.6	212.6	6.1	2.0	1274.8	304.3	2.2	1.7	1277.4	324.0	1.3	1.3	5
6	1241.0	116.5	1.8	1.8	1261.5	217.8	4.6	2.0	1274.9	305.1	2.1	1.7	1277.4	324.0	1.3	1.3	6
7	1241.3	117.8	2.5	1.8	1262.4	223.1	4.7	2.0	1275.0	305.8	2.1	1.7	1277.3	323.2	1.3	1.3	7
8	1241.5	118.6	2.2	1.8	1263.2	227.8	4.3	2.0	1275.1	306.6	2.1	1.7	1277.3	323.2	1.3	1.3	8
9	1241.6	119.0	2.0	1.8	1263.8	231.4	3.9	2.0	1275.2	307.3	2.1	1.7	1277.2	322.4	1.3	1.3	9
10	1241.7	119.4	2.0	1.8	1264.4	235.0	3.9	2.1	1275.3	308.1	2.0	1.7	1277.2	322.4	1.3	1.2	10
11	1242.5	122.8	3.5	1.8	1266.2	246.2	7.7	2.1	1275.3	308.1	1.9	1.7	1277.1	321.7	1.3	1.2	11
12	1243.8	128.3	4.7	1.9	1267.2	252.5	5.3	2.1	1275.4	308.8	1.9	1.7	1277.2	322.4	1.3	1.3	12
13	1244.5	131.4	3.4	1.9	1268.0	257.6	4.7	2.1	1275.4	308.8	1.9	1.7	1277.2	322.4	1.2	1.3	13
14	1245.0	133.6	3.1	2.0	1268.7	262.2	4.4	2.1	1275.5	309.6	1.9	1.5	1277.2	322.4	1.3	1.3	14
15	1245.5	135.8	3.1	2.0	1269.3	266.1	4.1	2.1	1275.7	311.1	1.8	1.3	1277.3	323.2	1.7	1.3	15
16	1245.8	137.1	2.7	2.0	1269.7	268.7	3.4	2.1	1275.8	311.8	1.9	1.3	1277.4	324.0	1.7	1.3	16
17	1246.0	138.0	2.4	2.0	1270.1	271.4	3.4	2.1	1276.0	313.3	1.9	1.3	1277.5	324.8	1.7	1.3	17
18	1246.2	138.9	2.4	2.0	1270.4	273.4	3.1	2.1	1276.1	314.1	1.9	1.3	1277.9	327.8	2.8	1.3	18
19	1246.4	139.8	2.4	2.0	1270.9	276.7	3.8	2.1	1276.3	315.6	1.9	1.3	1278.8	334.9	4.9	1.3	19
20	1246.5	140.3	2.4	2.0	1271.3	279.5	3.5	2.1	1276.5	317.1	1.9	1.3	1279.3	338.9	3.3	1.3	20
21	1246.7	141.2	2.4	2.0	1271.7	282.2	3.5	2.1	1276.6	317.9	1.6	1.3	1279.6	341.2	2.5	1.3	21
22	1246.9	142.1	2.4	2.0	1271.9	283.6	2.8	2.1	1276.7	318.6	1.5	1.3	1279.9	343.6	2.4	1.3	22
23	1247.0	142.5	2.3	2.0	1272.1	285.0	2.6	2.1	1276.7	318.6	1.5	1.3	1280.0	344.4	1.6	1.3	23
24	1247.8	146.2	3.9	2.0	1272.3	286.4	2.8	2.1	1276.8	319.4	1.5	1.3	1280.0	344.4	1.6	1.3	24
25	1249.2	152.8	5.3	2.0	1272.6	288.5	3.2	2.2	1276.8	319.4	1.5	1.2	1280.1	345.2	1.5	1.3	25
26	1250.9	160.9	6.1	2.0	1272.8	289.9	3.0	2.2	1276.9	320.1	1.5	1.0	1280.1	345.2	1.5	1.3	26
27	1253.5	174.0	8.6	2.0	1272.9	290.6	2.5	2.2	1277.0	320.9	1.5	1.3	1280.1	345.2	1.5	1.3	27
28	1255.0	181.7	5.9	2.0	1273.1	292.0	2.4	1.7	1277.0	320.9	1.5	1.3	1280.2	346.0	1.5	1.3	28
29					1273.3	293.5	2.4	1.6	1277.1	321.7	1.4	1.3	1280.2	346.0	1.4	1.3	29
30					1273.6	295.6	2.6	1.6	1277.1	321.7	1.4	1.3	1280.3	346.8	1.4	1.3	30
31					1273.9	297.8	2.7	1.6					1280.3	346.8	1.4	1.3	31
TOTAL			87.4	54.1			121.1	62.6			55.6	43.6			52.8	40.1	
Inf. Ac. Ft.			173.4				240.2				110.3				104.7	90.8.3	
Outf. Ac. Ft.				107.3				124.2				86.5			79.5	67.0.6	
Maximum Mean Daily Inflow			8.6				7.7				2.3				4.9	17.4	
Minimum Mean Daily Inflow			1.8				2.4				1.4				1.2	0.3	
Storage Change			+66.0				+116.1				+23.9				+25.1	+237.6	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — % Year

Max. W. S. Elev.	1280.4	feet	on	6/2, 3/49	Storage	347.6	Acre Feet			
Min. W. S. Elev.	1227.2	feet	on	12/3, 4/48	Storage	65.2	Acre Feet			
Max. Peak Inf.	32.0	C.F.S. from	0800	on	1/20/49	to	1000	on	1/20/49	
Max. Peak Outf.	10.4	C.F.S. from	1200	on	1/20/49	to	1230	on	1/23/49	

REMARKS { INDICATES AVERAGE FOR PERIOD.
NO ALLOWANCE MADE FOR EVAPORATION OR PERCOLATION.
OUTFLOW FROM STATION F 119-R

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
K. A. SHIPLEY	Dam Tender	Gage Hts. copied	JHL CJR	10/7/49
T. E. MOON	Hydrographer	Storage applied	JHL CJR	10/7/49
	Hydrographer	Inf. & Outf. comp.	JHL CJR	10/7/49

F. C. Dist. Form 68C Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In Santa Anita Canyon for the Year Ending September 30, 1949

Continuous Water Stage Recorder Au

Drainage Area 10.8 Square Miles. Capacity of Reservoir 727.6 Ac. Ft. at Spillway Elev. 1316.0 Ft. as of January 1947 Survey 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	1280.3	346.8	1.3	1.3	1276.9	320.1	0.7	1.3	1270.1	271.4	0.4	1.3	1260.8	213.7	0.3	1.3	1
2	1280.3	346.8	1.2	1.3	1276.8	319.4	0.7	1.3	1269.8	269.4	0.4	1.3	1260.4	211.4	0.3	1.3	2
3	1280.3	346.8	1.2	1.3	1276.6	317.9	0.7	1.3	1269.5	267.4	0.4	1.3	1260.1	209.7	0.3	1.3	3
4	1280.2	346.0	1.2	1.3	1276.4	316.3	0.6	1.3	1269.2	265.4	0.4	1.3	1259.7	207.4	0.3	1.3	4
5	1280.2	346.0	1.2	1.3	1276.2	314.8	0.6	1.3	1268.9	263.5	0.4	1.3	1259.4	205.7	0.3	1.3	5
6	1280.1	345.2	0.9	1.3	1276.1	314.1	0.6	1.3	1268.6	261.5	0.4	1.3	1259.0	203.5	0.3	1.3	6
7	1280.0	344.4	0.9	1.3	1275.9	312.6	0.6	1.3	1268.4	260.2	0.4	1.3	1258.7	201.8	0.3	1.3	7
8	1279.9	343.6	0.9	1.3	1275.7	311.1	0.6	1.3	1268.1	258.3	0.4	1.3	1258.3	199.6	0.3	1.3	8
9	1279.8	342.8	0.9	1.3	1275.5	309.6	0.6	1.3	1267.8	256.3	0.4	1.3	1258.0	197.9	0.3	1.3	9
10	1279.7	342.0	0.9	1.3	1275.3	308.1	0.6	1.3	1267.2	254.4	0.4	1.3	1257.6	195.7	0.3	1.3	10
11	1279.6	341.2	0.9	1.3	1275.1	306.6	0.6	1.3	1267.2	252.5	0.4	1.3	1257.2	193.5	0.3	1.3	11
12	1279.5	340.5	0.9	1.3	1274.9	305.1	0.5	1.3	1266.9	250.6	0.4	1.3	1256.8	191.3	0.3	1.3	12
13	1279.4	339.7	0.9	1.3	1274.7	303.6	0.5	1.3	1266.6	248.7	0.4	1.3	1256.4	189.2	0.3	1.3	13
14	1279.3	338.9	0.9	1.3	1274.5	302.2	0.5	1.3	1266.3	246.8	0.4	1.3	1256.0	187.0	0.3	1.3	14
15	1279.2	338.1	0.9	1.3	1274.3	300.7	0.5	1.3	1266.0	244.9	0.4	1.3	1255.7	185.4	0.3	1.3	15
16	1279.1	337.3	0.8	1.3	1274.1	299.2	0.5	1.3	1265.7	243.0	0.4	1.3	1255.4	183.8	0.3	1.3	16
17	1279.0	336.5	0.8	1.3	1273.9	297.8	0.5	1.3	1265.5	241.8	0.4	1.3	1255.0	181.7	0.3	1.3	17
18	1278.8	334.9	0.8	1.3	1273.6	295.6	0.5	1.3	1265.2	239.9	0.4	1.3	1254.6	179.6	0.3	1.3	18
19	1278.6	333.3	0.8	1.3	1273.4	294.2	0.4	1.3	1264.9	238.1	0.4	1.3	1254.3	178.1	0.3	1.3	19
20	1278.5	332.6	0.8	1.3	1273.2	292.7	0.4	1.3	1264.6	236.3	0.4	1.3	1253.9	176.0	0.3	1.3	20
21	1278.4	331.8	0.8	1.3	1272.9	290.6	0.4	1.3	1264.3	234.4	0.4	1.3	1253.6	174.5	0.3	1.2	21
22	1278.3	331.0	0.8	1.3	1272.7	289.2	0.4	1.3	1264.0	232.6	0.4	1.3	1253.2	172.4	0.3	1.2	22
23	1278.1	329.4	0.7	1.3	1272.4	287.1	0.4	1.3	1263.7	230.8	0.3	1.3	1252.9	170.9	0.3	1.2	23
24	1277.9	327.8	0.7	1.3	1272.2	285.7	0.4	1.3	1263.3	228.4	0.3	1.3	1252.5	168.9	0.3	1.2	24
25	1277.8	327.1	0.7	1.3	1271.9	283.6	0.4	1.3	1263.0	226.6	0.3	1.3	1252.1	166.9	0.3	1.2	25
26	1277.6	325.5	0.7	1.3	1271.6	281.5	0.4	1.3	1262.7	224.8	0.3	1.3	1251.7	164.9	0.3	1.2	26
27	1277.5	324.8	0.7	1.3	1271.4	280.2	0.4	1.3	1262.4	223.1	0.3	1.3	1251.3	162.9	0.2	1.2	27
28	1277.4	324.0	0.7	1.3	1271.1	278.1	0.4	1.3	1262.1	221.3	0.3	1.3	1250.9	160.9	0.2	1.2	28
29	1277.2	322.4	0.7	1.3	1270.8	276.1	0.4	1.3	1261.7	219.0	0.3	1.3	1250.5	159.0	0.2	1.2	29
30	1277.1	321.7	0.7	1.3	1270.6	274.7	0.4	1.3	1261.4	217.2	0.3	1.3	1250.1	157.1	0.2	1.2	30
31					1270.3	272.7	0.4	1.3	1261.1	215.5	0.3	1.3					31
TOTAL			26.3	39.0			15.6	40.3			11.5	40.3			8.6	38.0	
Inf. Ac. Ft.			52.2				30.9				22.8				17.1	103.1.3	
Outf. Ac. Ft.				77.4				79.9				79.9			75.4	983.2	
Maximum Mean Daily Inflow			1.3				0.7				0.4				0.3	17.4	
Minimum Mean Daily Inflow			0.7				0.4				0.3				0.2	0.2	
Storage Change			-25.1				-49.0				-57.2				-58.4	+479	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — Yearly Totals

Max. W. S. Elev.	1280.4	feet	on	6/2, 3/49	Storage	347.6	Acre Feet			
Min. W. S. Elev.	1227.2	feet	on	12/3, 4/49	Storage	65.2	Acre Feet			
Max. Peak Inf.	32.0	C.F.S. from	0800	on	1/20/49	to	1000	on	1/20/49	
Max. Peak Outf.	10.4	C.F.S. from	1200	on	1/20/49	to	1230	on	1/23/49	

REMARKS { INDICATES AVERAGE FOR PERIOD
NO ALLOWANCE MADE FOR EVAPORATION OR PERCOLATION
OUTFLOW FROM STATION F 119-R

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
K. A. SHIPLEY	Dam Tender	Gage Hts. copied	APK CJR	11/4/49
T. E. MOON	Hydrographer	Storage applied	APK CJR	11/4/49
	Hydrographer	Inf. & Outf. comp.	APK CJR	11/4/49

SAWPIT

F. C. Dist. Form 68A Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAWPIT Dam

In ~~Dn~~ Sawpit Canyon for the Year Ending September 30, 1948

Continuous Water Stage Recorder Au

Drainage Area 3.3 Square Miles. Capacity of Reservoir 321.8 Ac. Ft. at Spillway Elev. 1,360.0 Ft. as of December, 1948 Survey 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	1303.3	466	0	0	1303.0	459	0	0	1302.8	454	0	0	1302.9	457		0	1
2	1303.3	466	0	0	1303.0	459	0	0	1302.8	454	0	0	1302.9	457		0	2
3	1303.3	466	0	0	1303.0	459	0	0	1302.8	454	0	0	1302.9	457		0	3
4	1303.3	466	0	0	1303.0	459	0	0	1302.9	457	(0.1	0	1302.9	457		0	4
5	1303.3	466	0	0	1303.0	459	0	0	1303.0	459	0.2)	0	1302.9	457		0	5
6	1303.3	466	0	0	1303.0	459	0	0	1303.0	459		0	1302.9	457		0	6
7	1303.3	466	0	0	1303.0	459	0	0	1303.0	459		0	1302.9	457		0	7
8	1303.2	464	0	0	1303.0	459	0	0	1303.0	459		0	1302.9	457		0	8
9	1303.2	464	0	0	1303.0	459	0	0	1303.0	459		0	1302.9	457		0	9
10	1303.2	464	0	0	1302.9	457	0	0	1303.0	459		0	1302.9	457		0	10
11	1303.2	464	0	0	1302.9	457	0	0	1303.0	459		0	1302.9	457		0	11
12	1303.2	464	0	0	1302.9	457	0	0	1303.0	459		0	1302.9	457		0	12
13	1303.2	464	0	0	1302.9	457	0	0	1303.0	459		0	1302.9	457		0	13
14	1303.2	464	0	0	1302.9	457	0	0	1303.0	459		0	1302.9	457		0	14
15	1303.2	464	0	0	1302.9	457	0	0	1303.0	459		0	1302.9	457		0	15
16	1303.2	464	0	0	1302.9	457	0	0	1303.0	459		0	1302.9	457		0	16
17	1303.2	464	0	0	1302.9	457	0	0	1303.0	459		0	1303.0	459		0	17
18	1303.2	464	0	0	1302.9	457	0	0	1303.0	459		0	1303.0	459		0	18
19	1303.2	464	0	0	1302.9	457	0	0	1303.0	459		0	1303.0	459		0	19
20	1303.2	464	0	0	1302.9	457	0	0	1303.0	459		0	1303.0	459		0	20
21	1303.1	461	0	0	1302.9	457	0	0	1302.9	457		0	1303.0	459		0	21
22	1303.1	461	0	0	1302.8	454	0	0	1302.9	457		0	1303.0	459		0	22
23	1303.1	461	0	0	1302.8	454	0	0	1302.9	457		0	1303.0	459		0	23
24	1303.1	461	0	0	1302.8	454	0	0	1302.9	457		0	1303.1	461		0	24
25	1303.1	461	0	0	1302.8	454	0	0	1302.9	457		0	1303.1	461		0	25
26	1303.1	461	0	0	1302.8	454	0	0	1302.9	457		0	1303.1	461		0	26
27	1303.1	461	0	0	1302.8	454	0	0	1302.9	457		0	1303.1	461		0	27
28	1303.1	461	0	0	1302.8	454	0	0	1302.9	457		0	1303.1	461		0	28
29	1303.1	461	0	0	1302.8	454	0	0	1302.9	457		0	1303.2	464		0	29
30	1303.1	461	0	0	1302.8	454	0	0	1302.9	457		0	1303.2	464		0	30
31	1303.0	459	0	0					1302.9	457		0	1303.2	464		0	31
TOTAL			0	0			0	0			0.3	0			0.3	0	
Inf. Ac. Ft.			0				0				0.6				0.6	1.2	
Outf. Ac. Ft.			0	+ (0.7)			0	+ (0.5)			0	+ (0.3)			0	0 + (1.5)	
Maximum Mean Daily Inflow			0				0				0.2					0.2	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		-0.7				-0.5				+0.3				+0.7		-0.2	

Negligible less than 0.05 c.f.s.

NOTE: Gage Heights and Storages as of Midnight on Day Shown

½ Year

Max. W. S. Elev.	1309.95	feet	on	PART OF YEAR	Storage	62.6	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1302.80	feet	on	12/2/47	Storage	45.4	Acre Feet	R. E. WADDICOR	Dam Tender	Gage Hts. copied APK	DB	6/25/48
Max. Peak Inf.	2.9	C. F. S. from	8:00 P.M.	on	4/28/48	to	9:00 P.M.	on	4/28/48	T. E. MOON	Hydrographer	Storage applied APK	DB	6/25/48
Max. Peak Outf.	0.1	C. F. S. ~~0000~~		on	5/14/48	to	6/2/48	~~XX~~			Hydrographer	Inf. & Outf. comp. APK	RCL	9/7/48

REMARKS ( ) INDICATES AVERAGE FOR PERIOD

( ) INDICATES EVAPORATION AND LEAKAGE LOSSES

F. C. Dist. Form 68B Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAWPIT Dam

In ~~Dn~~ Sawpit Canyon for the Year Ending September 30, 1948

Continuous Water Stage Recorder Au

Drainage Area 3.3 Square Miles. Capacity of Reservoir 321.8 Ac. Ft. at Spillway Elev. 1,360.0 Ft. as of December, 1943 Survey 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	1303.2	464	(0.02	0	1304.2	487	0.04)	0	1305.9	527	(0.1	0	1309.1	605	(0.09	0	1
2	1303.3	466	0.02	0	1304.2	487	0.04	0	1306.0	529	0.2	0	1309.1	605	0.09	0	2
3	1303.3	466	0.02	0	1304.2	487	0.04	0	1306.2	534	0.2	0	1309.2	607	0.09	0	3
4	1303.3	466	0.02	0	1304.3	489	0.04	0	1306.3	536	0.2	0	1309.3	610	0.09	0	4
5	1303.5	471	0.3	0	1304.3	489	0.04	0	1306.4	539	0.1)	0	1309.4	612	0.09	0	5
6	1303.5	471	0.02	0	1304.3	489	0.05	0	1306.5	541	0.2	0	1309.4	612	0.09	0	6
7	1303.5	471	0.02	0	1304.4	491	0.05	0	1306.6	543	0.1	0	1309.5	615	0.09	0	7
8	1303.6	473	0.02	0	1304.4	491	0.05	0	1306.7	546	0.1	0	1309.6	617	0.09	0	8
9	1303.6	473	0.02	0	1304.4	491	0.05	0	1306.8	548	0.1	0	1309.7	620	0.09	0	9
10	1303.6	473	0.02	0	1304.5	494	0.05	0	1307.0	553	0.3	0	1309.7	620	0.09	0	10
11	1303.6	473	0.02	0	1304.5	494	0.05	0	1307.1	555	0.2	0	1309.8	622	0.1	0	11
12	1303.6	473	0.02	0	1304.5	494	0.05	0	1307.3	560	0.1	0	1309.9	625	0.1	0	12
13	1303.7	475	0.02	0	1304.7	498	0.2	0	1307.4	563	0.1	0	1309.9	625	0.1	0	13
14	1303.7	475	0.02	0	1304.8	500	0.05	0	1307.5	565	0.1	0	1309.9	625	0.1	0.1	14
15	1303.7	475	0.02	0	1304.8	500	0.05	0	1307.6	567	0.1	0	1309.9	625	0.1	0.1	15
16	1303.8	477	0.03	0	1304.9	503	0.05	0	1307.7	570	0.1	0	1309.9	625	0.1	0.1	16
17	1303.8	477	0.03	0	1304.9	503	0.05	0	1307.8	572	0.1	0	1309.9	625	0.1	0.1	17
18	1303.8	477	0.03	0	1305.0	505	0.05	0	1307.9	575	0.1	0	1309.9	625	0.1	0.1	18
19	1303.9	480	0.03	0	1305.0	505	0.05	0	1308.0	577	0.1	0	1309.9	625	0.1	0.1	19
20	1303.9	480	0.03	0	1305.1	507	0.05	0	1308.1	580	0.1	0	1309.9	625	0.1	0.1	20
21	1303.9	480	0.03	0	1305.1	507	0.06	0	1308.2	582	0.1	0	1309.9	625	0.1	0.1	21
22	1304.0	482	0.03	0	1305.2	510	0.06	0	1308.3	585	0.2	0	1309.9	625	0.1	0.1	22
23	1304.0	482	0.03	0	1305.2	510	0.06	0	1308.4	587	0.1	0	1309.9	625	0.1	0.1	23
24	1304.0	482	0.03	0	1305.4	515	0.3	0	1308.5	590	0.1	0	1309.9	625	0.1	0.1	24
25	1304.0	482	0.03	0	1305.4	515	0.06	0	1308.6	592	0.1	0	1309.9	625	0.1	0.1	25
26	1304.0	482	0.03	0	1305.4	515	0.06	0	1308.6	592	0.1	0	1309.9	625	0.1	0.1	26
27	1304.1	484	0.03	0	1305.5	517	0.06	0	1308.7	595	0.1	0	1309.9	625	0.1	0.1	27
28	1304.1	484	0.03	0	1305.5	517	0.06	0	1308.9	600	0.2	0	1309.9	625	0.1	0.1	28
29	1304.1	484	0.03	0	1305.6	519	0.06	0	1308.9	600	0.1	0	1309.9	625	0.1	0.1	29
30					1305.7	522	0.06	0	1309.0	602	0.1	0	1309.9	625	0.1	0.1	30
31					1305.8	524	0.06	0					1309.9	625	0.1	0.1	31
TOTAL			1.0	0			2.0	0			3.9	0			3.0	1.8	
Inf. Ac. Ft.			2.0				4.0				7.7				6.0	2.9	
Outf. Ac. Ft.				0				0				0			3.6	3.6 + (1.5)	
Maximum Mean Daily Inflow			0.3				0.3				0.3				0.1	0.3	
Minimum Mean Daily Inflow			0.02				0.04				0.1				0.09	0	
Storage Change		+2.0				+4.0				+7.8				+2.3		+1.5	9

NOTE: Gage Heights and Storages as of Midnight on Day Shown

½ Year

Max. W. S. Elev.	1309.95	feet	on	PART OF YEAR	Storage	62.6	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1302.80	feet	on	12/2/47	Storage	45.4	Acre Feet	R. E. WADDICOR	Dam Tender	Gage Hts. copied RCL	DB	9/14/48
Max. Peak Inf.	2.9	C. F. S. from	8:00 P.M.	on	4/28/48	to	9:00 P.M.	on	4/28/48	T. E. MOON	Hydrographer	Storage applied RCL	DB	
Max. Peak Outf.	0.1	C. F. S. ~~0000~~		on	5/14/48	to	~~XX~~	6/2/48			Hydrographer	Inf. & Outf. comp. RCL	DB	9/15/48

REMARKS ( ) INDICATES AVERAGE FOR PERIOD

( ) INDICATES AVERAGE MONTHLY EVAPORATION AND LEAKAGE LOSSES

SAWPIT (cont'd)

F. C. Dist. Form 88C Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAWPIT Dam

In Sawpit Canyon for the Year Ending September 30, 1948

Continuous Water Stage Recorder Au

Drainage Area 3.3 Square Miles. Capacity of Reservoir 321.8 Ac. Ft. at Spillway Elev. 1,360.0 Ft. as of December 1943 Survey 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	1309.9	625	0.1	(0.1	1309.9	625	0	0	1309.4	612	0	0	1308.8	597	0	0	1
2	1309.9	625	0.1	0.1	1309.9	625	0	0	1309.4	612	0	0	1308.8	597	0	0	2
3	1309.9	625	0.1	0.05	1309.9	625	0	0	1309.4	612	0	0	1308.8	597	0	0	3
4	1309.9	625	0.1	0.05	1309.9	625	0	0	1309.4	612	0	0	1308.7	595	0	0	4
5	1309.9	625	0.1	0.05	1309.9	625	0	0	1309.4	612	0	0	1308.7	595	0	0	5
6	1309.9	625	0.1	0.05	1309.9	625	0	0	1309.3	610	0	0	1308.7	595	0	0	6
7	1309.9	625	0.1	0.05	1309.9	625	0	0	1309.3	610	0	0	1308.7	595	0	0	7
8	1309.9	625	0.1	0.05	1309.8	622	0	0	1309.3	610	0	0	1308.7	595	0	0	8
9	1309.9	625	0.1	0.05	1309.8	622	0	0	1309.3	610	0	0	1308.7	595	0	0	9
10	1309.9	625	0.1	0.05	1309.8	622	0	0	1309.3	610	0	0	1308.6	592	0	0	10
11	1309.9	625	0.05	0.05	1309.8	622	0	0	1309.2	607	0	0	1308.6	592	0	0	11
12	1309.9	625	0.05	0.05	1309.8	622	0	0	1309.2	607	0	0	1308.6	592	0	0	12
13	1309.9	625	0.05	(0.05	1309.7	620	0	0	1309.2	607	0	0	1308.6	592	0	0	13
14	1309.9	625		0	1309.7	620	0	0	1309.2	607	0	0	1308.5	590	0	0	14
15	1309.9	625		0	1309.7	620	0	0	1309.2	607	0	0	1308.5	590	0	0	15
16	1309.9	625		0	1309.7	620	0	0	1309.1	605	0	0	1308.5	590	0	0	16
17	1309.9	625		0	1309.7	620	0	0	1309.1	605	0	0	1308.5	590	0	0	17
18	1309.9	625		0	1309.7	620	0	0	1309.1	605	0	0	1308.4	587	0	0	18
19	1309.9	625		0	1309.7	620	0	0	1309.1	605	0	0	1308.4	587	0	0	19
20	1309.9	625		0	1309.7	620	0	0	1309.1	605	0	0	1308.4	587	0	0	20
21	1309.9	625		0	1309.7	620	0	0	1309.0	602	0	0	1308.4	587	0	0	21
22	1309.9	625		0	1309.6	617	0	0	1309.0	602	0	0	1308.4	587	0	0	22
23	1309.9	625		0	1309.6	617	0	0	1309.0	602	0	0	1308.4	587	0	0	23
24	1309.9	625		0	1309.6	617	0	0	1309.0	602	0	0	1308.3	585	0	0	24
25	1309.9	625		0	1309.6	617	0	0	1308.9	600	0	0	1308.3	585	0	0	25
26	1309.9	625		0	1309.6	617	0	0	1308.9	600	0	0	1308.3	585	0	0	26
27	1309.9	625		0	1309.5	615	0	0	1308.9	600	0	0	1308.3	585	0	0	27
28	1309.9	625		0	1309.5	615	0	0	1308.9	600	0	0	1308.3	585	0	0	28
29	1309.9	625		0	1309.5	615	0	0	1308.9	600	0	0	1308.3	585	0	0	29
30	1309.9	625		0	1309.5	615	0	0	1308.9	600	0	0	1308.2	582	0	0	30
31					1309.4	612	0	0	1308.8	597	0	0					31
TOTAL			1.15	0.75			0	0			0	0			0	0	
Inf. Ac. Ft.			2.3				0				0				0	2.3	
Outf. Ac. Ft.			1.5 + (0.8)				0 + (1.2)				0 + (1.4)				0 + (1.6)	5.1 + (6.5)	
Maximum Mean Daily Inflow			0.1				0				0				0	0.3	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		0					-1.3				-1.5				-1.5	+11.6	

Negligible c.f.s. less than 0.05 c.f.s.

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Yearly Totals

Max. W. S. Elev.	1309.9	feet on	PART OF YEAR	Storage	62.6 Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1302.80	feet on	12/2/47	Storage	45.4 Acre Feet	R. E. WADDICOR	Dam Tender	Gage Hts. copied	RCL JHL	10/13/48
Max. Peak Inf.	2.9	C. F. S. from	8:00 P.M. on	4/28/48	to 9:00 P.M. on 4/28/48	T. E. MOON	Hydrographer	Storage applied	RCL JHL	"
Max. Peak Outf.	0.1	C. F. S. [illegible]	on	5/14/48	to [illegible] 6/2/48		Hydrographer	Inf. & Outf. comp.	RCL JHL	"

REMARKS ( ) INDICATES AVERAGE FOR PERIOD INDICATED

[ ] INDICATES TOTAL MONTHLY EVAPORATION AND LEAKAGE LOSSES

F. C. Dist. Form 88A Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAWPIT Dam

In Sawpit Canyon for the Year Ending September 30, 1949

Continuous Water Stage Recorder Au

Drainage Area 3.3 Square Miles. Capacity of Reservoir 321.8 Ac. Ft. at Spillway Elev. 1360.0 Ft. as of December 1943 Survey Gage Heights Read Daily

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	Day
1	1308.2	582	0	0	1307.6	572	0	0	1307.4	563	0	0	1307.4	563	0	0	1
2	1308.2	582	0	0	1307.8	572	0	0	1307.4	563	0	0	1307.4	563	0	0	2
3	1308.2	582	0	0	1307.8	572	0	0	1307.4	563	0	0	1307.4	563	0	0	3
4	1308.2	582	0	0	1307.8	572	0	0	1307.4	563	0	0	1307.3	560	0	0	4
5	1308.1	580	0	0	1307.8	572	0	0	1307.4	563	0	0	1307.3	560	0	0	5
6	1308.1	580	0	0	1307.8	572	0	0	1307.4	563	0	0	1307.3	560	0	0	6
7	1308.1	580	0	0	1307.8	572	0	0	1307.4	563	0	0	1307.3	560	0	0	7
8	1308.1	580	0	0	1307.7	570	0	0	1307.4	563	0	0	1307.3	560	0	0	8
9	1308.1	580	0	0	1307.7	570	0	0	1307.4	563	0	0	1307.3	560	0	0	9
10	1308.0	577	0	0	1307.7	570	0	0	1307.3	560	0	0	1307.3	560	0	0	10
11	1308.0	577	0	0	1307.7	570	0	0	1307.3	560	0	0	1307.3	560	0	0	11
12	1308.0	577	0	0	1307.7	570	0	0	1307.3	560	0	0	1307.4	563	0.1	0	12
13	1308.0	577	0	0	1307.6	567	0	0	1307.3	560	0	0	1307.4	563	0	0	13
14	1308.0	577	0	0	1307.6	567	0	0	1307.3	560	0	0	1307.4	563	0	0	14
15	1308.0	577	0	0	1307.6	567	0	0	1307.3	560	0	0	1307.4	563	0	0	15
16	1308.0	577	0	0	1307.6	567	0	0	1307.3	560	0	0	1307.4	563	0	0	16
17	1308.0	577	0	0	1307.6	567	0	0	1307.3	560	0	0	1307.4	563	0	0	17
18	1308.0	577	0	0	1307.6	567	0	0	1307.4	563	0.1	0	1307.4	563	0	0	18
19	1308.0	577	0	0	1307.6	567	0	0	1307.4	563	0	0	1307.5	565	0.1	0	19
20	1308.0	577	0	0	1307.6	567	0	0	1307.3	560	0	0	1307.6	567	0.1	0	20
21	1308.0	577	0	0	1307.5	565	0	0	1307.3	560	0	0	1307.7	570	0.2	0	21
22	1308.0	577	0	0	1307.5	565	0	0	1307.3	560	0	0	1308.0	577	0.3	0	22
23	1307.9	575	0	0	1307.5	565	0	0	1307.3	560	0	0	1308.2	582	0.3	0	23
24	1307.9	575	0	0	1307.5	565	0	0	1307.3	560	0	0	1308.4	587	0.2	0	24
25	1307.9	575	0	0	1307.5	565	0	0	1307.3	560	0	0	1308.6	592	0.3	0	25
26	1307.9	575	0	0	1307.5	565	0	0	1307.4	563	0.1	0	1308.8	597	0.2	0	26
27	1307.9	575	0	0	1307.5	565	0	0	1307.4	563	0	0	1308.9	600	0.2	0	27
28	1307.9	575	0	0	1307.4	563	0	0	1307.4	563	0	0	1309.1	605	0.2	0	28
29	1307.8	572	0	0	1307.4	563	0	0	1307.4	563	0	0	1309.2	607	0.2	0	29
30	1307.8	572	0	0	1307.4	563	0	0	1307.4	563	0	0	1309.3	610	0.2	0	30
31	1307.8	572	0	0					1307.4	563	0	0	1309.4	612	0.1	0	31
TOTAL			0	0			0	0			0.2	0			2.7	0	
Inf. Ac. Ft.			0				0				0.4				5.4	5.8	
Outf. Ac. Ft.			0 + (1.0)				0 + (0.9)				0 + (0.4)				0 + (0.5)	0 + (2.8)	
Maximum Mean Daily Inflow			0				0				0.1				0.3	0.3	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		-1.0				-0.9			0				+4.9			+3.0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

½ Year

Max. W. S. Elev.	1310.0	feet on	2/7/49	Storage	62.7 Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1303.75	feet on	2/9/49	Storage	47.6 Acre Feet	R. E. WADDICOR	Dam Tender	Gage Hts. copied	JHL EAD	3/25/49
Max. Peak Inf.	0.9	C. F. S. from	2300 on	3/10/49	to 2400 on 3/10/49	T. E. MOON	Hydrographer	Storage applied	JHL EAD	3/25/49
Max. Peak Outf.	18.4	C. F. S. from	1100 on	2/9/49	to 1200 on 2/9/49		Hydrographer	Inf. & Outf. comp.	JHL EAD	3/25/49

REMARKS ( ) INDICATES EVAPORATION LOSSES

SAWPIT (cont'd)

F. C. Dist. Form 68B Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAWPIT Dam

In ~~On~~ Sawpit Canyon for the Year Ending September 30, 19 49

Continuous Water Stage Recorder Au

Drainage Area 3.3 Square Miles. Capacity of Reservoir 321.8 Ac. Ft. at Spillway Elev. 1360.0 Ft. as of December 1943 Survey 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	1309.5	61.5	0.2	0	1306.5	54.1	(0.3	0	1309.9	62.5	0.1	0.1	1309.9	62.5	0.05	0.03	1
2	1309.6	61.7	0.1	0	1306.7	54.6	0.3	0	1309.9	62.5	0.1	0.1	1309.9	62.5	0.05	0.03	2
3	1309.7	62.0	0.1	0	1307.0	55.3	0.4	0	1309.9	62.5	0.1	0.1	1309.9	62.5	0.05	0.03	3
4	1309.8	62.2	0.1	0	1307.3	56.0	0.4	0	1309.9	62.5	0.1	0.1	1309.9	62.5	0.05	0.03	4
5	1309.9	62.5	0.2	0	1307.5	56.5	0.3	0	1309.9	62.5	0.1	0.1	1309.9	62.5	0.05	0.03	5
6	1310.0	62.7	0.1	0	1307.8	57.2	0.3	0	1309.9	62.5	0.1	0.1	1309.9	62.5	0.05	0.03	6
7	1310.0	62.7	0.1	0.1	1308.0	57.7	0.3	0	1309.9	62.5	0.1	0.1	1309.9	62.5	0.05	0.03	7
8	1310.0	62.7	0.1	0.1	1308.3	58.5	0.3	0	1309.9	62.5	0.1	0.1	1309.9	62.5	0.05	0.03	8
9	1303.8	47.7	0.1	7.7	1308.5	59.0	0.3	0	1309.9	62.5	0.1	0.1	1309.9	62.5	0.05	0.03	9
10	1304.1	48.4	0.3	0	1308.7	59.5	0.3	0	1309.9	62.5	0.1	0.1	1309.9	62.5	0.05	0.03	10
11	1304.4	49.1	0.4	0	1309.0	60.2	0.4	0	1309.9	62.5	0.1	0.1	1309.9	62.5	0.05	0.03	11
12	1304.5	49.4	(0.2	0	1309.2	60.7	0.3	0	1309.9	62.5	0.1	0.1	1309.9	62.5	0.05	0.03	12
13	1304.6	49.6	0.1	0	1309.5	61.5	0.3	0	1309.9	62.5	0.1	0.1	1309.9	62.5	0.05	0.03	13
14	1304.7	49.8	0.1	0	1309.7	62.0	0.3	0	1309.9	62.5	0.1	0.1	1309.9	62.5	0.05	0.03	14
15	1304.8	50.0	0.1	0	1309.9	62.5	0.3	0	1309.9	62.5	0.1	0.1	1309.9	62.5	0.05	0.03	15
16	1304.8	50.0	0.1	0	1309.9	62.5	0.2	0.2	1309.9	62.5	0.1	0.1	1309.9	62.5	0.1	0.1	16
17	1304.9	50.3	0.1	0	1309.9	62.5	0.2	0.2	1309.9	62.5	0.1	0.1	1309.9	62.5	0.2	0.1	17
18	1305.0	50.5	0.1	0	1309.9	62.5	0.2	0.2	1309.9	62.5	0.1	0.1	1309.9	62.5	0.2	0.2	18
19	1305.1	50.7	0.1	0	1309.9	62.5	0.2	0.2	1309.9	62.5	0.1	0.1	1309.9	62.5	0.2	0.2	19
20	1305.2	51.0	(0.1	0	1309.9	62.5	0.2	0.2	1309.9	62.5	0.1	0.1	1309.9	62.5	0.1	0.1	20
21	1305.3	51.2	0.1	0	1309.9	62.5	0.2	0.2	1309.9	62.5	0.1	0.1	1309.9	62.5	0.05	0.03	21
22	1305.3	51.2	0.1	0	1309.9	62.5	0.2	0.2	1309.9	62.5	0.1	0.1	1309.9	62.5	0.05	0.03	22
23	1305.4	51.5	0.1	0	1309.9	62.5	0.2	0.2	1309.9	62.5	0.1	0.05	1309.9	62.5	0.05	0.03	23
24	1305.6	51.9	0.2	0	1309.9	62.5	0.2	0.2	1309.9	62.5	0.1	0.05	1309.9	62.5	0.05	0.03	24
25	1305.7	52.2	0.2	0	1309.9	62.5	0.2	0.1	1309.9	62.5	0.1	0.05	1309.9	62.5	0.05	0.03	25
26	1305.9	52.7	0.2	0	1309.9	62.5	0.1	0.1	1309.9	62.5	0.1	0.05	1309.9	62.5	0.04	0.03	26
27	1306.0	52.9	0.2	0	1309.9	62.5	0.1	0.1	1309.9	62.5	0.1	0.05	1309.9	62.5	0.04	0.03	27
28	1306.2	53.4	0.3	0	1309.9	62.5	0.1	0.1	1309.9	62.5	0.1	0.05	1309.9	62.5	0.04	0.02	28
29					1309.9	62.5	0.1	0.1	1309.9	62.5	0.1	0.05	1309.9	62.5	0.04	0.02	29
30					1309.9	62.5	0.1	0.1	1309.9	62.5	0.1	0.05	1309.9	62.5	0.04	0.02	30
31					1309.9	62.5	0.1	0.1					1309.9	62.5	0.04	0.02	31
TOTAL			4.2	7.9			7.4	2.5			3.0	2.6			2.04	1.44	
Inf. Ac. Ft.			8.3				14.7				6.0				4.0	3.8.8	
Outf. Ac. Ft.			15.7 + (0.4)				5.0 + (0.6)				5.2 + (0.8)			2.9 + (1.1)		28.8 + (5.7)	
Maximum Mean Daily Inflow			0.4				0.4				0.1				0.2	0.4	
Minimum Mean Daily Inflow			0.1				0.1				0.1				0.04	0	
Storage Change		-7.8				+9.1			0				0			+4.3	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

¾ Year

Max. W. S. Elev.	1310.0	feet	on	2/7/49	Storage	62.7	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1303.75	feet	on	2/9/49	Storage	47.6	Acre Feet	F. D. KELLY & R. E. WADDICOR	Dam Tender	Gage Hts. copied	JHL	CJR 10/18/49
Max. Peak Inf.	0.9	C.F.S. from	2300	on	3/10/49	to 2400	on 3/10/49	T. E. MOON	Hydrographer	Storage applied	JHL	CJR 10/18/49
Max. Peak Outf.	18.4	C.F.S. from	1100	on	2/9/49	to 1200	on 2/9/49		Hydrographer	Inf. & Outf. comp.	JHL	CJR 10/18/49

REMARKS [INDICATES AVERAGE FOR PERIOD
( ) INDICATES EVAPORATION LOSSES

F. C. Dist. Form 68C Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAWPIT Dam

In ~~On~~ Sawpit Canyon for the Year Ending September 30, 19 49

Continuous Water Stage Recorder Au

Drainage Area 3.3 Square Miles. Capacity of Reservoir 321.8 Ac. Ft. at Spillway Elev. 1360.0 Ft. as of December 1943 Survey 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	1309.9	62.5	0.04	0.02	1309.1	60.5	0.04	0	1308.8	59.7	0	0	1308.0	57.7	0	0	1
2	1309.9	62.5	0.04	0.02	1309.1	60.5	0.04	0	1308.8	59.7	0	0	1308.0	57.7	0	0	2
3	1309.9	62.5	0.04	0.02	1309.1	60.5	0.04	0	1308.7	59.5	0	0	1308.0	57.7	0	0	3
4	1309.9	62.5	0.04	0.02	1309.1	60.5	0.04	0	1308.7	59.5	0	0	1308.0	57.7	0	0	4
5	1309.9	62.5	0.04	0.02	1309.1	60.5	0.04	0	1308.7	59.5	0	0	1307.9	57.5	0	0	5
6	1309.9	62.5	0.04	0.02	1309.1	60.5	0.04	0	1308.7	59.5	0	0	1307.9	57.5	0	0	6
7	1309.9	62.5	0.04	0.02	1309.1	60.5	0.04	0	1308.7	59.5	0	0	1307.9	57.5	0	0	7
8	1309.9	62.5	0.04	0.02	1309.1	60.5	0.04	0	1308.6	59.2	0	0	1307.8	57.2	0	0	8
9	1309.9	62.5	0.04	0.02	1309.1	60.5	0.04	0	1308.6	59.2	0	0	1307.8	57.2	0	0	9
10	1309.9	62.5	0.04	0.02	1309.1	60.5	0.02	0	1308.6	59.2	0	0	1307.8	57.2	0	0	10
11	1309.9	62.5	0.04	0.02	1309.1	60.5	0.02	0	1308.6	59.2	0	0	1307.8	57.2	0	0	11
12	1309.9	62.5	0.04	0.02	1309.1	60.5	0.02	0	1308.6	59.2	0	0	1307.7	57.0	0	0	12
13	1309.9	62.5	0.04	0.02	1309.1	60.5	0.02	0	1308.5	59.0	0	0	1307.7	57.0	0	0	13
14	1309.9	62.5	0.04	0.02	1309.1	60.5	0.02	0	1308.5	59.0	0	0	1307.7	57.0	0	0	14
15	1309.9	62.5	0.04	0.02	1309.1	60.5	0.02	0	1308.5	59.0	0	0	1307.7	57.0	0	0	15
16	1309.9	62.5	0.04	0.02	1309.1	60.5	0.02	0	1308.5	59.0	0	0	1307.7	57.0	0	0	16
17	1309.9	62.5	0.04	0.02	1309.1	60.5	0	0	1308.5	59.0	0	0	1307.7	57.0	0	0	17
18	1309.9	62.5	0.04	0.02	1309.0	60.2	0	0	1308.4	58.7	0	0	1307.6	56.7	0	0	18
19	1309.9	62.5	0.04	0.02	1309.0	60.2	0	0	1308.4	58.7	0	0	1307.6	56.7	0	0	19
20	1309.9	62.5	0.04	0.02	1309.0	60.2	0	0	1308.4	58.7	0	0	1307.6	56.7	0	0	20
21	1309.9	62.5	0.04	0.02	1309.0	60.2	0	0	1308.4	58.7	0	0	1307.6	56.7	0	0	21
22	1309.9	62.5	0.04	0.02	1309.0	60.2	0	0	1308.3	58.5	0	0	1307.6	56.7	0	0	22
23	1309.2	60.7	0.04	0.9	1309.0	60.2	0	0	1308.3	58.5	0	0	1307.6	56.7	0	0	23
24	1309.1	60.5	0.04	0.2	1308.9	60.0	0	0	1308.3	58.5	0	0	1307.6	56.7	0	0	24
25	1309.1	60.5	0.04	0	1308.9	60.0	0	0	1308.3	58.5	0	0	1307.5	56.5	0	0	25
26	1309.1	60.5	0.04	0	1308.9	60.0	0	0	1308.2	58.2	0	0	1307.5	56.5	0	0	26
27	1309.1	60.5	0.04	0	1308.9	60.0	0	0	1308.2	58.2	0	0	1307.5	56.5	0	0	27
28	1309.1	60.5	0.04	0	1308.8	59.7	0	0	1308.2	58.2	0	0	1307.5	56.5	0	0	28
29	1309.1	60.5	0.04	0	1308.8	59.7	0	0	1308.1	58.0	0	0	1307.5	56.5	0	0	29
30	1309.1	60.5	0.04	0	1308.8	59.7	0	0	1308.1	58.0	0	0	1307.5	56.5	0	0	30
31					1308.8	59.7	0	0	1308.1	58.0	0	0					31
TOTAL			1.20	1.54			0.50	0			0	0			0	0	
Inf. Ac. Ft.			2.4				1.0				0				0	4.2.2	
Outf. Ac. Ft.			3.1 + (1.3)				0 + (1.8)				0 + (1.7)			0 + (1.2)		319 + (11.7)	
Maximum Mean Daily Inflow			0.04				0.04				0				0	0.4	
Minimum Mean Daily Inflow			0.04				0				0				0	0	
Storage Change		-2.0				-0.8				-1.7				-1.2		-1.4	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Yearly Totals

Max. W. S. Elev.	1310.0	feet	on	2/7/49	Storage	62.7	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1303.75	feet	on	2/9/49	Storage	47.6	Acre Feet	F. D. KELLY	Dam Tender	Gage Hts. copied	JHL	CJR 10/18/49
Max. Peak Inf.	0.9	C.F.S. from	2300	on	3/10/49	to 2400	on 3/10/49	T. E. MOON	Hydrographer	Storage applied	JHL	CJR 10/18/49
Max. Peak Outf.	18.4	C.F.S. from	1100	on	2/9/49	to 1200	on 2/9/49		Hydrographer	Inf. & Outf. comp.	JHL	CJR 10/18/49

REMARKS ( ) INDICATES EVAPORATION LOSSES

SAN GABRIEL NO. 2

F. C. Dist. Form 68A Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In San Gabriel Canyon-West Fork for the Year Ending September 30, 1948

On

Continuous Water Stage Recorder Pressure

Drainage Area 39.2 Square Miles. Capacity of Reservoir 10,634.3 Ac. Ft. at Spillway Elev. 2385. Ft. as of Jan. & Sept., 1947

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	2146.5	0	1.0	1.0	2209.2	** 368	0.9	0.1	2222.3	** 1010	1.6	0.2	2231.9	** 1944	4.0	2.6	1
2	2146.5	0	0.9	0.9	2209.6	383	0.9	0.1	2222.8	1043	1.8	0.2	2232.1	1978	4.3	2.6	2
3	2153.5	* 0.4	0.8	0.6	2210.2	403	1.1	0.1	2223.3	1077	1.9	0.2	2232.2	2015	4.5	2.6	3
4	2161.0	1.8	0.8	0.1	2210.7	419	0.9	0.1	2224.5	1158	4.3	0.2	2232.2	2044	4.1	2.6	4
5	2165.0	3.2	0.8	0.1	2211.1	433	0.8	0.1	2228.1	1398	12.3	0.2	2232.4	** 2099	4.3	1.5	5
6	2168.7	4.7	0.8	0.2	2211.5	449	0.9	0.1	2229.8	1529	6.8	0.2	2233.0	2179	4.3	0.3	6
7	2171.7	6.2	0.8	0.1	2211.9	464	0.8	0.1	2230.6	1601	3.9	0.2	2233.6	2251	3.9	0.3	7
8	2174.5	7.7	0.8	0.1	2212.4	484	1.1	0.1	2231.2	1660	3.1	0.2	2234.1	2312	3.4	0.3	8
9	2177.0	9.2	0.8	0.1	2212.9	504	1.2	0.2	2231.6	1703	2.4	0.2	2234.7	2387	4.1	0.3	9
10	2179.3	10.7	0.8	0.1	2213.3	521	1.0	0.2	2231.4	1700	2.4	2.6	2235.2	2450	3.5	0.3	10
11	2179.7	11.1	0.3	0.1	2213.7	539	1.1	0.2	2231.2	1694	2.7	3.0	2235.7	2516	3.5	0.3	11
12	2180.4	11.6	0.4	0.1	2214.2	560	1.3	0.2	2230.9	1679	2.3	3.0	2236.2	2582	3.7	0.3	12
13	2182.3	13.0	0.8	0.1	2214.7	580	1.2	0.2	2230.8	1680	3.0	3.0	2236.4	2610	3.7	2.2	13
14	2184.3	14.7	1.0	0.1	2215.1	599	1.1	0.2	2230.6	1673	2.2	2.6	2236.2	2582	3.4	4.7	14
15	2186.3	16.5	1.0	0.1	2215.6	621	1.3	0.2	2230.6	1682	3.0	2.6	2236.2	2582	3.8	3.8	15
16	2187.7	17.8	0.8	0.1	2216.1	644	1.4	0.2	2230.5	1683	2.5	2.4	2236.2	2582	4.1	4.0	16
17	2188.5	* 18.6	0.5	0.1	2216.5	664	1.2	0.2	2230.5	1692	2.7	2.2	2236.3	2596	3.9	3.2	17
18	2202.0	** 19.7	0.7	0.1	2217.0	689	1.5	0.2	2230.6	1709	2.8	2.0	2236.5	2624	4.2	2.8	18
19	2202.6	20.4	0.5	0.1	2217.4	709	1.2	0.2	2230.7	1726	2.9	2.0	2236.3	2596	2.9	4.3	19
20	2203.4	21.3	0.6	0.1	2217.8	733	1.4	0.2	2231.0	1761	3.7	1.9	2236.2	2582	4.3	5.0	20
21	2203.7	22.5	0.7	0.1	2218.2	755	1.3	0.2	2231.4	1806	3.8	1.7	2236.1	2569	3.7	4.4	21
22	2204.3	23.7	0.7	0.1	2218.7	781	1.5	0.2	2231.8	1851	4.0	1.7	2235.9	2542	3.9	5.2	22
23	2204.7	24.8	0.7	0.1	2219.1	804	1.4	0.2	2232.2	1893	3.5	1.4	2235.6	2503	3.8	5.8	23
24	2205.2	26.2	0.8	0.1	2219.6	832	1.6	0.2	2232.1	1895	3.6	3.5	2235.3	2463	3.8	5.8	24
25	2205.7	27.5	0.8	0.1	2220.0	856	1.4	0.2	2231.9	1890	3.7	4.0	2235.0	2424	3.4	5.4	25
26	2206.1	28.4	0.6	0.1	2220.3	879	1.4	0.2	2232.0	1908	4.1	3.2	2234.8	2399	4.2	5.4	26
27	2206.6	29.5	0.7	0.1	2220.7	904	1.5	0.2	2232.2	1932	4.0	2.8	2234.5	2362	3.5	5.4	27
28	2207.0	30.7	0.7	0.1	2221.1	931	1.6	0.2	2232.4	1954	3.9	2.8	2234.3	2337	4.0	5.1	28
29	2207.4	32.0	0.8	0.1	2221.5	957	1.5	0.2	2231.9	1924	4.0	5.5	2234.0	2299	3.2	5.1	29
30	2208.2	33.8	1.0	0.1	2221.9	** 983	1.5	0.2	2231.5	1896	3.7	5.1	2233.8	2275	3.9	5.1	30
31	2208.8	** 35.3	0.8	0.1					2231.7	** 1917	3.9	2.8	2233.6	2251	3.9	5.1	31
TOTAL			23.2	5.4			37.0	5.2			110.6	63.6			119.3	101.8	
Inf. Ac. Ft.			46.0				73.4				219.4				236.6	575.4	
Outf. Ac. Ft.				10.7				10.3				126.1		2019 + (1.2)		349.0 + (1.2)	
Maximum Mean Daily Inflow			1.0				1.6				12.3				4.5	12.3	
Minimum Mean Daily Inflow			0.3				0.8				1.6				2.9	0.3	
Storage Change		+35.3				+630				+934				+334		+2251	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

½ Year

Max. W. S. Elev.	2247.05	feet on 5/4/48	Storage	439.1	Acre Feet		
Min. W. S. Elev.	2202.	feet on 10/1/47	Storage	0	Acre Feet		
Max. Peak Inf.	261.5	C. F. S. from 1:00 A.M.	on 4/29/48	to 2:00 A.M.	on 4/29/48		
Max. Peak Outf.	27.6	C. F. S. from 12:00 N	on 2/5/48	to 12:00 M	on 2/5/48		

RECORDS COLLECTED BY: E. K. DE VORE — Dam Tender; G. H. MIDDLETON — Hydrographer; Hydrographer

COMPUTATIONS ckd. Date: Gage Hts. copied GHM DB 6/25/48; Storage applied GHM DB 6/25/48; Inf. & Outf. comp. GHM RCL 9/1/48

REMARKS: ( ) MEAN FOR PERIOD OR PRORATED DAILY AMOUNTS; ** RESERVOIR GAGE HEIGHTS ONLY SHOWN; STORAGE INCLUDES PIT STORAGE.
( ) INDICATES EVAPORATION LOSS. OUTFLOWS AS PER STATION F 209-R & VALVE OPERATION RECORDS
* STORAGE IN PIT ONLY. PIT GAGE HEIGHTS SHOWN.

F. C. Dist. Form 68B Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In San Gabriel Canyon-West Fork for the Year Ending September 30, 1948

On

Continuous Water Stage Recorder Pressure

Drainage Area 39.2 Square Miles. Capacity of Reservoir 10,634.3 Ac. Ft. at Spillway Elev. 2385. Ft. as of Jan. & Sept., 1947

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	2233.4	222.7	3.9	5.1	2235.2	245.0	6.5	6.5	2235.2	245.0	9.3	12.6	2245.9	417.2	16.8	10.1	1
2	2233.1	219.1	3.3	5.1	2235.1	243.7	5.8	6.5	2235.2	245.0	9.8	9.8	2246.5	428.6	13.9	8.0	2
3	2232.9	216.8	3.9	5.1	2235.0	242.4	5.8	6.5	2236.1	256.9	16.1	10.1	2246.9	436.2	11.1	7.2	3
4	2232.8	215.6	4.5	5.1	2234.8	239.9	5.2	6.5	2236.9	267.8	15.6	10.1	2246.5	428.6	10.3	14.0	4
5	2234.8	239.9	28.6	16.4	2234.7	238.7	5.9	6.5	2237.3	273.6	13.0	10.1	2245.5	409.8	9.7	19.1	5
6	2233.5	223.9	18.9	27.0	2234.5	236.2	5.2	6.5	2237.6	277.9	12.3	10.1	2244.4	389.7	9.1	19.1	6
7	2232.4	211.1	14.2	20.6	2234.3	233.7	5.2	6.5	2237.8	280.8	11.5	10.0	2243.2	368.4	7.6	18.2	7
8	2231.3	** 200.8	10.0	15.2	2234.1	231.2	5.2	6.5	2237.8	280.8	9.8	9.8	2242.1	349.4	8.7	18.2	8
9	2231.4	** 201.3	9.1	8.8	2233.9	228.7	5.1	6.5	2237.8	280.8	9.8	9.8	2241.0	331.0	8.6	17.8	9
10	2232.8	215.6	11.6	4.4	2233.6	225.1	5.1	6.5	2237.9	282.3	10.6	9.8	2239.8	311.5	7.7	17.4	10
11	2233.5	223.9	9.9	5.7	2233.4	222.7	5.1	6.5	2237.9	282.3	9.8	9.8	2239.4	305.2	7.2	10.3	11
12	2233.7	226.3	8.4	7.2	2233.1	219.1	4.7	6.5	2237.9	282.3	9.4	9.4	2239.6	308.4	7.1	5.4	12
13	2233.7	226.3	7.2	7.2	2233.3	221.5	7.7	6.5	2237.8	280.8	8.6	9.4	2239.7	310.0	6.3	5.4	13
14	2233.8	227.5	7.8	7.2	2234.4	234.9	13.3	6.5	2237.6	277.9	8.4	9.8	2239.8	311.5	5.6	4.7	14
15	2233.8	227.5	6.7	6.7	2235.1	243.7	11.8	7.4	2237.6	277.9	8.2	8.1	2239.9	313.1	5.3	4.4	15
16	2233.8	227.5	6.8	6.8	2235.1	243.7	9.1	9.1	2237.4	275.0	7.3	8.7	2240.0	314.7	5.1	4.4	16
17	2234.0	229.9	8.0	6.8	2235.6	250.3	12.7	9.4	2237.1	270.7	7.2	8.7	2239.8	311.5	4.8	5.7	17
18	2234.3	233.7	8.7	6.8	2235.9	254.2	11.4	9.4	2236.8	266.5	7.0	8.7	2239.6	308.4	4.6	6.4	18
19	2234.7	238.7	9.3	6.8	2236.2	258.2	11.4	9.4	2236.5	262.4	6.8	9.1	2239.4	305.2	4.6	6.1	19
20	2235.0	242.4	8.7	6.8	2236.5	262.4	11.3	9.1	2236.2	258.2	6.6	9.1	2239.2	302.1	4.5	6.1	20
21	2235.2	245.0	8.1	6.8	2236.7	265.1	9.3	7.9	2235.9	254.2	6.8	8.7	2238.9	297.4	4.4	5.8	21
22	2235.3	246.3	7.5	6.8	2236.8	266.5	8.2	7.5	2235.6	250.3	6.3	8.3	2238.7	294.3	4.3	5.8	22
23	2235.4	247.6	7.6	6.8	2236.9	267.8	8.2	7.5	2235.3	246.3	6.4	8.3	2238.5	291.3	4.2	5.8	23
24	2235.4	247.6	6.9	6.8	2238.6	292.8	20.1	7.5	2234.9	241.2	5.8	8.3	2238.2	286.7	4.0	5.8	24
25	2235.4	247.6	6.9	6.8	2239.8	311.5	22.7	13.3	2234.5	236.2	5.9	8.3	2238.0	283.7	3.9	5.8	25
26	2235.3	246.3	6.1	6.8	2239.5	306.8	15.8	18.2	2234.0	229.9	5.2	8.3	2237.8	280.8	3.8	5.8	26
27	2235.2	245.0	6.1	6.8	2238.9	297.4	13.2	17.8	2233.6	225.1	6.0	8.3	2237.5	276.5	3.8	5.4	27
28	2235.2	245.0	6.8	6.8	2238.3	288.3	12.9	17.4	2235.0	242.4	16.1	7.4	2237.3	273.6	3.7	5.4	28
29	2235.2	245.0	6.5	6.5	2237.5	276.5	11.5	17.4	2244.3	387.9	86.0	12.6	2237.1	270.7	3.7	5.4	29
30					2236.6	263.7	11.0	17.4	2245.2	404.2	21.2	13.0	2236.9	267.8	3.6	5.4	30
31					2235.7	251.6	10.8	16.9					2236.6	263.7	3.6	5.4	31
TOTAL			252.0	241.7			297.2	293.6			362.8	284.5			201.6	259.8	
Inf. Ac. Ft.			499.8				589.5				719.6				399.9	278.2	
Outf. Ac. Ft.			479.4 + (0.6)				582.3 + (0.6)				564.3 + (2.6)			535.1 + (5.2)		2510.1 (10.2)	
Maximum Mean Daily Inflow			28.6				22.7				86.0				16.8	86.0	
Minimum Mean Daily Inflow			3.3				4.7				5.2				3.6	0.3	
Storage Change		+199				+66				+1526				-1405		+263.7	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

½ Year

Max. W. S. Elev.	2247.05	feet on 5/4/48	Storage	439.1	Acre Feet		
Min. W. S. Elev.	2202.	feet on 10/1/47	Storage	0	Acre Feet		
Max. Peak Inf.	261.5	C. F. S. from 1:00 A.M.	on 4/29/48	to 2:00 A.M.	on 4/29/48		
Max. Peak Outf.	27.6	C. F. S. from 12:00 N	on 2/5/48	to 12:00 M	on 2/5/48		

RECORDS COLLECTED BY: E. K. DE VORE — Dam Tender; G. H. MIDDLETON — Hydrographer; Hydrographer

COMPUTATIONS ckd. Date: Gage Hts. copied GHM RCL 8/24/48; Storage applied GHM RCL "; Inf. & Outf. comp. GHM RCL 9/1/48

REMARKS: ( ) MEAN FOR PERIOD OR PRORATED DAILY AMOUNTS; USED VALVE RECORDS 2-6, 7-48 - 3-13, 14-48 - 4-3, 4, 5, 6, 7-48 - 4-28-48
( ) INDICATES EVAPORATION LOSS. OUTFLOW AS PER STATION F 209-R AND VALVE OPERATION RECORDS
** RESERVOIR GAGE HEIGHTS ONLY SHOWN. STORAGE INCLUDES PIT STORAGE.

SAN GABRIEL NO. 2 (cont'd)

F. C. Dist. Form 68C Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In San Gabriel Canyon-West Fork for the Year Ending September 30, 1948

Continuous Water Stage Recorder Pressure

Drainage Area 39.2 Square Miles. Capacity of Reservoir 10,634.3 Ac. Ft. at Spillway Elev. 2385. Ft. as of Jan. & Sept., 1947 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	2236.5	262.4	(4.6	5.4	2228.1	** 173.6	(1.0	2.6	2221.7	** 122.3	(0.9	1.1	2214.1	* 54.7	0.9	1.9	1
2	2236.4	261.0	4.4	5.4	2227.8	171.3	1.5	2.6	2221.7	121.8	0.9	1.0	2213.2	53.1	1.0	1.7	2
3	2236.2	258.2	4.2	5.4	2227.6	169.5	1.8	2.6	2221.7	121.6	0.8	1.0	2212.4	51.6	1.0	1.6	3
4	2235.9	254.2	4.0	5.4	2227.3	167.0	1.4	2.6	2221.6	120.6	0.8	0.9	2211.7	50.4	1.0	1.6	4
5	2235.7	251.6	3.7	5.4	2227.0	164.5	1.3	2.4	2221.6	120.3	0.8	0.9	2211.2	49.5	1.0	1.5	5
6	2235.4	247.6	3.7	5.4	2226.7	162.0	1.4	2.4	2221.6	120.1	0.8	0.9	2211.0	49.1	1.0	1.4	6
7	2235.1	243.7	3.6	5.4	2226.4	159.6	1.3	2.4	2221.6	119.9	0.8	0.9	2210.6	48.4	1.0	1.3	7
8	2234.8	239.9	3.4	5.4	2226.1	157.1	1.3	2.4	2221.5	119.1	0.8	0.9	2210.4	48.1	0.9	1.2	8
9	2234.5	236.2	3.3	5.4	2225.8	154.8	1.3	2.4	2221.5	118.6	0.7	0.8	2210.2	47.7	0.9	0.9	9
10	2234.1	231.2	3.2	5.4	2225.6	153.1	1.3	2.2	2221.5	118.4	0.7	0.8	2210.1	47.6	0.9	0.9	10
11	2233.8	227.5	(3.0	5.4	2225.3	151.0	(1.2	2.2	2221.5	118.2	0.5	0.8	2210.0	47.4	0.7	0.8	11
12	2233.4	222.7	2.8	5.0	2225.1	149.3	1.3	2.0	2220.7	114.1	0.5	3.0	2210.0	47.4	0.8	0.8	12
13	2233.1	219.1	2.7	5.0	2224.9	147.6	1.0	1.8	2219.3	107.5	0.5	3.0	2210.0	47.4	0.7	0.7	13
14	2232.5	** 213.6	2.6	4.7	2224.7	145.9	0.9	1.6	2218.3	103.0	0.5	2.6	2210.0	47.4	0.7	0.7	14
15	2232.1	209.9	(2.6	3.8	2224.5	144.3	1.2	1.9	2217.6	99.9	0.5	2.0	2210.0	47.4	0.7	0.7	15
16	2231.8	207.1	(2.5	3.6	2224.7	144.9	1.3	0.9	2217.1	97.6	(0.6	1.8	2210.0	47.4	0.7	0.7	16
17	2231.6	204.9	2.4	3.4	2225.0	146.1	1.5	0.8	2216.7	95.7	0.7	1.8	2210.0	47.4	0.7	0.7	17
18	2231.4	203.0	2.3	3.2	2225.2	146.8	1.2	0.7	2216.2	93.6	0.7	1.7	2210.0	47.4	0.7	0.7	18
19	2231.2	201.0	2.1	3.0	2224.6	143.2	1.9	3.6	2215.7	91.3	0.8	1.7	2210.0	47.4	0.7	0.7	19
20	2231.0	199.1	(2.0	3.0	2224.1	140.1	1.7	3.2	2215.4	89.7	(0.8	1.6	2210.0	47.4	0.6	0.6	20
21	2230.8	197.3	(2.0	3.0	2223.7	137.4	1.5	2.8	2215.0	87.8	(0.8	1.6	2209.9	47.2	0.5	0.6	21
22	2230.6	195.5	2.0	3.0	2223.3	134.7	1.1	2.4	2214.7	86.2	0.7	1.5	2209.9	47.2	0.6	0.6	22
23	2230.3	192.8	1.9	2.8	2222.9	132.1	0.8	2.0	2214.4	84.4	0.7	1.5	2209.9	47.2	0.6	0.6	23
24	2230.1	190.7	1.9	2.8	2222.7	130.6	1.1	1.8	2214.2	83.4	0.7	1.4	2209.9	47.2	0.6	0.6	24
25	2229.9	189.0	(1.8	2.6	2222.5	129.2	1.1	1.7	2214.1	82.5	(0.7	1.3	2209.9	47.2	0.6	0.6	25
26	2229.7	187.2	(1.6	2.6	2222.3	127.6	0.8	1.5	2214.2	82.3	(0.6	1.1	2209.9	47.2	0.6	0.6	26
27	2229.4	184.7	1.5	2.6	2222.1	126.1	0.8	1.4	2210.7	73.6	0.6	3.6	2209.9	47.2	0.6	0.6	27
28	2229.1	181.9	1.5	2.6	2221.9	124.6	0.8	1.4	2202.0	** 65.6	0.6	4.8	2209.9	47.2	0.5	0.5	28
29	2228.8	179.6	1.4	2.6	2221.8	123.6	0.9	1.3	2219.3	* 65.0	0.5	1.4	2209.9	47.2	0.5	0.5	29
30	2228.5	** 176.9	(1.3	2.6	2221.7	123.0	1.0	1.2	2218.5	* 63.3	0.5	1.6	2209.9	* 47.2	0.5	0.5	30
31					2221.7	** 122.5	0.9	1.1	2215.0	* 56.3	0.5	4.0					31
TOTAL			80.0	121.3			37.6	61.9			21.0	53.0			22.2	26.8	
Inf. Ac. Ft.			158.7				74.6				41.6				44.0	31.1	
Outf. Ac. Ft.			240.6 + (5.0)				122.8 + (6.1)				105.1 + (2.8)				53.2	3031.8 (24.1)	
Maximum Mean Daily Inflow			4.6				1.9				0.9				1.0	86.0	
Minimum Mean Daily Inflow			1.3				0.8				0.5				0.5	0.3	
Storage Change		- 86.8				- 54.4				- 66.2				- 9.1		+472	Yearly Totals

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	2247.05	feet	on	5/4/48	Storage	439.1	Acre Feet		RECORDS COLLECTED BY			COMPUTATIONS	ckd.	Date		
Min. W. S. Elev.	2202.	feet	on	10/1/47	Storage	0	Acre Feet		E. K. DE VORE	Dam Tender		Gage Hts. copied	GHM	JHL	11/3/48	
Max. Peak Inf.	261.5	C.F.S. from	1:00 A.M.	on	4/29/48	to	2:00 A.M.	on	4/29/48	G. H. MIDDLETON	Hydrographer	Storage applied	GHM	JHL	"	
Max. Peak Outf.	27.6	C.F.S. from	12:00 N	on	2/5/48	to	12:00 M.	on	2/5/48		Hydrographer	Inf. & Outf. comp.	GHM	JHL	"	

REMARKS (MEAN FOR PERIOD OR PRORATED DAILY AMOUNTS ** RESERVOIR GAGE HEIGHTS ONLY SHOWN. STORAGE INCLUDES PIT STORAGE
( ) INDICATES EVAPORATION LOSS
* STORAGE IN PIT ONLY COMMENCING 8/29/48. ELEVATIONS ARE FOR W.S. IN PIT ONLY - RESERVOIR DRY AT ELEV. 2202.

F. C. Dist. Form 68A Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In San Gabriel Canyon-West Fork for the Year Ending September 30, 1949

Continuous Water Stage Recorder Pressure

Drainage Area 39.2 Square Miles. Capacity of Reservoir 10,634.3 Ac. Ft. at Spillway Elev. 2385. Ft. as of Jan. & Sept., 1947 Survey 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	2209.9	* 472	0.5	0.5	2210.5	** 548	(0.5	0.1	2214.5	71.6	(0.6	0.3	2227.3	(159.2	2.2	0.1	1
2	2209.9	472	0.5	0.5	2210.7	556	0.5	0.1	2214.6	72.0	0.6	0.3	2227.7	162.9	2.0	0.1	2
3	2209.9	472	0.5	0.5	2210.9	562	0.4	0.1	2214.8	73.0	0.6	0.3	2228.0	165.6	1.9	0.1	3
4	2209.9	472	0.5	0.5	2211.0	566	0.4	0.1	2214.9	73.4	0.6	0.3	2228.3	168.5	1.7	0.1	4
5	2209.9	472	0.5	0.5	2211.2	573	0.4	0.1	2215.0	73.9	(0.5	0.3	2228.7	(172.3	1.6	0.1	5
6	2209.9	472	0.5	0.5	2211.4	579	0.4	0.1	2215.1	74.4	0.4	0.2	2229.0	175.2	1.6	0.1	6
7	2209.9	472	0.5	0.5	2211.5	585	0.4	0.1	2215.2	74.9	0.4	0.2	2229.3	178.2	1.7	0.1	7
8	2209.9	472	0.5	0.5	2211.7	593	0.4	0.1	2215.3	75.4	0.4	0.1	2229.7	182.2	2.1	0.1	8
9	2209.9	472	0.5	0.5	2211.8	599	0.4	0.1	2215.4	75.9	0.4	0.1	2230.1	186.2	2.2	0.2	9
10	2209.9	472	0.5	0.5	2212.0	604	(0.4	0.1	2215.5	76.4	(0.4	0.1	2230.5	190.4	2.3	0.2	10
11	2209.9	472	0.5	0.5	2212.1	608	0.3	0.1	2215.6	76.8	0.4	0.1	2230.9	194.5	2.3	0.2	11
12	2209.9	472	0.5	0.5	2212.2	615	0.5	0.1	2215.7	77.3	0.4	0.1	2231.3	198.8	2.4	0.2	12
13	2209.9	472	0.5	0.5	2212.3	619	0.3	0.1	2215.8	77.8	0.3	0.1	2231.8	204.3	3.0	0.2	13
14	2209.9	472	0.5	0.5	2212.5	625	0.4	0.1	2215.9	78.3	0.3	0.1	2232.3	209.9	3.0	0.2	14
15	2209.9	472	0.5	0.5	2212.6	631	0.4	0.1	2216.0	78.8	(0.3	0.1	2232.7	214.5	2.5	0.2	15
16	2209.9	472	0.5	0.5	2212.7	635	0.3	0.1	2216.1	79.3	(0.3	0.1	2233.1	219.1	2.5	0.2	16
17	2209.9	472	0.5	0.5	2212.9	642	0.3	0.1	2216.7	82.5	1.7	0.1	2233.4	222.7	2.0	0.2	17
18	2209.9	472	0.5	0.5	2213.0	645	0.3	0.1	2217.3	85.8	1.8	0.1	2233.8	227.5	2.6	0.2	18
19	2209.9	472	0.5	0.5	2213.1	652	0.4	0.1	2217.7	88.1	1.3	0.1	2234.4	234.9	3.9	0.2	19
20	2209.9	472	0.5	0.5	2213.2	656	0.4	0.1	2218.2	91.0	1.5	0.1	2239.0	298.9	32.5	0.2	20
21	2209.9	472	0.5	0.5	2213.3	661	0.4	0.1	2218.6	93.5	1.4	0.1	2241.3	336.0	18.9	0.2	21
22	2209.9	472	0.5	0.5	2213.4	** 666	0.4	0.2	2219.3	97.8	2.3	0.1	2243.7	377.2	21.0	0.2	22
23	2209.9	472	0.5	0.5	2213.5	671	0.5	0.2	2219.9	101.7	2.0	0.1	2245.3	406.1	14.8	0.2	23
24	2209.9	* 472	0.5	0.5	2213.7	679	0.5	0.2	2220.4	105.0	1.8	0.1	2246.5	428.6	11.5	0.2	24
25	2205.1	** 482	0.8	0.3	2213.8	683	0.5	0.2	2220.8	107.7	1.5	0.1	2247.5	447.9	9.9	0.2	25
26	2207.1	494	0.7	0.1	2213.9	688	0.5	0.2	2221.6	113.3	2.9	0.1	2248.3	463.7	8.2	0.2	26
27	2208.0	503	0.6	0.1	2214.0	692	0.5	0.3	2222.2	118.8	9.9	0.1	2249.1	479.8	8.3	0.2	27
28	2208.6	513	0.6	0.1	2214.1	697	0.6	0.3	2225.2	141.0	4.2	0.1	2249.8	494.2	7.5	0.2	28
29	2209.3	523	0.6	0.1	2214.2	701	0.6	0.3	2225.8	146.0	2.7	0.1	2250.4	506.7	6.6	0.2	29
30	2210.0	534	0.6	0.1	2214.4	711	0.6	0.3	2226.3	150.3	2.2	0.1	2251.1	521.5	7.8	0.2	30
31	2210.2	** 540	0.4	0.1					2226.8	154.7	2.3	0.1	2251.7	534.4	6.7	0.2	31
TOTAL			16.3	12.9			12.9	4.3			46.4	4.3			197.2	5.4	
Inf. Ac. Ft.			32.3				25.6				92.0				391.1	541.0	
Outf. Ac. Ft.				25.6				8.5				8.5			10.7 + (0.6)	533.4 + (0.6)	
Maximum Mean Daily Inflow			0.8				0.6				9.9				32.5	325	
Minimum Mean Daily Inflow			0.4				0.3				0.3				1.6	0.3	
Storage Change		+ 68				+ 17.1				+ 83.6				+ 379.7		+ 487.2	½ Year

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	2298.1	feet	on	4/27/49	Storage	2215.4	Acre Feet		RECORDS COLLECTED BY			COMPUTATIONS	ckd.	Date		
Min. W. S. Elev. PIT	2209.9	feet	on	10/1/48	Storage	47.2	Acre Feet		E. K. DE VORE	Dam Tender		Gage Hts. copied	GHM	EAD	3/29/49	
Max. Peak Inf.	65.4	C.F.S. from	1030	on	1/20/49	to	1130	on	1/20/49	G. H. MIDDLETON	Hydrographer	Storage applied	GHM	EAD	3/29/49	
Max. Peak Outf.	18.9	C.F.S. from	1500	on	7/21/49	to	1542	on	7/21/49		Hydrographer	Inf. & Outf. comp.	GHM	EAD	3/29/49	

REMARKS (INDICATES MEAN FOR PERIOD OR PRORATED DAILY AMOUNTS. OUTFLOW AS PER STATION F209-R AND DAM RECORDS.
* STORAGE IN PIT ONLY - RESERVOIR DRY. ** RESERVOIR GAGE HEIGHTS ONLY. INCLUDES PIT STORAGE.
( ) INDICATES EVAPORATION LOSS

SAN GABRIEL NO. 2 (cont'd)

F. C. Dist. Form 88B Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In ~~On~~ San Gabriel Canyon-West Fork for the Year Ending September 30, 1949

Continuous Water Stage Recorder Pressure

Drainage Area 39.2 Square Miles. Capacity of Reservoir 10,634.3 Ac. Ft. at Spillway Elev. 2385. Ft. as of Jan. & Sept. 1947 Survey 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	2252.2	545.3	5.8	0.3	2272.9	1122.5	15.9	0.4	2291.9	1901.0	8.1	0.5	2297.2	2167.6	4.6	10.6	1
2	2252.7	556.3	5.6	0.3	2273.7	1150.1	14.3	0.4	2292.3	1920.3	8.0	0.5	2297.0	2157.0	4.6	9.4	2
3	2253.3	569.7	7.1	0.3	2274.5	1178.0	14.5	0.4	2292.6	1934.8	8.0	0.5	2296.9	2151.8	4.6	9.1	3
4	2253.8	580.9	5.9	0.3	2275.4	1209.9	16.5	0.5	2292.8	1944.5	8.0	0.5	2296.7	2141.4	4.5	8.7	4
5	2254.3	592.3	6.1	0.3	2276.7	1257.0	24.2	0.4	2293.1	1959.1	8.0	0.5	2296.5	2131.0	4.5	9.1	5
6	2254.8	603.7	6.0	0.3	2277.6	1290.3	17.3	0.4	2293.4	1974.0	7.6	0.5	2296.2	2115.4	4.5	9.1	6
7	2255.5	620.0	8.6	0.3	2278.4	1320.4	15.7	0.4	2293.6	1983.8	7.5	0.5	2296.0	2105.0	3.7	9.1	7
8	2256.1	634.0	7.3	0.3	2279.2	1350.8	15.8	0.4	2293.9	1998.7	7.5	0.5	2295.8	2094.8	3.7	8.3	8
9	2256.6	645.9	6.4	0.3	2279.8	1374.1	12.3	0.4	2294.1	2008.6	7.5	0.5	2295.6	2084.6	3.6	7.9	9
10	2257.1	657.8	6.4	0.3	2280.5	1401.6	14.5	0.4	2294.4	2023.7	7.5	0.5	2295.5	2079.5	3.6	7.9	10
11	2258.1	682.3	12.7	0.3	2281.6	1445.5	22.6	0.4	2294.7	2038.8	7.5	0.5	2295.3	2069.2	3.6	7.9	11
12	2259.2	709.9	14.2	0.3	2282.5	1482.3	19.2	0.4	2294.9	2048.9	6.8	0.5	2295.1	2059.0	3.6	8.2	12
13	2260.0	730.5	10.7	0.3	2283.2	1511.2	15.0	0.4	2295.2	2064.1	6.8	0.5	2294.8	2043.8	3.6	9.1	13
14	2260.6	751.6	11.0	0.3	2283.9	1540.5	15.4	0.4	2295.4	2074.3	6.8	0.5	2294.6	2033.8	3.9	8.7	14
15	2261.4	767.7	8.5	0.3	2284.5	1566.1	13.5	0.4	2295.7	2089.7	6.8	0.5	2294.4	2023.7	3.8	8.7	15
16	2262.0	784.0	8.6	0.3	2285.0	1587.4	11.4	0.4	2295.9	2099.9	6.8	0.5	2294.2	2013.7	3.8	8.7	16
17	2262.5	798.0	7.5	0.3	2285.5	1609.1	11.5	0.4	2296.1	2110.2	6.8	0.5	2294.1	2008.6	5.8	8.3	17
18	2263.1	814.8	8.9	0.3	2286.0	1630.7	11.5	0.4	2296.3	2120.6	6.1	0.5	2294.0	2003.6	6.0	8.3	18
19	2263.8	834.9	10.5	0.3	2286.6	1657.2	14.0	0.4	2296.6	2136.2	6.1	0.5	2293.9	1998.7	7.5	9.8	19
20	2264.4	852.4	9.1	0.3	2287.2	1683.8	13.8	0.4	2296.8	2146.6	6.1	0.5	2293.7	1988.8	5.6	10.2	20
21	2265.1	873.0	10.8	0.3	2287.7	1706.2	11.9	0.4	2297.0	2157.0	6.1	0.5	2293.5	1978.9	5.3	10.2	21
22	2265.6	894.0	11.0	0.3	2288.2	1728.8	11.9	0.4	2297.2	2167.6	6.0	0.5	2293.2	1964.1	3.7	10.2	22
23	2266.5	915.4	11.2	0.3	2288.6	1747.0	9.7	0.4	2297.3	2172.9	6.0	0.5	2292.9	1949.4	3.7	10.2	23
24	2267.5	946.3	16.0	0.3	2289.1	1769.8	12.0	0.4	2297.5	2183.5	5.3	0.5	2292.6	1934.8	3.7	10.2	24
25	2268.7	984.2	19.5	0.3	2289.5	1788.3	10.0	0.5	2297.7	2194.1	5.3	0.5	2292.3	1920.3	3.7	10.2	25
26	2269.8	1019.5	18.2	0.4	2289.9	1806.7	10.0	0.5	2297.8	2199.4	5.3	0.6	2292.1	1910.6	3.7	10.2	26
27	2271.0	1058.7	20.1	0.4	2290.3	1825.3	10.1	0.5	2298.0	2210.0	5.3	0.6	2291.8	1896.3	3.7	10.2	27
28	2272.0	1092.0	17.2	0.4	2290.6	1839.4	7.8	0.5	2297.9	2204.7	5.3	7.4	2291.5	1882.0	3.4	9.8	28
29					2290.9	1853.4	7.9	0.5	2297.6	2188.8	5.3	11.0	2291.2	1867.6	3.4	9.8	29
30					2291.3	1872.4	10.4	0.5	2297.4	2178.2	5.3	11.0	2290.9	1853.4	3.3	9.4	30
31					2291.6	1886.7	7.8	0.5					2290.7	1844.1	3.3	9.3	31
TOTAL			291.1	8.7			418.4	13.2			199.5	43.1			130.0	286.8	
Inf. Ac. Ft.			577.4				829.9				395.7				257.9	2602.1	
Outf. Ac. Ft.			173 + (2.6)				262 + (9.1)				855+(18.6)			568.9 + (23.0)			
Maximum Mean Daily Inflow			20.1				22.6				8.1				7.5	32.5	
Minimum Mean Daily Inflow			5.8				7.8				5.0				3.3	0.3	
Storage Change		+557.6				+794.7				+291.5				-334.1		+1796.9	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

¾ Year

Max. W. S. Elev.	2298.1	feet	on 4/27/49	Storage	2215.4	Acre Feet				
Min. W. S. Elev. PIT	2209.9	feet	on 10/1/48	Storage	47.2	Acre Feet				
Max. Peak Inf.	65.4	C. F. S. from	1030	on 1/20/49	to 1130	on 1/20/49				
Max. Peak Outf.	18.9	C. F. S. from	1500	on 7/21/49	to 1542	on 7/21/49				

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
E. K. DE VORE	Dam Tender	Gage Hts. copied	GHM JHL	11/3/49
G. H. MIDDLETON	Hydrographer	Storage applied	GHM JHL	11/3/49
	Hydrographer	Inf. & Outf. comp.	GHM JHL	11/3/49

REMARKS ( ) INDICATES MEAN FOR PERIOD OR PRORATED AMOUNTS
OUTFLOW AS PER STATION F209-R AND DAM RECORDS
( ) INDICATES EVAPORATION LOSS

F. C. Dist. Form 88C Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAN GABRIEL Dam #2

In ~~On~~ San Gabriel Canyon-West Fork for the Year Ending September 30, 1949

Continuous Water Stage Recorder Pressure

Drainage Area 39.2 Square Miles. Capacity of Reservoir 10,634.3 Ac. Ft. at Spillway Elev. 2385. Ft. as of Jan. & Sept. 1947 Survey 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	2290.4	1830.0	3.7	10.2	2278.5	1324.2	1.5	8.3	2263.5	826.3	1.3	10.2	2239.8	311.5	0.7	9.6	1
2	2290.1	1816.0	3.5	10.2	2278.1	1309.0	1.5	7.9	2262.9	809.1	1.3	10.2	2238.6	292.8	0.6	9.8	2
3	2289.7	1797.5	3.2	10.2	2277.8	1297.7	1.5	7.9	2262.2	789.6	1.3	10.2	2237.4	275.0	0.6	9.4	3
4	2289.4	1783.6	2.9	10.2	2277.4	1282.8	1.5	7.9	2261.6	773.2	1.3	10.2	2236.1	256.9	0.6	9.4	4
5	2289.1	1769.8	2.6	10.2	2277.1	1271.6	1.5	7.5	2260.9	754.3	0.9	10.2	2234.8	239.9	0.6	9.1	5
6	2288.7	1751.6	2.4	9.8	2276.7	1257.0	1.5	7.2	2260.2	735.8	0.9	10.2	2233.8	227.5	0.6	6.8	6
7	2288.4	1737.9	2.3	9.8	2276.4	1246.0	1.5	7.2	2259.5	717.7	0.9	9.4	2232.8	215.6	0.6	6.1	7
8	2288.0	1719.7	2.2	9.8	2276.0	1231.4	1.4	7.2	2258.8	699.8	0.9	9.4	2231.9	205.4	0.6	5.6	8
9	2287.7	1706.2	2.0	9.8	2275.7	1220.6	1.4	7.2	2258.1	682.3	0.9	9.4	2231.0	195.5	0.6	5.4	9
10	2287.4	1692.8	1.9	9.4	2275.4	1209.9	1.4	7.2	2257.4	665.2	0.9	9.1	2230.1	186.2	0.6	5.0	10
11	2287.0	1674.8	1.8	9.4	2275.0	1195.5	1.0	6.8	2256.7	648.3	0.9	9.1	2229.2	177.2	0.6	5.0	11
12	2286.6	1657.2	1.8	9.4	2274.7	1185.0	1.0	6.4	2256.0	631.6	0.9	9.1	2228.3	168.5	0.7	5.0	12
13	2286.3	1643.9	1.8	9.4	2274.4	1174.4	1.0	6.4	2255.3	615.3	0.9	9.1	2227.4	160.1	1.1	5.0	13
14	2285.9	1626.4	1.8	9.4	2274.0	1160.4	1.0	7.8	2254.6	599.1	0.8	8.7	2226.5	152.1	1.1	4.7	14
15	2285.5	1609.1	1.8	9.4	2273.5	1143.2	1.0	9.1	2253.9	583.2	1.0	8.7	2225.2	141.0	1.1	6.6	15
16	2285.2	1596.1	1.8	9.3	2273.0	1125.9	0.6	8.7	2253.2	567.4	1.2	8.9	2223.5	127.4	1.1	7.9	16
17	2284.7	1574.6	1.8	11.0	2272.6	1112.3	0.6	8.3	2252.4	549.7	1.7	10.2	2221.8	114.7	1.2	7.9	17
18	2284.3	1557.5	1.7	10.6	2272.1	1095.4	0.6	8.3	2251.6	532.3	1.7	10.2	2220.0	102.3	1.1	7.9	18
19	2283.8	1536.3	1.0	10.2	2271.6	1078.7	0.6	8.3	2250.8	515.1	1.7	10.2	2217.3	• 90.1	1.1	7.2	19
20	2283.4	1519.6	1.0	10.2	2271.1	1062.0	0.6	8.3	2250.0	498.3	1.7	9.8	2213.4	77.9	1.1	7.2	20
21	2282.9	1498.7	1.0	9.8	2270.5	1042.3	1.4	10.6	2249.2	481.8	1.7	9.8	2202.6	64.8	1.1	7.0	21
22	2282.4	1478.1	1.0	9.8	2269.8	1019.5	1.5	12.3	2248.4	465.7	1.7	9.8	2202.0	63.3	1.0	1.4	22
23	2282.0	1461.7	1.0	9.8	2269.2	1000.1	1.5	11.0	2247.6	449.9	1.7	9.4	2202.0	61.8	1.0	1.4	23
24	2281.5	1441.5	1.0	9.8	2268.6	981.0	1.5	11.0	2246.7	432.4	1.4	9.1	2207.0	62.9	1.0	0.8	24
25	2281.1	1425.3	1.0	9.8	2268.0	961.9	1.5	11.0	2245.9	417.2	1.3	9.1	2209.3	65.1	1.0	0.1	25
26	2280.7	1409.5	1.0	9.8	2267.4	943.2	1.4	11.0	2245.0	400.5	1.3	9.1	2210.7	66.9	0.9	0.1	26
27	2280.2	1389.7	1.0	9.8	2266.8	924.6	1.4	11.0	2244.2	386.1	1.3	9.1	2202.0	59.2	0.9	3.5	27
28	2279.8	1374.1	1.0	9.8	2266.1	903.1	1.4	10.7	2243.3	370.2	1.3	9.1	2206.1	59.9	0.9	1.3	28
29	2279.4	1358.6	1.0	9.4	2265.5	885.0	1.4	10.6	2242.4	354.6	1.3	8.7	2208.8	61.9	0.9	0.1	29
30	2278.9	1339.3	1.0	8.4	2264.8	864.1	1.4	10.6	2241.6	341.0	1.2	8.3	2210.3	• 63.9	0.8	0.1	30
31					2264.2	846.5	1.4	10.6	2240.8	327.7	1.2	7.5					31
TOTAL			53.0	294.1			38.5	274.3			38.5	291.5			25.8	155.6	
Inf. Ac. Ft.			105.1				76.4				76.4				51.2	291.2	
Outf. Ac. Ft.			58.3 + (26.6)				544.1 + (25.2)				578.2 + (17.1)			308.6 + (6.3)			
Maximum Mean Daily Inflow			3.7				1.5				1.7				1.2	32.5	
Minimum Mean Daily Inflow			1.0				0.6				0.8				0.6	0.3	
Storage Change		-504.8				-492.6				-518.8				-263.8		+167	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Yearly Totals

Max. W. S. Elev.	2298.1	feet	on 4/27/49	Storage	2215.4	Acre Feet				
Min. W. S. Elev. PIT	2209.9	feet	on 10/1/48	Storage	47.2	Acre Feet				
Max. Peak Inf.	65.4	C. F. S. from	1030	on 1/20/49	to 1130	on 1/20/49				
Max. Peak Outf.	18.9	C. F. S. from	1500	on 7/21/49	to 1542	on 7/21/49				

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
E. K. DE VORE	Dam Tender	Gage Hts. copied	GHM JHL	11/3/49
G. H. MIDDLETON	Hydrographer	Storage applied	GHM JHL	11/3/49
	Hydrographer	Inf. & Outf. comp.	GHM JHL	11/3/49

REMARKS ( ) INDICATES MEAN FOR PERIOD OR PRORATED AMOUNTS. OUTFLOW AS PER STATION F 209-R
( ) INDICATES EVAPORATION LOSS
• RESERVOIR GAGE HEIGHT ONLY. INCLUDES PIT STORAGE

SAN GABRIEL NO. 1

F. C. Dist. Form 68A Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In ~~Co~~ San Gabriel Canyon for the Year Ending September 30, 19 48

Continuous Water Stage Recorder Au

Drainage Area 202.7 Square Miles. Capacity of Reservoir 44,342. Ac. Ft. at Spillway Elev. 1,453.0 Ft. as of November, 1945 Survey 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	1369.05	11894	245	604	1357.85	9247	280	600	1352.30	8053	25.6	40.8	1349.25	7432	31.7	35.7	1
2	1367.05	11395	34.8	283.7	1357.55	9181	28.1	59.3	1352.20	8032	31.0	40.8	1349.25	7432	36.1	35.7	2
3	1366.75	11321	26.4	60.5	1357.20	9104	22.8	59.3	1352.05	8001	25.8	40.8	1349.25	7432	36.1	35.7	3
4	1366.45	11247	26.6	60.5	1356.90	9038	28.4	59.3	1352.20	8032	56.4	40.8	1349.20	7422	31.0	35.7	4
5	1366.10	11162	20.3	60.5	1356.60	8972	28.0	59.3	1352.75	8147	98.7	40.7	1349.15	7413	31.8	35.7	5
6	1365.80	11088	25.4	60.5	1356.30	8907	29.0	59.3	1352.90	8178	57.0	40.7	1349.10	7403	31.2	35.7	6
7	1365.50	11016	26.4	60.5	1356.00	8841	28.4	59.1	1352.95	8189	47.1	40.7	1349.05	7393	30.4	34.8	7
8	1365.20	10943	25.9	60.5	1355.65	8766	23.5	59.1	1352.95	8189	42.0	40.7	1349.00	7383	30.0	34.3	8
9	1364.90	10870	25.4	60.5	1355.45	8722	26.1	46.4	1352.90	8178	36.3	40.7	1348.95	7374	30.5	34.3	9
10	1364.60	10798	25.9	60.7	1355.30	8690	27.1	41.0	1352.85	8167	36.6	40.7	1348.90	7364	30.2	34.3	10
11	1364.30	10727	27.4	60.7	1355.10	8647	21.3	41.0	1352.80	8157	36.8	40.7	1348.85	7355	30.9	34.3	11
12	1364.00	10655	26.7	60.7	1354.95	8615	26.3	40.0	1349.90	7560	40.3	34.1	1348.80	7345	30.8	34.3	12
13	1363.70	10584	27.1	60.7	1354.80	8582	25.3	40.0	1349.90	7560	42.2	41.0	1348.80	7345	35.8	34.3	13
14	1363.40	10513	26.9	60.7	1354.65	8550	25.5	40.4	1349.80	7541	32.4	41.0	1348.75	7336	31.3	34.3	14
15	1363.10	10442	26.6	60.7	1354.50	8518	24.7	40.0	1349.75	7531	37.0	41.0	1348.75	7336	35.5	34.3	15
16	1362.85	10383	32.8	60.7	1354.35	8486	24.7	39.5	1349.70	7521	37.0	41.0	1348.65	7317	30.4	38.8	16
17	1362.55	10314	27.8	60.3	1354.25	8465	30.6	39.5	1349.65	7511	36.4	41.0	1348.60	7307	30.3	34.3	17
18	1362.25	10244	27.5	60.3	1354.10	8432	23.9	39.5	1349.60	7501	33.8	37.6	1348.60	7307	35.4	34.3	18
19	1361.95	10173	27.2	60.3	1354.00	8411	30.5	39.5	1349.55	7492	31.4	35.2	1348.55	7298	31.1	34.3	19
20	1361.65	10104	27.0	60.3	1353.85	8380	25.2	39.5	1349.55	7492	35.5	35.2	1348.55	7298	35.7	34.3	20
21	1361.30	10024	22.2	60.3	1353.70	8347	24.0	39.5	1349.50	7482	30.7	35.2	1348.50	7288	30.7	34.3	21
22	1361.00	9955	27.9	60.3	1353.60	8326	30.3	39.5	1349.50	7482	36.0	35.2	1348.50	7288	34.4	33.7	22
23	1360.70	9887	28.4	60.3	1353.45	8295	25.9	39.5	1349.50	7482	36.3	35.2	1348.50	7288	33.9	33.0	23
24	1360.40	9819	28.4	60.2	1353.30	8263	25.1	39.5	1349.45	7472	31.2	35.2	1348.50	7288	33.3	32.7	24
25	1360.05	9739	22.6	60.2	1353.20	8241	30.0	39.5	1349.45	7472	36.4	35.2	1348.50	7288	32.9	32.7	25
26	1359.70	9660	22.7	60.2	1353.05	8210	26.5	40.6	1349.40	7462	31.1	35.2	1348.50	7288	33.9	32.7	26
27	1359.40	9593	28.4	60.2	1352.90	8178	26.8	41.5	1349.40	7462	36.5	35.2	1348.55	7298	37.4	31.0	27
28	1359.10	9526	27.4	60.0	1352.75	8146	25.9	41.0	1349.35	7452	31.1	35.2	1348.55	7298	31.6	30.2	28
29	1358.75	9447	21.3	60.0	1352.60	8115	26.3	40.8	1349.35	7452	36.9	35.2	1348.60	7307	35.7	30.2	29
30	1358.45	9380	28.1	60.0	1352.45	8084	26.0	40.8	1349.30	7442	31.5	35.2	1348.60	7307	31.2	30.2	30
31	1358.15	9313	28.0	60.0					1349.30	7442	36.9	35.7	1348.60	7307	31.3	30.2	31
TOTAL			824.0	2095.4			794.2	1363.2			1193.9	1488.9			1012.5	1050.3	
Inf. Ac. Ft.			1634.4				1575.3				2368.1				2008.3	7586.1	
Outf. Ac. Ft.			4156.2 + (135.3)				27039 + (100.4)				29532 + (56.9)				20832 + (60.1)	11896.5 + (352.7)	
Maximum Mean Daily Inflow			34.8				30.6				98.7				37.4	98.7	
Minimum Mean Daily Inflow			20.3				21.3				25.6				30.0	20.3	
Storage Change			-2657				-1229				-642				-135	-4663	

NOTE: Gage Heights and Storages as of Midnight on Day Shown ½ Year

Max. W. S. Elev.	1370.82	feet on 4/9/48	Storage 12,342.1	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1311.15	feet on 9/30/48	Storage 1,703.0	Acre Feet	R. H. HARRISON	Dam Tender	Gage Hts. copied	FHM	APK
Max. Peak Inf.	506.	C. F. S. from 2:00 A.M.	on 4/29/48	to 4:00 A.M. on 4/29/48	G. H. MIDDLETON	Hydrographer	Storage applied	FHM	APK
Max. Peak Outf.	2660.	C. F. S. from 3:00 P.M.	on 12/12/47	to 5:45 P.M. on 12/12/47		Hydrographer	Inf. & Outf. comp.	FHM	APK

REMARKS ( ) INDICATES TOTAL MONTHLY EVAPORATION LOSSES.

F. C. Dist. Form 68B Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In ~~Co~~ San Gabriel Canyon for the Year Ending September 30, 19 48

Continuous Water Stage Recorder Au

Drainage Area 202.7 Square Miles. Capacity of Reservoir 44,342. Ac. Ft. at Spillway Elev. 1,453.0 Ft. as of November, 1945 Survey 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	1348.65	7317	35.6	30.2	1356.40	8929	48.6	20.0	1366.50	11260	64.7	20.4	1360.60	9864	101.2	31.2	1
2	1348.65	7317	30.8	30.2	1356.60	8972	42.3	20.0	1366.90	11358	69.6	20.2	1361.10	9978	90.6	31.4	2
3	1348.70	7326	35.8	30.2	1356.85	9027	48.7	20.0	1367.60	11532	107.9	20.2	1361.55	10082	86.2	31.4	3
4	1348.75	7336	35.2	30.2	1357.05	9071	43.9	20.0	1368.50	11756	134.5	20.2	1361.95	10174	79.7	31.6	4
5	1349.90	7560	143.2	30.2	1357.25	9115	43.6	20.0	1369.15	11919	103.4	20.2	1362.40	10278	86.0	31.6	5
6	1350.75	7733	117.4	30.2	1357.45	9159	43.5	20.0	1369.70	12057	90.8	20.2	1362.85	10383	86.5	31.8	6
7	1351.20	7825	77.5	30.2	1357.65	9203	43.6	20.0	1370.20	12184	85.5	20.2	1363.30	10489	86.5	31.8	7
8	1351.50	7887	62.3	30.2	1357.85	9247	42.9	20.0	1370.65	12299	79.8	20.2	1363.70	10584	82.1	32.0	8
9	1351.75	7938	56.7	30.2	1358.05	9291	42.8	20.0	1370.60	12286	76.8	82.3	1364.10	10679	82.2	32.0	9
10	1351.95	7979	52.0	30.2	1358.20	9325	38.5	20.0	1366.30	11211	103.1	645.2	1364.45	10763	76.3	32.0	10
11	1352.10	8011	47.0	30.2	1358.40	9369	44.0	20.0	1359.00	9503	150.6	1010.2	1364.70	10822	73.9	42.0	11
12	1352.25	8042	47.4	30.2	1358.60	9414	44.4	19.8	1351.35	7856	161.8	990.5	1364.85	10858	66.9	46.5	12
13	1352.40	8074	47.8	30.6	1358.90	9481	53.9	20.2	1348.10	7211	112.3	435.9	1364.95	10882	59.7	45.1	13
14	1352.50	8094	41.8	30.6	1359.40	9593	76.1	19.6	1348.85	7355	74.7	0.5	1365.05	10906	59.7	45.1	14
15	1352.60	8115	42.3	30.6	1359.80	9683	66.7	20.2	1349.60	7501	75.8	0.5	1365.15	10930	59.8	45.1	15
16	1352.75	8146	47.1	30.6	1360.15	9762	60.5	20.2	1350.35	7651	78.0	0.5	1365.25	10955	60.5	45.1	16
17	1352.95	8188	47.5	25.4	1360.60	9864	72.4	20.2	1350.90	7764	74.5	16.0	1365.30	10967	53.8	45.1	17
18	1353.20	8241	47.7	20.2	1360.90	9932	55.4	20.2	1351.45	7876	78.0	20.1	1365.40	10991	59.5	45.1	18
19	1353.50	8305	52.8	20.2	1361.30	10024	66.7	20.3	1351.95	7979	73.5	20.1	1365.50	11016	59.7	45.1	19
20	1353.80	8369	52.8	20.2	1361.60	10093	56.5	20.4	1352.45	8084	74.2	20.1	1365.55	11028	53.4	45.1	20
21	1354.05	8422	47.6	20.2	1361.90	10162	56.7	20.4	1352.90	8178	68.2	19.7	1365.60	11040	53.4	45.1	21
22	1354.35	8486	52.8	20.2	1362.15	10220	51.1	20.4	1353.40	8284	74.4	19.7	1365.65	11052	53.1	45.1	22
23	1354.60	8539	48.7	20.2	1362.40	10278	50.9	20.4	1353.95	8401	68.7	7.7	1365.65	11052	47.4	45.1	23
24	1354.90	8604	54.9	20.2	1363.00	10418	90.9	20.4	1354.55	8529	67.3	0.5	1365.70	11064	52.8	45.1	24
25	1355.10	8647	43.5	20.2	1363.55	10548	87.1	20.4	1355.10	8647	62.0	0.5	1365.70	11064	46.6	45.1	25
26	1355.35	8701	48.2	20.3	1364.05	10667	82.2	20.4	1355.65	8766	62.3	0.5	1365.75	11076	52.5	45.1	26
27	1355.60	8755	48.3	20.6	1364.45	10763	70.3	20.4	1356.20	8885	62.2	0.5	1365.80	11088	52.4	45.1	27
28	1355.90	8819	52.3	20.0	1364.85	10858	69.6	20.4	1357.05	9071	94.2	0.5	1365.80	11088	46.9	45.1	28
29	1356.15	8874	49.1	20.0	1365.30	10967	75.8	20.4	1359.15	9537	257.1	20.5	1365.80	11088	47.3	45.1	29
30					1365.75	11076	76.1	20.4	1360.00	9728	129.1	31.1	1365.80	11088	46.4	45.1	30
31					1366.15	11174	70.8	20.4					1365.85	11100	52.4	45.1	31
TOTAL			1566.1	752.7			1816.5	625.5			2815.2	3504.9			2015.4	1262.2	
Inf. Ac. Ft.			3106.3				3603.0				5583.9				3997.5	23876.8	
Outf. Ac. Ft.			1493.0 + (46.4)				1240.7 + (62.3)				6951.9 + (78.0)		25035 +		(122.0)	24085.6t (661.4)	
Maximum Mean Daily Inflow			143.2				90.9				257.1				101.2	257.1	
Minimum Mean Daily Inflow			30.8				38.5				62.0				46.4	20.3	
Storage Change		+1567				+2300				-1446				+1372		-8700	

NOTE: Gage Heights and Storages as of Midnight on Day Shown ¾ Year

Max. W. S. Elev.	1370.82	feet on 4/9/48	Storage 12,342.1	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1311.15	feet on 9/30/48	Storage 1703.0	Acre Feet	R. H. HARRISON	Dam Tender	Gage Hts. copied	FHM	APK
Max. Peak Inf.	506.	C. F. S. from 2:00 A.M.	on 4/29/48	to 4:00 A.M. on 4/29/48	G. H. MIDDLETON	Hydrographer	Storage applied	FHM	APK
Max. Peak Outf.	2660	C. F. S. from 3:00 P.M.	on 12/12/47	to 5:45 P.M. on 12/12/47		Hydrographer	Inf. & Outf. comp.	FHM	APK

REMARKS ( ) INDICATES TOTAL MONTHLY EVAPORATION LOSSES.

SAN GABRIEL NO. 1 (cont'd)

F. C. Dist. Form 68C Revised 300 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In ~~Oa~~ San Gabriel Canyon for the Year Ending September 30, 1948

Continuous Water Stage Recorder Au

Drainage Area 202.7 Square Miles. Capacity of Reservoir 44,342 Ac. Ft. at Spillway Elev. 1,453.0 Ft. as of November, 1948 Survey 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	1365.90	11113	52.4	44.6	1351.96	7981	27.9	45.1	1342.11	6144	16.7	49.8	1328.70	*3477.2	14.5	44.5	1
2	1365.90	11113	45.4	44.6	1351.74	7936	24.2	45.1	1341.77	6086	22.3	49.8	1328.20	3409.2	12.6	44.5	2
3	1365.95	11125	52.4	44.6	1351.52	7891	25.7	45.1	1341.34	6013	14.7	49.8	1327.67	3339.6	11.8	44.5	3
4	1363.85	10620	43.7	297.3	1351.30	7846	25.6	45.1	1340.91	5940	14.5	49.3	1327.11	3268.8	11.8	45.4	4
5	1360.65	9875	72.2	445.7	1351.07	7798	25.5	45.1	1340.49	5869	16.1	49.3	1326.56	3197.9	11.5	45.0	5
6	1357.40	9148	76.9	441.2	1350.82	7747	24.8	46.3	1340.04	5793	13.3	49.3	1326.00	3127.5	11.5	45.0	6
7	1355.10	8647	87.1	338.1	1350.55	7692	25.4	49.8	1339.65	5728	19.0	49.3	1325.44	3055.9	10.9	45.0	7
8	1355.05	8636	42.0	45.6	1350.27	7635	24.4	49.8	1339.20	5653	14.1	49.3	1324.86	2984.7	10.9	45.0	8
9	1355.00	8625	42.4	45.6	1349.98	7576	22.8	49.8	1338.75	5578	13.9	49.3	1324.26	2913.1	11.1	45.0	9
10	1354.95	8615	42.4	45.6	1349.68	7517	22.6	49.8	1338.32	5507	15.9	49.3	1323.62	2840.7	10.8	45.0	10
11	1354.85	8593	36.4	45.6	1349.37	7456	21.4	49.8	1337.91	5441	15.5	46.5	1323.00	2770.7	11.1	44.5	11
12	1354.75	8572	37.1	45.6	1349.07	7397	22.4	49.8	1337.50	5374	13.1	45.1	1322.37	2700.7	11.2	44.5	12
13	1354.65	8550	36.8	45.6	1348.77	7339	23.0	49.8	1337.12	5312	16.2	45.6	1321.70	2629.9	11.1	45.0	13
14	1354.55	8529	37.4	45.6	1348.45	7278	22.0	49.8	1336.74	5251	16.4	45.1	1321.04	2560.3	11.2	45.0	14
15	1354.45	8508	36.9	45.4	1348.12	7215	20.8	49.8	1336.37	5192	17.7	45.1	1320.35	2491.6	11.8	45.0	15
16	1354.35	8486	36.5	45.1	1347.80	7155	21.7	49.8	1335.98	5130	16.4	45.4	1319.65	2424.6	12.3	45.0	16
17	1354.20	8454	31.4	45.1	1347.46	7091	19.5	49.8	1335.57	5065	15.0	45.4	1318.98	2359.1	12.8	45.0	17
18	1354.10	8432	36.4	45.1	1347.13	7031	21.5	49.8	1335.13	4997	13.7	45.6	1318.27	2294.1	13.4	45.0	18
19	1353.95	8401	31.7	45.1	1346.81	6972	22.0	49.8	1334.69	4928	13.2	45.6	1317.57	2228.4	13.1	45.0	19
20	1353.80	8369	30.8	45.1	1346.48	6912	21.7	49.8	1334.26	4861	14.0	45.6	1316.86	2163.6	13.3	45.0	20
21	1353.65	8337	30.1	45.1	1346.13	6847	19.3	49.8	1333.84	4797	15.1	45.6	1316.24	2111.6	13.2	38.4	21
22	1353.50	8305	30.8	45.1	1345.80	6788	22.0	49.8	1333.38	4727	12.1	45.5	1315.70	2066.8	13.5	35.1	22
23	1353.35	8274	31.2	45.1	1345.46	6728	21.7	49.8	1332.90	4655	11.5	45.5	1315.19	2022.9	13.8	35.1	23
24	1353.20	8241	30.4	45.1	1345.11	6666	21.4	49.8	1332.45	4588	13.5	45.5	1314.65	1979.1	14.0	35.1	24
25	1353.05	8210	31.5	45.1	1344.75	6603	20.5	49.8	1332.00	4521	13.1	45.5	1314.10	1934.7	14.0	35.1	25
26	1352.90	8178	30.9	45.1	1344.40	6541	20.6	49.8	1331.55	4455	13.4	45.0	1313.53	1889.0	13.6	35.1	26
27	1352.70	8136	26.1	45.1	1344.05	6480	21.2	49.8	1331.11	4391	14.2	45.0	1312.97	1842.4	13.0	35.1	27
28	1352.55	8104	31.0	45.1	1343.67	6413	18.1	49.8	1330.71	4333	17.4	44.5	1312.35	1796.0	13.0	35.1	28
29	1352.35	8063	26.7	45.1	1343.29	6348	19.4	49.8	1330.20	4261	10.2	44.5	1311.75	1749.2	12.7	35.1	29
30	1352.15	8021	26.1	45.1	1342.90	6280	17.8	49.8	1329.70	4191	11.3	44.5	1311.15	1703.0	12.7	35.1	30
31					1342.51	6213	18.1	49.8	1329.19	4119	9.9	44.5					31
TOTAL			1203.1	2697.2			685.0	1516.8			453.4	1445.1			372.2	1252.2	
Inf. Ac. Ft.			2386.3				1358.7				899.3				738.2	2259.3	
Outf. Ac. Ft.			5349.8 + (115.4)				3008.5 + (158.1)				2866.3 + (126.9)			2483.7 + (91.6)			37793.9 + (1153.4)
Maximum Mean Daily Inflow			87.1				27.9				22.3				14.5	257.1	
Minimum Mean Daily Inflow			26.1				17.8				9.9				10.8	9.9	
Storage Change		-3079				-1808				-2094				-2416		-10267.0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — Yearly Totals

Max. W. S. Elev.	1370.82	feet on 4/9/48	Storage 12,342.1	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1311.15	feet on 9/30/48	Storage 1703.0	Acre Feet	R. H. HARRISON	Dam Tender	Gage Hts. copied	FHM	APK
Max. Peak Inf.	506.	C. F. S. from 2:00 A.M. on 4/29/48	to 4:00 A.M. on 4/29/48		G. H. MIDDLETON	Hydrographer	Storage applied	FHM	DB
Max. Peak Outf.	2660.	C. F. S. from 3:00 P.M. on 12/12/47	to 5:45 P.M. on 12/12/47			Hydrographer	Inf. & Outf. comp.	FHM	RCL

REMARKS ( ) INDICATES TOTAL MONTHLY EVAPORATION LOSSES.

* 578.9 A.F. STORAGE LOSS DUE TO SILTATION; SUBSEQUENT STORAGE BASED ON INFLOW AND OUTFLOW BEGINNING OCTOBER 31, 1948

F. C. Dist. Form 68A Revised 300 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In ~~Oa~~ San Gabriel Canyon for the Year Ending September 30, 1949

Continuous Water Stage Recorder Au

Drainage Area 202.7 Square Miles. Capacity of Reservoir 43,825 Ac. Ft. at Spillway Elev. 1453.0 Ft. as of November, 1948 Survey 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	1310.52	16570	12.8	35.1	1282.0	*3025	14.8	50.9	1290.17	5213	**17.0	13.6	1298.59	8816	29.2	***31.8	1
2	1309.88	16118	13.2	35.1	1281.6	2930	14.8	19.5	1290.37	5277	17.1	13.6	1298.42	8733	26.7	30.5	2
3	1309.22	15668	13.3	35.1	1281.3	2859	14.8	18.4	1291.44	5390	19.4	13.6	1298.18	8617	25.0	30.5	3
4	1308.52	15231	13.6	35.1	1281.2	2835	14.6	15.6	1292.11	5546	21.6	13.6	1297.75	8412	20.3	30.5	4
5	1307.82	14781	13.4	35.6	1281.15	2824	13.8	14.1	1292.23	5667	19.8	13.6	1297.25	8178	18.8	30.5	5
6	1307.12	14315	12.8	35.6	1281.1	2812	13.8	14.2	1292.27	5753	18.1	13.6	1297.18	8145	22.1	23.6	6
7	1306.37	13813	11.4	35.6	1280.9	2765	14.1	16.3	1291.90	5836	17.8	13.6	1297.29	8197	22.9	20.1	7
8	1305.58	13317	11.4	35.6	1280.8	2742	14.1	15.1	1291.81	5915	17.7	13.6	1297.44	8267	24.1	20.5	8
9	1304.81	12837	12.0	35.6	1280.7	2718	14.1	15.1	1292.06	6034	**19.8	13.6	1297.85	8458	30.2	20.5	9
10	1304.05	12363	12.2	35.6	1280.6	2695	14.3	15.2	1292.28	6116	18.0	13.6	1298.16	8607	28.0	20.5	10
11	1303.28	11913	12.8	35.1	1280.5	2672	14.3	15.3	1292.54	6212	18.5	13.6	1298.55	8796	30.0	20.5	11
12	1302.53	11483	13.8	35.1	1280.5	2672	14.3	14.1	1292.80	6307	18.5	13.6	1298.89	8962	29.0	20.5	12
13	1301.76	11050	13.8	35.1	1280.5	2672	14.3	14.1	1293.05	6401	18.3	13.6	1299.35	9192	32.1	20.5	13
14	1300.96	10626	14.1	35.1	1280.5	*2672	14.3	14.2	1293.26	6482	18.1	13.9	1299.87	9456	34.2	20.9	14
15	1300.20	10195	13.8	35.1	1283.8**	2854	14.3	5.0	1293.46	6560	18.8	14.7	1300.27	9665	32.1	21.3	15
16	1299.34	9763	13.6	35.1	1286.92	3028	14.5	5.6	1293.60	6615	19.5	16.7	1300.58	9828	29.8	21.3	16
17	1298.52	9332	13.6	35.1	1287.81	3258	14.5	2.9	1294.83	7111	41.7	16.7	1300.84	9965	28.5	21.3	17
18	1297.82	8965	17.0	35.3	1287.56	3498	14.5	2.2	1295.30	7310	32.7	22.4	1301.07	1009	27.7	21.3	18
19	1297.02	8587	16.8	35.6	1288.30	3762	14.5	0.9	1295.32	7319	25.9	25.3	1301.60	1037	35.4	21.3	19
20	1296.24	8180	15.5	35.6	1288.78	3977	14.5	3.5	1295.27	7297	24.3	25.3	1304.12	1181	93.9	21.3	20
21	1295.34	7754	14.6	35.6	1289.35	4225	14.5	1.8	1295.30	7310	22.6	21.8	1304.60	1210	64.4	49.8	21
22	1294.89	7514	13.8	25.5	1290.00	4427	14.5	4.1	1295.54	7414	25.6	20.4	1304.34	1194	62.1	70.2	22
23	1294.60	7361	13.4	20.5	1291.03	4685	14.5	1.3	1295.78	7517	26.2	20.9	1304.08	1179	62.7	70.2	23
24	1294.32	7212	13.5	20.5	1289.94	4850	15.4	7.0	1295.95	7591	24.8	20.9	1303.44	1141	51.3	70.2	24
25	1294.02	7067	13.5	20.5	1289.12	4907	16.2	13.2	1296.05	7634	23.3	20.9	1303.10	1122	46.0	55.5	25
26	1293.72	6928	13.8	20.5	1289.00	4957	16.1	13.4	1296.30	7747	26.6	20.9	1303.13	1124	42.1	40.9	26
27	1293.82	6926	13.8	13.7	1289.28	4992	15.6	13.6	1297.87	8468	57.2	20.9	1303.11	1123	40.5	40.9	27
28	1284.70	4259	14.4	148.8	1289.50	5053	16.8	13.6	1298.60	8821	39.0	21.1	1303.00	1116	37.7	40.9	28
29	1284.68	3991	14.6	28.0	1289.77	5116	17.0	13.6	1298.88	8957	32.2	25.1	1302.81	1106	36.1	40.9	29
30	1284.9	*3846	14.9	22.0	1289.98	**5149	15.5	13.6	1298.82	8928	29.2	30.5	1302.61	1094	35.0	40.9	30
31	1284.9	*3745	15.1	20.0					1298.70	8869	27.6	30.5	1302.38	1081	34.6	40.9	31
TOTAL			426.3	1081.8			443.3	367.4			756.9	565.7			1132.5	1030.5	
Inf. Ac. Ft.			845.6				879.3				1501.3				2246.3	5472.5	
Outf. Ac. Ft.			2145.7 + (28.4)				728.7 + (10.1)				1122.0 + (7.3)			2044.0 + (8.1)			6040.4 + (53.9)
Maximum Mean Daily Inflow			17.0				17.0				57.2				93.9	93.9	
Minimum Mean Daily Inflow			11.4				13.8				17.0				18.8	11.4	
Storage Change		-1328.5				+1404				+372.0				+194.1		-622.0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — ¼ Year

Max. W. S. Elev.	1359.96	feet on 6/2/49	Storage 9191.	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	*1280.5	feet on 11/13/48	Storage 267.2	Acre Feet	R. HARRISON	Dam Tender	Gage Hts. copied	APK	CJR 10/28/49
Max. Peak Inf.	120.	C. F. S. from 1100 on 1/20/49	to 1200 on 1/20/49		G. H. MIDDLETON	Hydrographer	Storage applied	APK	CJR 10/28/49
Max. Peak Outf.	3780.	C. F. S. from 0800 on 6/2/49	to 0900 on 6/2/49			Hydrographer	Inf. & Outf. comp.	APK	CJR 10/28/49

REMARKS STORAGES FOR MONTH OF OCTOBER BASED ON INFLOW AND OUTFLOW. ( ) INDICATES TOTAL MONTHLY EVAPORATION LOSS.

* SUMP WATER SURFACE ELEVATION - RESERVOIR EMPTY. ** RESERVOIR WATER ELEVATIONS SHOWN, STORAGE IN RESERVOIR AND SUMP.

*** FLOW BASED ON 25-HOUR DAY.

SAN GABRIEL NO. 1 (cont'd)

F. C. Dist. Form 662 Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In San Gabriel Canyon for the Year Ending September 30, 1949
On

Continuous Water Stage Recorder Au

Drainage Area 202.7 Square Miles. Capacity of Reservoir 43,825 Ac. Ft. at Spillway Elev. 1453.0 Ft. as of November 1948 Survey 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	1302.16	1068	34.4	40.9	1318.47	2271	56.8	21.7	1339.19	4983	56.7	0.2	1355.43	8167	66.7	26.9	1
2	1302.41	1082	34.4	27.3	1319.16	2338	55.6	21.7	1339.88	5097	58.3	0.2	1355.72	8232	68.9	35.1	2
3	1303.05	1119	39.2	20.5	1319.89	2411	58.9	21.7	1340.53	5206	56.4	0.2	1355.93	8278	64.3	39.7	3
4	1303.54	1147	34.7	20.5	1320.78	2502	67.6	21.7	1341.12	5306	52.2	0.2	1356.14	8325	66.3	40.5	4
5	1304.00	1174	34.2	20.5	1321.78	2608	75.5	21.7	1341.75	5415	56.3	0.2	1356.32	8366	64.0	40.5	5
6	1304.42	1199	33.2	20.5	1322.60	2699	68.0	21.7	1342.38	5525	56.2	0.2	1356.47	8399	60.4	40.2	6
7	1305.04	1236	39.2	20.5	1323.36	2784	64.8	21.7	1342.99	5633	55.9	0.2	1356.60	8428	58.0	40.2	7
8	1305.53	1267	36.4	20.5	1324.04	2863	62.2	21.7	1343.61	5746	57.9	0.2	1356.73	8458	57.3	39.6	8
9	1305.97	1294	34.3	20.5	1324.68	2939	61.2	22.3	1344.24	5862	60.9	0.2	1356.86	8487	55.3	39.1	9
10	1306.37	1320	33.9	20.5	1325.30	3014	60.4	22.5	1344.88	5982	63.3	0.2	1356.98	8514	54.3	38.9	10
11	1306.98	1359	40.2	20.5	1326.24	3129	80.9	22.5	1345.50	6100	61.8	0.3	1357.11	8543	52.6	36.4	11
12	1307.78	1411	47.3	20.9	1326.96	3220	68.8	22.5	1346.08	6211	65.6	8.2	1357.24	8572	51.3	35.1	12
13	1308.35	1450	40.6	20.9	1327.63	3306	66.5	22.5	1346.67	6326	70.8	11.6	1357.39	8606	53.4	35.1	13
14	1308.82	1483	37.8	20.9	1328.25	3387	64.1	22.5	1347.27	6445	72.5	11.5	1357.56	8644	55.3	35.1	14
15	1309.25	1513	36.2	20.9	1328.85	3465	62.9	22.9	1347.86	6562	71.7	11.5	1357.73	8682	55.1	35.1	15
16	1309.67	1543	36.3	20.9	1329.43	3541	61.6	22.9	1348.46	6683	73.8	11.5	1357.89	8718	53.9	35.1	16
17	1310.10	1573	36.4	20.9	1330.04	3622	62.6	21.2	1349.01	6794	68.8	11.5	1358.05	8754	53.4	35.1	17
18	1310.56	1607	38.2	20.9	1330.70	3712	62.5	16.4	1349.60	6915	73.2	11.5	1358.30	8811	63.8	35.1	18
19	1311.04	1642	39.1	21.3	1331.43	3813	68.0	17.0	1350.20	7039	74.6	11.5	1358.55	8868	64.6	35.1	19
20	1311.55	1681	41.3	21.3	1332.12	3909	69.7	20.5	1350.72	7147	67.5	11.6	1358.79	8923	64.4	35.1	20
21	1312.07	1720	41.4	21.3	1332.74	3998	66.2	20.5	1351.28	7266	73.8	11.7	1358.96	8962	57.1	35.1	21
22	1312.59	1761	42.3	21.3	1333.37	4089	67.1	20.5	1351.82	7381	76.5	16.6	1359.10	8994	53.9	35.1	22
23	1313.13	1804	43.2	21.3	1333.97	4176	64.9	20.5	1352.26	7475	75.5	26.4	1359.21	9019	50.9	35.1	23
24	1313.97	1872	55.6	21.3	1334.58	4266	66.5	20.5	1352.72	7574	77.9	26.5	1359.31	9042	49.0	35.1	24
25	1314.90	1950	60.8	21.3	1335.09	4343	59.9	20.5	1353.16	7669	75.9	26.5	1359.40	9063	47.2	35.1	25
26	1315.86	2032	62.7	21.3	1335.59	4418	59.0	20.5	1353.56	7756	71.8	26.5	1359.49	9083	46.9	35.1	26
27	1316.88	2122	66.8	21.3	1336.08	4492	58.5	20.5	1353.90	7830	65.6	26.7	1359.56	9099	44.4	35.1	27
28	1317.74	2202	62.3	21.7	1336.59	4571	61.6	20.5	1354.27	7911	69.3	26.7	1359.64	9118	46.0	35.1	28
29					1337.06	4643	58.2	20.5	1354.68	8002	74.1	26.7	1359.72	9136	46.1	35.1	29
30					1337.72	4747	60.5	7.0	1355.09	8092	74.0	26.7	1359.81	9156	47.3	35.1	30
31					1338.50	4872	64.6	0.9					1359.89	9175	46.9	35.1	31
TOTAL			1182.4	612.4			1985.6	621.7			2008.8	343.7			1719.0	1119.1	
Inf. Ac. Ft.			2345.3				3938.4				3984.4				3409.6	19150.2	
Outf. Ac. Ft.			1214.7 + (9.5)				1233.1 + (35.3)				681.7 + (82.7)				2219.7 + (106.9)	[1389.6+ (288.3)]	
Maximum Mean Daily Inflow			66.8				80.9				77.9				68.9	93.9	
Minimum Mean Daily Inflow			33.2				55.6				52.2				46.0	11.4	
Storage Change		+1121.0				+2670.0				+3220.0				+1083.0		+7472.0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

% Year

Max. W. S. Elev.	1359.96	feet	on	6/2/49	Storage	9191	Acre Feet		RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	*1280.5	feet	on	11/13/48	Storage	267.2	Acre Feet		R. HARRISON	Dam Tender	Gage Hts. copied	APK CJR 10/28/49
Max. Peak Inf.	120.	C.F.S. from	1100	on	1/20/49	to 1200	on	1/20/49	G. H. MIDDLETON	Hydrographer	Storage applied	APK CJR 10/27/49
Max. Peak Outf.	3780.	C.F.S. from	0800	on	6/2/49	to 0900	on	6/2/49		Hydrographer	Inf. & Outf. comp.	APK CJR 10/28/49

REMARKS ( ) INDICATES TOTAL MONTHLY EVAPORATION
* SUMP ELEVATION

F. C. Dist. Form 662 Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In San Gabriel Canyon for the Year Ending September 30, 1949
On

Continuous Water Stage Recorder Au

Drainage Area 202.7 Square Miles. Capacity of Reservoir 43,825 Ac. Ft. at Spillway Elev. 1453.0 Ft. as of November 1948 Survey 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	1359.93	9184	42.0	35.1	1352.15	7451	24.6	36.0	1347.27	6445	21.7	36.3	1340.96	5278	16.4	35.1	1
2	1353.27	7693	52.6	802.1	1352.04	7428	27.2	36.0	1347.10	6411	21.9	36.1	1340.74	5241	18.7	35.1	2
3	1353.30	7699	42.3	36.1	1351.91	7400	24.4	36.0	1346.92	6375	20.5	36.1	1340.52	5204	18.5	35.1	3
4	1353.32	7704	41.6	36.1	1351.78	7372	24.7	36.0	1346.73	6338	19.7	36.1	1340.29	5166	18.1	35.1	4
5	1353.34	7708	40.8	36.1	1351.63	7340	22.6	36.0	1346.54	6301	20.4	36.6	1340.06	5127	18.1	35.1	5
6	1353.37	7715	41.5	36.1	1351.48	7308	22.9	36.0	1346.35	6264	20.4	36.6	1339.81	5086	17.5	35.1	6
7	1353.40	7721	40.3	35.5	1351.34	7278	23.7	36.0	1346.15	6224	18.9	36.6	1339.55	5043	15.9	35.1	7
8	1353.42	7726	39.4	35.1	1351.19	7246	22.3	36.0	1345.95	6185	19.2	36.6	1339.27	4997	14.1	35.1	8
9	1353.44	7730	39.2	35.1	1351.03	7212	21.3	36.0	1345.75	6147	19.4	36.1	1339.00	4952	14.5	35.1	9
10	1353.45	7732	38.0	35.1	1350.87	7179	21.6	36.0	1345.55	6109	19.6	36.1	1338.73	4909	15.8	35.1	10
11	1353.46	7734	38.1	35.1	1350.70	7143	19.9	36.0	1345.36	6073	20.3	36.1	1338.44	4862	13.6	35.1	11
12	1353.45	7732	35.8	35.1	1350.53	7108	20.7	36.0	1345.17	6036	20.0	36.1	1338.15	4815	13.6	35.1	12
13	1353.43	7728	35.2	35.1	1350.36	7072	20.5	36.0	1344.98	6000	20.3	36.1	1337.87	4771	14.8	35.1	13
14	1353.40	7721	33.2	34.7	1350.20	7039	22.1	36.0	1344.80	5967	21.8	36.1	1337.59	4727	14.6	35.1	14
15	1353.36	7712	32.4	34.7	1350.06	7010	24.1	36.0	1344.62	5933	20.9	35.7	1337.31	4683	14.5	35.1	15
16	1353.32	7704	32.6	34.7	1349.91	6979	23.1	36.0	1344.42	5896	19.0	35.1	1337.07	4645	17.4	35.1	16
17	1353.28	7695	35.7	38.1	1349.74	6944	20.9	36.0	1344.23	5860	19.4	35.1	1336.82	4606	17.1	35.1	17
18	1353.23	7684	33.5	37.0	1349.57	6909	20.8	36.0	1344.04	5824	19.4	35.1	1336.56	4566	16.7	35.1	18
19	1353.16	7669	32.8	37.0	1349.39	6872	20.0	36.0	1343.83	5786	18.7	35.1	1336.29	4525	15.5	35.1	19
20	1353.08	7651	32.0	37.0	1349.21	6835	20.2	36.0	1343.61	5746	17.6	35.1	1336.03	4485	16.2	35.1	20
21	1353.00	7634	32.0	37.0	1349.05	6802	22.5	36.0	1343.40	5708	18.3	35.1	1335.78	4447	17.5	35.1	21
22	1352.92	7617	31.0	37.0	1348.90	6772	23.9	36.1	1343.20	5671	18.1	35.1	1335.52	4408	17.4	35.1	22
23	1352.85	7597	29.6	37.0	1348.74	6739	22.4	36.1	1343.00	5635	19.4	35.1	1335.21	4361	13.5	35.1	23
24	1352.75	7580	30.6	37.0	1348.58	6707	22.9	36.1	1342.79	5598	19.7	35.1	1334.90	4314	13.5	35.1	24
25	1352.66	7561	29.6	37.0	1348.42	6675	22.2	36.1	1342.58	5561	19.8	35.1	1334.58	4266	12.1	34.7	25
26	1352.57	7542	29.0	37.0	1348.26	6643	22.1	36.1	1342.35	5520	16.9	35.1	1334.25	4217	11.7	34.7	26
27	1352.50	7527	31.1	37.0	1348.10	6610	21.9	36.1	1342.12	5479	16.9	35.1	1333.92	4168	11.9	34.7	27
28	1352.44	7514	31.8	36.4	1347.94	6578	22.3	36.1	1341.89	5439	17.4	35.1	1333.59	4121	13.0	34.7	28
29	1352.36	7496	29.4	36.0	1347.77	6544	21.2	36.1	1341.66	5399	17.1	35.1	1333.26	4071	11.7	34.7	29
30	1352.27	7477	29.3	36.0	1347.60	6510	21.7	36.1	1341.43	5359	17.5	35.1	1332.94	4026	13.6	34.7	30
31					1347.44	6479	23.0	36.1	1341.20	5320	18.2	35.1					31
TOTAL			1062.4	1848.3			693.7	1117.0			598.4	1104.9			457.5	1050.6	
Inf. Ac. Ft.			2107.2				1375.9				1186.9				907.4	24727.6	
Outf. Ac. Ft.			3666.0 + (139.2)				4215.5 + (158.5)				21915 + (154.3)				20838 + (117.6)	[21548.3+ (657.9)]	
Maximum Mean Daily Inflow			420				27.2				21.9				18.7	93.9	
Minimum Mean Daily Inflow			29.0				19.9				16.9				11.7	11.4	
Storage Change		-1698.0				-998.0				-1159.0				-1294.0		+2323.0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Yearly Totals

Max. W. S. Elev.	1359.96	feet	on	6/2/49	Storage	9191	Acre Feet		RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	*1280.5	feet	on	11/13/48	Storage	267.2	Acre Feet		R. HARRISON	Dam Tender	Gage Hts. copied	APK CJR 10/28/49
Max. Peak Inf.	120.	C.F.S. from	1100	on	1/20/49	to 1200	on	1/20/49	G. H. MIDDLETON	Hydrographer	Storage applied	APK CJR 10/28/49
Max. Peak Outf.	3780.	C.F.S. from	0800	on	6/2/49	to 0900	on	6/2/49		Hydrographer	Inf. & Outf. comp.	APK CJR 10/28/49

REMARKS ( ) INDICATES TOTAL MONTHLY EVAPORATION
* SUMP ELEVATION

BIG DALTON

F. C. Dist. Form 68A Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In ~~On~~ Big Dalton Canyon for the Year Ending September 30, 1948

Continuous Water Stage Recorder At

Drainage Area 4.5 Square Miles. Capacity of Reservoir 951.6 Ac. Ft. at Spillway Elev. 1706.0 Ft. as of October 1944 Survey Gage Heights Read daily

Day	OCTOBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	NOVEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	DECEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JANUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1622.3	15.7	0.1	0	1623.9	18.5		0	1624.6	19.9		0	1621.6	14.6		0	1
2	1622.4	15.9	0.1	0	1623.9	18.5		0	1624.6	19.9		0	1621.6	14.6		0	2
3	1622.5	16.0	0.1	0	1624.0	18.7		0	1624.6	19.9		0	1621.7	14.7		0	3
4	1622.6	16.2	0.1	0	1624.0	18.7		0	1624.9	20.5	0.3	0	1621.7	14.7		0	4
5	1622.6	16.2	(0.05	0	1624.0	18.7		0	1625.0	20.7	0.1	0	1621.8	14.9		0	5
6	1622.7	16.4	0.05	0	1624.1	18.9		0	1625.0	20.7		0	1621.9	15.0		0	6
7	1622.8	16.6	0.05	0	1624.1	18.9		0	1625.0	20.7		0	1621.9	15.0		0	7
8	1622.8	16.6	0.05	0	1624.1	18.9		0	1625.0	20.7		0	1621.9	15.0		0	8
9	1622.9	16.7	0.05	0	1624.1	18.9		0	1625.0	20.7		0	1622.0	15.2		0	9
10	1623.0	16.9	0.05	0	1624.1	18.9		0	1625.1	20.9		0	1622.0	15.2		0	10
11	1623.1	17.1	0.05	0	1624.2	19.1		0	1625.1	20.9		0	1622.0	15.2		0	11
12	1623.1	17.1	0.05	0	1624.2	19.1	Less than 0.05	0	1625.1	20.9	Less than 0.05	0	1622.0	15.2	Less than 0.05	0	12
13	1623.2	17.3	0.05	0	1624.2	19.1		0	1625.1	20.9		0	1622.0	15.2		0	13
14	1623.2	17.3	0.05	0	1624.2	19.1		0	1625.1	20.9		0	1622.0	15.2		0	14
15	1623.3	17.4	0.05	0	1624.2	19.1		0	1625.2	21.1		0	1622.1	15.4		0	15
16	1623.3	17.4	0.05	0	1624.2	19.1		0	1625.2	21.1		0	1622.1	15.4		0	16
17	1623.4	17.6	0.05	0	1624.2	19.1		0	1625.2	21.1		0	1622.1	15.4		0	17
18	1623.4	17.6	0.05	0	1624.3	19.3		0	1625.2	21.1		0	1622.1	15.4		0	18
19	1623.5	17.8	0.05	0	1624.3	19.3		0	1624.2	19.1	1.0	0	1622.1	15.4		0	19
20	1623.5	17.8	0.05	0	1624.3	19.3		0	1624.3	19.3		0	1622.2	15.5		0	20
21	1623.5	17.8	0.05	0	1624.3	19.3		0	1624.3	19.3		0	1622.2	15.5		0	21
22	1623.6	18.0	0.05	0	1624.4	19.5		0	1622.2	15.5	1.9	0	1622.3	15.7		0	22
23	1623.6	18.0		0	1624.4	19.5		0	1621.0	13.6	1.0	0	1622.3	15.7		0	23
24	1623.6	18.0		0	1624.4	19.5		0	1621.2	13.9		0	1622.4	15.9		0	24
25	1623.6	18.0		0	1624.4	19.5		0	1621.3	14.1		0	1622.4	15.9		0	25
26	1623.7	18.2		0	1624.5	19.7		0	1621.4	14.2		0	1622.4	15.9		0	26
27	1623.7	18.2		0	1624.5	19.7		0	1621.4	14.2		0	1622.4	15.9		0	27
28	1623.7	18.2		0	1624.5	19.7		0	1621.4	14.2		0	1622.4	15.9		0	28
29	1623.8	18.3		0	1624.5	19.7		0	1621.5	14.4		0	1622.5	16.0		0	29
30	1623.8	18.3		0	1624.5	19.7		0	1621.5	14.4		0	1622.5	16.0		0	30
31	1623.8	18.3		0					1621.5	14.4		0	1622.6	16.2		0	31
TOTAL			1.4	0			0.7	0			1.2	3.9			0.9	0	
Inf. Ac. Ft.			2.8				1.4				2.4				1.8	8.4	
Outf. Ac. Ft.				0				0				7.7			0	7.7	
Maximum Mean Daily Inflow			0.1				0.05				0.3				+0.3		
Minimum Mean Daily Inflow			+				+				+				+	+	
Storage Change			+2.8				+1.4				-5.3				+1.8	+0.7	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

½ Year

Max. W. S. Elev.	1639.2	feet on 7/30/48	Storage 66.3	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1620.8	feet on 12/23/47	Storage 13.3	Acre Feet	H. PAUL KEISER	Dam Tender	Gage Hts. copied	APK GWS	
Max. Peak Inf.	9.7	C.F.S. from 10:30 P.M. on 4/28/48	to 11:00 P.M. on 4/28/48		C. L. BREWSTER	Hydrographer	Storage applied	APK GWS	
Max. Peak Outf.	9.9	C.F.S. from 9:30 A.M. on 12/22/47	to 10:00 A.M. on 12/22/47			Hydrographer	Inf. & Outf. comp.	APK GWS	

REMARKS + INDICATES FLOW LESS THAN 0.05 C.F.S. - TOTAL FLOW FOR MONTH BASED ON STORAGE CHANGE. NO ALLOWANCE MADE FOR PERCOLATION OR EVAPORATION.

(INDICATES AVERAGE FOR PERIOD.

F. C. Dist. Form 68B Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In ~~On~~ Big Dalton Canyon for the Year Ending September 30, 1948

Continuous Water Stage Recorder At

Drainage Area 4.5 Square Miles. Capacity of Reservoir 951.6 Ac. Ft. at Spillway Elev. 1706.0 Ft. as of October 1944 Survey 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	1622.6	16.2	+	0	1624.8	20.3	(0.05	0	1628.3	28.3	(0.1	0	1634.7	48.1	(0.3	0	1
2	1622.6	16.2	+	0	1624.8	20.3	(0.05	0	1628.4	28.5	(0.1	0	1634.9	48.8	(0.3	0	2
3	1622.6	16.2	+	0	1624.9	20.5	(0.05	0	1628.9	29.8	(0.6	0	1635.0	49.2	(0.2	0	3
4	1622.7	16.4	0.1	0	1624.9	20.5	(0.05	0	1629.2	30.7	(0.6	0	1635.2	50.0	(0.2	0	4
5	1623.3	17.4	0.5	0	1625.0	20.7	0.1	0	1629.5	31.5	0.4	0	1635.3	50.3	(0.2	0	5
6	1623.4	17.6	(0.1	0	1625.1	20.9	0.1	0	1629.9	32.6	(0.4	0	1635.4	50.7	(0.2	0	6
7	1623.4	17.6	(0.05	0	1625.1	20.9	(0.05	0	1630.1	33.2	0.4	0	1635.5	51.1	(0.2	0	7
8	1623.4	17.6	0.05	0	1625.2	21.1	(0.05	0	1630.4	34.1	0.4	0	1635.6	51.5	(0.2	0	8
9	1623.5	17.8	0.05	0	1625.2	21.1	(0.05	0	1630.6	34.6	0.4	0	1635.7	51.9	(0.2	0	9
10	1623.5	17.8	0.05	0	1625.3	21.3	(0.05	0	1630.9	35.5	0.4	0	1635.8	52.2	(0.2	0	10
11	1623.6	18.0	0.05	0	1625.4	21.5	(0.05	0	1631.1	36.1	0.4	0	1635.9	52.6	(0.2	0	11
12	1623.6	18.0	0.05	0	1625.5	21.8	(0.05	0	1631.4	37.0	0.4	0	1636.0	53.0	(0.2	0	12
13	1623.7	18.2	0.05	0	1625.6	22.0	0.1	0	1631.6	37.7	0.3	0	1636.1	53.4	(0.2	0	13
14	1623.7	18.2	0.05	0	1625.8	22.4	0.3	0	1631.8	38.3	0.3	0	1636.2	53.8	(0.2	0	14
15	1623.8	18.3	0.05	0	1625.9	22.6	(0.2	0	1632.0	38.9	0.3	0	1636.3	54.2	(0.2	0	15
16	1623.8	18.3	0.05	0	1626.0	22.8	(0.2	0	1632.2	39.6	(0.3	0	1636.4	54.6	(0.2	0	16
17	1623.9	18.5	0.05	0	1626.2	23.2	0.1	0	1632.3	39.9	0.3	0	1636.4	54.6	(0.2	0	17
18	1623.9	18.5	0.05	0	1626.3	23.5	0.1	0	1632.5	40.6	0.3	0	1636.5	55.0	(0.2	0	18
19	1624.0	18.7	0.05	0	1626.4	23.7	0.1	0	1632.6	40.9	0.3	0	1636.5	55.0	0.1	0	19
20	1624.1	18.9	0.05	0	1626.5	23.9	0.1	0	1632.8	41.5	0.3	0	1636.6	55.3	0.1	0	20
21	1624.1	18.9	0.05	0	1626.6	24.1	0.1	0	1632.9	41.9	0.2	0	1636.7	55.7	0.1	0	21
22	1624.2	19.1	0.05	0	1626.7	24.3	0.1	0	1633.1	42.5	0.2	0	1636.8	56.1	0.1	0	22
23	1624.2	19.1	0.05	0	1626.8	24.6	0.2	0	1633.2	42.9	0.2	0	1636.9	56.5	0.1	0	23
24	1624.3	19.3	0.05	0	1627.2	25.5	0.4	0	1633.3	43.2	0.2	0	1637.0	56.9	0.1	0	24
25	1624.4	19.5	0.05	0	1627.3	25.8	0.2	0	1633.5	43.9	0.2	0	1637.0	56.9	0.1	0	25
26	1624.4	19.5	(0.05	0	1627.5	26.2	(0.2	0	1633.6	44.2	0.2	0	1637.1	57.3	0.1	0	26
27	1624.5	19.7	0.1	0	1627.6	26.5	0.2	0	1633.7	44.6	0.2	0	1637.2	57.7	0.1	0	27
28	1624.6	19.9	0.1	0	1627.7	26.8	0.2	0	1634.1	46.0	0.7	0	1637.2	57.7	0.1	0	28
29	1624.7	20.1	0.1	0	1627.9	27.2	0.2	0	1634.4	47.0	(0.5	0	1637.3	58.2	0.2	0	29
30					1628.0	27.5	0.2	0	1634.6	47.8	0.4	0	1637.4	58.6	0.2	0	30
31					1628.2	28.0	0.1	0					1637.4	58.6	(0.2	0	31
TOTAL			2.0	0			4.0	0			10.0	0			5.4	0	
Inf. Ac. Ft.			4.0				7.9				19.8				10.7	50.8	
Outf. Ac. Ft.				0				0				0			0	7.7	
Maximum Mean Daily Inflow			0.5				0.4				0.7				0.3	0.7	
Minimum Mean Daily Inflow			+				0.05				0.1				0.1	+	
Storage Change			+3.9				+7.9				+19.8				+10.8	+43.1	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

% Year

Max. W. S. Elev.	1639.2	feet on 7/30/48	Storage 66.3	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1620.8	feet on 12/23/47	Storage 13.3	Acre Feet	H. PAUL KEISER	Dam Tender	Gage Hts. copied	HL RCL	8/23/48
Max. Peak Inf.	9.7	C.F.S. from 10:30P.M. on 4/28/48	to 11:00 P.M. on 4/28/48		F. E. STUNDEN	Hydrographer	Storage applied	HL RCL	8/23/48
Max. Peak Outf.	9.9	C.F.S. from 9:30 A.M. on 12/22/47	to 10:00 A.M. on 12/22/47			Hydrographer	Inf. & Outf. comp.	HL RCL	8/27/48

REMARKS (INDICATES AVERAGE FOR PERIOD. NO ALLOWANCE MADE FOR PERCOLATION OR EVAPORATION.

+ INDICATES FLOW LESS THAN 0.05 C.F.S.

BIG DALTON (cont'd)

F. C. Dist. Form 86C Revised 800 11/44

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

In Big Dalton Canyon for the Year Ending September 30, 1948

Drainage Area 4.6 Square Miles. Capacity of Reservoir 951.6 Ac. Ft. at Spillway Elev. 1706.0 Ft. as of October 1944 Survey Gage Heights Read daily

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

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	1637.5	590	(02	0	1638.8	645	(005	0	1639.1	658	0	0	1639.0	654	0	0	1
2	1637.6	594	02	0	1638.9	650	005	0	1639.1	658	0	0	1639.0	654	0	0	2
3	1637.7	598	02	0	1638.9	650	005	0	1639.1	658	0	0	1639.0	654	0	0	3
4	1637.7	598	02	0	1638.9	650	005	0	1639.1	658	0	0	1639.0	654	0	0	4
5	1637.8	603	02	0	1638.9	650	005	0	1639.1	658	0	0	1639.0	654	0	0	5
6	1637.8	603	01	0	1638.9	650	005	0	1639.1	658	0	0	1639.0	654	0	0	6
7	1637.9	607	01	0	1638.9	650	005	0	1639.1	658	0	0	1639.0	654	0	0	7
8	1637.9	607	01	0	1639.0	654	005	0	1639.1	658	0	0	1638.9	650	0	0	8
9	1638.0	611	01	0	1639.0	654	005	0	1639.1	658	0	0	1638.9	650	0	0	9
10	1638.0	611	01	0	1639.0	654	005	0	1639.1	658	0	0	1638.9	650	0	0	10
11	1638.0	611	01	0	1639.0	654	003	0	1639.1	658	0	0	1638.9	650	0	0	11
12	1638.1	615	01	0	1639.0	654	003	0	1639.1	658	0	0	1638.9	650	0	0	12
13	1638.1	615	01	0	1639.0	654	003	0	1639.1	658	0	0	1638.9	650	0	0	13
14	1638.2	620	01	0	1639.0	654	003	0	1639.1	658	0	0	1638.9	650	0	0	14
15	1638.2	620	01	0	1639.0	654	003	0	1639.1	658	0	0	1638.9	650	0	0	15
16	1638.3	624	01	0	1639.0	654	003	0	1639.1	658	0	0	1638.9	650	0	0	16
17	1638.3	624	01	0	1639.1	658	003	0	1639.1	658	0	0	1638.8	645	0	0	17
18	1638.4	628	01	0	1639.1	658	003	0	1639.1	658	0	0	1638.8	645	0	0	18
19	1638.4	628	01	0	1639.1	658	003	0	1639.1	658	0	0	1638.8	645	0	0	19
20	1638.4	628	01	0	1639.1	658	002	0	1639.1	658	0	0	1638.8	645	0	0	20
21	1638.5	632	005	0	1639.1	658	002	0	1639.1	658	0	0	1638.8	645	0	0	21
22	1638.5	632	005	0	1639.1	658	002	0	1639.1	658	0	0	1638.8	645	0	0	22
23	1638.5	632	005	0	1639.1	658	002	0	1639.1	658	0	0	1638.8	645	0	0	23
24	1638.6	637	005	0	1639.2	663	002	0	1639.0	654	0	0	1638.8	645	0	0	24
25	1638.6	637	005	0	1639.2	663	002	0	1639.0	654	0	0	1638.8	645	0	0	25
26	1638.6	637	005	0	1639.2	663	001	0	1639.0	654	0	0	1638.8	645	0	0	26
27	1638.7	641	005	0	1639.2	663	0	0	1639.0	654	0	0	a1638.8	645	0	0	27
28	1638.7	641	005	0	1639.2	663	0	0	1639.0	654	0	0	a1638.7	641	0	0	28
29	1638.8	645	005	0	1639.2	663	0	0	1639.0	654	0	0	a1638.7	641	0	0	29
30	1638.8	645	(005	0	1639.2	663	0	0	1639.0	654	0	0	a1638.7	641	0	0	30
31					1639.2	663	(0	0	1639.0	654	0	0					31
TOTAL			30	0			09	0			0	0			0	0	
Inf. Ac. Ft.			59				18				0				0	585	
Outf. Ac. Ft.				0				0			0 + (0.8)				0 + (1.4)	7.7 + (2.3)	
Maximum Mean Daily Inflow			02				005				0				0	07	
Minimum Mean Daily Inflow			005				0				0				0	0	
Storage Change		+ 59				+ 18				- 09				- 13		+ 486	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — Yearly Totals

Max. W. S. Elev.	1639.2	feet	on	7/30/48	Storage	66.3	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1620.8	feet	on	12/23/47	Storage	13.3	Acre Feet	H. PAUL KEISER	Dam Tender	Gage Hts. copied RCL	JHL	10/13/48
Max. Peak Inf.	9.7	C. F. S. from	10:30 P.M.	on	4/28/48	to	11:00 P.M.	on	4/28/48	F. E. STUNDEN	Hydrographer	Storage applied RCL	JHL	"
Max. Peak Outf.	9.9	C. F. S. from	09:30 A.M.	on	12/22/47	to	10:00 A.M.	on	12/22/47		Hydrographer	Inf. & Outf. comp. RCL	JHL	"

REMARKS
(INDICATES TOTAL FOR PERIOD
( ) NET MONTHLY LOSS DUE TO EVAPORATION
a INDICATES RECORDER CLOCK REMOVED

F. C. Dist. Form 86A Revised 800 11/44

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

In Big Dalton Canyon for the Year Ending September 30, 1949

Drainage Area 4.5 Square Miles. Capacity of Reservoir 951.6 Ac. Ft. at Spillway Elev. 1706.0 Ft. as of October 1944 Survey Gage Heights Read daily

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

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	1638.7	641	0	0	1638.6	637	0	0	1638.4	628	0	0	1637.9	607	01	01	1
2	1638.7	641	0	0	1638.6	637	0	0	1638.4	628	0	0	1637.9	607	01	01	2
3	1638.7	641	0	0	1638.6	637	0	0	1638.4	628	0	0	1637.8	603	01	01	3
4	1638.7	641	0	0	1638.6	637	0	0	1638.4	628	0	0	1637.8	603	01	01	4
5	1638.7	641	0	0	1638.6	637	0	0	1638.4	628	0	0	1637.8	603	01	01	5
6	1638.7	641	0	0	1638.6	637	0	0	1638.4	628	0	0	1637.8	603	01	01	6
7	1638.7	641	0	0	1638.6	637	0	0	1638.4	628	0	0	1637.8	603	01	01	7
8	1638.7	641	0	0	1638.6	637	0	0	1638.3	624	0	01	1637.8	603	01	01	8
9	1638.6	637	0	0	1638.6	637	0	0	1638.3	624	0	(01	1637.8	603	01	01	9
10	1638.6	637	0	0	1638.6	637	0	0	1638.2	620	0	01	1637.8	603	01	01	10
11	1638.6	637	0	0	1638.6	637	0	0	1638.1	615	0	01	1637.8	603	01	01	11
12	1638.6	637	0	0	1638.5	632	0	0	1638.0	611	0	01	1637.8	603	01	01	12
13	1638.6	637	0	0	1638.5	632	0	0	1638.0	611	0	(01	1637.8	603	01	01	13
14	1638.6	637	0	0	1638.5	632	0	0	1637.9	607	0	01	1637.7	598	01	01	14
15	1638.6	637	0	0	1638.5	632	0	0	1637.8	603	0	01	1637.7	598	01	01	15
16	1638.6	637	0	0	1638.5	632	0	0	1637.8	603	01	01	1637.7	598	01	01	16
17	1638.6	637	0	0	1638.5	632	0	0	1638.0	611	05	01	1637.7	598	01	01	17
18	1638.6	637	0	0	1638.5	632	0	0	1638.0	611	01	01	1637.7	598	01	01	18
19	1638.6	637	0	0	1638.5	632	0	0	1638.0	611	01	01	1637.9	607	05	01	19
20	1638.6	637	0	0	1638.5	632	0	0	1637.9	607	01	01	1638.0	611	03	01	20
21	1638.6	637	0	0	1638.5	632	0	0	1637.9	607	01	01	1638.0	611	(02	01	21
22	1638.6	637	0	0	1638.5	632	0	0	1637.9	607	01	01	1638.1	615	02	01	22
23	1638.6	637	0	0	1638.5	632	0	0	1637.9	607	01	01	1638.1	615	02	01	23
24	1638.6	637	0	0	1638.4	628	0	0	1637.9	607	01	01	1638.1	615	02	01	24
25	1638.6	637	0	0	1638.4	628	0	0	1637.9	607	01	01	1638.1	615	02	01	25
26	1638.6	637	0	0	1638.4	628	0	0	1637.9	607	01	01	1638.2	620	02	01	26
27	1638.6	637	0	0	1638.4	628	0	0	1637.9	607	01	01	1638.2	620	02	01	27
28	1638.6	637	0	0	1638.4	628	0	0	1637.9	607	01	01	1638.3	624	01	01	28
29	1638.6	637	0	0	1638.4	628	0	0	1637.9	607	01	01	1638.3	624	01	01	29
30	1638.6	637	0	0	1638.4	628	0	0	1637.9	607	01	01	1638.3	624	01	01	30
31	1638.6	637	0	0					1637.9	607	01	01	1638.3	624	(01	01	31
TOTAL			0	0			0	0			20	24			44	31	
Inf. Ac. Ft.			0				0				40				87	127	
Outf. Ac. Ft.			0	+ (0.4)			0	+ (0.9)			48	+ (1.4)			61 + (0.8)	109 + (3.5)	
Maximum Mean Daily Inflow			0				0				05				05	05	
Minimum Mean Daily Inflow			0				0				0				01	0	
Storage Change		- 04				- 09				- 21				+ 17		- 17	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — ½ Year

Max. W. S. Elev.	1648.9	feet IN	on	JUNE & JULY	Storage	119.0	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1624.4	feet	on	9/22/49	Storage	19.5	Acre Feet	P. KEISER	Dam Tender	Gage Hts. copied JHL	EAD	3/28/49
Max. Peak Inf.	3.3	C. F. S. from	1300	on	12/17/48	to	1600	on	12/17/48	F. E. STUNDEN	Hydrographer	Storage applied JHL	EAD	3/28/49
Max. Peak Outf.	7.9	C. F. S. from	0800	on	9/15/49	to	2400	on	9/15/49		Hydrographer	Inf. & Outf. comp. JHL	EAD	3/28/49

REMARKS
(INDICATES AVERAGE FOR PERIOD.
( ) INDICATES EVAPORATION LOSSES.
EVAPORATION LOSSES ARE IGNORED DURING PERIODS OF INFLOW.

BIG DALTON (cont'd)

F. C. Dist. Form 68A Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In ~~On~~ Big Dalton Canyon for the Year Ending September 30, 1949

Continuous Water Stage Recorder Au

Drainage Area 4.5 Square Miles. Capacity of Reservoir 951.8 Ac. Ft. at Spillway Elev. 1706.0 Ft. as of October 1944 Survey 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	628	0.1	0.05	1640.3	713	0.3	0.03	1645.1	959	0.4	0.02	1647.1	1076	0.2	0	1
2	1638.4	628	0.1	0.05	1640.4	718	0.3	0.03	1645.2	964	0.4	0.02	1647.2	1082	0.2	0	2
3	1638.4	628	0.1	0.05	1640.6	727	0.5	0.03	1645.3	970	0.3	0.02	1647.2	1082	0.2	0	3
4	1638.5	632	0.1	0.05	1640.8	737	0.5	0.03	1645.4	976	0.3	0.02	1647.3	1089	0.2	0	4
5	1638.5	632	0.1	0.05	1641.0	746	0.5	0.03	1645.5	982	0.3	0.02	1647.3	1089	0.2	0	5
6	1638.6	637	0.1	0.05	1641.2	756	0.5	0.03	1645.6	987	0.3	0.02	1647.4	1095	0.2	0	6
7	1638.6	637	0.2	0.05	1641.4	766	0.5	0.03	1645.6	987	0.3	0.02	1647.4	1095	0.1	0	7
8	1638.7	641	0.2	0.05	1641.6	775	0.5	0.03	1645.7	993	0.3	0.02	1647.4	1095	0.1	0	8
9	1638.7	641	0.2	0.05	1641.7	780	0.5	0.03	1645.8	999	0.3	0.02	1647.5	1101	0.1	0	9
10	1638.7	641	0.2	0.05	1641.9	790	0.4	0.03	1645.9	1004	0.3	0.02	1647.5	1101	0.1	0	10
11	1638.8	645	0.3	0.05	1642.2	805	0.8	0.03	1646.0	1010	0.2	0.02	1647.5	1101	0.1	0	11
12	1638.9	650	0.2	0.05	1642.4	815	0.5	0.03	1646.0	1010	0.2	0.02	1647.6	1107	0.1	0	12
13	1639.0	654	0.2	0.05	1642.6	826	0.5	0.03	1646.1	1016	0.2	0.02	1647.6	1107	0.1	0	13
14	1639.0	654	0.2	0.05	1642.7	831	0.5	0.03	1646.2	1022	0.2	0.02	1647.7	1113	0.2	0	14
15	1639.1	658	0.2	0.05	1642.9	841	0.5	0.03	1646.2	1022	0.2	0.02	1647.7	1113	0.2	0	15
16	1639.1	658	0.2	0.05	1643.0	846	0.4	0.03	1646.3	1028	0.2	0.02	1647.8	1120	0.3	0	16
17	1639.2	663	0.2	0.05	1643.2	857	0.4	0.03	1646.4	1034	0.2	0.02	1647.9	1126	0.3	0	17
18	1639.2	663	0.2	0.05	1643.3	862	0.4	0.03	1646.4	1034	0.3	0.02	1648.0	1132	0.3	0	18
19	1639.3	668	0.2	0.05	1643.5	872	0.5	0.03	1646.5	1040	0.4	0.02	1648.0	1132	0.3	0	19
20	1639.3	668	0.2	0.05	1643.7	883	0.6	0.03	1646.6	1046	0.4	0.02	1648.1	1138	0.2	0	20
21	1639.4	672	0.1	0.05	1643.8	888	0.3	0.03	1646.7	1052	0.3	0.02	1648.1	1138	0.2	0	21
22	1639.5	676	0.1	0.05	1643.9	894	0.4	0.03	1646.7	1052	0.2	0.02	1648.2	1145	0.2	0	22
23	1639.5	676	0.1	0.05	1644.1	904	0.5	0.03	1646.8	1058	0.2	0.02	1648.2	1145	0.2	0	23
24	1639.6	681	0.3	0.05	1644.2	910	0.4	0.03	1646.8	1058	0.2	0.02	1648.2	1145	0.2	0	24
25	1639.7	686	0.2	0.05	1644.3	915	0.3	0.03	1646.9	1064	0.2	0.02	1648.2	1145	0.2	0	25
26	1639.9	694	0.5	0.05	1644.4	921	0.3	0.03	1646.9	1064	0.2	0.02	1648.3	1151	0.1	0	26
27	1640.1	704	0.5	0.05	1644.5	926	0.3	0.03	1646.9	1064	0.2	0.02	1648.4	1158	0.1	0	27
28	1640.2	708	0.3	0.05	1644.6	931	0.3	0.03	1647.0	1070	0.2	0.02	1648.4	1158	0.1	0	28
29					1644.7	937	0.3	0.03	1647.0	1070	0.2	0	1648.4	1158	0.1	0	29
30					1644.9	948	0.6	0.03	1647.1	1076	0.1	0	1648.4	1158	0.1	0	30
31					1645.0	953	0.3	0.03					1648.5	1164	0.1	0	31
TOTAL			5.6	1.4			13.6	0.9			7.7	0.6			5.3	0	
Inf. Ac. Ft.			111				270				153				10.5		766
Outf. Ac. Ft.				28			18 + (0.6)				12 + (1.8)			0 + (1.8)			167+(7.7)
Maximum Mean Daily Inflow			0.5				0.8				0.4				0.3		0.8
Minimum Mean Daily Inflow			0.1				0.3				0.1				0.1		0
Storage Change		+84				+245				+123				+88			+523

NOTE: Gage Heights and Storages as of Midnight on Day Shown

½ Year

Max. W. S. Elev.	1648.9	feet IN on JUNE & JULY	Storage 119.0	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1624.4	feet on 9/22/49	Storage 19.5	Acre Feet	P. KEISER	Dam Tender	Gage Hts. copied	JHL	CJR 10/31/49
Max. Peak Inf.	3.3	C. F. S. from 1300 on 12/17/48 to 1600 on 12/17/48			F. E. STUNDEN	Hydrographer	Storage applied	JHL	CJR 10/31/49
Max. Peak Outf.	7.9	C. F. S. from 0800 on 9/15/49 to 2400 on 9/15/49				Hydrographer	Inf. & Outf. comp.	JHL	CJR 10/31/49

REMARKS (INDICATES AVERAGE FOR PERIOD.
( ) INDICATES EVAPORATION LOSSES.

F. C. Dist. Form 68A Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In ~~On~~ Big Dalton Canyon for the Year Ending September 30, 1949

Continuous Water Stage Recorder Au

Drainage Area 4.5 Square Miles. Capacity of Reservoir 951.8 Ac. Ft. at Spillway Elev. 1706.0 Ft. as of October 1944 Survey 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	1648.5	1164	0.2	0	1648.9	1190	0.05	0	1648.7	1177	0.03	0	1648.3	1151		0	1
2	1648.5	1164	0.2	0	1648.9	1190	0.05	0	1648.7	1177	0.03	0	1648.3	1151		0	2
3	1648.6	1170	0.1	0	1648.9	1190	0.05	0	1648.7	1177	0.03	0	1648.3	1151		0	3
4	1648.6	1170	0.1	0	1648.9	1190	0.05	0	1648.7	1177	0.03	0	1648.2	1145		0	4
5	1648.6	1170	0.1	0	1648.9	1190	0.05	0	1648.7	1177	0.03	0	1648.2	1145		0	5
6	1648.6	1170	0.1	0	1648.9	1190	0.05	0	1648.7	1177	0.03	0	1648.2	1145	Negligible	0	6
7	1648.7	1177	0.1	0	1648.9	1190	0.05	0	1648.7	1177	0.03	0	1648.2	1145		0	7
8	1648.7	1177	0.1	0	1648.9	1190	0.05	0	1648.6	1170	0.03	0	1648.2	1145		0	8
9	1648.7	1177	0.1	0	1648.9	1190	0.05	0	1648.6	1170	0.02	0	1648.1	1138		0	9
10	1648.7	1177	0.1	0	1648.9	1190	0.05	0	1648.6	1170	0.02	0	1648.1	1138		0	10
11	1648.7	1177	0.09	0	1648.9	1190	0.05	0	1648.6	1170	0.02	0	1648.1	1138		0	11
12	1648.7	1177	0.09	0	1648.9	1190	0.05	0	1648.6	1170	0.02	0	1648.1	1138		0	12
13	1648.8	1183	0.09	0	1648.9	1190	0.05	0	1648.6	1170	0.02	0	1648.0	1132		0	13
14	1648.8	1183	0.09	0	1648.9	1190	0.05	0	1648.5	1164	0.02	0	1648.0	1132		0	14
15	1648.8	1183	0.09	0	1648.9	1190	0.05	0	1648.5	1164	0.02	0	1646.3	1028		5.2	15
16	1648.8	1183	0.09	0	1648.9	1190	0.05	0	1648.5	1164	0.02	0	1643.6	878	*0.2	7.7	16
17	1648.8	1183	0.09	0	1648.9	1190	0.04	0	1648.5	1164	0.02	0	1640.8	737	0.4	7.5	17
18	1648.8	1183	0.09	0	1648.9	1190	0.04	0	1648.5	1164	0.02	0	1637.6	594	0.3	7.4	18
19	1648.8	1183	0.09	0	1648.9	1190	0.04	0	1648.5	1164	0.02	0	1634.1	460	0.3	7.0	19
20	1648.8	1183	0.09	0	1648.9	1190	0.04	0	1648.5	1164	0.02	0	1630.4	341	0.3	6.3	20
21	1648.9	1190	0.08	0	1648.9	1190	0.04	0	1648.5	1164	0.02	0	1626.2	232	0.3	5.8	21
22	1648.9	1190	0.08	0	1648.8	1183	0.04	0	1648.5	1164	0.02	0	1624.8	203	0.3	1.8	22
23	1648.9	1190	0.08	0	1648.8	1183	0.04	0	1648.5	1164	0.02	0	1625.2	211	0.3	0	23
24	1648.8	1183	0.08	0	1648.8	1183	0.04	0	1648.5	1164	0.02	0	1625.4	215	0.3	0	24
25	1648.8	1183	0.08	0	1648.8	1183	0.04	0	1648.4	1158	0.02	0	1625.6	220	0.2	0	25
26	1648.8	1183	0.08	0	1648.8	1183	0.04	0	1648.4	1158	0.02	0	1625.7	222	0.2	0	26
27	1648.8	1183	0.08	0	1648.8	1183	0.04	0	1648.4	1158	0.02	0	1625.9	226	0.2	0	27
28	1648.8	1183	0.08	0	1648.8	1183	0.04	0	1648.3	1151	0.02	0	1626.0	228	0.2	0	28
29	1648.9	1190	0.08	0	1648.7	1177	0.04	0	1648.3	1151	0.02	0	1626.1	230	0.1	0	29
30	1648.9	1190	0.08	0	1648.7	1177	0.04	0	1648.3	1151	0.02	0	1626.2	232	0.1	0	30
31					1648.7	1177	0.04	0	1648.3	1151	0.02	0					31
TOTAL			2.9	0			1.4	0			0.7	0			3.7	48.7	
Inf. Ac. Ft.			58				28				14				73	939	
Outf. Ac. Ft.			0 + (3.2)				0 + (4.1)				0 + (4.0)			96.6 + (2.6)			1133+(21.6
Maximum Mean Daily Inflow			0.2				0.05				0.03				0.4		0.8
Minimum Mean Daily Inflow			0.08				0.04				0.02				0		0
Storage Change		+26				-13				-26				-919			-409

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Yearly Totals

Max. W. S. Elev.	1648.9	feet IN on JUNE & JULY	Storage 119.0	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1624.4	feet on 9/22/49	Storage 19.5	Acre Feet	P. KEISER	Dam Tender	Gage Hts. copied	JHL	CJR 10/31/49
Max. Peak Inf.	3.3	C. F. S. from 1300 on 12/17/48 to 1600 on 12/17/48			F. E. STUNDEN	Hydrographer	Storage applied	JHL	CJR 10/31/49
Max. Peak Outf.	7.9	C. F. S. from 0800 on 9/15/49 to 2400 on 9/15/49				Hydrographer	Inf. & Outf. comp.	JHL	CJR 10/31/49

REMARKS (INDICATES AVERAGE FOR PERIOD OR PRORATED DAILY AMOUNTS.
* BANK STORAGE
( ) INDICATES EVAPORATION LOSSES

SAN DIMAS

F. C. Dist. Form 86A Revised 300 11/44

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

In San Dimas Canyon for the Year Ending September 30, 1948

Or

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

Drainage Area 16.2 Square Miles. Capacity of Reservoir 1,042.5 Ac. Ft. at Spillway Elev. 1,462.0 Ft. as of November, 1944 Survey 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	1398.4	253	02	0	1402.7	401	05	0	1411.4	805	08	0	1423.1	1680	13	0	1
2	1398.5	256	02	0	1403.0	412	05	0	1411.8	827	11	0	1423.4	1710	12	0	2
3	1398.6	259	02	0	1403.2	420	05	0	1412.1	844	09	0	1423.6	1731	12	0	3
4	1398.8	266	02	0	1403.5	432	05	0	1413.1	902	29	0	1423.8	1751	12	0	4
5	1398.9	269	02	0	1403.8	444	05	0	1415.1	1026	62	0	1424.1	1781	12	0	5
6	1399.0	272	02	0	1404.0	452	05	0	1415.9	1078	27	0	1424.3	1802	11	0	6
7	1399.2	278	02	0	1404.3	465	05	0	1416.4	1113	17	0	1424.5	1823	11	0	7
8	1399.3	282	03	0	1404.5	473	05	0	1416.8	1141	14	0	1424.7	1844	11	0	8
9	1399.4	285	03	0	1404.8	486	06	0	1417.3	1170	13	0	1424.9	1865	10	0	9
10	1399.6	291	03	0	1405.1	498	06	0	1417.5	1192	12	0	1425.1	1886	10	0	10
11	1399.7	294	03	0	1405.4	511	06	0	1417.9	1222	12	0	1425.3	1907	10	0	11
12	1399.8	298	03	0	1405.7	524	06	0	1418.2	1245	12	0	1425.4	1918	10	0	12
13	1400.0	304	02	0	1405.9	533	06	0	1418.5	1269	12	0	1425.6	1939	10	0	13
14	1400.2	311	02	0	1406.2	546	07	0	1418.7	1285	12	0	1425.8	1961	09	0	14
15	1400.3	315	02	0	1406.5	560	07	0	1419.0	1309	12	0	1426.0	1982	09	0	15
16	1400.4	318	02	0	1406.9	578	07	0	1419.3	1334	12	0	1426.1	1993	09	0	16
17	1400.6	325	02	0	1407.2	592	07	0	1419.5	1351	12	0	1426.3	2015	09	0	17
18	1400.7	329	02	0	1407.5	607	07	0	1419.8	1376	12	0	1426.5	2037	09	0	18
19	1400.8	332	02	0	1407.8	621	07	0	1420.1	1402	12	0	1426.7	2058	09	0	19
20	1400.9	336	02	0	1408.1	635	07	0	1420.4	1428	12	0	1426.8	2069	08	0	20
21	1401.0	339	02	0	1408.4	650	08	0	1420.7	1455	14	0	1427.0	2091	08	0	21
22	1401.1	343	02	0	1408.8	669	08	0	1420.9	1472	10	0	1427.2	2114	08	0	22
23	1401.3	350	02	0	1409.1	684	08	0	1421.2	1500	10	0	1427.2	2114	08	08	23
24	1401.4	353	02	0	1409.4	699	08	0	1421.4	1518	10	0	1426.9	2080	08	19	24
25	1401.5	357	03	0	1409.7	715	08	0	1421.6	1537	10	0	1426.7	2058	08	19	25
26	1401.6	361	03	0	1410.0	730	08	0	1421.8	1555	10	0	1426.3	2015	08	19	26
27	1401.8	368	03	0	1410.3	746	08	0	1422.1	1584	10	0	1426.0	1982	08	19	27
28	1401.9	371	03	0	1410.6	762	08	0	1422.3	1603	10	0	1425.8	1961	08	19	28
29	1402.0	375	03	0	1410.8	772	08	0	1422.5	1622	11	0	1425.7	1950	08	19	29
30	1402.2	382	03	0	1411.1	789	08	0	1422.7	1641	11	0	1425.6	1939	08	18	30
31	1402.5	394	04	0					1422.9	1660	11	0	1425.5	1929	08	18	31
TOTAL			75	0			199	0			439	0			294	158	
Inf. Ac. Ft.			149				395				871				583	1998	
Outf. Ac. Ft.				0				0				0			313	313	
Maximum Mean Daily Inflow			04				08				62				13	62	
Minimum Mean Daily Inflow			02				05				08				08	02	
Storage Change	+146				+395				+871				+269			+1683	

NOTE: Gage Heights and Storages as of Midnight on Day Shown ½ Year

Max. W. S. Elev.	1447.9	feet on	5/14/48	Storage	589.8	Acre Feet			
Min. W. S. Elev.	1398.2	feet on	10/1/47	Storage	24.6	Acre Feet			
Max. Peak Inf.	15.2	C. F. S. from	8:00 A.M.	on	2/5/48	to	10:00 A.M.	on	2/5/48
Max. Peak Outf.	4.7	C. F. S. from	11:35 A.M.	on	8/4/48	to	12:05 P.M.	on	8/4/48

REMARKS { INDICATES AVERAGE FOR PERIOD
NO ALLOWANCE MADE FOR PERCOLATION OR EVAPORATION

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
G. W. RODGERS	Dam Tender	Gage Hts. copied JHL	DB	
C. L. BREWSTER	Hydrographer	Storage applied JHL	DB	
	Hydrographer	Inf. & Outf. comp. JHL	WB	

F. C. Dist. Form 86B Revised 300 11/44

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

In San Dimas Canyon for the Year Ending September 30, 1948

Or

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

Drainage Area 16.2 Square Miles. Capacity of Reservoir 1,042.5 Ac. Ft. at Spillway Elev. 1,462.0 Ft. as of November, 1944 Survey Gage Heights Read Daily

Day	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1425.4	1918	12	18	1434.0	2972	14	0	1441.7	4347	18	01	1446.9	5625	15	01	1
2	1425.3	1907	12	17	1434.2	3002	14	0	1441.9	4390	17	01	1447.0	5652	15	01	2
3	1425.2	1896	11	17	1434.3	3017	13	0	1442.4	4504	58	01	1447.1	5679	15	01	3
4	1425.1	1886	12	17	1434.5	3047	13	0	1442.8	4595	47	01	1447.2	5707	14	01	4
5	1426.7	2058	105	18	1434.7	3076	13	0	1443.1	4665	36	01	1447.3	5734	14	01	5
6	1427.9	2193	77	09	1434.8	3091	13	0	1443.4	4737	38	01	1447.4	5761	12	01	6
7	1428.5	2263	35	0	1435.0	3121	13	0	1443.6	4784	25	01	1447.4	5761	12	01	7
8	1428.9	2309	24	0	1435.2	3152	12	0	1443.8	4832	25	01	1447.5	5789	12	01	8
9	1429.3	2357	24	0	1435.3	3168	12	0	1444.0	4880	25	01	1447.6	5816	12	01	9
10	1429.6	2393	18	0	1435.5	3199	12	0	1444.2	4930	26	01	1447.7	5843	12	01	10
11	1429.8	2417	15	0	1435.6	3214	12	0	1444.4	4980	26	01	1447.7	5843	10	01	11
12	1430.1	2454	15	0	1435.7	3230	12	0	1444.5	5005	17	01	1447.8	5870	10	01	12
13	1430.4	2491	15	0	1436.0	3276	14	0	1444.7	5054	17	01	1447.9	5898	09	01	13
14	1430.6	2516	15	0	1436.7	3391	58	0	1444.8	5079	17	01	1447.9	5898	09	10	14
15	1430.9	2554	14	0	1437.2	3475	43	0	1444.9	5104	16	01	1447.8	5870	09	20	15
16	1431.1	2579	14	0	1437.4	3509	17	0	1445.0	5129	13	01	1447.6	5816	09	20	16
17	1431.3	2605	14	0	1437.9	3596	45	01	1445.1	5155	13	01	1447.5	5789	09	20	17
18	1431.6	2644	14	0	1438.2	3649	27	01	1445.2	5180	13	01	1447.4	5761	09	20	18
19	1431.8	2670	14	0	1438.6	3722	38	01	1445.3	5206	13	01	1447.3	5734	09	20	19
20	1432.0	2696	14	0	1438.9	3777	29	01	1445.4	5232	13	01	1447.2	5707	09	21	20
21	1432.2	2723	14	0	1439.1	3814	20	01	1445.5	5258	13	01	1447.1	5679	09	25	21
22	1432.4	2750	14	0	1439.3	3853	20	01	1445.6	5283	13	01	1447.0	5652	09	25	22
23	1432.6	2777	14	0	1439.5	3892	21	01	1445.7	5309	13	01	1446.9	5625	09	25	23
24	1432.7	2791	14	0	1440.0	3989	50	01	1445.8	5335	13	01	1446.8	5599	09	25	24
25	1432.9	2818	14	0	1440.4	4071	42	01	1445.9	5360	13	01	1446.6	5546	09	25	25
26	1433.1	2845	14	0	1440.7	4133	32	01	1445.9	5360	12	01	1446.5	5519	09	25	26
27	1433.3	2873	14	0	1440.9	4174	22	01	1446.0	5386	12	01	1446.4	5492	09	25	27
28	1433.5	2902	15	0	1441.1	4216	20	01	1446.2	5439	28	01	1446.4	5492	09	25	28
29	1433.8	2944	21	0	1441.3	4255	20	01	1446.6	5546	55	01	1446.3	5466	09	25	29
30					1441.4	4281	20	01	1446.8	5599	27	01	1446.2	5439	09	25	30
31					1441.6	4325	20	01					1446.1	5413	10	25	31
TOTAL			608	96			711	15			672	30			325	419	
Inf. Ac. Ft.			1206				1410				1333				645	6592	
Outf. Ac. Ft.				190				30				60			831	1424	
Maximum Mean Daily Inflow			105				58				59				15	105	
Minimum Mean Daily Inflow			11				12				13				09	02	
Storage Change	+1015				+1381				+1274				-186			+5167	

NOTE: Gage Heights and Storages as of Midnight on Day Shown ¾ Year

Max. W. S. Elev.	1447.9	feet on	5/14/48	Storage	589.8	Acre Feet			
Min. W. S. Elev.	1398.2	feet on	10/1/47	Storage	24.6	Acre Feet			
Max. Peak Inf.	15.2	C. F. S. from	8:00 A.M.	on	2/5/48	to	10:00 A.M.	on	2/5/48
Max. Peak Outf.	4.7	C. F. S. from	11:35 A.M.	on	8/4/48	to	12:05 P.M.	on	8/4/48

REMARKS { INDICATES AVERAGE FOR PERIOD
NO ALLOWANCE MADE FOR PERCOLATION OR EVAPORATION

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
A. R. SLEEMERS	Dam Tender	Gage Hts. copied JHL	RCL	8/23/48
F. E. STUNDEN	Hydrographer	Storage applied JHL	RCL	"
	Hydrographer	Inf. & Outf. comp. JHL	RCL	"

F. C. Dist. Form 68C Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In ~~On~~ San Dimas Canyon for the Year Ending September 30, 1949

Continuous Water Stage Recorder Aw

Drainage Area 16.2 Square Miles. Capacity of Reservoir 1,042.5 Ac. Ft. at Spillway Elev. 1,482.0 Ft. as of November 1944 Survey 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	1446.0	538.6	1.2	2.6	1441.1	421.6	0.4	2.7	1430.3	247.9	0	4.5	1411.9	83.3	0	1.7	1
2	1446.0	538.6	2.8	2.8	1440.8	415.3	0.4	2.7	1429.6	239.3	0	4.6	1411.2	79.4	0	1.7	2
3	1445.9	536.0	1.5	2.8	1440.6	411.2	0.3	2.7	1428.8	229.8	0	4.6	1410.6	76.2	0	1.7	3
4	1445.8	533.5	1.0	2.8	1440.4	407.1	0.3	2.7	1428.0	220.4	0	4.6	1409.9	72.5	0	1.7	4
5	1445.7	530.9	1.0	2.8	1440.1	401.0	0.3	2.7	1427.2	211.4	0	4.5	1409.2	68.9	0	1.7	5
6	1445.6	528.3	1.0	2.8	1439.8	395.0	0.3	2.7	1426.5	203.7	0	4.0	1408.5	65.5	0	1.7	6
7	1445.4	523.2	1.0	2.8	1439.5	389.2	0.3	2.7	1426.0	198.2	0	2.8	1407.9	62.5	0	1.6	7
8	1445.3	520.6	0.9	2.8	1439.3	385.3	0.3	2.7	1425.4	191.8	0	2.8	1407.3	59.7	0	1.6	8
9	1445.1	515.5	0.9	2.8	1439.1	381.4	0.3	2.7	1424.9	186.5	0	2.8	1406.7	56.9	0	1.6	9
10	1444.9	510.4	0.9	2.8	1438.8	375.9	0.3	2.7	1424.4	181.3	0	2.7	1406.0	53.7	0	1.6	10
11	1444.8	507.9	0.7	2.8	1438.5	370.4	0.2	2.7	1423.9	176.1	0	2.7	1405.2	50.3	0	1.5	11
12	1444.6	502.9	0.7	2.7	1438.3	366.8	0.2	2.6	1423.4	171.0	0	2.7	1404.4	46.9	0	1.5	12
13	1444.4	498.0	0.7	2.7	1438.0	361.3	0.2	2.6	1422.8	165.1	0	2.7	1403.7	44.0	0	1.5	13
14	1444.3	495.5	0.7	2.7	1437.8	357.8	0.2	2.6	1422.3	160.3	0	2.7	1402.9	40.8	0	1.5	14
15	1444.1	490.5	0.7	2.7	1437.5	352.7	0.2	2.6	1421.7	154.6	0	2.7	1402.2	38.2	0	1.4	15
16	1443.9	485.6	0.5	2.6	1437.2	347.5	0.1	2.6	1421.2	150.0	0	2.7	1401.6	36.1	0.1	1.4	16
17	1443.8	483.2	0.5	2.6	1436.9	342.4	0.1	2.6	1420.6	144.6	0	2.7	1401.0	33.9	0.1	1.4	17
18	1443.6	478.4	0.5	2.6	1436.6	337.4	0.1	2.6	1420.0	139.3	0	2.6	1400.8	33.2	0.1	0.5	18
19	1443.4	473.7	0.5	2.6	1436.3	332.5	0.1	2.6	1419.4	134.3	0	2.4	1401.0	33.9	0.2	0	19
20	1443.2	468.9	0.5	2.6	1436.0	327.6	0.1	2.6	1418.8	129.3	0	2.2	1401.1	34.3	0.2	0	20
21	1443.1	466.5	0.5	2.7	1435.8	324.5	0.1	2.6	1418.2	124.5	0	2.4	1401.2	34.6	0.2	0	21
22	1442.9	461.8	0.5	2.7	1435.5	319.9	0.1	2.6	1417.5	119.2	0	2.3	1401.3	35.0	0.2	0	22
23	1442.7	457.2	0.5	2.7	1435.2	315.2	0.1	2.6	1416.9	114.8	0	2.3	1401.4	35.3	0.2	0	23
24	1442.5	452.7	0.5	2.7	1434.9	310.6	0.1	2.6	1416.3	110.6	0	2.2	1401.5	35.7	0.2	0	24
25	1442.3	448.1	0.5	2.6	1434.6	306.1	0	2.6	1415.7	106.5	0	2.0	1401.7	36.4	0.2	0	25
26	1442.1	443.5	0.4	2.6	1434.3	301.7	0	2.6	1415.2	103.2	0	1.8	1401.8	36.8	0.2	0	26
27	1441.9	439.0	0.4	2.6	1433.7	293.0	0	3.7	1414.6	99.4	0	1.7	1401.9	37.1	0.2	0	27
28	1441.7	434.7	0.4	2.6	1433.1	284.5	0	4.5	1414.1	96.2	0	1.7	1401.9	37.1	0.2	0	28
29	1441.5	430.3	0.4	2.6	1432.4	275.0	0	4.5	1413.6	93.2	0	1.7	1402.1	37.9	0.2	0	29
30	1441.3	425.9	0.4	2.7	1431.7	265.7	0	4.5	1413.1	90.2	0	1.7	1402.2	38.2	0.3	0	30
31					1431.0	256.6	0	4.5	1412.5	86.7	0	1.7					31
TOTAL			22.7	80.9			5.1	90.4			0	85.7			2.8	27.3	
Inf. Ac. Ft.			45.0				10.1				0				5.6	71.9	
Outf. Ac. Ft.				160.5				179.3				170.0			5.4.1	70.3	
Maximum Mean Daily Inflow			2.8				0.4				0				0.3	10.5	
Minimum Mean Daily Inflow			0.4				0				0				0	0	
Storage Change		-115.4				-169.3				-169.9				-48.5		+13.6	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — Yearly Totals

Max. W. S. Elev.	1447.9	feet	on	5/14/48	Storage	589.8	Acre Feet			
Min. W. S. Elev.	1398.2	feet	on	10/1/47	Storage	24.6	Acre Feet			
Max. Peak Inf.	15.2	C.F.S. from	8:00 A.M.	on 2/5/48	to	10:00 A.M.	on	2/5/48		
Max. Peak Outf.	4.7	C.F.S. from	11:35 A.M.	on 8/4/48	to	12:05 P.M.	on	8/4/48		

REMARKS { INDICATES AVERAGE FOR PERIOD
NO ALLOWANCE MADE FOR PERCOLATION OR EVAPORATION

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
A. R. BLEEMERS	Dam Tender	Gage Hts. copied JHL	RCL	9/28/48
F. E. STUNDEN	Hydrographer	Storage applied JHL	RCL	"
	Hydrographer	Inf. & Outf. comp. JHL	RCL	"

F. C. Dist. Form 68A Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In ~~On~~ San Dimas Canyon for the Year Ending September 30, 1949

Continuous Water Stage Recorder Aw

Drainage Area 16.2 Square Miles. Capacity of Reservoir 1042.5 Ac. Ft. at Spillway Elev. 1462.0 Ft. as of November 1944 Survey 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	1402.3	38.6	0.2	0	1405.2	50.3	0.2	0	1407.0	58.3	0.1	0	1417.0	115.5	1.0	0	1
2	1402.4	39.0	0.2	0	1405.3	50.7	0.2	0	1407.0	58.3	0.2	0	1417.3	117.7	1.0	0	2
3	1402.5	39.4	0.2	0	1405.3	50.7	0.2	0	1407.1	58.8	0.2	0	1417.5	119.2	0.9	0	3
4	1402.7	40.1	0.2	0	1405.4	51.1	0.2	0	1407.2	59.2	0.2	0	1417.7	120.7	0.9	0	4
5	1402.8	40.5	0.2	0	1405.5	51.6	0.2	0	1407.2	59.2	0.2	0	1418.0	122.9	0.9	0	5
6	1402.9	40.8	0.2	0	1405.5	51.6	0.2	0	1407.3	59.7	0.2	0	1418.2	124.5	0.9	0	6
7	1403.0	41.2	0.2	0	1405.6	52.0	0.2	0	1407.4	60.2	0.1	0	1418.4	126.1	0.9	0	7
8	1403.1	41.6	0.2	0	1405.7	52.4	0.2	0	1407.4	60.2	0.1	0	1418.7	128.5	1.1	0	8
9	1403.2	42.0	0.2	0	1405.7	52.4	0.2	0	1407.5	60.7	0.1	0	1419.1	131.7	1.6	0	9
10	1403.3	42.4	0.2	0	1405.8	52.8	0.2	0	1407.5	60.7	0.1	0	1419.4	134.3	1.3	0	10
11	1403.3	42.4	0.2	0	1405.8	52.8	0.2	0	1407.6	61.1	0.2	0	1419.8	137.6	1.7	0	11
12	1403.4	42.8	0.2	0	1405.9	53.3	0.1	0	1407.7	61.6	0.3	0	1420.2	141.1	1.8	0	12
13	1403.5	43.2	0.2	0	1406.0	53.7	0.1	0	1407.8	62.1	0.3	0	1420.6	144.6	1.7	0	13
14	1403.6	43.6	0.2	0	1406.0	53.7	0.1	0	1407.9	62.5	0.3	0	1421.1	149.0	2.2	0	14
15	1403.7	44.0	0.1	0	1406.1	54.2	0.1	0	1408.1	63.5	0.3	0	1421.4	151.8	1.5	0	15
16	1403.8	44.4	0.1	0	1406.2	54.6	0.1	0	1408.3	64.5	0.5	0	1421.7	154.6	1.4	0	16
17	1403.9	44.8	0.1	0	1406.2	54.6	0.1	0	1410.0	73.0	4.3	0	1421.9	156.5	1.0	0	17
18	1404.0	45.2	0.1	0	1406.3	55.1	0.1	0	1410.9	77.8	2.4	0	1422.2	159.3	1.3	0	18
19	1404.1	45.6	0.2	0	1406.3	55.1	0.1	0	1411.2	79.4	0.8	0	1422.7	164.1	2.5	0	19
20	1404.2	46.0	0.2	0	1406.4	55.5	0.1	0	1411.6	81.6	1.1	0	1424.9	186.5	11.3	0	20
21	1404.3	46.5	0.2	0	1406.5	56.0	0.1	0	1411.9	83.3	0.9	0	1425.8	196.1	4.8	0	21
22	1404.4	46.9	0.2	0	1406.5	56.0	0.1	0	1412.4	86.1	1.4	0	1426.0	198.2	4.6	3.5	22
23	1404.5	47.3	0.2	0	1406.6	56.5	0.1	0	1412.8	88.4	1.1	0	1425.9	197.1	4.7	5.3	23
24	1404.5	47.3	0.2	0	1406.6	56.5	0.1	0	1413.1	90.2	0.9	0	1425.4	191.8	2.6	5.3	24
25	1404.6	47.7	0.2	0	1406.7	56.9	0.1	0	1413.4	92.0	0.9	0	1425.5	192.9	2.6	2.0	25
26	1404.7	48.1	0.2	0	1406.7	56.9	0.1	0	1413.9	95.0	1.6	0	1425.9	197.1	2.1	0	26
27	1404.8	48.6	0.2	0	1406.8	57.4	0.1	0	1415.1	102.6	3.8	0	1426.2	200.4	1.7	0	27
28	1404.9	49.0	0.2	0	1406.8	57.4	0.1	0	1415.5	106.5	2.0	0	1426.5	203.7	1.7	0	28
29	1405.0	49.4	0.2	0	1406.9	57.8	0.1	0	1416.1	109.2	1.3	0	1426.8	206.9	1.7	0	29
30	1405.0	49.4	0.2	0	1406.9	57.8	0.1	0	1416.4	111.3	1.1	0	1427.1	210.2	1.6	0	30
31	1405.1	49.8	0.2	0					1416.7	113.4	1.0	0	1427.4	213.6	1.6	0	31
TOTAL			5.8	0			4.1	0			28.0	0			66.6	16.1	
Inf. Ac. Ft.			11.5				8.1				55.5				132.1	207.2	
Outf. Ac. Ft.				0				0				0			31.9	31.9	
Maximum Mean Daily Inflow			0.2				0.2				4.3				11.3	11.3	
Minimum Mean Daily Inflow			0.1				0.1				0.1				0.9	0.1	
Storage Change		+11.6				+8.0				+55.6				+100.2		+175.4	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — ½ Year

Max. W. S. Elev.	1444.4	feet	on	4/16/49	Storage	498.	Acre Feet			
Min. W. S. Elev.	1402.2	feet	on	10/1/48	Storage	38.2	Acre Feet			
Max. Peak Inf.	18.8	C.F.S. from	0800	on 1/20/49	to	1000	on	1/20/49		
Max. Peak Outf.	5.3	C.F.S. from	0815	on 1/22/49	to	0900	on	1/25/49		

REMARKS { INDICATES AVERAGE FOR PERIOD.
NO ALLOWANCE MADE FOR PERCOLATION OR EVAPORATION.

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
A. R. BLEEMERS	Dam Tender	Gage Hts. copied JHL	EAD	3/25/49
F. E. STUNDEN	Hydrographer	Storage applied JHL	EAD	3/25/49
	Hydrographer	Inf. & Outf. comp. JHL	EAD	3/25/49

SAN DIMAS (cont'd)

F. C. Dist. Form 88B Revised 500 11/44

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

In San Dimas Canyon for the Year Ending September 30, 1949

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

Drainage Area 16.2 Square Miles. Capacity of Reservoir 1042.5 Ac. Ft. at Spillway Elev. 1462.0 Ft. as of November 1944 Survey 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	1427.7	217.0	1.5	0	1436.5	335.8	3.4	0.1	1443.0	464.1	1.3	0.1	1442.6	454.9	1.2	3.0	1
2	1427.9	219.3	1.4	0	1436.8	340.7	2.6	0.1	1443.2	468.9	1.3	0.1	1442.5	452.7	1.2	3.0	2
3	1428.3	223.9	2.3	0	1437.1	345.7	2.6	0.1	1443.3	471.3	1.3	0.1	1442.3	448.1	1.2	3.0	3
4	1428.6	227.4	1.6	0	1437.5	352.7	3.6	0.1	1443.4	473.7	1.3	0.1	1442.2	445.8	1.1	3.0	4
5	1428.9	230.9	1.6	0	1437.8	357.8	2.7	0.1	1443.5	476.1	1.3	0.1	1442.0	441.2	1.1	3.0	5
6	1429.1	233.3	1.5	0	1438.1	363.1	2.5	0.1	1443.6	478.4	1.3	0.1	1441.8	436.8	1.1	3.0	6
7	1429.5	238.1	2.5	0	1438.4	368.6	2.5	0.1	1443.7	480.8	1.3	0.1	1441.6	432.5	1.1	3.0	7
8	1429.8	241.7	1.7	0	1438.7	374.0	2.5	0.1	1443.8	483.2	1.3	0.1	1441.4	428.1	1.1	3.5	8
9	1430.1	245.4	1.6	0	1438.9	377.7	2.5	0.1	1443.9	485.6	1.3	0.1	1441.0	419.4	1.0	4.0	9
10	1430.3	247.9	1.6	0	1439.1	381.4	2.4	0.1	1443.9	485.6	1.3	0.1	1440.7	413.3	1.0	3.7	10
11	1430.7	252.9	2.5	0	1439.5	389.2	4.1	0.1	1444.0	488.0	1.3	0.1	1440.5	409.2	1.0	3.5	11
12	1431.2	259.2	3.2	0	1439.8	395.0	3.0	0.1	1444.1	490.5	1.3	0.1	1440.3	405.1	1.0	3.5	12
13	1431.5	263.1	2.0	0	1440.0	398.9	2.2	0.1	1444.2	493.0	1.3	0.1	1440.1	401.0	1.0	3.5	13
14	1431.8	267.0	1.9	0	1440.2	403.0	2.2	0.1	1444.2	493.0	1.3	0.1	1439.9	397.0	1.0	3.5	14
15	1432.0	269.6	1.7	0	1440.4	407.1	2.0	0.1	1444.3	495.5	1.3	0.1	1439.7	393.1	1.0	3.4	15
16	1432.3	273.7	1.7	0	1440.6	411.2	2.0	0.1	1444.3	495.5	1.3	1.4	1439.6	391.1	2.4	3.4	16
17	1432.5	276.4	1.7	0	1440.7	413.3	2.0	0.1	1444.2	493.0	1.3	2.3	1439.5	389.2	2.5	3.4	17
18	1432.7	279.1	1.6	0.1	1440.9	417.4	2.0	0.1	1444.2	493.0	1.3	1.8	1439.5	389.2	3.4	3.4	18
19	1433.0	283.1	1.6	0.1	1441.1	421.6	2.0	0.1	1444.2	493.0	1.3	1.8	1439.4	387.3	2.4	3.4	19
20	1433.2	285.9	1.6	0.1	1441.3	425.9	2.0	0.1	1444.1	490.5	1.3	1.8	1439.3	385.3	2.4	3.4	20
21	1433.4	288.7	1.5	0.1	1441.5	430.3	1.9	0.1	1444.1	490.5	1.3	2.5	1439.2	383.4	2.4	3.4	21
22	1433.6	291.6	1.5	0.1	1441.6	432.5	1.9	0.1	1443.9	485.6	1.3	3.0	1439.0	379.5	1.2	3.4	22
23	1433.8	294.4	1.5	0.1	1441.8	436.8	1.9	0.1	1443.8	483.2	1.3	3.0	1438.9	377.7	1.1	2.7	23
24	1434.2	300.2	3.1	0.1	1442.0	441.2	1.8	0.1	1443.6	478.4	1.3	3.0	1438.7	374.0	1.1	2.0	24
25	1434.6	306.1	3.0	0.1	1442.1	443.5	1.8	0.1	1443.5	476.1	1.3	3.0	1438.6	372.2	1.1	2.0	25
26	1435.1	313.7	4.0	0.1	1442.3	448.1	1.8	0.1	1443.3	471.3	1.3	3.0	1438.5	370.4	1.0	1.9	26
27	1435.7	323.0	4.8	0.1	1442.4	450.4	1.9	0.1	1443.2	468.9	1.3	3.0	1438.4	368.6	1.0	1.9	27
28	1436.1	329.2	3.2	0.1	1442.6	454.9	2.0	0.1	1443.0	464.1	1.3	3.0	1438.3	366.8	1.0	1.9	28
29					1442.7	457.2	1.4	0.1	1442.9	461.8	1.3	3.0	1438.2	364.9	1.0	1.9	29
30					1442.8	459.5	1.4	0.1	1442.8	459.5	1.2	3.0	1438.1	363.1	1.0	1.9	30
31					1442.9	461.8	1.4	0.1					1438.0	361.3	0.9	1.9	31
TOTAL			59.4	1.1			70.0	3.1			38.9	40.1			42.0	91.5	
Inf. Ac. Ft.			117.8				138.8				77.2				83.3	624.3	
Outf. Ac. Ft.				2.2				6.1				79.5			181.5	301.0	
Maximum Mean Daily Inflow			4.8				4.1				1.3				3.4	11.3	
Minimum Mean Daily Inflow			1.4				1.4				1.2				0.9	0.1	
Storage Change	+115.6				+132.6				-23				-98.2			+323.1	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

% Year

Max. W. S. Elev.	1444.4	feet	on	4/16/49	Storage	498	Acre Feet			
Min. W. S. Elev.	1402.2	feet	on	10/1/48	Storage	38.2	Acre Feet			
Max. Peak Inf.	18.8	C.F.S. from	0800	on	1/20/49	to	1000	on	1/20/49	
Max. Peak Outf.	5.3	C.F.S. from	0815	on	1/22/49	to	0800	on	1/25/49	

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
A. R. BLEEMERS	Dam Tender	Gage Hts. copied	JHL CJR	10/5/49
F. E. STUNDEN	Hydrographer	Storage applied	JHL CJR	10/5/49
	Hydrographer	Inf. & Outf. comp.	JHL CJR	10/5/49

REMARKS (INDICATES AVERAGE FOR PERIOD

NO ALLOWANCE MADE FOR PERCOLATION OR EVAPORATION

F. C. Dist. Form 88C Revised 500 11/44

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

In San Dimas Canyon for the Year Ending September 30, 1949

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

Drainage Area 16.2 Square Miles. Capacity of Reservoir 1042.5 Ac. Ft. at Spillway Elev. 1462.0 Ft. as of November 1944 Survey 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	1437.9	359.6	0.9	1.9	1425.6	193.9	* 0.6	4.6	1405.5	51.6	0.3	0	1408.2	64.0	0.2	0	1
2	1437.8	357.8	0.9	1.9	1424.8	185.4	0.6	4.6 -	1405.6	52.0	0.2	0	1408.2	64.0	0.2	0	2
3	1437.7	356.1	0.9	1.9	1424.1	178.1	0.6	4.6	1405.7	52.4	0.2	0	1408.3	64.5	0.2	0	3
4	1437.4	350.9	0.8	2.6	1423.3	170.0	0.7	4.5	1405.8	52.8	0.2	0	1408.4	65.0	0.2	0	4
5	1437.2	347.5	0.8	3.1	1422.5	162.2	0.7	4.5	1405.9	53.3	0.2	0	1408.4	65.0	0.2	0	5
6	1436.9	342.4	0.8	3.1	1421.7	154.6	0.7	4.5	1406.0	53.7	0.2	0	1408.5	65.5	0.2	0	6
7	1436.6	337.4	0.8	3.1	1420.9	147.2	0.7	4.5	1406.1	54.2	0.2	0	1408.5	65.5	0.2	0	7
8	1436.4	334.2	0.8	3.1	1420.0	139.3	0.7	4.5	1406.2	54.6	0.2	0	1408.6	65.9	0.2	0	8
9	1436.1	329.2	0.8	3.1	1419.1	131.7	0.7	4.4	1406.3	55.1	0.2	0	1408.7	66.4	0.2	0	9
10	1435.8	324.5	0.8	3.1	1418.3	125.3	0.7	4.4	1406.4	55.5	0.2	0	1408.7	66.4	0.2	0	10
11	1435.5	319.9	0.8	3.1	1417.4	118.5	1.0	4.3	1406.5	56.0	0.2	0	1408.8	66.9	0.2	0	11
12	1435.2	315.2	0.8	3.1	1416.5	112.0	1.0	4.3	1406.6	56.5	0.2	0	1408.8	66.9	0.2	0	12
13	1434.9	310.6	0.8	3.1	1415.6	105.9	1.0	4.3	1406.7	56.9	0.2	0	1408.9	67.4	0.2	0	13
14	1434.6	306.1	0.8	3.1	1414.6	99.4	1.0	4.3	1406.8	57.4	0.2	0	1408.9	67.4	0.1	0	14
15	1434.3	301.7	0.8	3.1	1413.6	93.2	1.1	4.1	1406.9	57.8	0.2	0	1409.0	67.9	0.1	0	15
16	1434.0	297.2	0.7	3.1	1412.6	87.3	0.9	3.9	1405.9	57.8	0.2	0	1409.1	68.4	0.1	0	16
17	1433.7	293.0	0.7	3.1	1411.6	81.6	0.9	3.7	1407.0	58.3	0.2	0	1409.1	68.4	0.1	0	17
18	1433.3	287.3	0.7	3.1	1410.6	76.2	0.8	3.5	1407.1	58.8	0.2	0	1409.2	68.9	0.1	0	18
19	1433.0	283.1	0.7	3.1	1409.7	71.5	0.8	3.3	1407.2	59.2	0.2	0	1409.2	68.9	0.1	0	19
20	1432.6	277.7	0.7	3.1	1408.8	66.9	0.8	3.1	1407.3	59.7	0.2	0	1409.3	69.4	0.1	0	20
21	1432.3	273.7	0.7	3.1	1407.8	62.1	0.5	2.9	1407.4	60.2	0.2	0	1409.4	69.9	0.1	0	21
22	1431.8	267.0	0.6	4.1	1406.9	57.8	0.5	2.7	1407.4	60.2	0.2	0	1409.4	69.9	0.1	0	22
23	1431.1	257.9	0.6	4.7	1406.0	53.7	0.5	2.6	1407.5	60.7	0.2	0	1409.5	70.5	0.1	0	23
24	1430.5	250.4	0.6	4.7	1405.0	49.4	0.4	2.5	1407.6	61.1	0.2	0	1409.5	70.5	0.1	0	24
25	1429.8	241.7	0.6	4.7	1404.6	47.7	0.4	1.2	1407.7	61.6	0.2	0	1409.6	71.0	0.1	0	25
26	1429.1	233.3	0.6	4.7	1404.7	48.1	0.3	0	1407.7	61.6	0.2	0	1409.6	71.0	0.1	0	26
27	1428.4	225.1	0.6	4.6	1404.9	49.0	0.3	0	1407.8	62.1	0.2	0	1409.7	71.5	0.1	0	27
28	1427.7	217.0	0.6	4.6	1405.0	49.4	0.3	0	1407.9	62.5	0.2	0	1409.8	72.0	0.1	0	28
29	1427.0	209.1	0.5	4.6	1405.1	49.8	0.3	0	1408.0	63.0	0.2	0	1409.8	72.0	0.1	0	29
30	1426.3	201.5	0.5	4.6	1405.3	50.7	0.3	0	1408.0	63.0	0.2	0	1409.8	72.0	0.1	0	30
31					1405.4	51.1	0.2	0	1408.1	63.5	0.2	0					31
TOTAL			21.7	102.3			20.0	95.8			6.3	0			4.3	0	
Inf. Ac. Ft.			43.0				39.7				12.5				8.5	728.0	
Outf. Ac. Ft.				202.9				190.0				0			0	693.9	
Maximum Mean Daily Inflow			0.9				1.1				0.3				0.2	11.3	
Minimum Mean Daily Inflow			0.5				0.2				0.2				0.1	0.1	
Storage Change	-159.8				-150.4				+12.4				+8.5			+33.8	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Yearly Totals

Max. W. S. Elev.	1444.4	feet	on	4/16/49	Storage	498	Acre Feet			
Min. W. S. Elev.	1402.2	feet	on	10/1/48	Storage	38.2	Acre Feet			
Max. Peak Inf.	18.8	C.F.S. from	0800	on	1/20/49	to	1000	on	1/20/49	
Max. Peak Outf.	5.3	C.F.S. from	0815	on	1/22/49	to	0800	on	1/25/49	

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
A. R. BLEEMERS	Dam Tender	Gage Hts. copied	CJR JHL	11/7/49
F. E. STUNDEN	Hydrographer	Storage applied	CJR JHL	11/7/49
	Hydrographer	Inf. & Outf. comp.	CJR JHL	11/7/49

REMARKS (INDICATES AVERAGE FOR PERIOD. NO ALLOWANCE MADE FOR PERCOLATION OR EVAPORATION

* INCREASE IN INFLOW DUE TO BANK STORAGE

PUDDINGSTONE

F. C. Dist. Form 68A Revised 300 11/44

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

In/On Puddingstone Creek for the Year Ending September 30, 1948

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

Drainage Area 32.2 Square Miles. Capacity of Reservoir 17,180.0 Ac. Ft. at Spillway Elev. 970.0 Ft. as of January, 1941 Survey 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	892.60	540.8	0.1	1.4	890.55	451.4	1.0	1.4	889.25	399.7	1.1	0.9	890.85	463.8	0.2	0	1
2	892.50	536.2	0.1	1.8	890.55	451.4	1.0	1.4	889.30	401.6	1.2	0	890.85	463.8	0.2	0	2
3	892.40	531.6	0.1	1.8	890.50	449.4	1.0	1.4	889.30	401.6	0.2	0	890.85	463.8	0.2	0	3
4	892.30	527.0	0.1	1.8	890.50	449.4	1.0	1.8	889.65	415.2	7.0	0	890.85	463.8	0.2	0	4
5	892.20	522.5	0.1	1.8	890.40	445.2	1.0	1.8	890.80	461.7	23.7	0	890.85	463.8	0.2	0	5
6	892.10	517.9	0.2	1.8	890.35	443.2	1.0	1.8	890.85	463.8	1.2	0	890.85	463.8	0.2	0	6
7	892.05	515.6	0.2	1.8	890.30	441.1	1.0	1.8	890.85	463.8	0.2	0	890.85	463.8	0.2	0	7
8	891.95	511.2	0.2	1.8	890.25	439.0	1.0	1.8	890.85	463.8	0.2	0	890.85	463.8	0.2	0	8
9	891.85	506.8	0.3	1.8	890.20	437.0	1.0	1.8	890.90	465.8	0.2	0	890.85	463.8	0.2	0	9
10	891.75	502.5	0.4	1.8	890.15	435.0	1.0	1.8	890.90	465.8	0.2	0	890.85	463.8	0.2	0	10
11	891.70	500.3	0.5	1.8	890.05	430.8	1.0	1.8	890.90	465.8	0.2	0	890.85	463.8	0.2	0	11
12	891.60	495.9	0.6	1.8	890.00	428.8	1.0	1.8	890.90	465.8	0.2	0	890.85	463.8	0.2	0	12
13	891.55	493.8	0.6	1.8	889.95	426.8	1.0	1.8	890.90	465.8	0.2	0	890.85	463.8	0.2	0	13
14	891.50	491.6	0.7	1.4	889.85	422.9	1.0	1.8	890.90	465.8	0.2	0	890.85	463.8	0.2	0	14
15	891.45	489.5	0.7	1.4	889.80	421.0	1.0	1.8	890.90	465.8	0.2	0	890.85	463.8	0.2	0	15
16	891.40	487.3	0.7	1.8	889.70	417.2	1.0	1.8	890.90	465.8	0.2	0	890.85	463.8	0.2	0	16
17	891.30	482.9	0.8	1.8	889.65	415.2	1.0	1.8	890.90	465.8	0.2	0	890.85	463.8	0.2	0	17
18	891.25	480.8	0.8	1.8	889.60	415.2	1.0	1.8	890.90	465.8	0.2	0	890.85	463.8	0.2	0	18
19	891.20	478.6	0.8	1.8	889.55	413.3	1.0	1.4	890.90	465.8	0.2	0	890.85	463.8	0.2	0	19
20	891.15	476.4	0.8	1.8	889.55	413.3	1.0	0.9	890.90	465.8	0.2	0	890.80	461.7	0.2	0	20
21	891.05	472.1	0.9	1.8	889.50	409.4	1.0	1.4	890.90	465.8	0.2	0	890.80	461.7	0.2	0	21
22	891.00	469.9	0.9	1.8	889.45	407.4	1.0	1.8	890.90	465.8	0.2	0	890.80	461.7	0.2	0	22
23	890.95	467.9	0.9	1.8	889.35	403.5	1.0	1.8	890.90	465.8	0.2	0	890.80	461.7	0.2	0	23
24	890.85	463.8	0.9	1.8	889.30	401.6	1.0	1.8	890.90	465.8	0.2	0	890.80	461.7	0.2	0	24
25	890.80	461.7	1.0	1.8	889.30	401.6	1.0	1.8	890.90	465.8	0.2	0	890.80	461.7	0.2	0	25
26	890.75	459.7	1.0	1.8	889.25	399.7	1.0	1.8	890.90	465.8	0.2	0	890.80	461.7	0.2	0	26
27	890.65	455.6	1.0	1.8	889.25	399.7	1.0	1.1	890.90	465.8	0.2	0	890.80	461.7	0.2	0	27
28	890.60	453.5	1.0	1.8	889.25	399.7	1.0	1.4	890.90	465.8	0.2	0	890.80	461.7	0.2	0	28
29	890.55	451.4	1.0	1.8	889.25	399.7	1.0	1.8	890.90	465.8	0.2	0	890.80	461.7	0.2	0	29
30	890.55	451.4	1.0	1.4	889.25	399.7	1.0	1.4	890.90	465.8	0.2	0	890.80	461.7	0.2	0	30
31	890.60	453.5	1.0	0					890.85	463.8	0.2	0	890.80	461.7	0.2	0	31
TOTAL			19.4	52.4			30.0	49.6			39.4	0.9			6.2	0	
Inf. Ac. Ft.			385				595				781				123	188.4	
Outf. Ac. Ft.			1039 + (24.2)				984 + (14.9)				1.8 + (12.3)				0 + (14.3)	204.1 (65.7)	
Maximum Mean Daily Inflow			1.0				1.0				23.7				0.2	23.7	
Minimum Mean Daily Inflow			0.1				1.0				0.2				0.2	0.2	
Storage Change		−89.6				−53.8				+64.1				−2.1		−81.4	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

½ Year

Max. W. S. Elev.	893.20	feet	on	4/11/48	Storage	568.8	Acre Feet		
Min. W. S. Elev.	885.50	feet	on	9/30/48	Storage	274.0	Acre Feet		
Max. Peak Inf.	194.8	C. F. S. from	5:00 P.M.	on	12/5/47	to	6:00 P.M.	on	12/5/47
Max. Peak Outf.	9.1	C. F. S. from	11:30 A.M.	on	8/8/48	to	3:30 P.M.	on	8/8/48

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
F. A. POLLARD	Dam Tender	Gage Hts. copied APK	DB	6/21/48
C. L. BREWSTER	Hydrographer	Storage applied APK	DB	6/21/48
	Hydrographer	Inf. & Outf. comp. RCL	DB	9/21/48

REMARKS [INDICATES AVERAGE FOR PERIOD

( ) INDICATES AVERAGE MONTHLY LOSS DUE TO EVAPORATION, PERCOLATION AND OTHER LOSSES.

F. C. Dist. Form 68B Revised 300 11/44

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

In/On Puddingstone Creek for the Year Ending September 30, 1948

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

Drainage Area 32.2 Square Miles. Capacity of Reservoir 17,180.0 Ac. Ft. at Spillway Elev. 970.0 Ft. as of January, 1941 Survey 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	890.80	461.7	0.2	0	892.30	527.0	0.1	0	893.00	559.1	0.2	0	893.05	561.5	0	0	1
2	890.80	461.7	0.2	0	892.30	527.0	0	0	893.00	559.1	0.2	0	893.05	561.5	0	0	2
3	890.80	461.7	0.2	0	892.30	527.0	0	0	893.15	566.4	3.9	0	893.00	559.1	0	0	3
4	890.80	461.7	0.2	0	892.25	524.8	0	0	893.15	566.4	0.2	0	893.00	559.1	0	0	4
5	892.20	522.5	3.9	0	892.25	524.8	0	0	893.15	566.4	0.2	0	893.00	559.1	0	0	5
6	892.35	529.3	3.6	0	892.25	524.8	0	0	893.15	566.4	0.2	0	893.00	559.1	0	0	6
7	892.35	529.3	0.2	0	892.25	524.8	0	0	893.15	566.4	0.2	0	893.00	559.1	0	0	7
8	892.35	529.3	0.2	0	892.25	524.8	0	0	893.15	566.4	0.2	0	892.95	556.8	0	0	8
9	892.35	529.3	0.2	0	892.25	524.8	0	0	893.15	566.4	0.2	0	892.95	556.8	0	0	9
10	892.35	529.3	0.2	0	892.25	524.8	0	0	893.20	568.8	1.4	0	892.95	556.8	0	0	10
11	892.35	529.3	0.2	0	892.25	524.8	0	0	893.20	568.8	0.2	0	892.90	554.5	0	0	11
12	892.35	529.3	0.2	0	892.20	522.5	0	0	893.20	568.8	0.1	0	892.90	554.5	0	0	12
13	892.35	529.3	0.2	0	892.35	529.3	3.7	0	893.20	568.8	0	0	892.90	554.5	0	0	13
14	892.35	529.3	0.2	0	892.45	533.9	2.5	0	893.15	566.4	0	0	892.90	554.5	0	0	14
15	892.35	529.3	0.2	0	892.50	536.2	1.3	0	893.15	566.4	0	0	892.85	552.2	0	0	15
16	892.35	529.3	0.2	0	892.50	536.2	0.2	0	893.15	566.4	0	0	892.85	552.2	0	0	16
17	892.35	529.3	0.2	0	892.55	538.5	1.4	0	893.15	566.4	0	0	892.85	552.2	0	0	17
18	892.35	529.3	0.1	0	892.55	538.5	0.2	0	893.15	566.4	0	0	892.80	549.9	0	0	18
19	892.35	529.3	0.1	0	892.65	543.1	2.5	0	893.15	566.4	0	0	892.80	549.9	0	0	19
20	892.35	529.3	0.1	0	892.65	543.1	0.2	0	893.10	563.9	0	0	892.80	549.9	0	0	20
21	892.30	527.0	0.1	0	892.65	543.1	0.2	0	893.10	563.9	0	0	892.75	547.7	0	0	21
22	892.30	527.0	0.1	0	892.65	543.1	0.2	0	893.10	563.9	0	0	892.75	547.7	0	0	22
23	892.30	527.0	0.1	0	892.65	543.1	0.2	0	893.10	563.9	0	0	892.75	547.7	0	0	23
24	892.30	527.0	0.1	0	893.00	559.1	8.3	0	893.05	561.5	0	0	892.70	545.4	0	0	24
25	892.30	527.0	0.1	0	893.00	559.1	0.2	0	893.05	561.5	0	0	892.70	545.4	0	0	25
26	892.30	527.0	0.1	0	893.00	559.1	0.2	0	893.05	561.5	0	0	892.70	545.4	0	0	26
27	892.30	527.0	0.1	0	893.00	559.1	0.2	0	893.05	561.5	0	0	892.70	545.4	0	0	27
28	892.30	527.0	0.1	0	893.00	559.1	0.2	0	893.05	561.5	0	0	892.70	545.4	0	0	28
29	892.30	527.0	0.1	0	893.00	559.1	0.2	0	893.05	561.5	0	0	892.70	545.4	0	0	29
30					893.00	559.1	0.2	0					892.70	545.4	0	0	30
31					893.00	559.1	0.2	0					892.70	545.4	0	0	31
TOTAL			38.7	0			22.4	0			7.2	0			0	0	
Inf. Ac. Ft.			768				444				143				0	323.9	
Outf. Ac. Ft.			0 + (11.5)				0 + (12.3)				0 + (11.9)				0 + (16.1)	204.1(117.5)	
Maximum Mean Daily Inflow			3.9				8.3				3.9				0	3.9	
Minimum Mean Daily Inflow			0.1				0				0				0	0	
Storage Change		+65.3				+32.1				+2.4				−16.1		+2.3	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

% Year

Max. W. S. Elev.	893.20	feet	on	4/11/48	Storage	568.8	Acre Feet		
Min. W. S. Elev.	885.50	feet	on	9/30/48	Storage	274.0	Acre Feet		
Max. Peak Inf.	194.8	C. F. S. from	5:00 P.M.	on	12/5/47	to	6:00 P.M.	on	12/5/47
Max. Peak Outf.	9.1	C. F. S. from	11:30 A.M.	on	8/8/48	to	3:30 P.M.	on	8/8/48

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
F. A. POLLARD	Dam Tender	Gage Hts. copied DB	RCL	8/23/48
F. E. STUNDEN	Hydrographer	Storage applied DB	RCL	
	Hydrographer	Inf. & Outf. comp. RCL	DB	9/8/48

REMARKS [INDICATES AVERAGE FOR PERIOD

( ) INDICATES AVERAGE MONTHLY LOSS DUE TO EVAPORATION, PERCOLATION AND OTHER LOSSES.

PUDDINGSTONE (cont'd)

F. C. Dist. Form 86C Revised 300 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

In Puddingstone Creek for the Year Ending September 30, 19 48

On

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. as of January 1941 Survey 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	892.70	545.4	0	0	892.25	524.8	0	0	891.60	495.9	0	0	889.60	413.3	0	0	1
2	892.70	545.4	0	0	892.20	522.5	0	0	891.60	495.9	0	0	889.60	413.3	0	0	2
3	892.70	545.4	0	0	892.20	522.5	0	0	891.60	495.9	0	0	889.45	407.4	0	1.6	3
4	892.70	545.4	0	0	892.20	522.5	0	0	891.45	489.5	0	2.1	889.30	401.6	0	2.5	4
5	892.70	545.4	0	0	892.15	520.2	0	0	891.40	487.3	0	1.2	889.10	393.9	0	2.5	5
6	892.70	545.4	0	0	892.10	517.9	0	0	891.40	487.3	0	0	888.95	388.2	0	1.9	6
7	892.65	543.1	0	0	892.10	517.9	0	0	891.35	485.1	0	0	888.90	386.4	0	0	7
8	892.65	543.1	0	0	892.05	515.6	0	0	891.20	478.6	0	3.0	888.80	382.7	0	1.4	8
9	892.65	543.1	0	0	892.05	515.6	0	0	891.10	474.2	0	1.5	888.70	379.1	0	0.9	9
10	892.60	540.8	0	0	892.05	515.6	0	0	891.10	474.2	0	0	888.70	379.1	0	0	10
11	892.60	540.8	0	0	892.05	515.6	0	0	891.10	474.2	0	0	888.70	379.1	0	0	11
12	892.60	540.8	0	0	892.00	513.3	0	0	891.05	472.1	0	0	888.60	375.4	0	1.4	12
13	892.55	538.5	0	0	891.95	511.2	0	0.5	891.05	472.1	0	0	888.40	368.2	0	2.4	13
14	892.55	538.5	0	0	891.95	511.2	0	0	891.05	472.1	0	0	888.25	362.7	0	2.5	14
15	892.55	538.5	0	0	891.95	511.2	0	0	891.00	469.9	0	0	888.10	357.2	0	2.5	15
16	892.50	536.2	0	0.3	891.95	511.2	0	0	890.75	459.7	0	3.7	887.90	350.2	0	2.5	16
17	892.45	533.9	0	0.5	891.90	509.0	0	0	890.50	449.4	0	3.8	887.70	343.4	0	2.5	17
18	892.40	531.6	0	0.1	891.90	509.0	0	0	890.50	449.4	0	0	887.55	338.4	0	2.5	18
19	892.40	531.6	0	0	891.90	509.0	0	0	890.45	447.3	0	0	887.35	331.6	0	2.5	19
20	892.40	531.6	0	0	891.85	506.8	0	0	890.45	447.3	0	0	887.15	324.8	0	2.5	20
21	892.35	529.3	0	0	891.85	506.8	0	0	890.20	437.0	0	3.2	886.95	318.1	0	2.5	21
22	892.35	529.3	0	0	891.80	504.6	0	0	890.00	428.8	0	2.5	886.75	311.8	0	2.5	22
23	892.35	529.3	0	0	891.80	504.6	0	0	890.00	428.8	0	0.9	886.60	307.2	0	2.5	23
24	892.35	529.3	0	0	891.80	504.6	0	0	889.95	426.8	0	0.8	886.40	300.9	0	2.5	24
25	892.35	529.3	0	0	891.75	502.5	0	0	889.90	424.9	0	0	886.20	294.7	0	2.5	25
26	892.30	527.0	0	0	891.75	502.5	0	0	889.90	424.9	0	0	886.05	289.9	0	1.9	26
27	892.30	527.0	0	0	891.70	500.3	0	0	889.90	424.9	0	0	886.00	288.4	0	0	27
28	892.30	527.0	0	0	891.70	500.3	0	0	889.75	419.1	0	1.5	885.90	285.5	0	0.8	28
29	892.25	524.8	0	0	891.70	500.3	0	0	889.65	415.2	0	1.9	885.75	281.2	0	2.5	29
30	892.25	524.8	0	0	891.65	498.1	0	0	889.60	413.3	0	0	885.50	274.0	0	2.5	30
31					891.65	498.1	0	0	889.60	413.3	0	0					31
TOTAL			0	0.9			0	0.5			0	26.1			0	52.3	
Inf. Ac. Ft.			0				0				0				0	323.9	
Outf. Ac. Ft.			18 + (18.8)				10 + (25.6)				518 + (33.0)			103.7 + (35.5)		362.4 (230.4)	
Maximum Mean Daily Inflow			0				0				0				0	30.9	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			- 20.6				- 26.7				- 84.8				- 139.3	- 269.1	Yearly Totals

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	893.20	feet	on	4/11/48	Storage	568.8	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	885.50	feet	on	9/30/48	Storage	274.0	Acre Feet	F. A. POLLARD	Dam Tender	Gage Hts. copied RCL	JHL	11/1/48
Max. Peak Inf.	194.8	C. F. S. from	5:00 P.M.	on	12/5/47	to	6:00 P.M.	on	12/5/47	F. E. STUNDEN	Hydrographer	Storage applied RCL	JHL	"
Max. Peak Outf.	9.1	C. F. S. from	11:30 A.M.	on	8/8/48	to	3:30 P.M.	on	8/8/48		Hydrographer	Inf. & Outf. comp. RCL	JHL	"

REMARKS ( ) INDICATES TOTAL MONTHLY LOSS DUE TO EVAPORATION, PERCOLATION AND OTHER LOSSES

F. C. Dist. Form 86A Revised 300 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

In Puddingstone Creek for the Year Ending September 30, 19 49

On

Continuous Water Stage Recorder Au

Drainage Area 32.2 Square Miles. Capacity of Reservoir 17190.0 Ac. Ft. at Spillway Elev. 970.0 Ft. as of January 1941 Survey 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	885.35	269.6	0	1.9	885.10	262.5	0.2	0	885.00	259.6	0.2	0	886.75	311.9	0	0	1
2	885.35	269.6	0	0	885.10	262.5	0.2	0	885.00	259.6	0.2	0	886.75	311.9	0	0	2
3	885.30	268.2	0.5	0	885.10	262.5	0.2	0	885.00	259.6	0.2	0	886.70	310.3	0	0	3
4	885.30	268.2	0.5	0	885.10	262.5	0.2	0	885.05	261.0	0.6	0	886.70	310.3	0	0	4
5	885.20	265.4	0.5	1.4	885.05	261.0	0.2	0	885.05	261.0	0.2	0	886.70	310.3	0	0	5
6	885.10	262.5	0.5	1.3	885.05	261.0	0.2	0	885.05	261.0	0.2	0	886.70	310.3	0	0	6
7	885.10	262.5	0.5	0	885.05	261.0	0.2	0	885.05	261.0	0.2	0	886.70	310.3	0	0	7
8	885.10	262.5	0.5	0	885.05	261.0	0.2	0	885.05	261.0	0.2	0	886.70	310.3	0	0	8
9	885.15	263.9	0.5	0	885.05	261.0	0.2	0	885.05	261.0	0.2	0	886.75	311.9	0.9	0	9
10	885.15	263.9	0.5	0	885.05	261.0	0.2	0	885.05	261.0	0.2	0	886.75	311.9	0.1	0	10
11	885.15	263.9	0.4	0	885.05	261.0	0.2	0	885.10	262.5	0.2	0	886.80	313.4	0.9	0	11
12	885.10	262.5	0.2	0.6	885.05	261.0	0.2	0	885.10	262.5	0.2	0	886.85	315.0	0.9	0	12
13	884.90	256.9	0.2	2.5	885.05	261.0	0.2	0	885.10	262.5	0.2	0	886.90	316.6	0.9	0	13
14	884.65	250.3	0.3	2.7	885.05	261.0	0.1	0	885.10	262.5	0.2	0	886.90	316.6	0.1	0	14
15	884.60	249.0	0.2	1.0	885.05	261.0	0.1	0	885.10	262.5	0.2	0	886.95	318.2	0.9	0	15
16	884.60	249.0	0.2	0	885.05	261.0	0.1	0	885.15	263.9	0.8	0	886.95	318.2	0.1	0	16
17	884.60	249.0	0.2	0	885.05	261.0	0.1	0	886.05	290.0	13.3	0	886.95	318.2	0.1	0	17
18	884.60	249.0	0.2	0	885.05	261.0	0.1	0	886.10	291.5	1.0	0	886.95	318.2	0.1	0	18
19	884.60	249.0	0.2	0	885.05	261.0	0.1	0	886.10	291.5	0.2	0	887.20	326.5	4.3	0	19
20	884.60	249.0	0.2	0	885.05	261.0	0.1	0	886.10	291.5	0.1	0	888.40	368.2	21.1	0	20
21	884.60	249.0	0.2	0	885.05	261.0	0.1	0	886.10	291.5	0.1	0	888.45	370.0	1.1	0	21
22	884.60	249.0	0.2	0	885.05	261.0	0.1	0	886.15	293.1	0.6	0	888.75	380.9	5.7	0	22
23	884.60	249.0	0.2	0	885.05	261.0	0.1	0	886.20	294.7	0.2	0	888.85	384.5	2.0	0	23
24	884.60	249.0	0.2	0	885.05	261.0	0.1	0	886.20	294.7	0.2	0	888.85	384.5	0.7	0	24
25	884.60	249.0	0.2	0	885.05	261.0	0.1	0	886.15	293.1	0.2	0	888.90	386.4	0.7	0	25
26	884.60	249.0	0.2	0	885.00	259.6	0.1	0	886.30	297.8	2.5	0	888.90	386.4	0.2	0	26
27	884.60	249.0	0.2	0	885.00	259.6	0.1	0	886.70	310.3	6.4	0	888.90	386.4	0.2	0	27
28	884.60	249.0	0.2	0	885.00	259.6	0.1	0	886.75	311.9	1.0	0	888.90	386.4	0.2	0	28
29	884.60	249.0	0.2	0	885.00	259.6	0.2	0	886.75	311.9	0.1	0	888.90	386.4	0.2	0	29
30	885.10	262.5	7.0	0	885.00	259.6	0.2	0	886.75	311.9	0.1	0	888.90	386.4	0.2	0	30
31	885.10	262.5	0.2	0					886.75	311.9	0.1	0	888.90	386.4	0.2	0	31
TOTAL			15.3	11.4			4.5	0			30.3	0			4.8	0	
Inf. Ac. Ft.			30.3				8.9				60.1				8.9	182.2	
Outf. Ac. Ft.			22.6 + (19.2)				0 + (11.9)				0 + (7.7)				0 + (8.3)	22.6+(47.1)	
Maximum Mean Daily Inflow			0.7				0.2				13.3				2.1.1	21.1	
Minimum Mean Daily Inflow			0				0.1				0.1				0	0	
Storage Change			- 11.5				- 2.9				+ 52.3				+ 7.4.5	+ 112.4	½ Year

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	892.00	feet	on	3/21/49	Storage	513.3	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	883.95	feet	on	9/30/49	Storage	231.7	Acre Feet	F. A. POLLARD	Dam Tender	Gage Hts. copied JHL	APK	
Max. Peak Inf.	* 79.9	C. F. S. from	0800	on	1/20/49	to	1000	on	1/20/49	F. E. STUNDEN	Hydrographer	Storage applied JHL	APK	
Max. Peak Outf.	7.7	C. F. S. from	0645	on	7/29/49	to	0745	on	7/29/49		Hydrographer	Inf. & Outf. comp. JHL	CJR	

REMARKS (INDICATES AVERAGE FOR PERIOD OR PRORATED AMOUNTS
( ) INDICATES LOSS DUE TO EVAPORATION AND PERCOLATION
* METROPOLITAN WATER DISTRICT RELEASE INTO RESERVOIR ON 3/13/49. MAXIMUM INFLOW 240.0 CFS FROM 0040 TO 0110.

PUDDINGSTONE (cont'd)

F. C. Dist. Form 68B Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

~~In~~ On Puddingstone Creek for the Year Ending September 30, 1949

Continuous Water Stage Recorder Au

Drainage Area 32.2 Square Miles. Capacity of Reservoir 17190.0 Ac. Ft. at Spillway Elev. 970.0 Ft. as of January, 1941 Survey 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	888.90	386.4	0.2	0	890.40	445.2	0.1	0	891.90	509.0	(0	0	891.65	498.1	0.1	0	1
2	888.90	386.4	0.2	0	890.40	445.2	0.1	0	891.90	509.0	0.1	0	891.65	498.1	0.1	0	2
3	888.95	388.2	1.1	0	890.45	447.3	1.2	0	891.90	509.0	0.1	0	891.65	498.1	0.1	0	3
4	888.95	388.2	0.2	0	890.55	451.4	2.1	0	891.90	509.0	0.1	0	891.65	498.1	0.1	0	4
5	888.95	388.2	0.2	0	890.60	453.5	1.2	0	891.90	509.0	0.1	0	891.60	495.9	0.1	0	5
6	888.95	388.2	0.2	0	890.60	453.5	0.1	0	891.90	509.0	0.1	0	891.60	495.9	0.1	0	6
7	889.15	395.8	4.0	0	890.60	453.5	0.1	0	891.90	509.0	0.1	0	891.60	495.9	0.1	0	7
8	889.15	395.8	0.2	0	890.60	453.5	0.1	0	891.90	509.0	0.1	0	891.55	493.8	0.1	0	8
9	889.15	395.8	0.2	0	890.60	453.5	0.1	0	891.85	506.8	0.1	0	891.55	493.8	0.1	0	9
10	889.15	395.8	0.2	0	890.65	455.6	1.1	0	891.85	506.8	0.1	0	891.55	493.8	0.1	0	10
11	889.40	405.5	5.0	0	890.95	467.9	6.3	0	891.85	506.8	0.1	0	891.55	493.8	0.1	0	11
12	889.40	405.5	0.1	0	890.95	467.9	0.1	0	891.85	506.8	0.1	0	891.55	493.8	0.1	0	12
13	889.40	405.5	0.1	0	891.70	500.3	16.5	0	891.80	504.6	0.1	0	891.55	493.8	0.1	0	13
14	889.40	405.5	0.1	0	891.75	502.5	1.2	0	891.80	504.6	0.1	0	891.55	493.8	0.1	0	14
15	889.40	405.5	0.1	0	891.75	502.5	0.1	0	891.80	504.6	0.1	0	891.55	493.8	0.1	0	15
16	889.40	405.5	0.1	0	891.90	509.0	3.5	0	891.80	504.6	0.1	0	891.55	493.8	0.1	0	16
17	889.40	405.5	0.1	0	891.95	511.2	1.3	0	891.80	504.6	0.1	0	891.55	493.8	0.1	0	17
18	889.40	405.5	0.1	0	891.95	511.2	0.2	0	891.80	504.6	0.1	0	891.55	493.8	0.1	0	18
19	889.40	405.5	0.1	0	892.00	513.3	1.2	0	891.80	504.6	0.1	0	891.65	498.1	2.4	0	19
20	889.40	405.5	0.1	0	892.00	513.3	0.2	0	891.80	504.6	0.1	0	891.65	498.1	0.2	0	20
21	889.40	405.5	0.1	0	892.00	513.3	(0.1	0	891.75	502.5	0.1	0	891.60	495.9	0	0	21
22	889.40	405.5	0.1	0	892.00	513.3	0	0	891.75	502.5	0.1	0	891.60	495.9	0	0	22
23	889.40	405.5	0.1	0	892.00	513.3	0	0	891.75	502.5	0.1	0	891.60	495.9	0	0	23
24	889.60	413.3	4.1	0	892.00	513.3	0	0	891.75	502.5	0.1	0	891.55	493.8	0	0	24
25	889.60	413.3	0.1	0	891.95	511.2	0	0	891.70	500.3	0.1	0	891.55	493.8	0	0	25
26	890.00	428.8	7.9	0	891.95	511.2	0	0	891.70	500.3	0.1	0	891.55	493.8	0	0	26
27	890.15	435.0	3.2	0	891.95	511.2	0	0	891.70	500.3	0.1	0	891.55	493.8	0	0	27
28	890.40	445.2	5.2	0	891.95	511.2	0	0	891.70	500.3	0.1	0	891.50	491.6	0	0	28
29					891.95	511.2	0	0	891.70	500.3	0.1	0	891.50	491.6	0	0	29
30					891.95	511.2	0	0	891.70	500.3	(0.1	0	891.50	491.6	0	0	30
31					891.90	509.0	(0	0					891.50	491.6	0	0	31
TOTAL			33.4	0			36.9	0			2.9	0			4.4	0	
Inf. Ac. Ft.			662				732				58				87		3361
Outf. Ac. Ft.			0	+(75)			0	+(93)			0	+(145)			0	+(175)	2266+959
Maximum Mean Daily Inflow			7.9				16.5				0.1				2.4		211
Minimum Mean Daily Inflow			0.1				0				0				0		0
Storage Change		+588				+638				-87				-87			+2176

Yearly Totals

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	892.00	feet	on	3/21/49	Storage	513.3	Acre Feet				
Min. W. S. Elev.	883.95	feet	on	9/30/49	Storage	231.7	Acre Feet				
Max. Peak Inf.	* 79.9	C. F. S. from	0800	on	1/20/49	to	1000	on	1/20/49		
Max. Peak Outf.	7.7	C. F. S. from	0645	on	7/29/49	to	0745	on	7/29/49		

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
F. A. POLLARD	Dam Tender	Gage Hts. copied	JHL	APK 11/10/49
F. E. STUNDEN	Hydrographer	Storage applied	JHL	CJR 11/10/49
	Hydrographer	Inf. & Outf. comp.	JHL	CJR 11/10/49

REMARKS
(INDICATES AVERAGE FOR PERIOD OR PRORATED DAILY AMOUNTS.
( ) INDICATES LOSS DUE TO EVAPORATION AND PERCOLATION.
* METROPOLITAN WATER DISTRICT RELEASE INTO RESERVOIR ON 3/13/49. MAXIMUM INFLOW 240.0 CFS FROM 0040 TO 0110.

F. C. Dist. Form 68C Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

~~In~~ On Puddingstone Creek for the Year Ending September 30, 1949

Continuous Water Stage Recorder Au

Drainage Area 32.2 Square Miles. Capacity of Reservoir 17190.0 Ac. Ft. at Spillway Elev. 970.0 Ft. as of January, 1941 Survey 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	891.45	489.5	0	0	890.95	467.9	0	0	889.60	413.3	0	0	886.10	291.5	0	0	1
2	891.45	489.5	0	0	890.90	465.8	0	0	889.40	405.5	0	(2.9	885.90	285.5	0	(2.2	2
3	891.45	489.5	0	0	890.90	465.8	0	0	889.25	399.7	0	2.9	885.75	281.2	0	2.5	3
4	891.40	487.3	0	0	890.90	465.8	0	0	889.05	391.9	0	(3.1	885.55	275.4	0	2.2	4
5	891.40	487.3	0	0	890.85	463.8	0	0	888.90	386.4	0	(2.9	885.40	271.1	0	2.2	5
6	891.35	485.1	0	0	890.85	463.8	0	0	888.70	379.1	0	(2.9	885.20	265.4	0	2.2	6
7	891.35	485.1	0	0	890.85	463.8	0	0	888.70	379.1	0	0	885.00	259.6	0	2.2	7
8	891.35	485.1	0	0	890.80	461.7	0	0	888.55	373.6	0	(2.1	884.80	254.3	0	2.2	8
9	891.35	485.1	0	0	890.80	461.7	0	0	888.45	370.0	0	(1.5	884.60	249.0	0	2.2	9
10	891.30	482.9	0	0	890.80	461.7	0	0	888.35	366.3	0	(1.5	884.40	243.6	0	2.2	10
11	891.30	482.9	0	0	890.80	461.7	0	0	888.25	362.7	0	(2.3	884.30	241.0	0	1.1	11
12	891.30	482.9	0	0	890.75	459.7	0	0	888.10	357.2	0	(2.3	884.25	239.6	0	0.5	12
13	891.25	480.8	0	0	890.75	459.7	0	0	888.00	353.6	0	(1.2	884.20	238.3	0	0.3	13
14	891.25	480.8	0	0	890.70	457.6	0	0	887.80	346.8	0	(2.3	884.10	235.7	0	(0.6	14
15	891.25	480.8	0	0	890.70	457.6	0	0	887.65	341.7	0	(2.3	884.10	235.7	0	0.3	15
16	891.20	478.6	0	0	890.70	457.6	0	0	887.65	341.7	0	0	884.10	235.7	0	(0.1	16
17	891.20	478.6	0	0	890.65	455.6	0	0	887.65	341.7	0	0	884.10	235.7	0	(0	17
18	891.20	478.6	0	0	890.65	455.6	0	0	887.50	336.7	0	(1.9	884.10	235.7	0	0	18
19	891.15	476.4	0	0	890.60	453.5	0	0.1	887.35	331.6	0	2.6	884.05	234.3	0	0	19
20	891.15	476.4	0	0	890.60	453.5	0	0	887.20	326.5	0	(2.5	884.05	234.3	0	0	20
21	891.10	474.2	0	0	890.45	447.3	0	3.1	887.00	319.7	0	(2.5	884.05	234.3	0	0	21
22	891.10	474.2	0	0	890.20	437.0	0	3.7	887.00	319.7	0	0	884.05	234.3	0	0	22
23	891.10	474.2	0	0	890.20	437.0	0	0	887.00	319.7	0	0	884.05	234.3	0	0	23
24	891.05	472.1	0	0	890.20	437.0	0	0	887.00	319.7	0	0	884.05	234.3	0	0	24
25	891.05	472.1	0	0	890.20	437.0	0	0	886.95	318.2	0	0	884.00	233.0	0	0	25
26	891.05	472.1	0	0	890.15	435.0	0	0	886.95	318.2	0	0	884.00	233.0	0	0	26
27	891.00	469.9	0	0	890.05	430.9	0	1.8	886.75	311.9	0	(1.9	884.00	233.0	0	0	27
28	891.00	469.9	0	0	889.95	426.8	0	1.7	886.50	304.0	0	3.4	884.00	233.0	0	0	28
29	891.00	469.9	0	0	889.75	419.1	0	3.6	886.20	294.7	0	3.4	883.95	231.7	0	0	29
30	890.95	467.9	0	0	889.60	413.3	0	2.3	886.10	291.5	0	(2.4	883.95	231.7	0	0	30
31					889.60	413.3	0	0	886.10	291.5	0	0					31
TOTAL			0	0			0	16.3			0	50.8			0	0	
Inf. Ac. Ft.			0				0				0				0		3361
Outf. Ac. Ft.			0	+(23.7)			323	+(223)			1008	+(209)			456	+(142)	201.3+(177.0)
Maximum Mean Daily Inflow			0				0				0				0		211
Minimum Mean Daily Inflow			0				0				0				0		0
Storage Change		-23.7				-54.6				-121.8				-59.8			-423

Yearly Totals

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	892.00	feet	on	3/21/49	Storage	513.3	Acre Feet				
Min. W. S. Elev.	883.95	feet	on	9/30/49	Storage	231.7	Acre Feet				
Max. Peak Inf.	* 79.9	C. F. S. from	0800	on	1/20/49	to	1000	on	1/20/49		
Max. Peak Outf.	7.7	C. F. S. from	0645	on	7/29/49	to	0745	on	7/29/49		

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
F. A. POLLARD	Dam Tender	Gage Hts. copied	JHL	CJR 11/14/49
F. E. STUNDEN	Hydrographer	Storage applied	JHL	CJR 11/14/49
	Hydrographer	Inf. & Outf. comp.	JHL	CJR 11/19/49

REMARKS
(INDICATES AVERAGE FOR PERIOD OR PRORATED DAILY AMOUNTS.
( ) INDICATES LOSS DUE TO EVAPORATION AND PERCOLATION.
* METROPOLITAN WATER DISTRICT RELEASE INTO RESERVOIR ON 3/13/49. MAXIMUM INFLOW 240.0 CFS FROM 0040 TO 0110.

PUDDINGSTONE DIVERSION

F. C. Dist. Form 86A Revised 806 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE DIVERSION Dam

~~In~~ On San Dimas Creek for the Year Ending September 30, 1949

Continuous Water Stage Recorder Au

Drainage Area 2.6 Square Miles. Capacity of Reservoir 109.8 Ac. Ft. at Spillway Elev. 1152.5 Ft. as of September 1944 Survey Gage Heights Read at various times

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																	1
2																	2
3																	3
4																	4
5																	5
6																	6
7																	7
8																	8
9																	9
10																	10
11																	11
12																	12
13																	13
14																	14
15																	15
16						Reservoir Dry												16
17																	17
18																	18
19						Seasons 1947-48 and 1948-49												19
20																	20
21																	21
22																	22
23																	23
24																	24
25																	25
26																	26
27																	27
28																	28
29																	29
30																	30
31																	31
TOTAL																	
Inf. Ac. Ft.																	
Outf. Ac. Ft.																	
Maximum Mean Daily Inflow																	
Minimum Mean Daily Inflow																	
Storage Change																	

NOTE: Gage Heights and Storages as of Midnight on Day Shown ½ Year

Max. W. S. Elev.	feet	on	Storage	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	feet	on	Storage	Acre Feet		Dam Tender	Gage Hts. copied		
Max. Peak Inf.	C. F. S. from		on	to on		Hydrographer	Storage applied		
Max. Peak Outf.	C. F. S. from		on	to on		Hydrographer	Inf. & Outf. comp.		

REMARKS

LIVE OAK

F. C. Dist. Form 86A Revised 806 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In ~~On~~ Live Oak Canyon for the Year Ending September 30, 1949

Continuous Water Stage Recorder Au

Drainage Area 2.3 Square Miles. Capacity of Reservoir 227.5 Ac. Ft. at Spillway Elev. 1497.0 Ft. as of May 1938 Survey Gage Heights Read at various times

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																	1
2																	2
3																	3
4																	4
5																	5
6																	6
7																	7
8																	8
9																	9
10																	10
11																	11
12																	12
13																	13
14																	14
15																	15
16						Reservoir Dry												16
17																	17
18																	18
19						Seasons 1947-48 and 1948-49												19
20																	20
21																	21
22																	22
23																	23
24																	24
25																	25
26																	26
27																	27
28																	28
29																	29
30																	30
31																	31
TOTAL																	
Inf. Ac. Ft.																	
Outf. Ac. Ft.																	
Maximum Mean Daily Inflow																	
Minimum Mean Daily Inflow																	
Storage Change																	

NOTE: Gage Heights and Storages as of Midnight on Day Shown ½ Year

Max. W. S. Elev.	feet	on	Storage	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	feet	on	Storage	Acre Feet		Dam Tender	Gage Hts. copied		
Max. Peak Inf.	C. F. S. from		on	to on		Hydrographer	Storage applied		
Max. Peak Outf.	C. F. S. from		on	to on		Hydrographer	Inf. & Outf. comp.		

REMARKS

THOMPSON CREEK

F. C. Dist. Form 88C Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

~~In~~ On Thompson Creek for the Year Ending September 30, 1949

Continuous Water Stage Recorder AU

Drainage Area 3.5 Square Miles. Capacity of Reservoir 613.7 Ac. Ft. at Spillway Elev. 1834.85 Ft. as of January 1943 Survey Gage Heights Read at various times.

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																	1
2																	2
3																	3
4																	4
5																	5
6																	6
7																	7
8																	8
9																	9
10																	10
11																	11
12																	12
13																	13
14																	14
15																	15
16																	16
17							Reservoir Dry										17
18																	18
19																	19
20							Seasons 1947-48 and 1948-49										20
21																	21
22																	22
23																	23
24																	24
25																	25
26																	26
27																	27
28																	28
29																	29
30																	30
31																	31
TOTAL																	
Inf. Ac. Ft.																	
Outf. Ac. Ft.																	
Maximum Mean Daily Inflow																	
Minimum Mean Daily Inflow																	
Storage Change																	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — Yearly Totals

Max. W. S. Elev.	feet	on	Storage	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS ckd. Date
Min. W. S. Elev.	feet	on	Storage	Acre Feet		Dam Tender	Gage Hts. copied
Max. Peak Inf.	C. F. S. from		on	to on		Hydrographer	Storage applied
Max. Peak Outf.	C. F. S. from		on	to on		Hydrographer	Inf. & Outf. comp.

REMARKS

HAMILTON BOWL

F. C. Dist. Form 68A Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of HAMILTON BOWL Dam

In ~~Co.~~ Long Beach, California for the Year Ending September 30, 1948

Continuous Water Stage Recorder HCF

Drainage Area 3.5 Square Miles. Capacity of Reservoir 160.4 Ac. Ft. at ~~Spillway~~ Elev. 17.0 Ft. as of July 31, 1947 Survey 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			0	0			0	0	Res. Empty	Ponded water in well	2.8	2.8			0	0	1
2			0	0			0	0			0	0			0	0	2
3			0	0			0	0			0	0			0	0	3
4			0	0			0	0	8.0	7.8	17.1	13.2			0	0	4
5			0	0			0	0	5.5	0.9	26.5	29.9			0	0	5
6			0	0			0	0			1.6	2.1			0	0	6
7			0	0			0	0			1.4	1.4			0	0	7
8			0	0			0	0			0	0			0	0	8
9			0	0			0	0			0	0			0	0	9
10	.50	0.6	0.7	0.4			0	0			0	0			0	0	10
11			0.4	0.7			0	0			0	0			0	0	11
12			0	0			0	0			0	0			0	0	12
13			0	0			0	0			0	0			0	0	13
14			0	0			0	0			0	0			0	0	14
15			0	0			0	0			0	0			0	0	15
16			0	0			0	0			0	0			0	0	16
17			0	0			0	0			0	0			0	0	17
18			0	0			0	0			0	0			0	0	18
19			0	0			0	0			0	0			0	0	19
20			0	0			0	0			0	0			0	0	20
21			0	0			0	0			0	0			0	0	21
22			0	0			0	0			0	0			0	0	22
23			0	0			0	0			0	0			0	0	23
24			0	0			0	0			0	0			0	0	24
25			0	0			0	0			0	0			0	0	25
26			0	0			0	0			0	0			0	0	26
27			0	0			0	0			0	0			0	0	27
28			0	0			0	0			0	0			0	0	28
29			0	0			0	0			0	0			0	0	29
30			0	0			0	0			0	0			0	0	30
31			0	0							0	0			0	0	31
TOTAL			1.1	1.1			0	0			4.9.4	4.9.4			0		
Inf. Ac. Ft.			2.2				0				9.8.0				0	1.0.0.2	
Outf. Ac. Ft.				2.2				0				9.8.0			0	1.0.0.2	
Maximum Mean Daily Inflow			0.7				0				2.6.5				0	2.6.5	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change	0				0				0				0			0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	8.5	feet	on	2/5/48	Storage	14.4	Acre Feet		RECORDS COLLECTED BY			COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1.8+	feet		MIX MOST OF YEAR	Storage	0	Acre Feet		J.C. VIDMAR	Dam Tender		Gage Hts. copied	APK DB	6/18/48
Max. Peak Inf.	211.9	C.F.S. from	5:30 P.M.	on 2/5/48	to	6:00 P.M.	on	2/5/48	E. S. BONADIMAN	Hydrographer		Storage applied	APK DB	6/18/48
Max. Peak Outf.	54.0	C.F.S. from	9:00 P.M.	on 2/5/48	to	9:30 P.M.	on	2/5/48		Hydrographer		Inf. & Outf. comp.	APK RCL & JHL	8/30/48

REMARKS

F. C. Dist. Form 68A Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of HAMILTON BOWL Dam

In ~~Co.~~ Long Beach, California for the Year Ending September 30, 1948

Continuous Water Stage Recorder HCF

Drainage Area 3.5 Square Miles. Capacity of Reservoir 160.4 Ac. Ft. at ~~Spillway~~ Elev. 17.0 Ft. as of July 31, 1947 Survey 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	Res. Empty	Ponded water in well	0	0			0	0			0	0			0	0	1
2			0	0			0	0			0	0			0	0	2
3			0	0			0	0			7.9	7.9			0	0	3
4			0	0			0	0			0.1	0.1			0	0	4
5	7.1	2.4	22.1	20.9			0	0			0	0			0	0	5
6			1.0	2.2	Reservoir Empty	Ponded water in well	0	0			0	0			0	0	6
7			0	0			0	0			0	0			0	0	7
8			0	0			0	0			0	0			0	0	8
9			0	0			0	0			0	0			0	0	9
10			0	0			0	0			0.3	0.3			0	0	10
11			0	0			0	0	Reservoir Empty	Ponded water in well	0	0			0	0	11
12			0	0			0	0			0	0			0	0	12
13			0	0	7.1	2.4	6.9	5.7			0	0	Reservoir Empty	Ponded water in well	0	0	13
14	Reservoir Empty	Ponded water in well	0	0	3.8	0.2	2.3	3.4			0	0			0	0	14
15			0	0			0	0.1			0	0			0	0	15
16			0	0			0	0			0	0			0	0	16
17			0	0			7.0	7.0			0	0			0	0	17
18			0	0	Reservoir Empty	Ponded water in well	0	0			0	0			0	0	18
19			0	0			0.4	0.4			0	0			0	0	19
20			0	0			0	0			0	0			0	0	20
21			0	0			0	0			0	0			0	0	21
22			0	0			0	0			0	0			0	0	22
23			0	0			0	0			0	0			0	0	23
24			0	0	5.0	0.6	12.9	12.6			0	0			0	0	24
25			0	0			0	0.3			0	0			0	0	25
26			0	0			0	0			0	0			0	0	26
27			0	0	Reservoir Empty	Ponded water in well	0	0			0	0			0	0	27
28			0	0			0	0	7.6	4.6	2.3	0			0	0	28
29			0	0			0	0	Res. Empty	Ponded Water	2.0	4.3			0	0	29
30							0	0			0	0			0	0	30
31							0	0							0	0	31
TOTAL			23.1	23.1			29.5	29.5			12.6	12.6			0	0	
Inf. Ac. Ft.			45.8				58.5				25.0				0	229.5	
Outf. Ac. Ft.				45.8				58.5				25.0			0	229.5	
Maximum Mean Daily Inflow			22.1				12.9				7.9				0	26.5	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change	0				0				0				0			0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	8.5	feet	on	2/5/48	Storage	14.4	Acre Feet		RECORDS COLLECTED BY			COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1.8 †	feet		XXX MOST OF YEAR	Storage	0	Acre Feet		J. C. VIDMAR	Dam Tender		Gage Hts. copied	APK RCL	9/1/48
Max. Peak Inf.	211.9	C.F.S. from	5:30 P.M.	on 2/5/48	to	6:00 P.M.	on	2/5/48	E. S. BONADIMAN	Hydrographer		Storage applied	APK RCL	"
Max. Peak Outf.	54.0	C.F.S. from	9:00 P.M.	on 2/5/48	to	9:30 P.M.	on	2/5/48		Hydrographer		Inf. & Outf. comp.	APK RCL	"

REMARKS

HAMILTON BOWL (cont'd)

F. C. Dist. Form 68C Revised 500 11/44

Daily Gage Height in feet and Operation Record of HAMILTON BOWL Dam

In Long Beach, California for the Year Ending September 30, 1948

On

Drainage Area 3.5 Square Miles. Capacity of Reservoir 160.4 Ac. Ft. at ~~Spillway~~ Elev. 17.0 Ft. as of July 31 1947 Survey

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder HCF

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	7.1	2.4	12	0			0	0			0	0			0	0	1
2			0	12			0	0			0	0			0	0	2
3			0	0			0	0			0	0			0	0	3
4			0	0			0	0			0	0			0	0	4
5			0	0			0	0			0	0			0	0	5
6			0	0			0	0			0	0			0	0	6
7			0	0			0	0			0	0			0	0	7
8			0	0			0	0			0	0			0	0	8
9			0	0			0	0			0	0			0	0	9
10			0	0			0	0			0	0			0	0	10
11			0	0			0	0			0	0			0	0	11
12			0	0			0	0			0	0			0	0	12
13			0	0			0	0			0	0			0	0	13
14			0	0			0	0			0	0			0	0	14
15			0	0			0	0			0	0			0	0	15
16			0	0			0	0			0	0			0	0	16
17			0	0			0	0			0	0			0	0	17
18			0	0			0	0			0	0			0	0	18
19			0	0			0	0			0	0			0	0	19
20			0	0			0	0			0	0			0	0	20
21			0	0			0	0			0	0			0	0	21
22			0	0			0	0			0	0			0	0	22
23			0	0			0	0			0	0			0	0	23
24			0	0			0	0			0	0			0	0	24
25			0	0			0	0			0	0			0	0	25
26			0	0			0	0			0	0			0	0	26
27			0	0			0	0			0	0			0	0	27
28			0	0			0	0			0	0			0	0	28
29			0	0			0	0			0	0			0	0	29
30			0	0			0	0			0	0			0	0	30
31							0	0			0	0			0		31
TOTAL			12	12			0	0			0	0			0	0	
Inf. Ac. Ft.			24				0				0				0	2319	
Outf. Ac. Ft.				24				0				0			0	2319	
Maximum Mean Daily Inflow			12				0				0				0	265	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		0				0				0				0		0	

Reservoir Dry / Ponded water in well

NOTE: Gage Heights and Storages as of Midnight on Day Shown — Yearly Totals

Max. W. S. Elev.	8.5	feet on 2/5/48	Storage	14.4	Acre Feet	RECORDS COLLECTED BY		
Min. W. S. Elev.	1.8 +	feet ~~or~~ 90% MOST OF YEAR	Storage	0	Acre Feet	J. C. VIDMAR	Dam Tender	
Max. Peak Inf.	211.9	C. F. S. from 5:30 P.M.	on 2/5/48	to 6:00 P.M.	on 2/5/48	E. S. BONADIMAN	Hydrographer	
Max. Peak Outf.	54.0	C. F. S. from 9:00 P.M.	on 2/5/48	to 9:30 P.M.	on 2/5/48		Hydrographer	

COMPUTATIONS	ckd.	Date
Gage Hts. copied	RCL JHL	10/14/48
Storage applied	RCL JHL	"
Inf. & Outf. comp.	RCL JHL	"

REMARKS

F. C. Dist. Form 68A Revised 500 11/44

Daily Gage Height in feet and Operation Record of HAMILTON BOWL ~~Dam~~

In Long Beach, California for the Year Ending September 30, 1949

On

Drainage Area 3.5 Square Miles. Capacity of Reservoir 160.4 Ac. Ft. at ~~Spillway~~ Elev. 17.0 Ft. as of July 31, 1947 Survey

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder H.C.F.

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			0	0	Reservoir	No	0	0			0	0	1
2			0	0			0	0	Empty	Storage	0	0			0	0	2
3			0	0			0	0	5.8	1.0	0.5	0			0	0	3
4			0	0			0	0			0	0.5			0	0	4
5			0	0			0	0			0	0	Reservoir Empty	Ponded Water in Sump	0	0	5
6			0	0			0	0			0	0			0	0	6
7			0	0			0	0			0	0			0	0	7
8			0	0			0	0	Reservoir Empty	Ponded Water in Sump	0	0			0	0	8
9			0	0			0	0			0	0			0	0	9
10			0	0			0	0			0	0	4.2	0.3	0.2	0	10
11			0	0			0	0			0	0	4.8	0.5	8.1	8.0	11
12	Reservoir Empty	No Storage	0	0	Reservoir Empty	No Storage	0	0			0	0	8.1	9.1	11.6	7.3	12
13			0	0			0	0			0	0	5.7	1.0	5.7	9.8	13
14			0	0			0	0			0	0			1.9	2.4	14
15			0	0			0	0			0	0			0	0	15
16			0	0			0	0	7.4	3.5	1.8	0	Res. Empty	Ponded Water in Sump	0	0	16
17			0	0			0	0	4.2	0.3	24.6	26.2			0	0	17
18			0	0			0	0	Reservoir	Ponded	0	0.2			0	0	18
19			0	0			0	0	Empty	Water in	0	0	6.8	1.9	4.9	3.9	19
20			0	0			0	0		Sump	0	0	Reservoir	Ponded	5.9	6.9	20
21			0	0			0	0			0	0	Empty	Water	0	0	21
22			0	0			0	0	4.9	0.5	10.8	10.5	4.0	0.2	1.6	1.5	22
23			0	0			0	0		Ponded	0.1	0.4			1.9	2.0	23
24			0	0			0	0	Reservoir	Water in	0	0			0	0	24
25			0	0			0	0	Empty	Sump	0	0			0	0	25
26			0	0			0	0	7.5	3.8	9.3	7.4			0	0	26
27			0	0			0	0		Ponded water in Sump	7.7	9.6	Reservoir Empty	Ponded Water in Sump	0	0	27
28			0	0			0	0	Reservoir		0	0			0	0	28
29			0	0			0	0	Empty		0	0			0	0	29
30			0	0			0	0			0	0			0	0	30
31			0	0							0	0			0	0	31
TOTAL			0	0			0	0			54.8	54.8			4.18	4.18	
Inf. Ac. Ft.			0				0				108.7				829	1916	
Outf. Ac. Ft.				0				0				108.7			829	1916	
Maximum Mean Daily Inflow			0				0				24.6				11.6	24.6	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change									0					0		0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — ½ Year

Max. W. S. Elev.	9.4	feet on 12/17/48	Storage	28.9	Acre Feet	RECORDS COLLECTED BY		
Min. W. S. Elev.	2.9	feet ~~or~~ PART OF YEAR	Storage	0	Acre Feet	J. C. VIDMAR	Dam Tender	
Max. Peak Inf.	237.6	C. F. S. from 0030	on 12/17/48	to 0100	on 12/17/48	E. S. BONADIMAN	Hydrographer	
Max. Peak Outf.	53.7	C. F. S. from 0810	on 12/17/48	to 0815	on 12/17/48		Hydrographer	

COMPUTATIONS	ckd.	Date
Gage Hts. copied	JHL APK	
Storage applied	JHL APK	
Inf. & Outf. comp.	JHL APK	

REMARKS INFLOW AND OUTFLOW COMPUTED FROM VENTURI METERED FLOW AND STORAGE CHANGES

HAMILTON BOWL (cont'd)

F. C. Dist. Form 68B Revised 800 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of HAMILTON BOWL ~~Dam~~

In ~~On~~ Long Beach, California for the Year Ending September 30, 1949

Continuous Water Stage Recorder H.C.F

Drainage Area 3.5 Square Miles. Capacity of Reservoir 180.4 Ac. Ft. at ~~Spillway~~ Elev. 17.0 Ft. as of July 31, 1947 Survey 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			0	0	Reservoir	Ponded	0	0			0	0			0	0	1
2			0	0	Empty	Water in	0	0			0	0			0	0	2
3	Res.	Ponded	2.1	2.1		Sump	0	0			0	0			0	0	3
4	Empty	Water in	0	0	5.1	0.6	0.9	0.6			0	0			0	0	4
5		Sump	0.1	0.1			0.2	0.5			0	0			0	0	5
6			0	0		Ponded	0	0			0	0			0	0	6
7	5.0	0.6	10.8	10.5	Res.	Water in	0	0			0	0			0	0	7
8			0	0.3	Empty	Sump	0	0			0	0			0	0	8
9			0	0			0	0			0	0			0	0	9
10			0	0	6.8	1.9	1.0	0			0	0			0	0	10
11			1.1	1.1			9.2	10.2			0	0			0	0	11
12			0	0			0	0			0	0			0	0	12
13			0	0			0	0			0	0			0	0	13
14	Reservoir Empty	Ponded Water in Sump	0	0	Reservoir Empty	Ponded Water in Sump	0	0	Reservoir Empty	Ponded Water in Sump	0	0	Reservoir Empty	Ponded Water in Sump	0.6	0.6	14
15			0	0			0	0			0	0			0	0	15
16			0	0			0	0			0	0			0	0	16
17			0	0			0	0			0	0			0.6	0.6	17
18			0	0			0	0			0	0	4.0	0.2	0.2	0.1	18
19			0	0			0.9	0.9			0	0			0.9	1.0	19
20			0	0			0	0			0	0			0	0	20
21			0	0			0	0			0	0			0	0	21
22			0	0			0	0			0	0			0	0	22
23			0	0			0.1	0.1			0	0			0	0	23
24	5.2	0.7	1.1	0.7	4.3	0.3	6.6	6.4			0	0			0	0	24
25	Res. Empty	Ponded Water	0.2	0.6			0	0.2			0	0			0	0	25
26	7.4	3.5	1.8	0			0	0			0	0			0	0	26
27			2.4	4.2			0	0			0	0			0	0	27
28			0	0	Reservoir	Ponded	0	0			0	0	Reservoir	Ponded	0	0	28
29	Res.	Ponded			Empty	Water in	0	0			0	0	Empty	Water in	0	0	29
30	Empty	Water				Sump	0	0			0	0		Sump	0	0	30
31							0	0							0	0	31
TOTAL			19.6	19.6			18.9	18.9			0	0			2.3	2.3	
Inf. Ac. Ft.			38.9				37.5				0				4.6	272.6	
Outf. Ac. Ft.				38.9				37.5				0			4.6	272.6	
Maximum Mean Daily Inflow			10.8				9.2				0				0.9	24.6	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change	0				0				0				0			0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — % Year

Max. W. S. Elev.	9.4	feet	on 12/17/48	Storage	28.9	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	2.9	feet	on PART OF YEAR	Storage		Acre Feet	J. C. VIDMAR	Dam Tender	Gage Hts. copied	JHL APK	
Max. Peak Inf.	237.6	C. F. S. from	0030	on 12/17/48	to 0100	on 12/17/48	E. S. BONADIMAN	Hydrographer	Storage applied	JHL	
Max. Peak Outf.	53.7	C. F. S. from	0810	on 12/17/48	to 0815	on 12/17/48		Hydrographer	Inf. & Outf. comp.	JHL	

REMARKS INFLOW AND OUTFLOW COMPUTED FROM VENTURI METERED FLOW AND STORAGE CHANGES

F. C. Dist. Form 68C Revised 800 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of HAMILTON BOWL ~~Dam~~

In ~~On~~ Long Beach, California for the Year Ending September 30, 1949

Continuous Water Stage Recorder H.C.F.

Drainage Area 3.5 Square Miles. Capacity of Reservoir 180.4 Ac. Ft. at ~~Spillway~~ Elev. 17.0 Ft. as of July 31, 1947 Survey 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			0	0			0	0			0	0			0	0	1
2			0	0			0	0			0	0			0	0	2
3			0	0			0	0			0	0			0	0	3
4			0	0			0	0			0	0			0	0	4
5			0	0			0	0			0	0			0	0	5
6			0	0			0	0			0	0			0	0	6
7			0	0			0	0			0	0			0	0	7
8			0	0			0	0			0	0			0	0	8
9			0	0			0	0			0	0			0	0	9
10			0	0			0	0			0	0			0	0	10
11			0	0			0	0			0	0			0	0	11
12			0	0			0	0			0	0			0	0	12
13			0	0			0	0			0	0			0	0	13
14			0	0			0	0			0	0			0	0	14
15			0	0			0	0			0	0			0	0	15
16			0	0			0	0			0	0			0	0	16
17			0	0			0	0			0	0			0	0	17
18			0	0			0	0			0	0			0	0	18
19			0	0			0	0			0	0			0	0	19
20			0	0			0	0			0	0			0	0	20
21			0	0			0	0			0	0			0	0	21
22			0	0			0	0			0	0			0	0	22
23			0	0			0	0			0	0			0	0	23
24			0	0			0	0			0	0			0	0	24
25			0	0			0	0			0	0			0	0	25
26			0	0			0	0			0	0			0	0	26
27			0	0			0	0			0	0			0	0	27
28			0	0			0	0			0	0			0	0	28
29			0	0			0	0			0	0			0	0	29
30			0	0			0	0			0	0			0	0	30
31							0	0			0	0					31
TOTAL			0	0			0	0			0	0			0	0	
Inf. Ac. Ft.			0				0				0				0	272.6	
Outf. Ac. Ft.				0				0				0			0	272.6	
Maximum Mean Daily Inflow			0				0				0				0	24.6	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change	0				0				0				0			0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — Yearly Totals

Max. W. S. Elev.	9.4	feet	on 12/17/48	Storage	28.9	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	2.9	feet	on PART OF YEAR	Storage	0	Acre Feet	J. C. VIDMAR	Dam Tender	Gage Hts. copied	APK	
Max. Peak Inf.	237.6	C. F. S. from	0030	on 12/17/48	to 0100	on 12/17/48	E. S. BONADIMAN	Hydrographer	Storage applied	APK	
Max. Peak Outf.	53.7	C. F. S. from	0810	on 12/17/49	to 0815	on 12/17/48		Hydrographer	Inf. & Outf. comp.	APK	

REMARKS INFLOW AND OUTFLOW COMPUTED FROM VENTURI METERED FLOW AND STORAGE CHANGES

TABLE XII

YEARLY RESERVOIR OPERATION SUMMARY

1947-48, 1948-49

		INFLOW			OUTFLOW	PEAK INFLOW				PEAK OUTFLOW				STORAGE A.F.		
YEAR	DAM	ANNUAL A.F.	MAX. DAY CFS	MIN. DAY CFS	ANNUAL A.F.	MO.	DAY	PERIOD	C.F.S.	MO.	DAY	PERIOD	C.F.S.	MAXIMUM	MINIMUM	SEPT. 30
1947-48	PACOIMA	369.	6.4	0.1	335.	4	29	1000 TO 1100	12.	6	29	1130 TO 1200	7.7	267.	0	18.
1948-49	"	723.	10.5	0.1	740.	3	5	0400 TO 0500	17.	6	24	1715 TO 1730	10.3	554.	0.4	0.8
1947-48	BIG TUJUNGA NO. 1	2679.	44.	0.7	3579.	4	29	0200 TO 0400	85.	7	15	0842 TO 1442	54.	1640.	0	0
1948-49	" " " "	2129.	16.	0.1	1645.	3	11	0000 TO 0600	18	8	30	TO 9-2	4.5	1291.	0	484.
1947-48	DEVIL'S GATE	260.	32.	0	57.	3	24	1400 TO 1500	444.	4	5	1800 TO 1830	1.9	101.	0	NEGLIGIBLE
1948-49	" "	185.	14.	0	37.	3	10	2200 TO 2400	59.	6	3	1000 TO 1200	1.3	90.	0	0
1947-48	EATON WASH	64.	11.	0	5.0	4	28	2100 TO 2200	90.	12	4, 5	2250 TO 0330	9.0	39.	0	0.8
1948-49	" "	36.	4.7	0	1.2	1	20	1100 TO 1200	9.9	12	18	LEAKAGE	0.3	7.1	0	0
1947-48	SANTA ANITA	1075.	14.	0.3	1243.	4	28, 29	2300 TO 0200	41.	2	5, 6	1700 TO 1800	5.2	413.	109.	109.
1948-49	" "	1031.	17.	0.2	983.	1	20	0800 TO 1000	32	1	20	1200 TO 1230	10.4	348.	65.	157.
1947-48	SAWPIT	23.	0.3	0	5.1	4	28	0800 TO 0900	2.9	5	14	TO 6-2	0.1	63.	45.	58.
1948-49	"	42.	0.4	0	32.	3	10	2300 TO 2400	0.9	2	9	1100 TO 1200	18.	63.	48.	56.
1947-48	SAN GABRIEL NO. 2	3103.	86	0.3	3032.	4	29	0100 TO 0200	262.	2	5	1200 TO 2400	28.	439.	0	PIT ONLY 47.
1948-49	" " " "	2911.	32.	0.3	2765.	1	20	1030 TO 1130	65.	7	21	1500 TO 1542	19.	2215.	47.	64.
1947-48	SAN GABRIEL NO. 1	29259.	257.	9.9	37794.	4	29	0200 TO 0400	506.	12	12	1500 TO 1745	2660.	12342.	1703.	1703.
1948-49	" " " "	24728.	94.	11.	21546.	1	20	1100 TO 1200	120.	6	2	0800 TO 0900	3780	9191.	267.	4026.
1947-48	BIG DALTON	58.	0.7	0	7.7	4	28	2230 TO 2300	9.7	12	22	0930 TO 1000	9.9	66.	13.	64.
1948-49	" "	94.	0.8	0	113.	12	17	1300 TO 1600	3.3	9	15	0800 TO 2400	7.9	119.	20.	23.
1947-48	SAN DIMAS	720.	10.5	0	706.	2	5	0800 TO 1000	15.	8	4	1135 TO 1205	4.7	590.	25.	38.
1948-49	" "	728.	11.	0.1	694.	1	20	0800 TO 1000	19.	1	22	0815 TO 0900	5.3	498.	38	72.
1947-48	PUDDINGSTONE DIVERSION	0			0											0
1948-49	" "	0			0											0
1947-48	PUDDINGSTONE	324.	31.	0	362.	12	5	1700 TO 1800	195.	8	8	1130 TO 1530	9.1	569.	274.	274.
1948-49	"	336.	21.	0	201.	1	20	0800 TO 1000	80	7	29	0645 TO 0745	7.7	513.	232.	232.
1947-48	LIVE OAK	0			0											0
1948-49	" "	0			0											0
1947-48	THOMPSON CREEK	0			0											0
1948-49	" "	0			0											0
1947-48	HAMILTON BOWL	232.	26.	0	232.	2	5	1730 TO 1800	212.	2	5	2100 TO 2130	54.	14.	0	0
1948-49	" "	273.	25.	0	273.	12	17	0030 TO 0100	238	12	1 7	0810 TO 0815	54.	29.	0	0

GROUND WATER
&
CONSERVATION

GROUND WATER AND WATER CONSERVATION

FOREWORD

The seasons covered by this report mark the low period of five consecutive years of deficient rainfall. This, coupled with the continued increase in population, expansion of industry, and export of sewage water to the ocean, has resulted in a general depletion of storage in the various ground water basins. This continues to place emphasis upon the necessity of unremitting study of changing conditions and has increased the demand for adopting new and more comprehensive conservation practices.

The principles, practices and objectives of water conservation and the physical characteristics of the principal ground water basins of the County were discussed in considerable detail in the Annual Report on Hydrologic Data for 1941-42 and reference may be made to that report for such information.

More consideration during this period has been given to the detection of ground water pollution in that contamination from industrial wastes and salt water intrusion from the ocean is becoming more critical.

SEASONAL DATA AND MAPS

In order to determine to what extent the ground water basins were replenished or depleted during the 1947-48 and 1948-49 seasons, numerous measurements of water table and pressure surface elevations were made or obtained from cooperating agencies; 1472 wells were measured in the fall and again in the spring of each season. One hundred twenty of these (designated as Key Wells, see Map IV, page 337), were measured at monthly intervals. A smaller number was measured more frequently and a few were equipped with automatic recorders to provide continuous records of fluctuation. Of the 1472 wells, approximately 80, located in the westerly part of Antelope Valley, were measured by the District as its part in a cooperative arrangement with the United States Geological Survey and the State Division of Water Resources, whereby the United States Geological Survey measured approximately 60 wells in the easterly part of the Valley, and the State Division of Water Resources made hydrographs of the Key Wells and ground water contour maps from fall measurements. See Maps XIX and XX, pages 363 and 364.

Ground water maps were made for San Fernando Valley, San Gabriel Valley, and the Coastal Plain from the fall and spring measurements, and for Santa Clara Valley and Antelope Valley from fall measurements. With a few exceptions, the fall

and spring maps show the seasonal low and high positions of the water tables or pressure surfaces by contour lines. See Maps V to XX, pages 349 to 364 inclusive.

The more important key well measurements were reduced to hydrographs, 12 of which are included herein to show the fluctuations in the respective basins. As a result of the dry seasons, small variation, in general, exists between the fall elevations and succeeding spring elevations, since winter pumping draft was approximately offset by the small supply to ground water, while considerable lowering of ground water levels is indicated during summer months due to heavy pumping draft. See graphs on pages 339 to 347 inclusive.

CONSERVATION

Tables XIII to XV show the amount of surface water conserved by percolation in reservoirs and channels as well as spreading grounds and the amount that flowed to the ocean as waste. With the flood control and conservation facilities now in operation, those under construction and those contemplated in the Comprehensive Plan it is expected that eventually the waste will be materially reduced. It will never be totally eliminated, however, because of economic limits. As more concrete flood channels are constructed, the development of spreading facilities must be sufficient to offset natural channel percolation intercepted by the impervious concrete channels as well as to conserve waste water. For example, the recently completed spreading area of 15 acres on Eaton Wash, is estimated to have a spreading capacity of 20 cfs. Ultimate development of additional area will increase this to an estimated capacity of 30 cfs, as compared to a rate of percolation in the natural channel ranging from 20 to 40 cfs. Likewise, the recently completed Sawpit Spreading Grounds have an estimated capacity of 30 cfs, as compared to a percolation rate in the natural channel of 15 to 20 cfs.

GROUND WATER POLLUTION

During the 1947-48 and 1948-49 seasons, the study of ground water pollution was continued. Samples of water for chemical analysis were taken from streams and from wells in industrial districts, oil fields, and the coastal area. In general, only partial analyses of samples were made; that is, only the carbonate, bicarbonate, and chloride content were determined. About 374 such analyses were made in the District's testing laboratory in 1947-48 and 512 in 1948-49.

Complete analyses were made upon samples of water from numerous wells and surface streams throughout the County in order to establish a norm by which any future variation in the quality of the water may be determined.

In carrying out the above-mentioned programs and in the investigation of localized pollution problems, complete analyses were made of water from wells and surface sources for 241 samples in 1947-48 and 264 in 1948-49.

Rapid industrial expansion and more rigid enforcement of air pollution enactments in Los Angeles County resulted in indiscriminate discharges of industrial wastes and uncontrolled dumping of wastes previously burned at innumerable licensed and unlicensed dump sites. The menace to public health and safety arising from potential pollution and contamination of surface and underground waters, and the damage to storm drains and stream channels, became so critical as to require, on August 9, 1946, amendment by the Board of Supervisors, of County Ordinance No. 614, relating to the disposal of industrial waste. The revision permitted more effective control and regulation of wastes in unincorporated County areas by the County Engineer's Office and stipulated provisions for its enforcement. With the enactment of County Ordinance No. 5242, on December 21, 1948, the County Engineer's Office was further charged with coordinating the supervision of all dumps, rubbish and disposal sites, over which other County departments and District may have jurisdiction. The Industrial Waste Division of the County Engineer's Office enforces all provisions of County Ordinances relating to industrial wastes.

The Flood Control District, by virtue of delegated responsibilities in the field of water conservation, has been called upon by the Industrial Waste Division to furnish basic data, opinions, and recommendations relative to potential pollution and contamination of surface and/or underground waters. This responsibility has necessitated a continuous program, by the Conservation Section, of periodic checking and of supplementing extensive and detailed well records, geologic data, and records of chemical analyses of surface and underground waters.

Hydrologic, geologic, and chemical phases of 120 applications for industrial waste disposal permits were investigated and reported on for the Industrial Waste Division and for the Regional Planning Commission. Recommendations relative to industrial waste problems were also forwarded to other public agencies.

SPECIAL INQUIRIES

Oral and written requests for hydrologic and geologic data and opinions relative to specific problems were received from many federal, state, county and city public agencies; from public utility, industrial, commercial, and construction firms and from engineering consultants.

Depth to ground water was reported for over 1000 subdivision tracts during the two seasons covered in this report.

COOPERATIVE INVESTIGATIONS

In view of the currently diminishing ground water resources and increasing waste of sewage and industrial effluents to the ocean, the Board of Supervisors of Los Angeles County adopted an order appointing a Board of Engineers to report on the feasibility of reclaiming such waste flows. The appointed Board, consisting of A. M. Rawn, Chief Engineer and General Manager of the County Sanitation Districts as Chairman, H. E. Hedger, Chief Engineer of the Los Angeles County Flood Control District, and C. E. Arnold, County Engineer and Surveyor, issued a detailed report entitled "Report Upon the Reclamation of Water from Sewage and Industrial Wastes in Los Angeles County". In this connection, the Flood Control District established test spreading basins at the Whittier Sewage Plant in order to determine the effectiveness of pollution removal during infiltration, percolation rates attained, and required operational procedures for the replenishment of ground water storage with reclaimed sewage effluents. Following the completion of the report, further tests were made at the Azusa Sewage Plant to determine permissible organic loading and percolation rates in more permeable materials. In continuation of the proposed plans as outlined in the report, preliminary studies and maps were prepared for the establishment of two assessment zones within which reclamation and reuse of waters from sewage and industrial wastes would be initiated.

The United States Geological Survey issued the final comprehensive report relative to overdraft and intrusion of sea water into the West Coastal Basin entitled "Geology, Hydrology and Chemical Character of the Ground Waters in the Torrance-Santa Monica Area, Los Angeles County, California", which was prepared in cooperation with the Los Angeles County Flood Control District, with collaboration by the municipalities of Inglewood, Redondo Beach, Manhattan Beach, El Segundo, Hawthorne, Culver City, Gardena, Hermosa Beach, and Palos Verdes Estates, and by the West Basin Water Association.

In cooperation with the County Health Department, the District investigated some 80 hazardous wells of which about one-half were capped, leaving provisions for measuring. This was done in accordance with recently enacted County ordinances and Chapter IV of the "State Health and Safety Code".

CORRELATION OF CONSERVATION WITH FEDERAL FLOOD CONTROL IMPROVEMENTS

The extensive plans and work on flood control channels as designed and constructed with Federal funds by the Corps of Engineers is being constantly reviewed by the District in order to provide necessary conservation and protection of water right interests in the County. Federal funds are provided for flood control only;

therefore the Flood Control District must review this work as it is planned and provide necessary conservation measures.

These reviews include studies for the replacement of percolation, which will be lost by paving of channel beds, with off-channel spreading grounds. They also include studies of the relation of local water right interests to proposed dams and channels, and to the replacement of existing facilities for the diversion of conservation flows to established spreading grounds. Work in this regard has been done for the proposed Tujunga Channel, Pacoima Channel, San Gabriel River Channel, Rio Hondo Channel and Whittier Narrows Dam.

SPECIAL STUDIES

At the request of the Board of Supervisors, a detailed study was made of the feasibility of conserving water collected in a proposed reservoir at Painter Lagoon south of Whittier.

A summary of current ground water conditions, as compared to historical records, showing high and low elevations and forecasting shortages in critical areas, was made for the several ground water basins in the County for the spring of 1948 and again in the spring of 1949. This summary was included in a report by the Water Conservation Committee of the Los Angeles Public Water Supply Advisory Board.

Restudy of the San Gabriel River Investigation, as originally made by Messrs. Haehl and Etcheverry in 1936, was commenced. This is being done because the original report was made without the benefit of the comprehensive data on spreading grounds and percolation rates collected during the last 14 years. This data makes it possible to revaluate the hydrology and economics of large scale spreading on the Rio Hondo and San Gabriel River.

NEW FACILITIES

Rio Hondo Spreading Grounds

Construction of canals, basins and headworks were completed for an additional 208 acres in the Rio Hondo Spreading Grounds. It is estimated that this work would increase the spreading capacity by 208 cfs, making the total capacity approximately 400 cfs.

Eaton Wash Spreading Grounds

Fifteen acres of spreading grounds were completed downstream from Eaton Dam, the estimated present capacity being 20 cfs and 30 cfs ultimate.

Sawpit Spreading Grounds

Ten acres of spreading grounds were completed near the mouth of Sawpit Canyon, the estimated capacity being 30 cfs.

Arroyo Seco Temporary Spreading Grounds

Twenty-four acres of spreading grounds were constructed below the mouth of Arroyo Seco Canyon, the estimated capacity being 50 cfs.

San Gabriel Spreading Grounds

Thirty-inch diameter wells were drilled in three of the San Gabriel Spreading Basins downstream of Dunlap Crossing Road for the purpose of perforating an impervious clay lens underlying the basins. About two holes per wetted acre, or a total of twenty-nine holes were drilled and backfilled with coarse gravel. It is expected that these will percolate up to 0.5 cfs per hole, thereby increasing percolating capacity an estimated 15 cfs.

Thus approximately 320 cfs of spreading capacity in new and expanded spreading grounds was added during the last two seasons.

SPREADING GROUNDS

Spreading facilities in Los Angeles County operated by the Los Angeles County Flood Control District, or in cooperation with local water interests, total approximately 2300 acres with a capacity of 1470 cfs. Data in reference to these grounds is shown in Table XIV, page 335.

RESPONSIBILITY

All the work relative to ground water conservation was done under the immediate supervision of L. W. Jordan, except the analysis of water samples, which was under the direction of S. R. Mitchell, Chief, Testing Division.

TABLE XIII
RESERVOIR AND CHANNEL ABSORPTION
EXCLUSIVE OF SPREADING GROUND ABSORPTION

STREAM	REACH OF STREAM WHERE ABSORPTION OCCURRED	ABSORPTIVE CAPACITY OF REACH CFS	TOTAL RELEASE TO REACH A.F.	ABSORPTION IN CHANNELS, RESERVOIRS AND DIVERSIONS - A.F.	EXCESS OF RELEASE OVER ABSORPTION - A.F.	YEAR
PACOIMA	DAM TO PARTHENIA AVENUE	40-120	335.	335.*	0	1947-48
"	" " " "	40-120	740.	740.*	0	1948-49
TUJUNGA	MOUTH OF CANYON TO HANSEN DAM	(1)	4649.	4377.		1947-48
"	" " " " " "	(1)	2460.	2910.		1948-49
TUJUNGA	HANSEN DAM TO MAGNOLIA BOULEVARD	250-700	9.1	9.1	0	1947-48
"	" " " " "	250-700	2.6	2.6	0	1948-49
DEVIL'S GATE	RESERVOIR ONLY			203. (2)		1947-48
" "	" "			148. (2)		1948-49
EATON	DAM TO RIO HONDO	13-40	5.	62. (2)	0	1947-48
"	" " " "	13-40	1.	37. (2)	0	1948-49
SANTA ANITA	DAM TO ARROW HIGHWAY	40-100	1240.	1240.*	0	1947-48
" "	" " " "	40-100	983.	983.*	0	1948-49
SAWPIT	U.S.G.S. GAGING STATION TO RIO HONDO	12-20	3.4	3.4	0	1947-48
"	" " " " "	12-20	16.	16.	0	1948-49
SAN GABRIEL	MOUTH OF SAN GABRIEL TO FOOTHILL BOULEVARD (CANYON BASIN)	VARIOUS	13896.	3375.	10370.	1947-48
" "	" " " " " " " " " "	VARIOUS	5062.	2139.	0	1948-49
SAN GABRIEL	FOOTHILL BOULEVARD TO SANTA FE (MAIN BASIN)	VARIOUS	10370.	2250.	8120.	1947-48
" "	" " " " " " " "	VARIOUS	0	0	0	1948-49
SAN GABRIEL	SANTA FE DAM TO VALLEY BOULEVARD (MAIN BASIN)	VARIOUS	240.	240.	0	1947-48
" "	" " " " " " " "	VARIOUS	0	0	0	1948-49
SAN GABRIEL	BELOW STANDEFER DITCH TO FLORENCE AVENUE (COASTAL PLAIN)	VARIOUS	13140. (3)	13140.	0	1947-48
" "	" " " " " " " "	VARIOUS	10220. (3)	10220.	0	1948-49
SAN GABRIEL	FLORENCE AVENUE TO SPRING STREET (COASTAL BASIN)	VARIOUS	0	0	0	1947-48
" "	" " " " " " "	VARIOUS	0	0	0	1948-49
RIO HONDO	SANTA FE DAM TO LOWER AZUSA ROAD (MAIN BASIN)	VARIOUS	8049.	2799.	5250.	1947-48
" "	" " " " " " " "	VARIOUS	150.	79.	71.	1948-49
RIO HONDO	MISSION BRIDGE TO STEWART AND GRAY ROAD (COASTAL BASIN)	VARIOUS	38950. (3)	31680.*	7270.	1947-48
" "	" " " " " " " " "	VARIOUS	22600. (3)	21110.*	1490.	1948-49
SAN DIMAS	DAM TO PUDDINGSTONE DIVERSION DAM AND PUDDINGSTONE DIVERSION DAM TO GLENDORA AVENUE	7-20	759.	759.*	0	1947-48
" "	" " " " " " " "	7-20	763.	763.*	0	1948-49
LIVE OAK	DAM TO FOOTHILL BOULEVARD	4	0	0	0	1947-48
" "	" " " "	4	0	0	0	1948-49
THOMPSON CREEK	DAM TO FOOTHILL BOULEVARD		0	0	0	1947-48
" "	" " " "		0	0	0	1948-49
			TOTAL	60472.		1947-48
				39148.		1948-49

NOTES

(1) NOT DETERMINED.
(2) INCLUDES EVAPORATION AND PERCOLATION LOSS IN RESERVOIR.
(3) INCLUDES RISING WATER IN VICINITY OF WHITTIER NARROWS.
* INCLUDES WATER DIVERTED FOR USE.

TABLE XIV
SPREADING GROUNDS ABSORPTION

SPREADING GROUNDS	GROSS AREA ACRES 1948-49	CAPACITY CFS	QUANTITY OF WATER ABSORBED, ACRE FEET 1947-48	1948-49
DISTRICT OWNED AND OPERATED				
PACOIMA	175	200	0	0
HANSEN	181	300	0	0
ARROYO SECO	24	50	0	108*
EATON	15	20	1	0
SAWPIT	10	30	0	8
RIO HONDO COASTAL BASIN	425	400	3760	0
SAN GABRIEL COASTAL BASIN	95	60	0	0
COOPERATIVE				
SAN GABRIEL SPREADING CORPORATION:				
CANYON BASIN, EAST SIDE	500	100	2223	2320
" " WEST "	6	15	2573	554
MAIN BASIN, COVINA CANAL			707	457
" " AZUSA CANAL			1511	886
LITTLE DALTON	16	10	10	0
BIG DALTON	30	15	0	88
THOMPSON CREEK	56	20	0	0
SAN ANTONIO	770	250	6	0
OTHER AGENCIES				
KING'S CANYON, U.S. SOIL CONSERVATION SERVICE			0	0
BIG TUJUNGA, L.A. WATER DEPARTMENT **			0	0
TOTALS	2303	1470	10791	4421

* GROUNDS UNDER CONSTRUCTION
** FIRST TIME PUBLISHED. TOTAL WATER SPREAD 1931 TO DATE, 173,585 A.F.

TABLE XV
RUNOFF WASTE TO OCEAN IN ACRE FEET

YEAR	COYOTE CREEK NEAR DEL AMO *BELOW P.E. BRIDGE ARTESIA	SAN GABRIEL RIVER AT SPRING ST.	L.A. RIVER AT PACIFIC COAST HWY. **L.A. RIVER AT WILLOW ST.	BALLONA CREEK AT SAWTELLE BOULEVARD ***AT CENTINELA BLVD.	TOTAL WASTE TO OCEAN	RAINFALL INDEX MEAN FOR COUNTY
1927-28		NO FLOW		***3930		66
1928-29		" "	**9340 INC.	***14900	24240	69
1929-30	*699	" "	**12300	***13500	26500	78
1930-31	*5681	" "	**14400	***18500	33470	92
1931-32	*2690	6560	51000	***21800	82050	122
1932-33	*457	809	22900	***15800	39970	73
1933-34	*3890	12400	67900	***20600	104800	68
1934-35	*3850	2380	40500	***24900	71630	131
1935-36	*1150	1190	20500	***13300		
				186	36330	68
1936-37	13700	13500	91100	40680	159000	141
1937-38	15100	88020	408000	52500	599600	147
1938-39	4250	1080	82750	28490	116600	118
1939-40	3190	1460	65930	21110	91690	81
1940-41	29500	65890	369500	67360	532200	215
1941-42	1560	10830	93390	17250	123000	80
1942-43	12070	175100	264900	34240	486300	148
1943-44	12060	72200	217400	33000	334660	158
1944-45	3800	22280	100200	24450	150730	90
1945-46	3540	12590	91790	18380	126300	88
1946-47	2460	24100	106000	26300	158860	92
1947-48	1500	NO FLOW	52820	13630	67950	51
1948-49	951	" "	44350	16090	61390	57

NOTE: RAINFALL INDEX NOW BASED ON 75-YEAR NORMAL.

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.
- SPREADING GROUNDS AND CHANNEL PERCOLATING AREAS.
- APPROX. LINE MARKING TRANSITION FROM FREE TO PRESSURE GROUND WATER LEVELS.

GROUND WATER BASINS

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.
26. SANTA CLARA.
27. VALYERMO.
28. PALLETT CREEK.
29. AMARGOSA.
30. ROCK CREEK.
31. BUTTES.
32. LANCASTER.
33. NEENACH.

24-A. MONTEBELLO FOREBAY.
25-A. LOS ANGELES FOREBAY.
34. LA HABRA.

SPREADING AREAS

(1) PACOIMA WASH CHANNEL.
(2) PACOIMA SPREADING GROUNDS.
(3) BIG TUJUNGA WASH CHANNEL.
(4) HANSEN SPREADING GROUNDS.
(5) L.A. CITY TUJUNGA SPREADING GROUNDS.
(6) L.A. CITY CRYSTAL SPRINGS INFILTRATION AREA.
(7) EATON WASH CHANNEL.
(8) SIERRA MADRE SPREADING GROUNDS.
(9) SANTA ANITA WASH CHANNEL.
(10) SAWPIT WASH CHANNEL.
(11) SAN GABRIEL RIVER WATER COMMITTEE SPREADING GROUNDS:
  (A) WEST SIDE CANYON BASIN.
  (B) EAST SIDE CANYON BASIN.
  (C) WASH CHANNELS FED BY COVINA AND AZUSA CANALS.
(12) SANTA FE DAM PERCOLATING AREA.
(13) RIO HONDO AND SAN GABRIEL RIVER CHANNELS IN MAIN BASIN.
(14) RIO HONDO COASTAL BASIN SPREADING GROUNDS.
(15) SAN GABRIEL RIVER COASTAL BASIN SPREADING GROUNDS.
(16) RIO HONDO AND SAN GABRIEL RIVER CHANNELS IN COASTAL BASIN.
(17) LITTLE DALTON SPREADING GROUNDS.
(18) BIG DALTON SPREADING GROUNDS.
(19) SAN DIMAS WASH CHANNEL.
(20) LIVE OAK CREEK CHANNEL.
(21) THOMPSON CREEK SPREADING GROUNDS.
(22) SAN ANTONIO SPREADING GROUNDS.
(23) SANTA CLARA BASIN CHANNELS FED BY L.A. AQUEDUCT.
(24) ARROYO SECO SPREADING GROUNDS.
(25) KINGS CANYON SPREADING GROUNDS.
(26) EATON SPREADING GROUNDS.
(27) SAWPIT SPREADING GROUNDS.
(28) SANTA ANITA SPREADING AREA.

SCALE

PREPARED BY E.J.K.Jr.
TRACED BY E.J.K.Jr.
CHECKED BY L.W.L.

NOTE:
THIS DUPLICATE TRACING MADE FROM ORIGINAL BASE TRACING NO. 2-ML 74 REVISED IN APRIL 1947.

REVISIONS ON DUPLICATE			
AS OF DATE	DONE DATE	DESCRIPTION	BY
SEP 1945	MAY 1947	ADDED ANTELOPE VALLEY, L.A. AQUEDUCT BASINS, WELLS, SPRDG. AREAS; LEGEND, TITLE	E.J.K.Jr.
SEP 1947	JAN 1948	GEN. FOR 1945-47 REPORT	"
SEP 1949	DEC 1949	GEN. FOR 1947-49 REPORT	E.J.K.Jr.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

MAP SHOWING LOCATION OF KEY WELLS GROUND WATER BASINS AND SPREADING GROUNDS

APPROVED BY H.E. Hedger 6/9/50 CHIEF ENGINEER

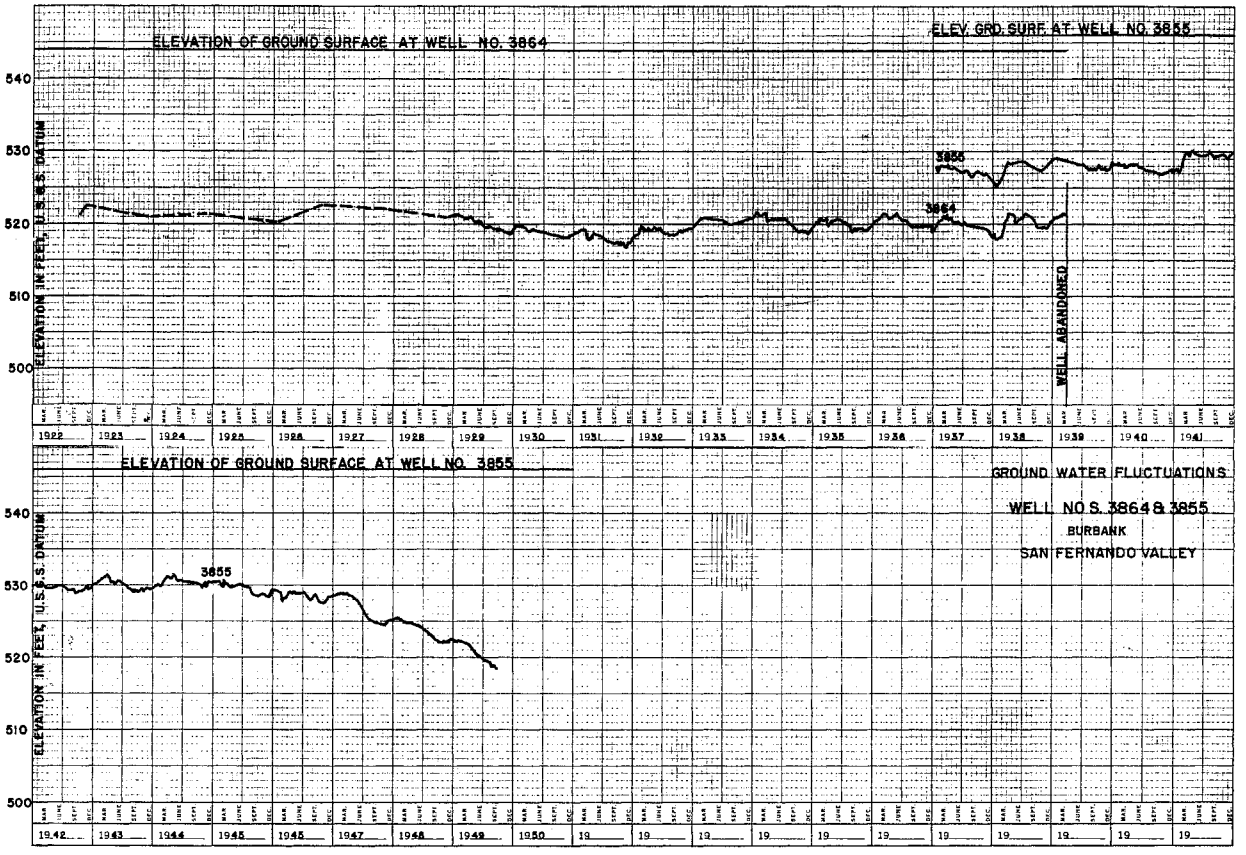
SUBMITTED BY Sidney P. Lowry CHIEF HYDRAULIC DIVISION

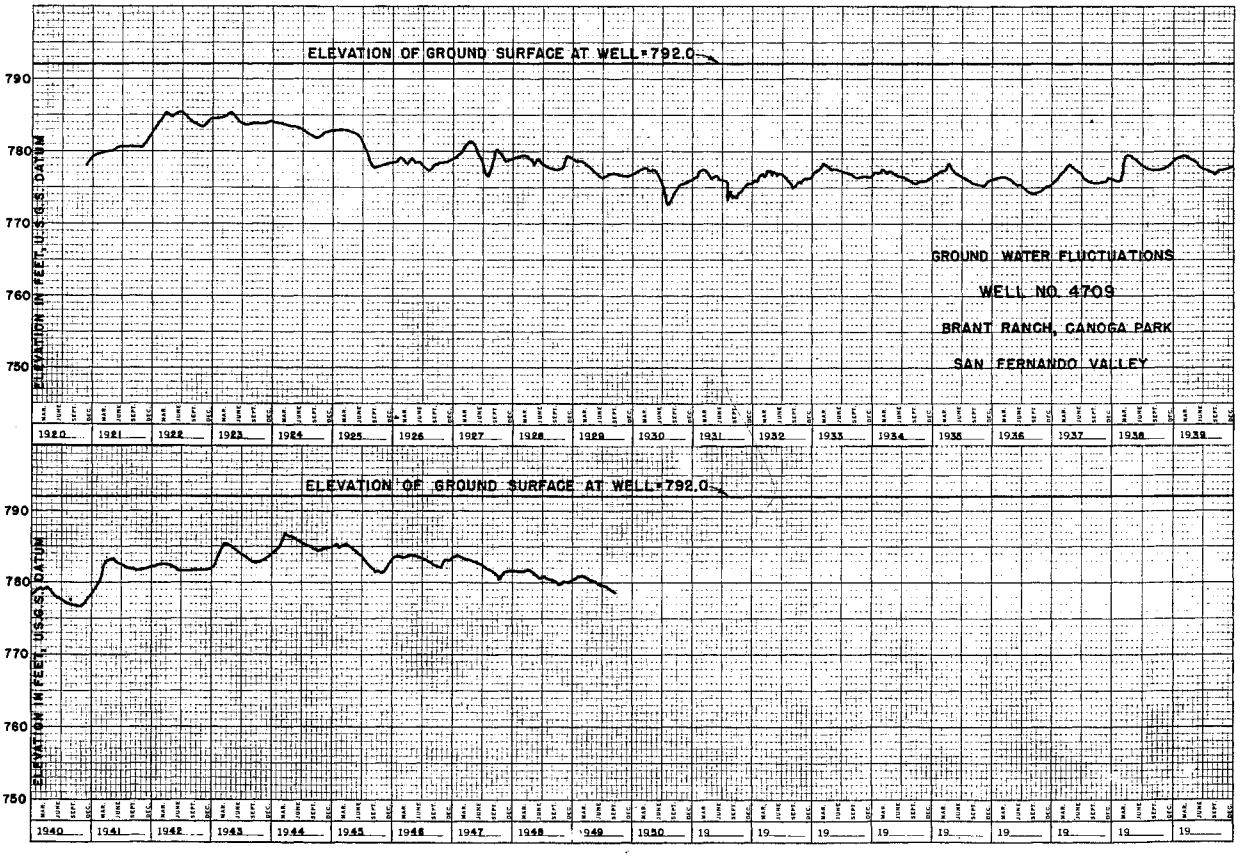
RECOMMENDED BY Paul Thurman ASST. CHIEF ENGINEER

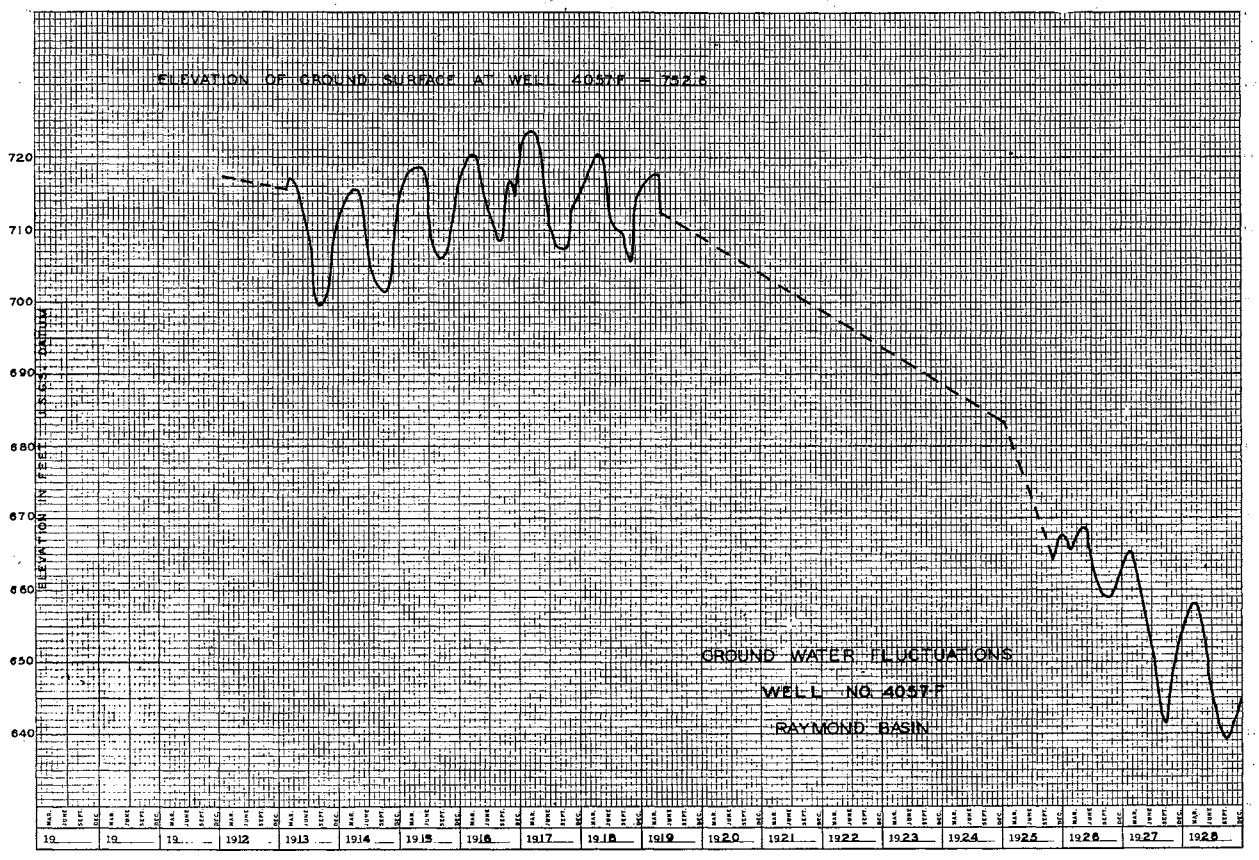
DATE MAY 1947

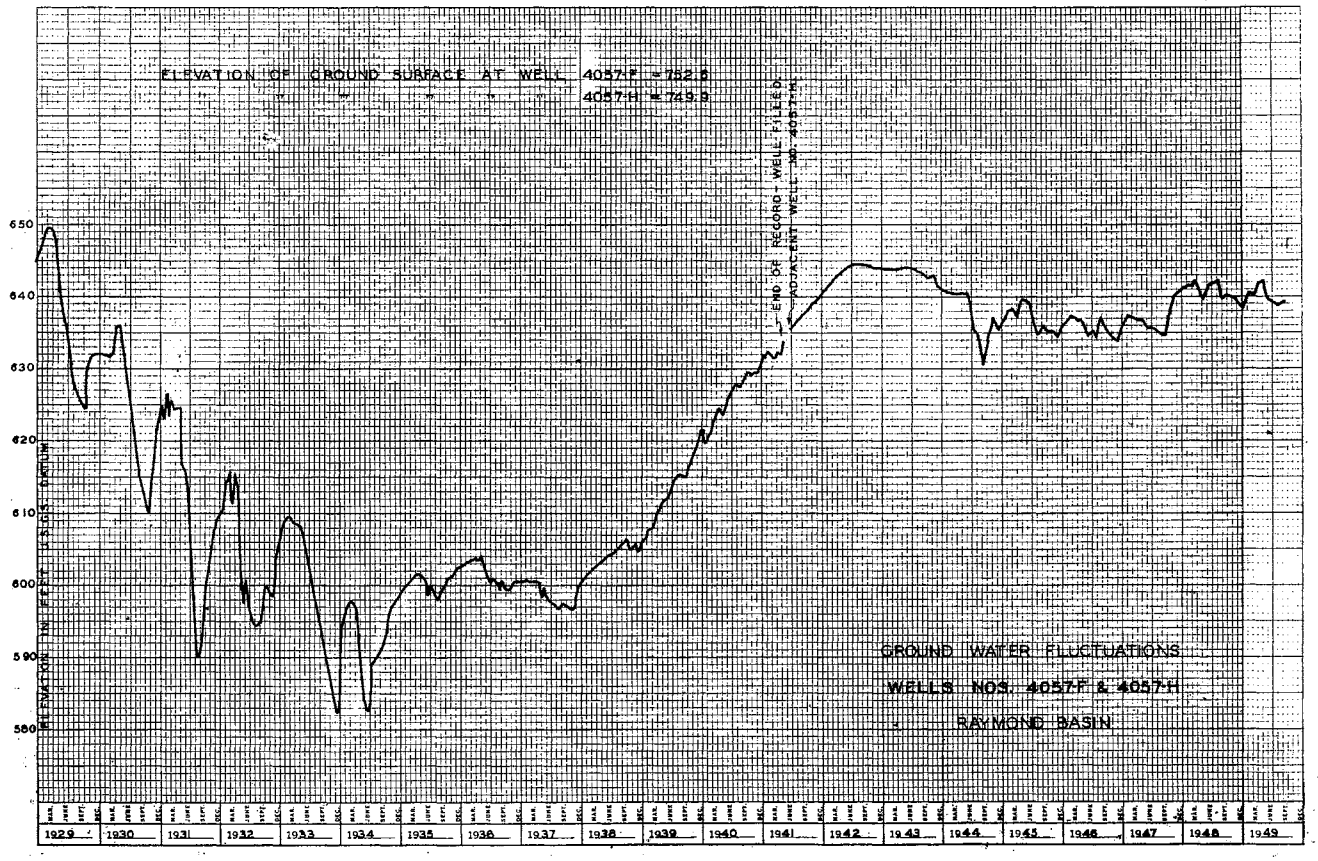
NO. 2-H74

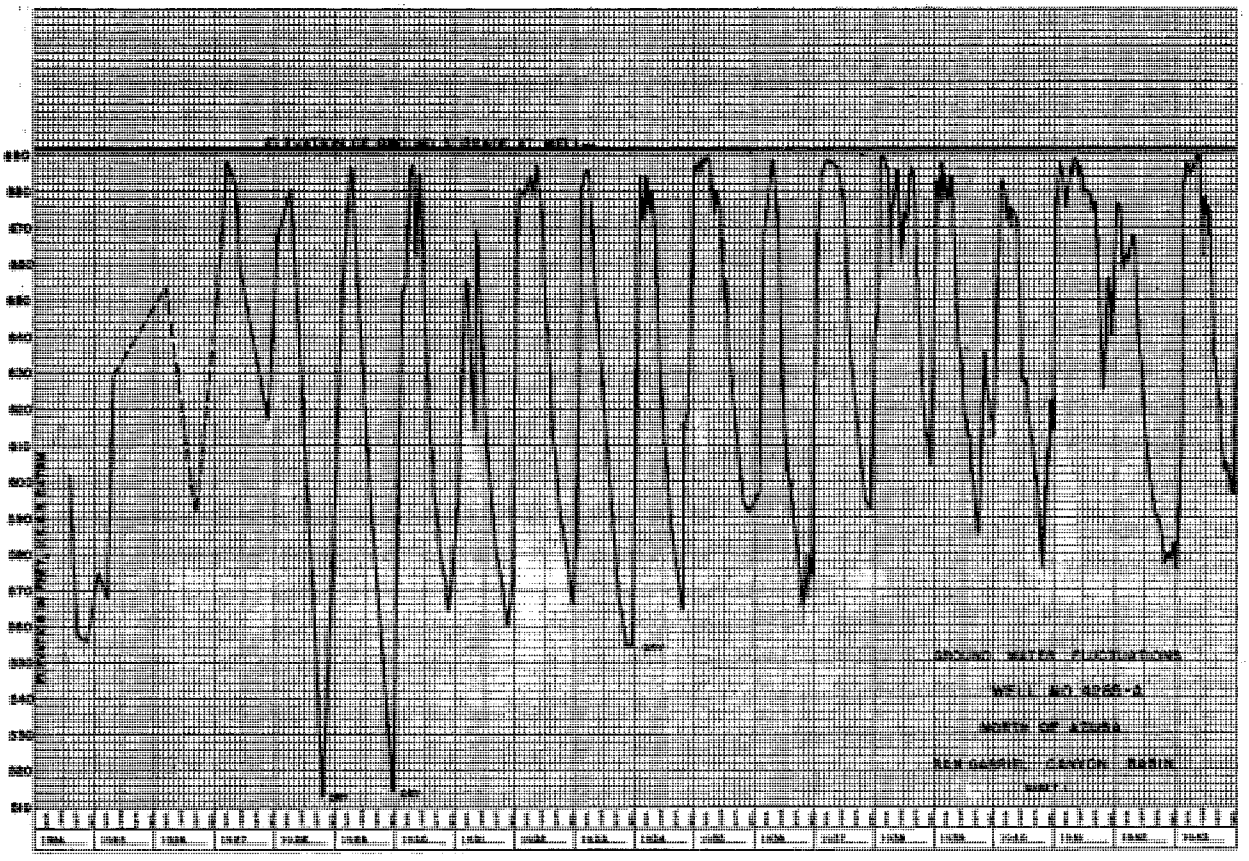
MAP IV

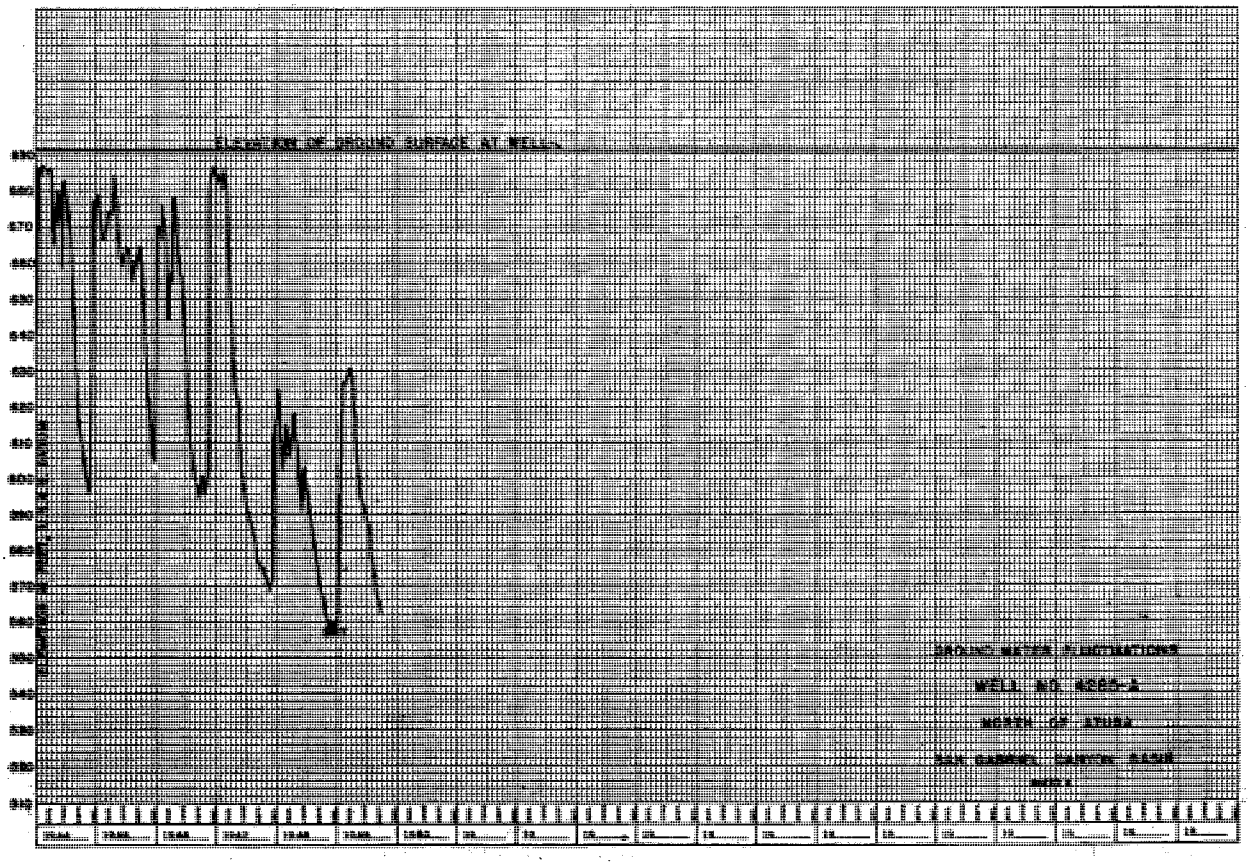

ELEVATION OF GROUND SURFACE AT WELL NO. 3864
ELEV. GRD. SURF. AT WELL NO. 3855
3855
3864
WELL ABANDONED
ELEVATION IN FEET, U.S.G.S. DATUM
540
530
520
510
500
1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941
ELEVATION OF GROUND SURFACE AT WELL NO. 3855
3855
1942 1943 1944 1945 1946 1947 1948 1949 1950 19__ 19__ 19__ 19__ 19__ 19__ 19__ 19__ 19__ 19__ 19__
GROUND WATER FLUCTUATIONS
WELL NOS. 3864 & 3855
BURBANK
SAN FERNANDO VALLEY

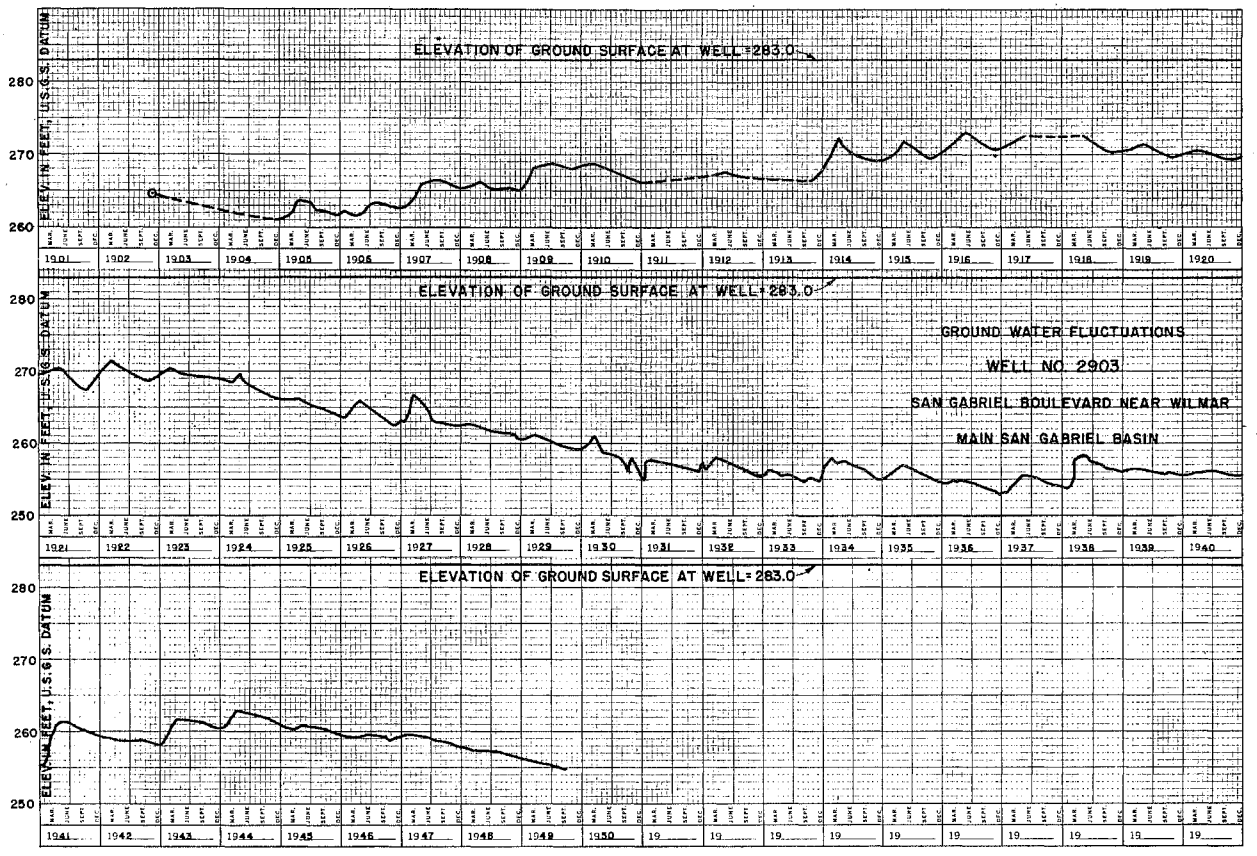

ELEVATION OF GROUND SURFACE AT WELL=792.0
ELEVATION IN FEET, U.S.G.S. DATUM
790
780
770
760
750
1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939
ELEVATION OF GROUND SURFACE AT WELL=792.0
1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 19__ 19__ 19__ 19__ 19__ 19__ 19__ 19__ 19__
GROUND WATER FLUCTUATIONS
WELL NO. 4709
BRANT RANCH, CANOGA PARK
SAN FERNANDO VALLEY

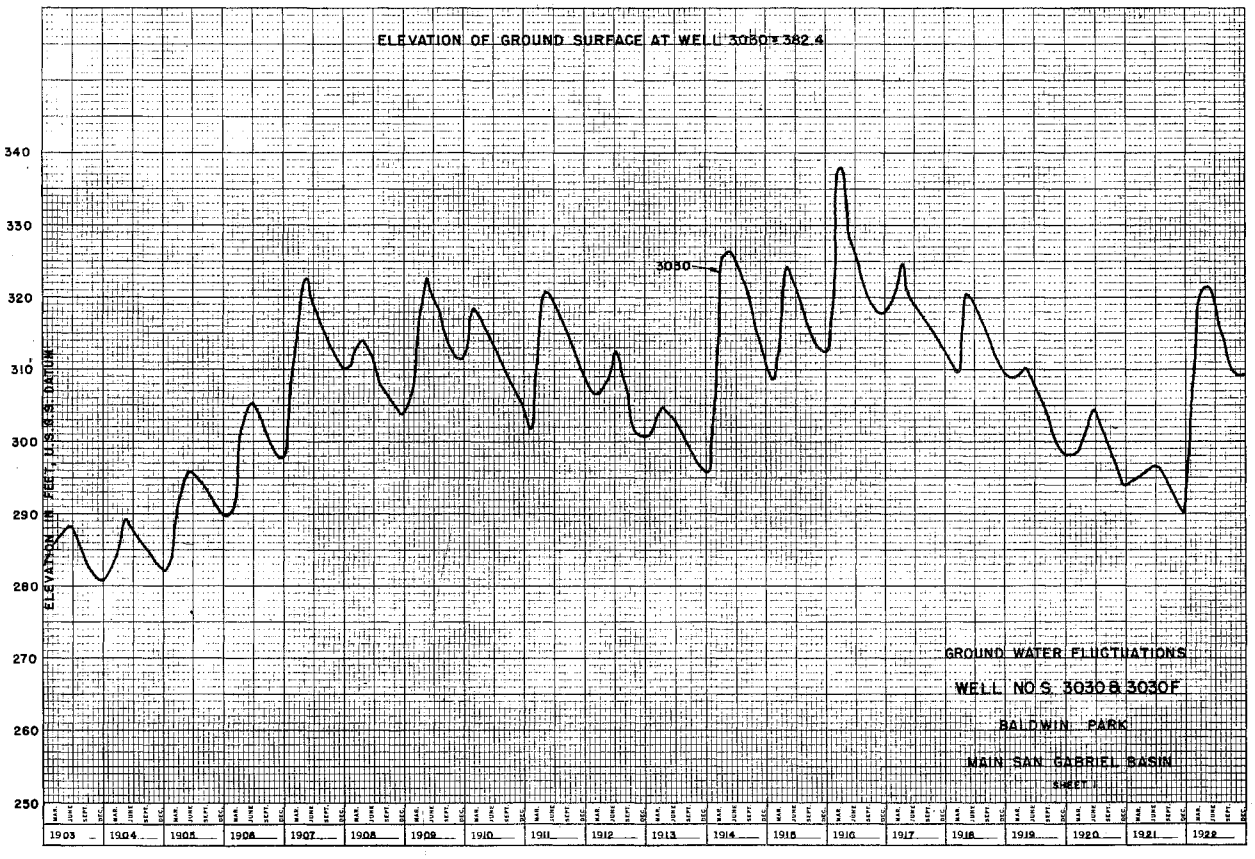

ELEVATION OF GROUND SURFACE AT WELL 4057-F = 732.6
ELEVATION IN FEET USGS DATUM
720
710
700
690
680
670
660
650
640
GROUND WATER FLUCTUATIONS
WELL NO. 4057-F
RAYMOND BASIN
1911
1912
1913
1914
1915
1916
1917
1918
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928

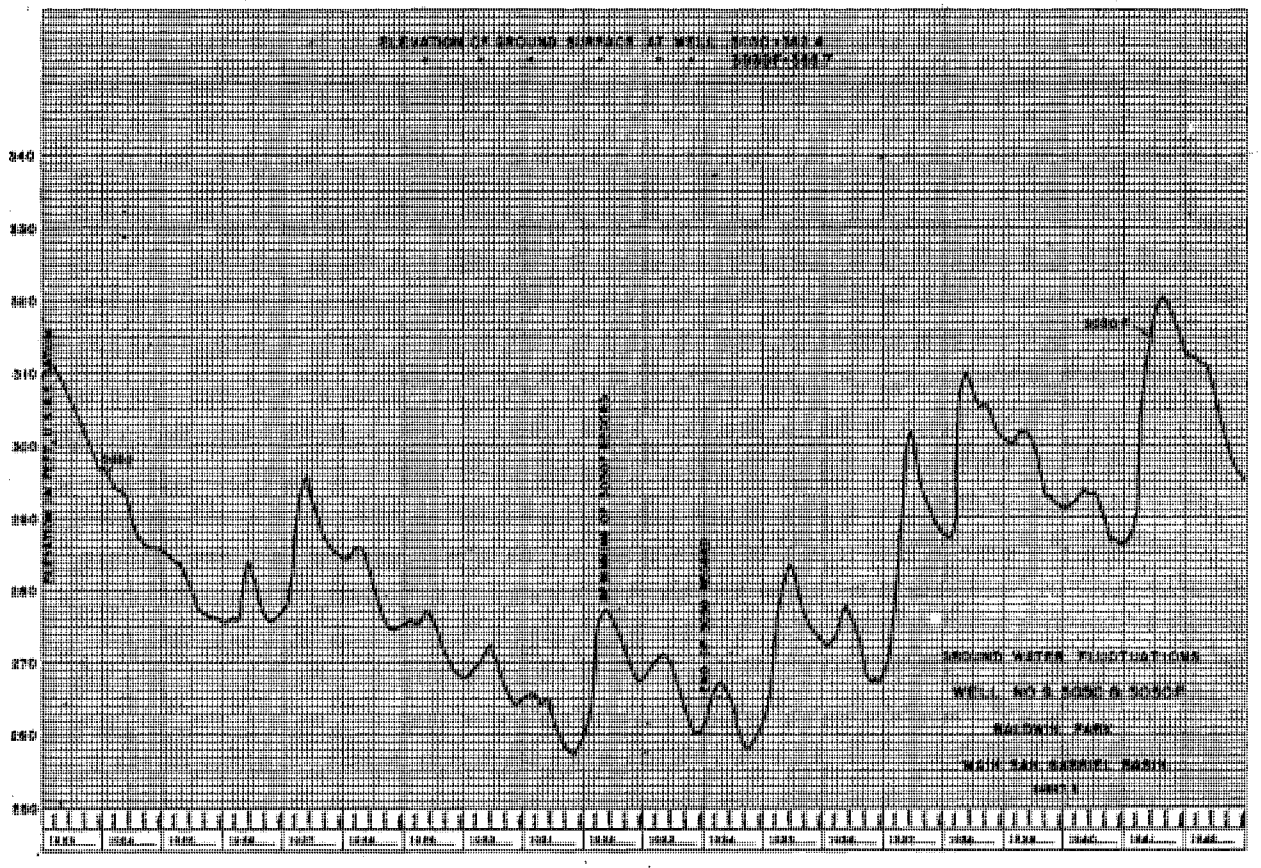

ELEVATION OF GROUND SURFACE AT WELL 4057-F = 752.6
" " " " " 4057-H = 749.9
ELEVATION IN FEET USGS DATUM
650
640
630
620
610
600
590
580
END OF RECORD - WELL FILLED
ADJACENT WELL NO. 4057-H
GROUND WATER FLUCTUATIONS
WELLS NOS. 4057-F & 4057-H
RAYMOND BASIN
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943
1944
1945
1946
1947
1948
1949

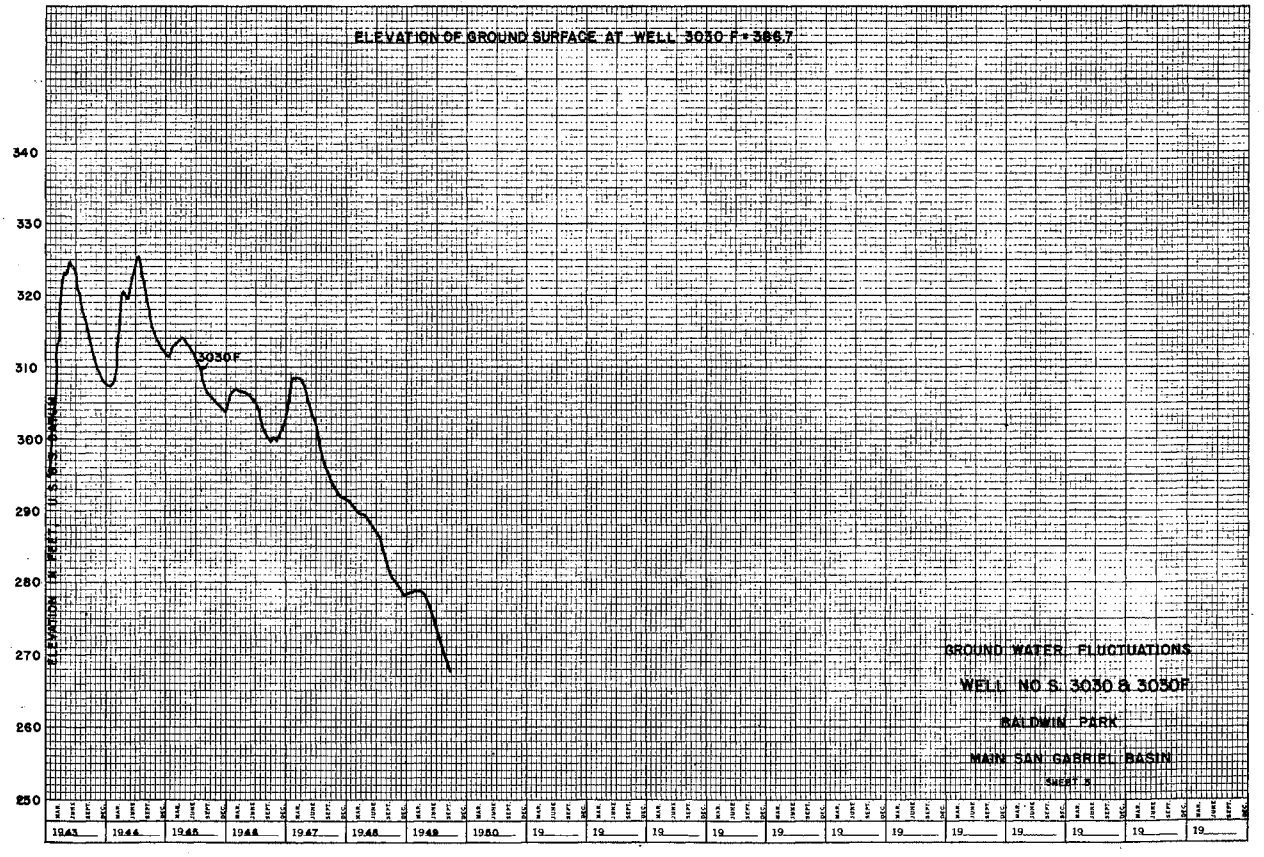

GROUND WATER FLUCTUATIONS
WELL NO 4065-A
NORTH OF ATURA
KEN GARRIS CANYON BASIN

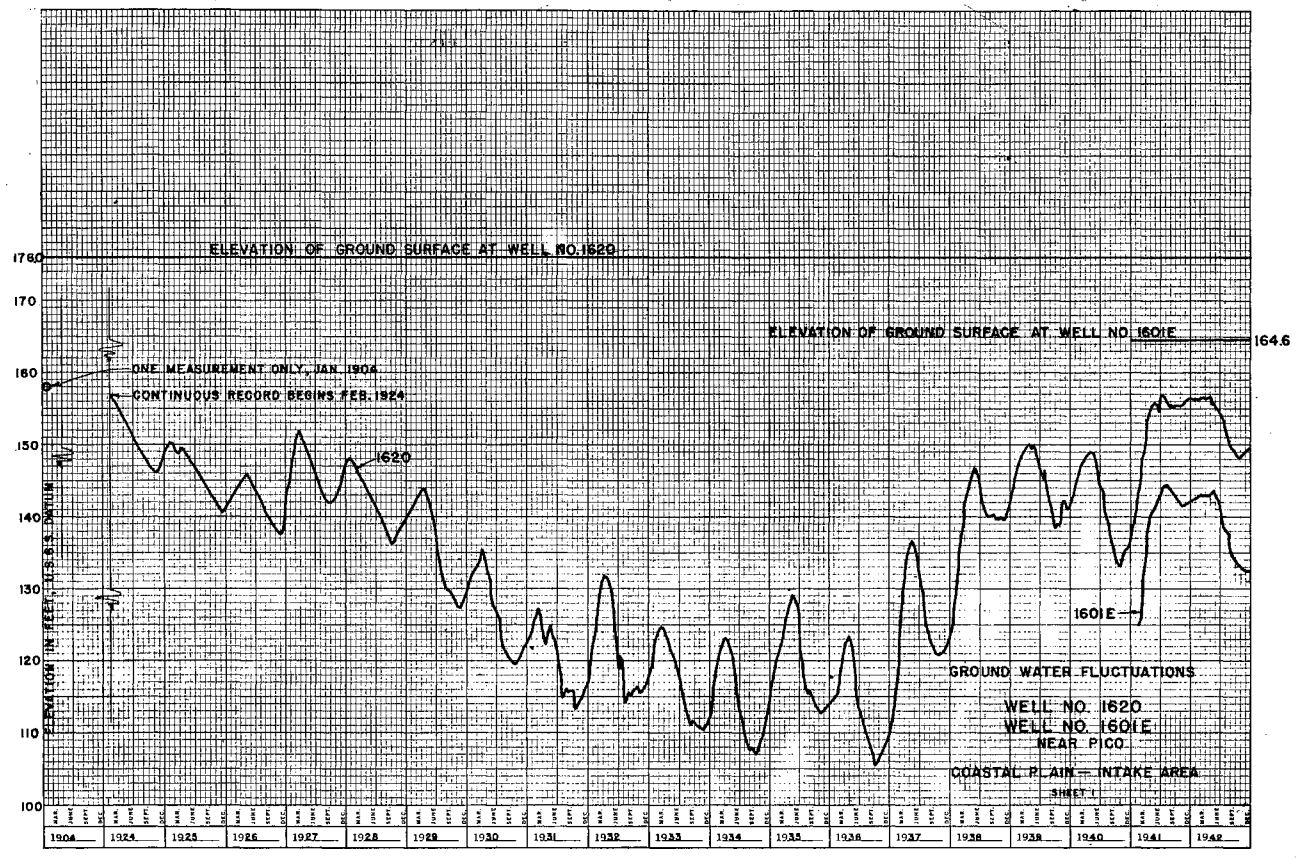

ELEVATION OF GROUND SURFACE AT WELL
GROUND WATER FLUCTUATIONS
WELL NO 4065-A
NORTH OF ATURA
KEN GARRIS CANYON BASIN

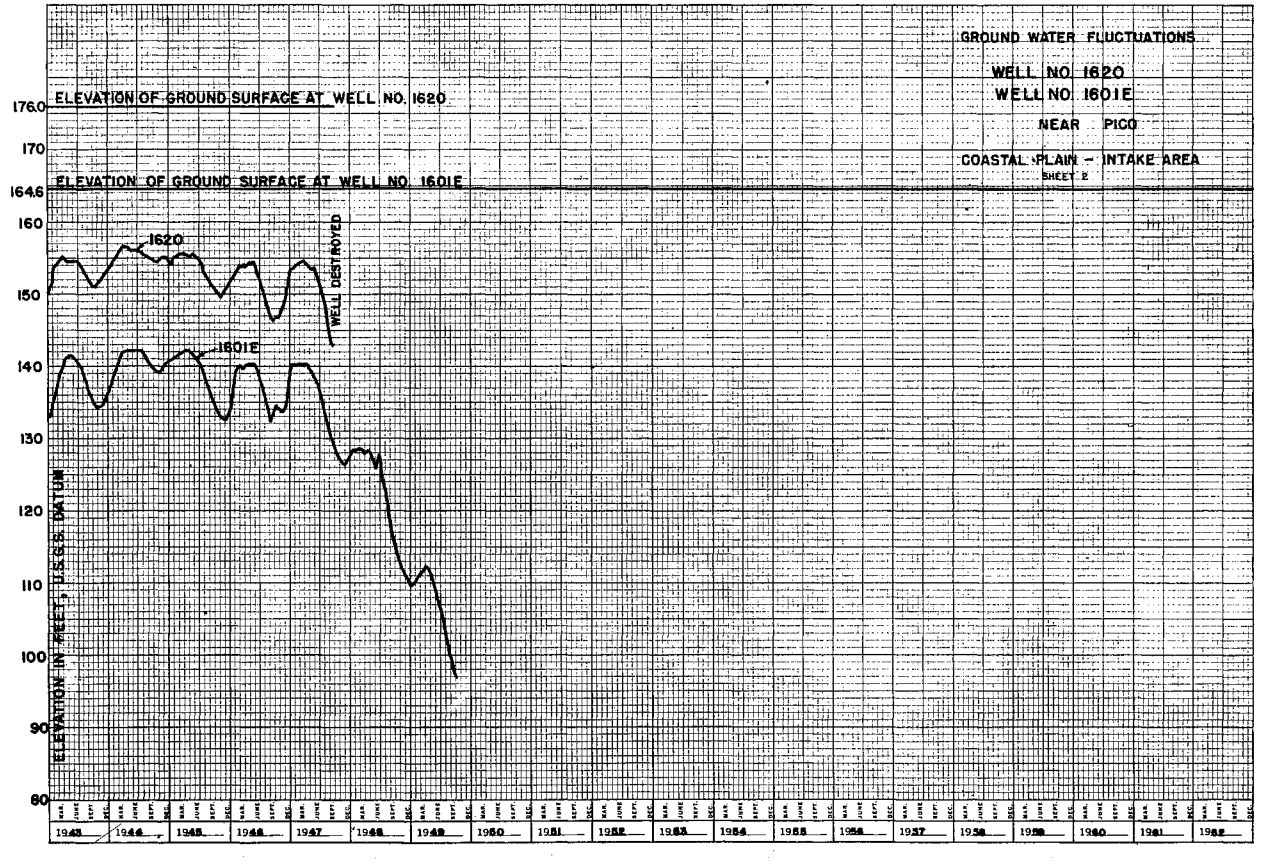

ELEVATION OF GROUND SURFACE AT WELL=283.0
ELEV. IN FEET, U.S.G.S. DATUM
280
270
260
1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920
ELEVATION OF GROUND SURFACE AT WELL=283.0
ELEV. IN FEET, U.S.G.S. DATUM
280
270
260
250
1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940
GROUND WATER FLUCTUATIONS
WELL NO. 2903
SAN GABRIEL BOULEVARD NEAR WILMAR
MAIN SAN GABRIEL BASIN
ELEVATION OF GROUND SURFACE AT WELL=283.0
ELEVATION IN FEET, U.S.G.S. DATUM
280
270
260
250
1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 19 19 19 19 19 19 19 19 19 19

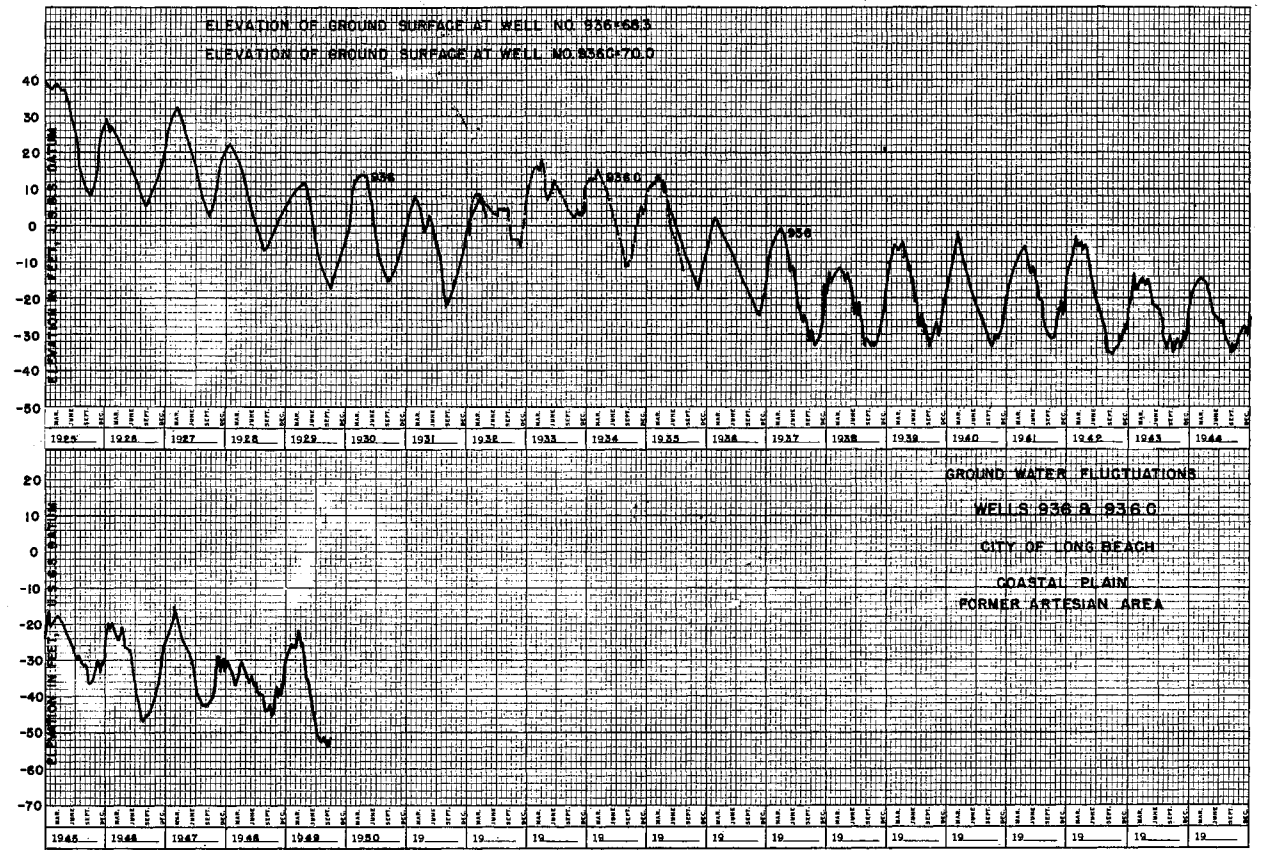

ELEVATION OF GROUND SURFACE AT WELL 3030=382.4
ELEVATION IN FEET, U.S.G.S. DATUM
340
330
320
310
300
290
280
270
260
250
3030
1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922
GROUND WATER FLUCTUATIONS
WELL NO S. 3030 & 3030F
BALDWIN PARK
MAIN SAN GABRIEL BASIN
SHEET 1

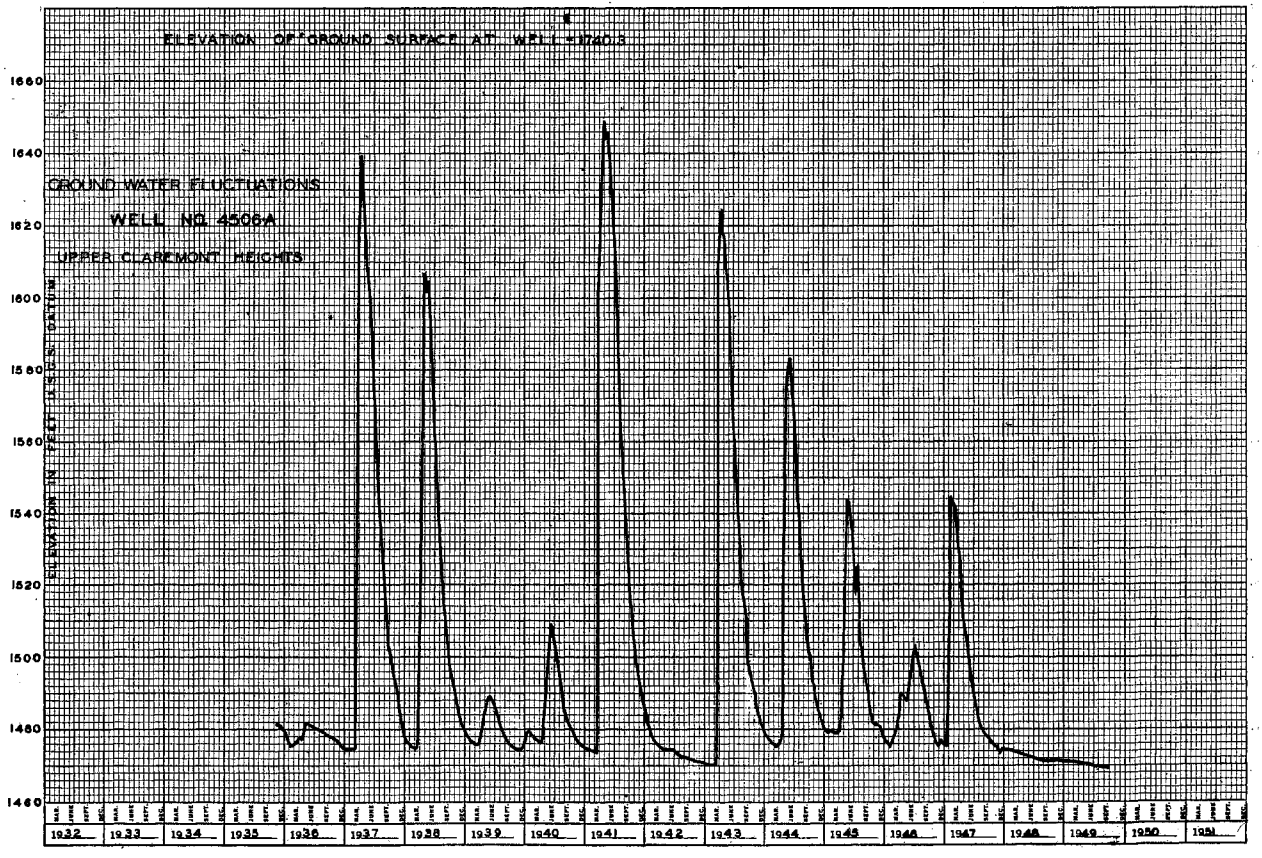

ELEVATION OF GROUND SURFACE AT WELL 3030 F = 386.7
3030F
GROUND WATER FLUCTUATIONS
WELL NO S 3030 & 3030F
BALDWIN PARK
MAIN SAN GABRIEL BASIN
SHEET 3

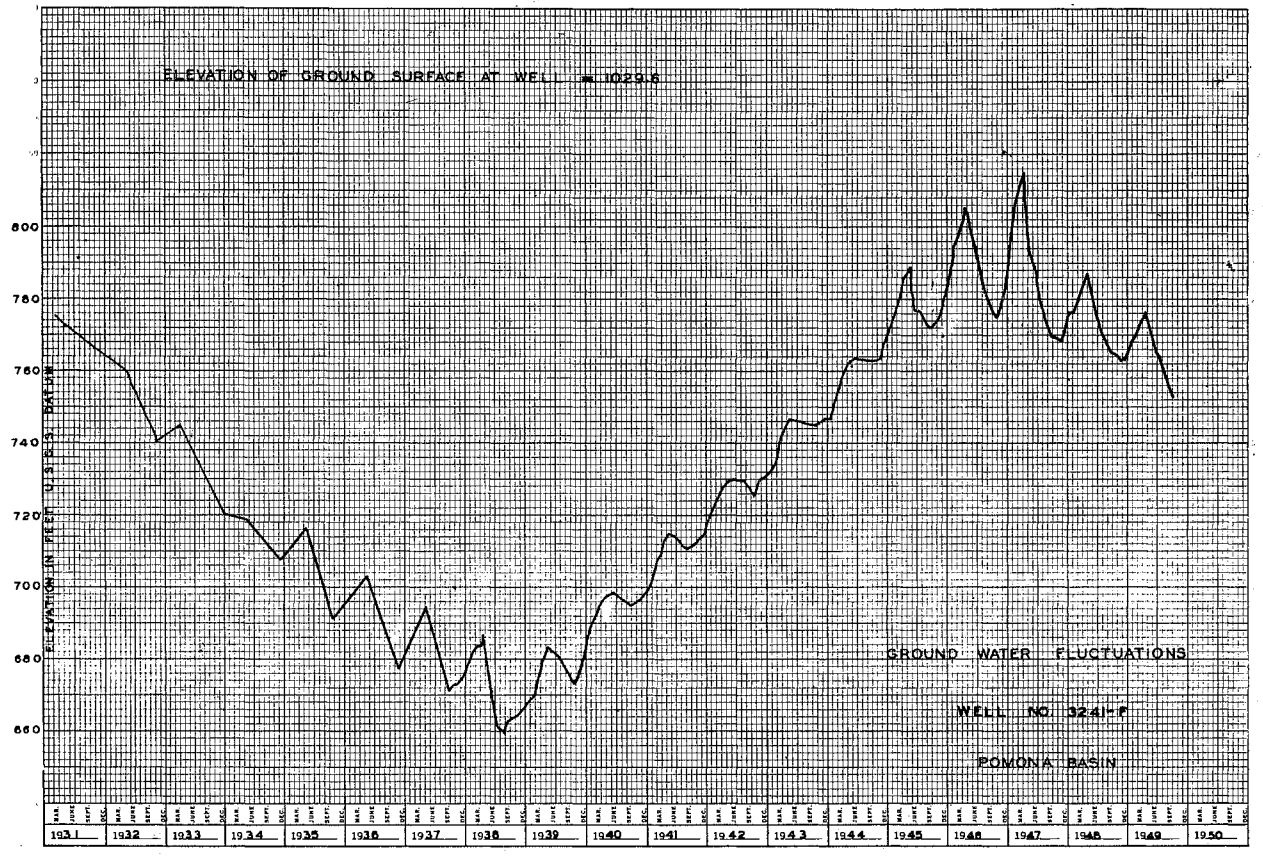

ELEVATION OF GROUND SURFACE AT WELL 3030 F = 386.7
ELEVATION IN FEET U.S.G.S. DATUM
340
330
320
310
300
290
280
270
260
250
3030F
GROUND WATER FLUCTUATIONS
WELL NO S. 3030 & 3030F
BALDWIN PARK
MAIN SAN GABRIEL BASIN
SHEET 3
1943
1944
1945
1946
1947
1948
1949
1950

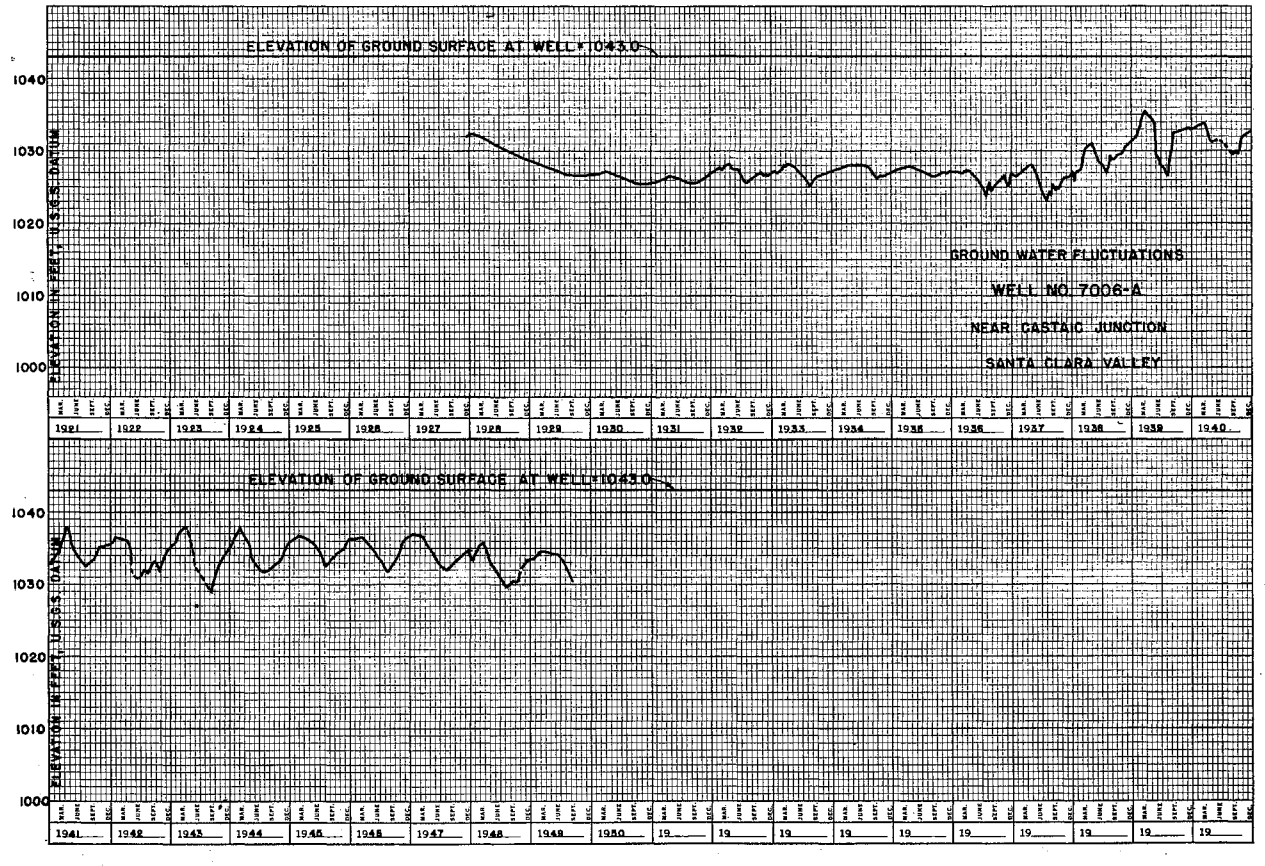

ELEVATION OF GROUND SURFACE AT WELL NO. 1620
ELEVATION OF GROUND SURFACE AT WELL NO. 1601E
164.6
ONE MEASUREMENT ONLY, JAN. 1904
CONTINUOUS RECORD BEGINS FEB. 1924
1620
1601E
ELEVATION IN FEET, U.S.G.S. DATUM
GROUND WATER FLUCTUATIONS
WELL NO. 1620
WELL NO. 1601E
NEAR PICO
COASTAL PLAIN — INTAKE AREA
SHEET 1

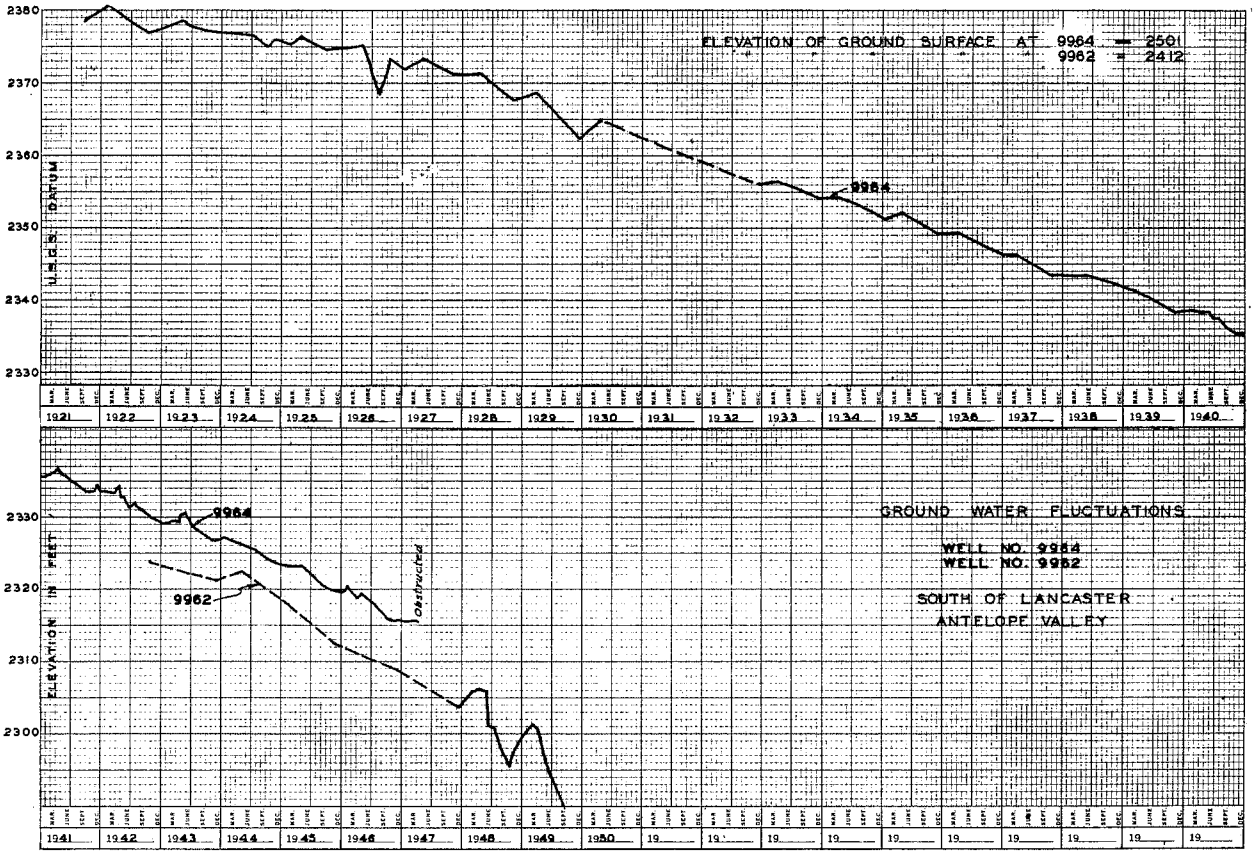

GROUND WATER FLUCTUATIONS
WELL NO. 1620
WELL NO. 1601E
NEAR PICO
COASTAL PLAIN — INTAKE AREA
SHEET 2
ELEVATION OF GROUND SURFACE AT WELL NO. 1620
ELEVATION OF GROUND SURFACE AT WELL NO. 1601E
1620
1601E
WELL DESTROYED
ELEVATION IN FEET, U.S.G.S. DATUM

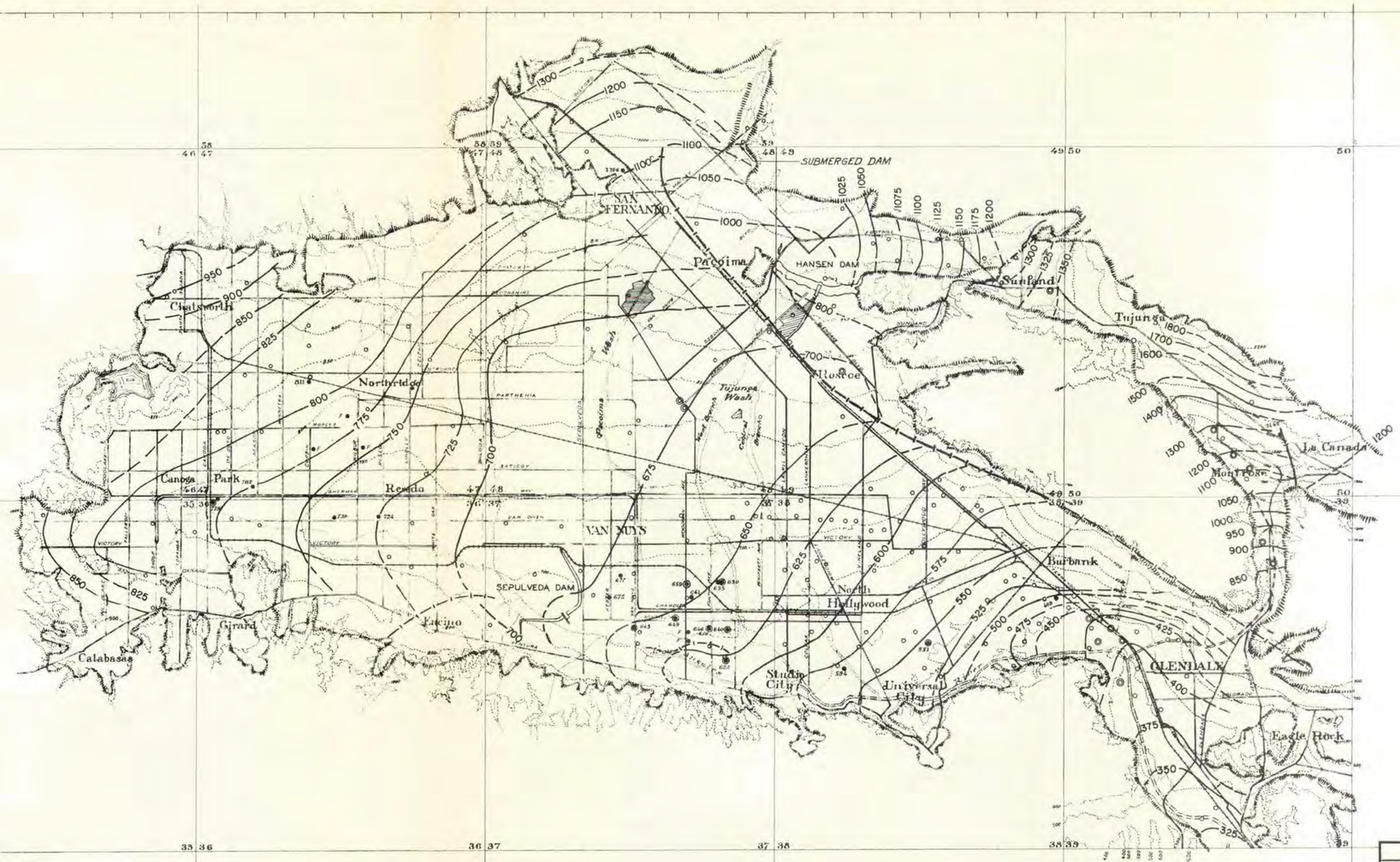

ELEVATION OF GROUND SURFACE AT WELL NO. 936-668.5
ELEVATION OF GROUND SURFACE AT WELL NO. 936C-70.0
936
936C
936
ELEVATION IN FEET, U.S.C.S. DATUM
40
30
20
10
0
-10
-20
-30
-40
-50
1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944
20
10
0
-10
-20
-30
-40
-50
-60
-70
1945 1946 1947 1948 1949 1950 19 19 19 19 19 19 19 19 19 19 19 19 19 19
GROUND WATER FLUCTUATIONS
WELLS 936 & 936 C
CITY OF LONG BEACH
COASTAL PLAIN
FORMER ARTESIAN AREA


ELEVATION OF GROUND SURFACE AT WELL -1740.5
GROUND WATER FLUCTUATIONS
WELL NO. 4506A
UPPER CLAREMONT HEIGHTS
ELEVATION IN FEET, U.S.C.S. DATUM
1660
1640
1620
1600
1580
1560
1540
1520
1500
1480
1460
1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951


ELEVATION OF GROUND SURFACE AT WELL = 1029.6
ELEVATION IN FEET, U.S.G.S. DATUM
800
780
760
740
720
700
680
660
GROUND WATER FLUCTUATIONS
WELL NO. 3241-F
POMONA BASIN
1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950


ELEVATION OF GROUND SURFACE AT WELL* 1043.0
ELEVATION IN FEET, U.S.G.S. DATUM
1040
1030
1020
1010
1000
GROUND WATER FLUCTUATIONS
WELL NO. 7006-A
NEAR CASTAIC JUNCTION
SANTA CLARA VALLEY
1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1936 1936 1937 1938 1939 1940
ELEVATION OF GROUND SURFACE AT WELL* 1043.0
ELEVATION IN FEET, U.S.G.S. DATUM
1040
1030
1020
1010
1000
1941 1942 1943 1944 1945 1946 1947 1948 1949 1950


ELEVATION OF GROUND SURFACE AT 9964 = 2501
9962 = 2412
U.S.G.S. DATUM
2380
2370
2360
2350
2340
2330
9964
1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940
ELEVATION IN FEET
2330
2320
2310
2300
9964
9962
Obstructed
GROUND WATER FLUCTUATIONS
WELL NO. 9964
WELL NO. 9962
SOUTH OF LANCASTER
ANTELOPE VALLEY
1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 19 19 19 19 19 19 19 19 19 19



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 free ground water levels or of equal pressures
- Ditto,– location approximate
- Faults and other barriers to free ground water movement.
- Surface Contours
- Spreading Grounds

Scale in Miles

F = Flowing Well.

MAP V

REVISIONS		
MARK	DATE	DESCRIPTION

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

SAN FERNANDO VALLEY
GROUND WATER CONTOURS
NOVEMBER 1947

PREPARED BY
TRACED BY
CHECKED BY

APPROVED BY _____ CHIEF ENGINEER

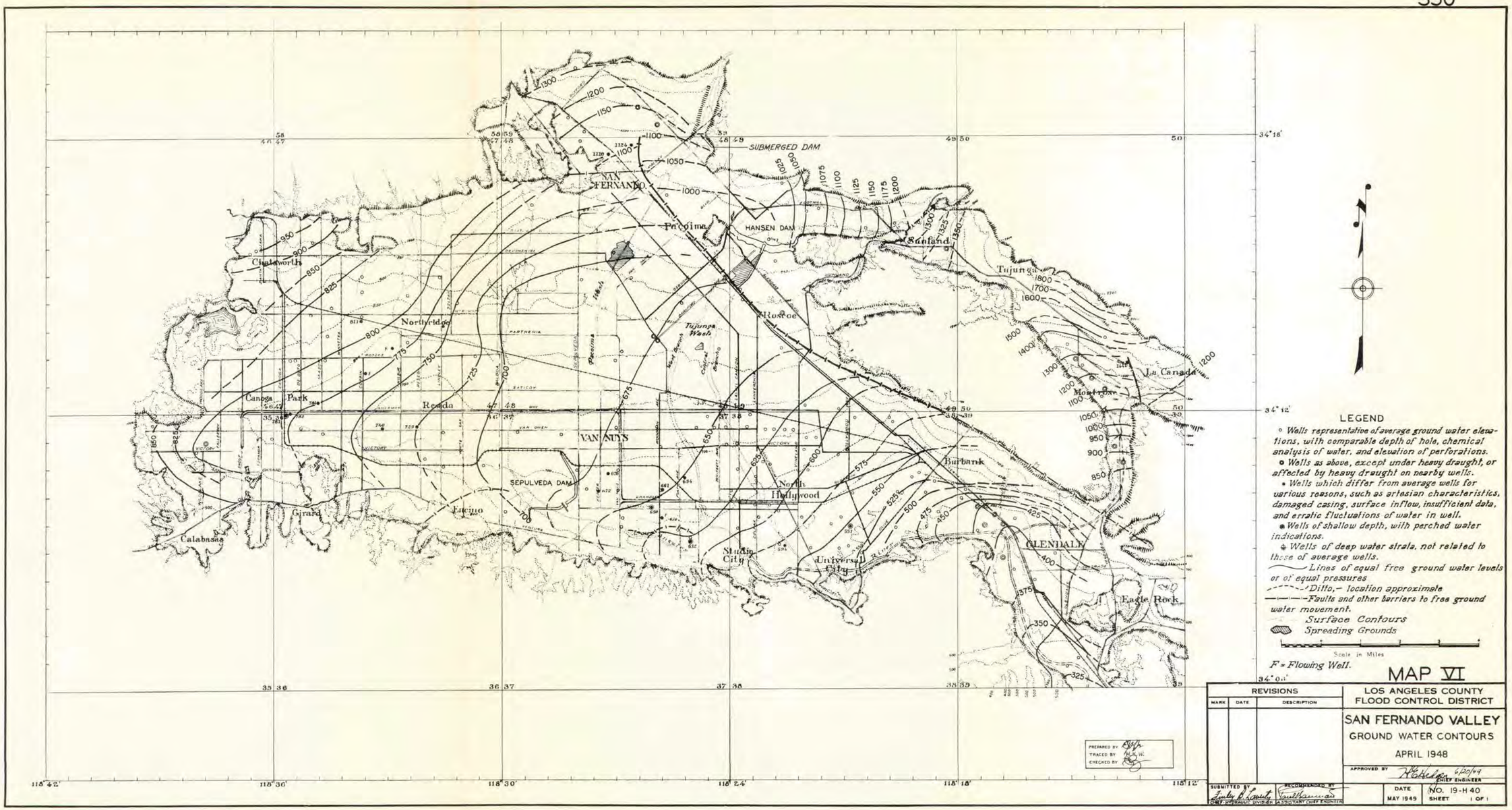
SUBMITTED BY _____ CHIEF HYDRAULIC DIVISION

RECOMMENDED BY _____ ASSISTANT CHIEF ENGINEER

DATE MAY 1949

NO. 19-H39

SHEET 1 OF 1



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 free ground water levels or of equal pressures*
- - - - *Ditto,- location approximate*
- —|—|— *Faults and other barriers to free ground water movement.*
- *Surface Contours*
- *Spreading Grounds*

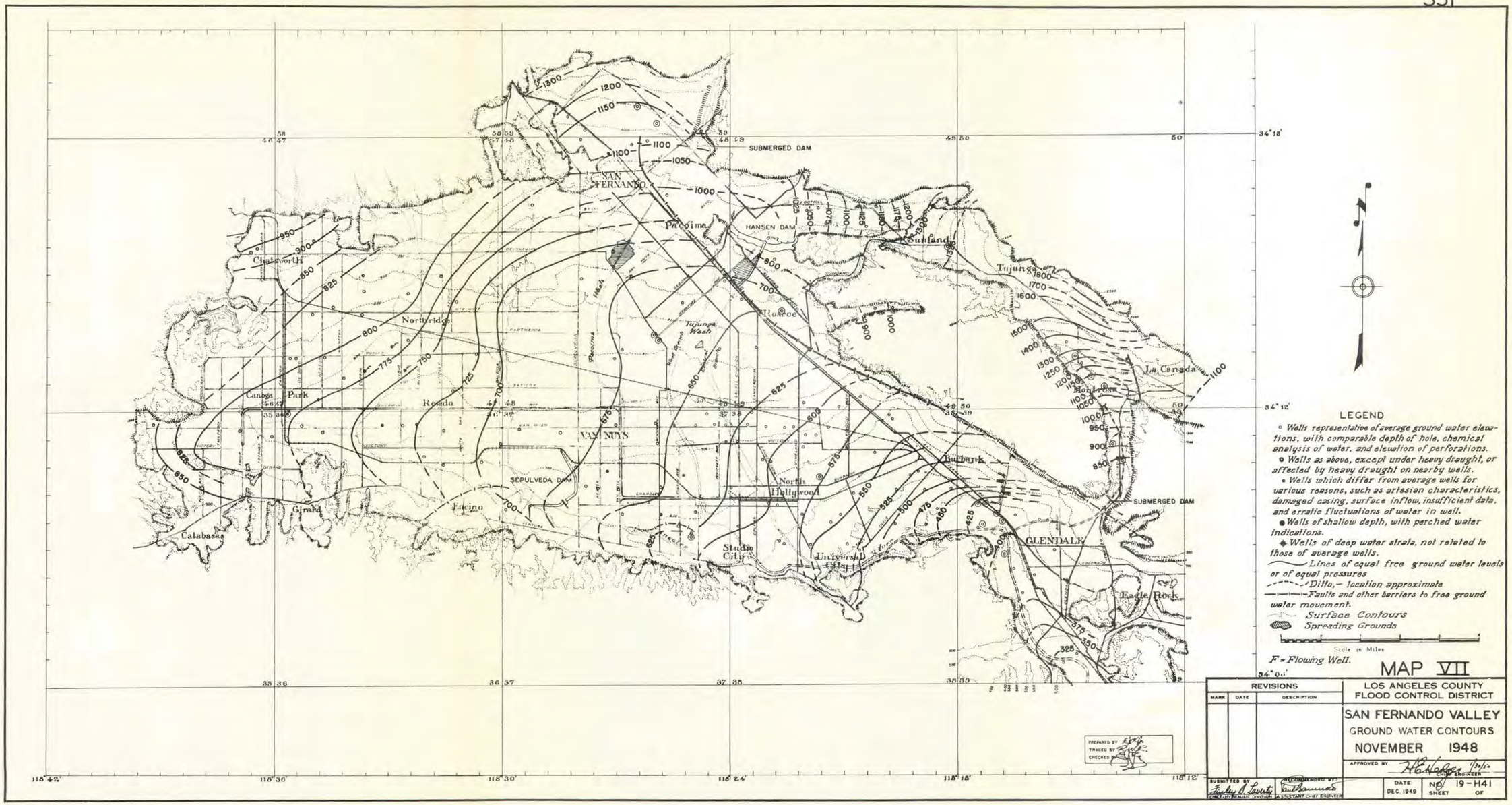
Scale in Miles

F = Flowing Well.

MAP VI

REVISIONS			LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
MARK	DATE	DESCRIPTION	
			SAN FERNANDO VALLEY GROUND WATER CONTOURS APRIL 1948
			APPROVED BY H.C. Hinkle 6/20/49 CHIEF ENGINEER
SUBMITTED BY Harley E. Hoult CHIEF HYDRAULIC DIVISION		RECOMMENDED BY Paul Kaufman ASSISTANT CHIEF ENGINEER	DATE MAY 1949 NO. 19-H 40 SHEET 1 OF 1

PREPARED BY
TRACED BY H.L.W.
CHECKED BY



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 free ground water levels or of equal pressures
- Ditto,- location approximate
- Faults and other barriers to free ground water movement.
- Surface Contours
- Spreading Grounds

Scale in Miles

F = Flowing Well.

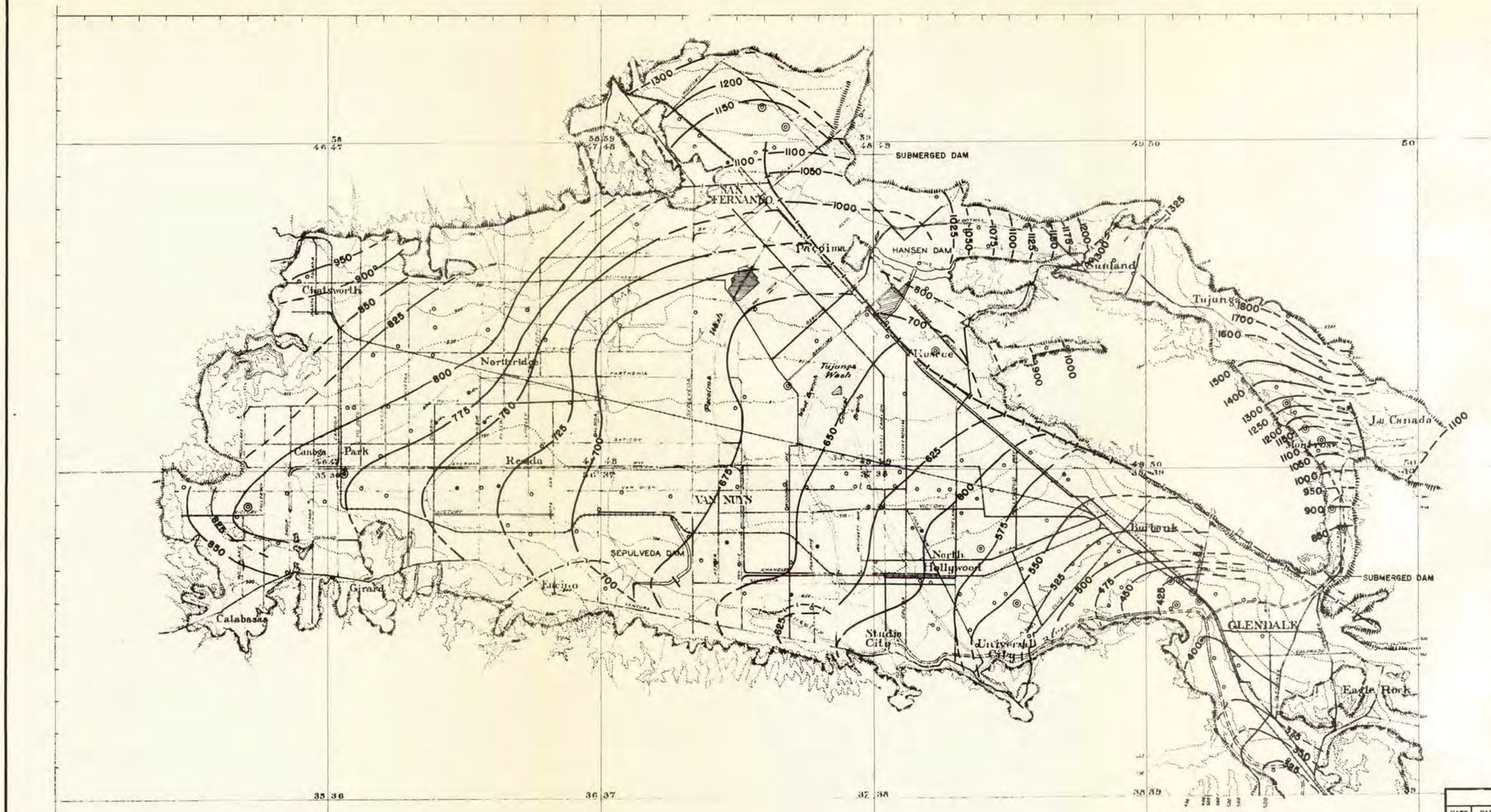
MAP VII

REVISIONS			LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
MARK	DATE	DESCRIPTION	SAN FERNANDO VALLEY GROUND WATER CONTOURS NOVEMBER 1948

PREPARED BY
TRACED BY
CHECKED BY

SUBMITTED BY Finley A. Laverty, CHIEF ENGINEER, FLOOD DIVISION
RECOMMENDED BY Paul Brannon, ASSISTANT CHIEF ENGINEER
APPROVED BY H.E. Hasler, CHIEF ENGINEER

DATE DEC. 1949 | NO. SHEET 19-H41 OF



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 free ground water levels or of equal pressures*
- *Ditto, – location approximate*
- *Faults and other barriers to free ground water movement.*
- *Surface Contours*
- *Spreading Grounds*

Scale in Miles

F = Flowing Well.

MAP VIII

REVISIONS			LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
MARK	DATE	DESCRIPTION	SAN FERNANDO VALLEY GROUND WATER CONTOURS APRIL 1949

PREPARED BY GK
TRACED BY
CHECKED BY

APPROVED BY H. C. Ledeker Jr. CHIEF ENGINEER

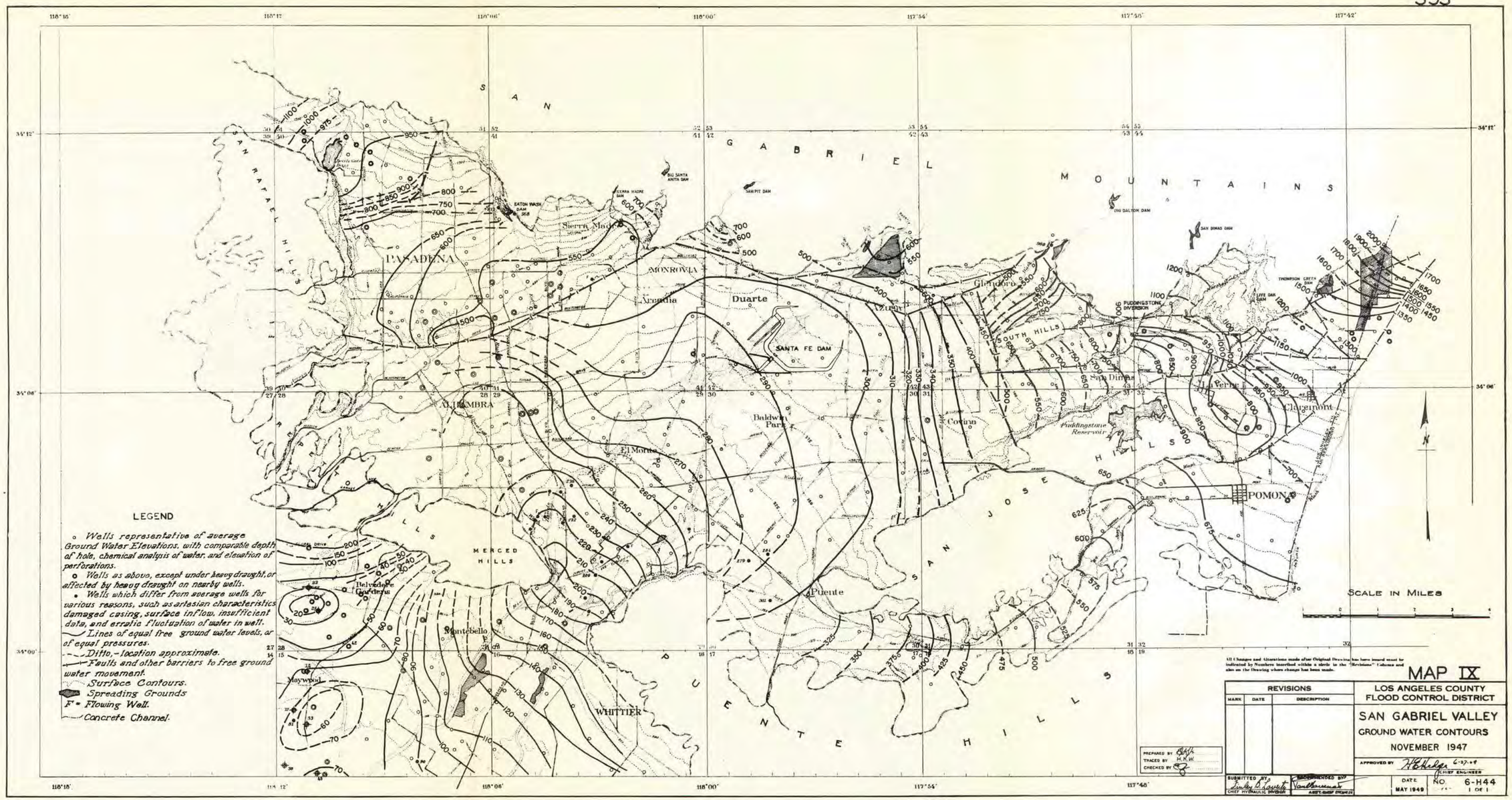
SUBMITTED BY Finley B. Laverty CHIEF HYDRAULIC ENGINEER

RECOMMENDED BY Paul Hanson ASSISTANT CHIEF ENGINEER

DATE DEC. 1949

NO. 19-H42

SHEET OF



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 free ground water levels, or of equal pressures.
- Ditto, - location approximate.
- Faults and other barriers to free ground water movement.
- Surface Contours.
- Spreading Grounds
- F = Flowing Well.
- Concrete Channel.

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.

MAP IX

REVISIONS			LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
MARK	DATE	DESCRIPTION	SAN GABRIEL VALLEY GROUND WATER CONTOURS NOVEMBER 1947

PREPARED BY H.K.W.
TRACED BY H.K.W.
CHECKED BY

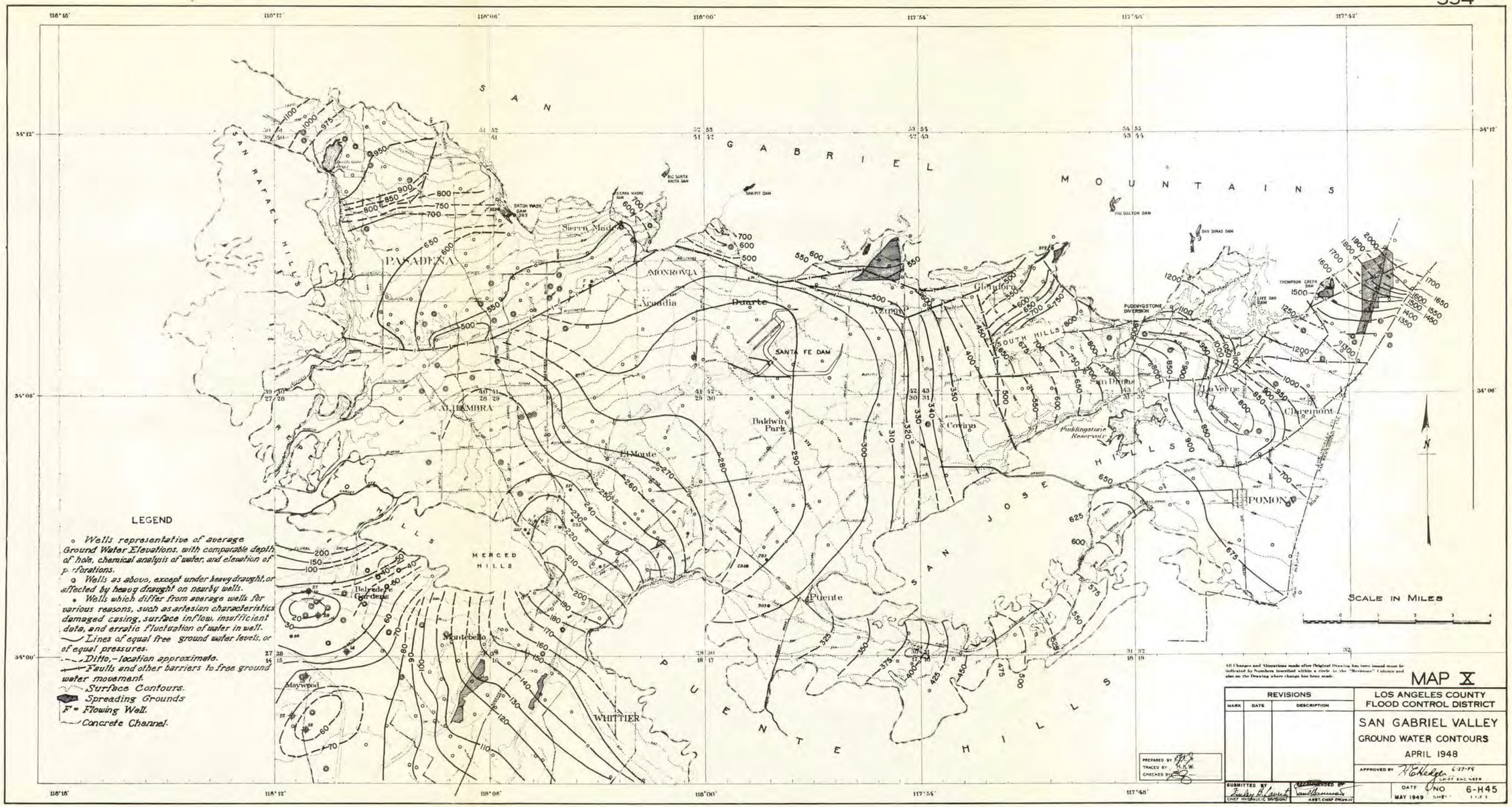
APPROVED BY W.H. Holder 6-27-49 CHIEF ENGINEER

SUBMITTED BY Leslie Gausti CHIEF HYDRAULIC DIVISION

RECOMMENDED BY Vandleuvent ASST. CHIEF ENGR.

DATE MAY 1949

NO. 6-H44 1 OF 1



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.

MAP X

REVISIONS		
MARK	DATE	DESCRIPTION

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

SAN GABRIEL VALLEY
GROUND WATER CONTOURS
APRIL 1948

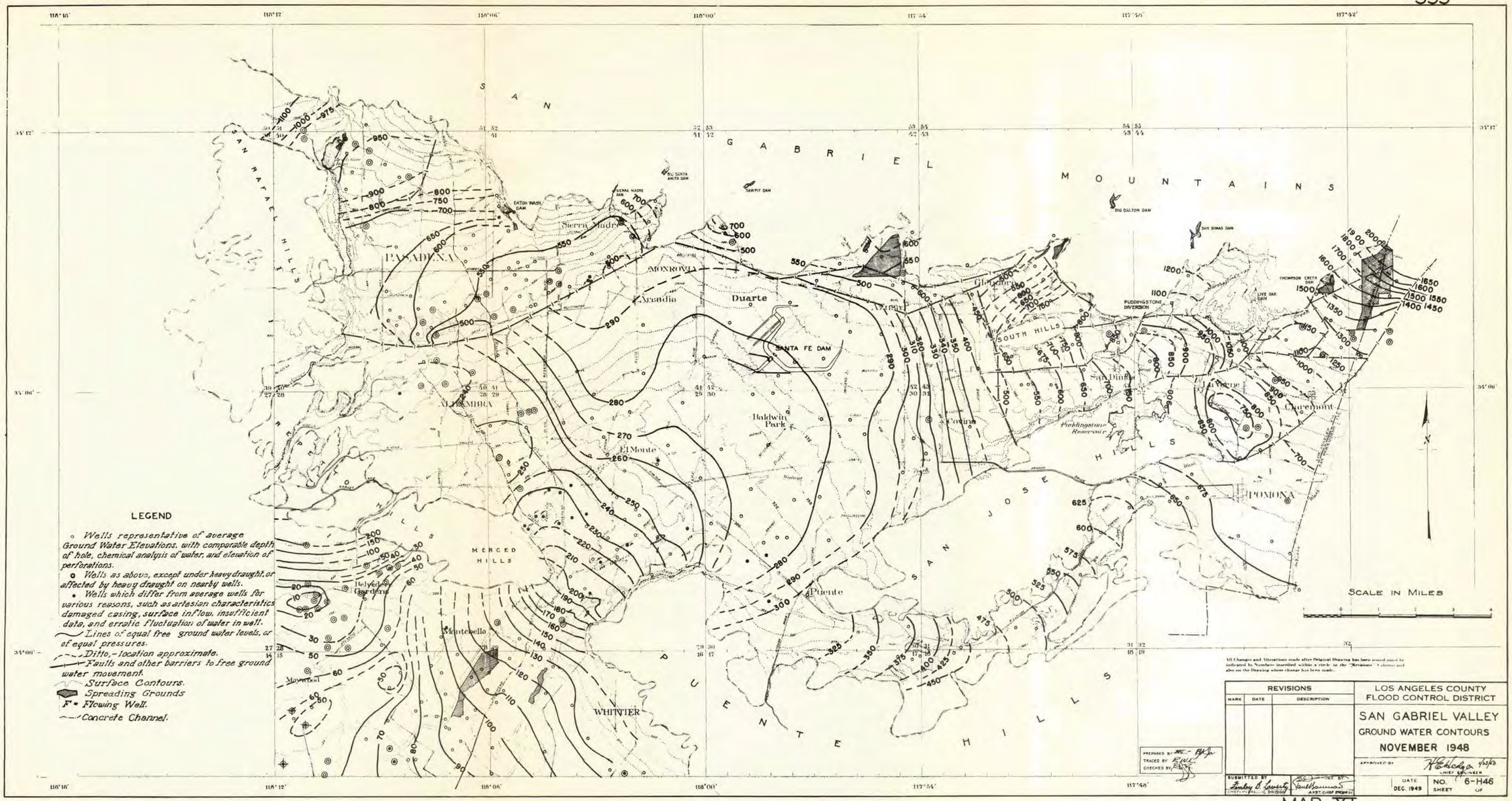
PREPARED BY H.K.W.
TRACED BY
CHECKED BY

SUBMITTED BY Leslie A. Lewis, CHIEF HYDRAULIC DIVISION

RECOMMENDED BY Paul Zimmerman, ASST. CHIEF ENGINEER

APPROVED BY R. Chelgren 6-27-49, CHIEF ENGINEER

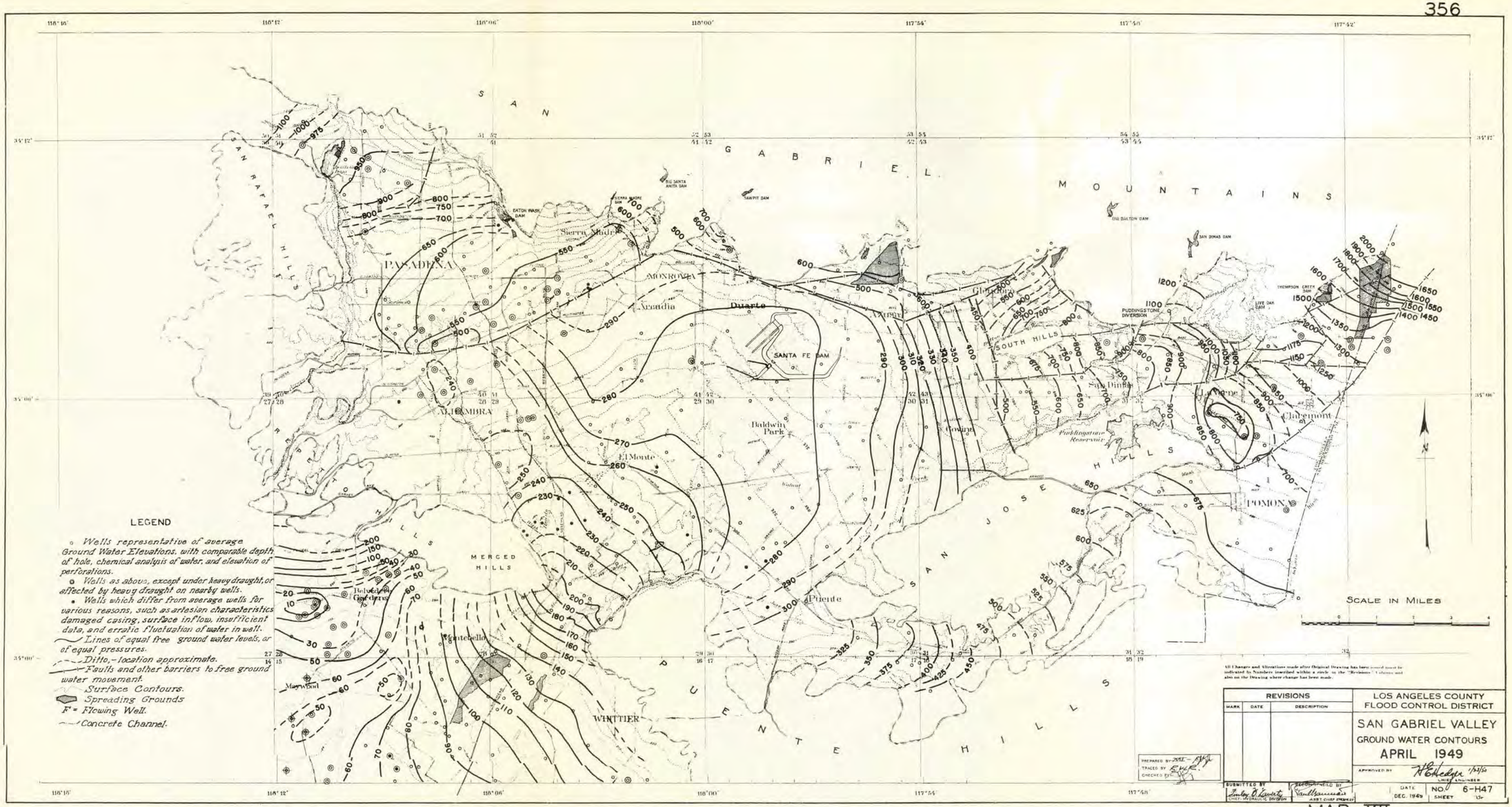
DATE MAY 1949 DWG NO 6-H45 SHEET 1 OF 1



LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

SAN GABRIEL VALLEY GROUND WATER CONTOURS NOVEMBER 1948

MAP XI


SAN GABRIEL MOUNTAINS
SAN RAFAEL HILLS
PASADENA
ALHAMBRA
MONROVIA
Arcadia
Duarte
SANTA FE DAM
Baldwin Park
El Monte
Irwindale
Azusa
Glendora
SOUTH HILLS
San Dimas
La Verne
Claremont
POMONA
MERGED HILLS
Rehobeth Gardens
Montebello
Puente
WHITTIER
PUENTE HILLS
SAN JOSE HILLS
Sierra Madre
EATON WASH DAM
BIG SANTA ANITA DAM
SAWPIT DAM
BIG DALTON DAM
SAN DIMAS DAM
THOMPSON CREEK DAM
LIVE OAK DAM
PUDDINGSTONE DIVERSION
Puddingstone Reservoir
Covina
Maywood
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 effected 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 free ground water levels, or of equal pressures.
Ditto, - location approximate.
Faults and other barriers to free ground water movement.
Surface Contours.
Spreading Grounds
F = Flowing Well.
Concrete Channel.
SCALE IN MILES
N
All changes and alterations made after Original Drawing has been erased must be indicated by Numbers inscribed within a circle in the "Revisions" columns and also on the Drawing where change has been made.
REVISIONS
MARK DATE DESCRIPTION
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
SAN GABRIEL VALLEY
GROUND WATER CONTOURS
APRIL 1949
PREPARED BY JMI - EWR
TRACED BY EWR
CHECKED BY
SUBMITTED BY Finley O. Everett CHIEF HYDRAULIC DIVISION
APPROVED FIELD BY Paul Bercaw ASST. CHIEF ENGINEER
APPROVED BY H. E. Hedger CHIEF ENGINEER 1/24/50
DATE DEC. 1949
NO 6-H47
SHEET 15

MAP XII

SANTA MONICA MOUNTAINS

LOS ANGELES

PUENTE HILLS

ORANGE COUNTY

SAN PEDRO HILLS

BALDWIN HILLS

DOMINGUEZ HILLS

SIGNAL HILL

LONG BEACH

SAN PEDRO BAY

Beverly Hills
Culver City
Palms
SANTA MONICA
Venice
Belvedere Gardens
Vernon
ALHAMBRA
El Monte
Montebello
Maywood
HUNTINGTON PARK
WHITTIER
INGLEWOOD
South Gate
WATTS
Downey
Santa Fe Springs
El Segundo
Hawthorne
Athens
Lynwood
Norwalk
COMPTON
Cleanwater
Hynes
Bellflower
Manhattan Beach
Gardena
Hermosa Beach
Redondo Beach
Torrance
Artesia
Virginia City
Harbor City
Wilmington
SAN PEDRO

34°06'
34°00'
33°54'
33°48'
118°36'
118°24'
118°18'
'12'
118°06'

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 free ground water levels, or of equal pressures.
- – – – Ditto, – location approximate.
- —|—|— Faults and other barriers to free ground water movement.
- – – – – Approximate line marking transition from free ground water levels to ground water pressure levels. (Limits north of barriers D.W.R. Bull. "45, 1933; south of barriers U.S.G.S., 1947.)
- Los Angeles County Flood Control District Spreading Grounds
- Surface Contours
- F Flowing Well

Note – Number adjacent to some wells indicates elevation of water surface. All elevations in feet, U.S.G.S. datum.

SCALE IN MILES

0 1 2 3 4 5

All Changes and Alterations made after Original Drawing has been issued must be indicated by Numbers inscribed within a circle in the "Revisions" Columns and also on the Drawing where change has been made.

REVISIONS			LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
MARK	DATE	DESCRIPTION	COASTAL PLAIN GROUND WATER CONTOURS NOVEMBER 1947
			APPROVED BY [signature] 6-17-49 CHIEF ENGINEER
			SUBMITTED BY [signature] CHIEF HYDRAULIC DIVISION; RECOMMENDED BY [signature] ASSISTANT CHIEF ENGINEER
			DATE APRIL 1949; NO. 2-H85; SHEET 1 OF 1

PREPARED BY [signature]
TRACED BY [signature]
CHECKED BY [signature]

MAP XIII

COASTAL PLAIN
GROUND WATER CONTOURS
APRIL 1948

SANTA MONICA MOUNTAINS

LOS ANGELES

PUENTE HILLS

BALDWIN HILLS

DOMINGUEZ HILLS

SAN PEDRO HILLS

SAN PEDRO BAY

ORANGE COUNTY

Beverly Hills
Sawtelle
Palms
Culver City
SANTA MONICA
Venice
Marina
INGLEWOOD
El Segundo
Hawthorne
Manhattan Beach
Hermosa Beach
Redondo Beach
Torrance
Harbor City
Gardena
Athens
WATTS
COMPTON
Lynwood
South Gate
Wilmington
SAN PEDRO
Alhambra
El Monte
Belvedere Gardens
Montebello
Maywood
HUNTINGTON PARK
WHITTIER
Downey
Santa Fe Springs
Norwalk
Clearwater
Hynes
Bellflower
Artesia
Virginia City
LONG BEACH
Signal Hill

34°06'
34°00'
33°54'
33°48'
118°36'
118°24'
118°18'
118°12'
118°06'
118°00'

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 free ground water levels, or of equal pressures.
- - - - - Ditto, - location approximate.
- —|—|— Faults and other barriers to free ground water movement.
- ▪▪▪▪▪ Approximate line marking transition from free ground water levels to ground water pressure levels. (Limits north of barriers D.W.R. Bull. "45, 1933; south of barriers U.S.G.S., 1947)
- Los Angeles County Flood Control District Spreading Grounds.
- ..... Surface Contours
- F Flowing Well

Note - Number adjacent to some wells indicates elevation of water surface. All elevations in feet, U.S.G.S. datum.

SCALE IN MILES

MAP XIV

All Changes and Alterations made after Original Drawing has been issued must be indicated by Numbers inscribed within a circle in the "Revisions" Column and also on the Drawing where change has been made.

REVISIONS			LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
MARK	DATE	DESCRIPTION	
			COASTAL PLAIN GROUND WATER CONTOURS APRIL 1948
			APPROVED BY H.E. Hedger 6-27-49 CHIEF ENGINEER
SUBMITTED BY Frederick H. Lewis CHIEF HYDRAULIC DIVISION	RECOMMENDED BY Paul Hansen ASSISTANT CHIEF ENGINEER		DATE APRIL 1949 NO. 2-H86 SHEET 1 OF 1

PREPARED BY A.P.O.
TRACED BY A.L.N.V.
CHECKED BY

SANTA MONICA MOUNTAINS

LOS ANGELES

BALDWIN HILLS

PUENTE HILLS

DOMINGUEZ HILLS

SAN PEDRO HILLS

SAN PEDRO BAY

ORANGE COUNTY

Beverly Hills
Sawtelle
Culver City
SANTA MONICA
Venice
INGLEWOOD
El Segundo
Hawthorne
Manhattan Beach
Hermosa Beach
Redondo Beach
Torrance
Harbor City
Wilmington
SAN PEDRO
LONG BEACH
Alhambra
Monterey Park
El Monte
Montebello
Maywood
HUNTINGTON PARK
South Gate
WATTS
Lynwood
Athens
Gardena
COMPTON
Clearwater
Bellflower
Downey
Norwalk
Santa Fe Springs
WHITTIER
Artesia
Virginia City
Signal Hill

34°06'
34°00'
33°54'
33°48'
118°36'
118°24'
118°18'
118°12'
118°06'

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 free ground water levels, or of equal pressures.

– – – – Ditto, – location approximate.

–|–|– Faults and other barriers to free ground water movement.

– – – – Approximate line marking transition from free ground water levels to ground water pressure levels. (Limits north of barriers D.W.R. Bull. "45, 1933; south of barriers U.S.G.S., 1947)

Los Angeles County Flood Control District Spreading Grounds.

Surface Contours

F Flowing Well

Note – Number adjacent to some wells indicates elevation of water surface. All elevations in feet, U.S.G.S. datum.

MAP XV

SCALE IN MILES

0 1 2 3 4 5

Changes and alterations made after Original Drawing has been issued must be indicated by Numbers inserted within a circle in the "Revisions" Column and also on the Drawing where change has been made.

REVISIONS			LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
MARK	DATE	DESCRIPTION	COASTAL PLAIN GROUND WATER CONTOURS NOVEMBER 1948
			APPROVED BY W. H. Hedger 2/50 CHIEF ENGINEER
SUBMITTED BY Finley B. Leavitt CHIEF HYDRAULIC DIVISION	RECOMMENDED BY [illegible] ASSISTANT CHIEF ENGINEER		DATE DEC. 1949 No. 2-H87 SHEET OF

PREPARED BY B.A.A.-A.A.I.
TRACED BY R.W.C.
CHECKED BY E.J.Z.

SANTA MONICA MOUNTAINS

LOS ANGELES

BALDWIN HILLS

PUENTE HILLS

DOMINGUEZ HILLS

SAN PEDRO HILLS

ORANGE COUNTY

SAN PEDRO BAY

Beverly Hills
Sawtelle
SANTA MONICA
Venice
Culver City
Palms
INGLEWOOD
El Segundo
Hawthorne
Manhattan Beach
Hermosa Beach
Redondo Beach
Torrance
Harbor City
SAN PEDRO
Wilmington
LONG BEACH
Gardena
COMPTON
Athens
Lynwood
WATTS
SOUTH GATE
HUNTINGTON PARK
Maywood
Vernon
Belvedere Gardens
ALHAMBRA
El Monte
Montebello
WHITTIER
Downey
Santa Fe Springs
Norwalk
Clearwater
Hynes
Bellflower
Artesia
Virginia City

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 free ground water levels, or of equal pressures.

– – – Ditto, – location approximate.

–|–|– Faults and other barriers to free ground water movement.

– – – – – Approximate line marking transition from free ground water levels to ground water pressure levels. (Limits north of barriers D.W.R. Bull. "45, 1933; south of barriers U.S.G.S., 1947)

Los Angeles County Flood Control District Spreading Grounds

Surface Contours

F Flowing Well

Note – Number adjacent to some wells indicates elevation of water surface. All elevations in feet, U.S.G.S. datum.

SCALE IN MILES

0 1 2 3 4 5

All Changes and Alterations made after Original Drawing has been issued must be indicated by Numbers inscribed within a circle in the "Revisions" Column and also on the Drawing where change has been made.

REVISIONS		
MARK	DATE	DESCRIPTION

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

COASTAL PLAIN GROUND WATER CONTOURS APRIL 1949

MAP XVI

PREPARED BY E.B.S. AAI
TRACED BY E.V.R.
CHECKED BY E.J.L.

SUBMITTED BY Finley B. Laverty CHIEF-HYDRAULIC DIVISION

CHECKED BY Frank Forman ASSISTANT CHIEF ENGINEER

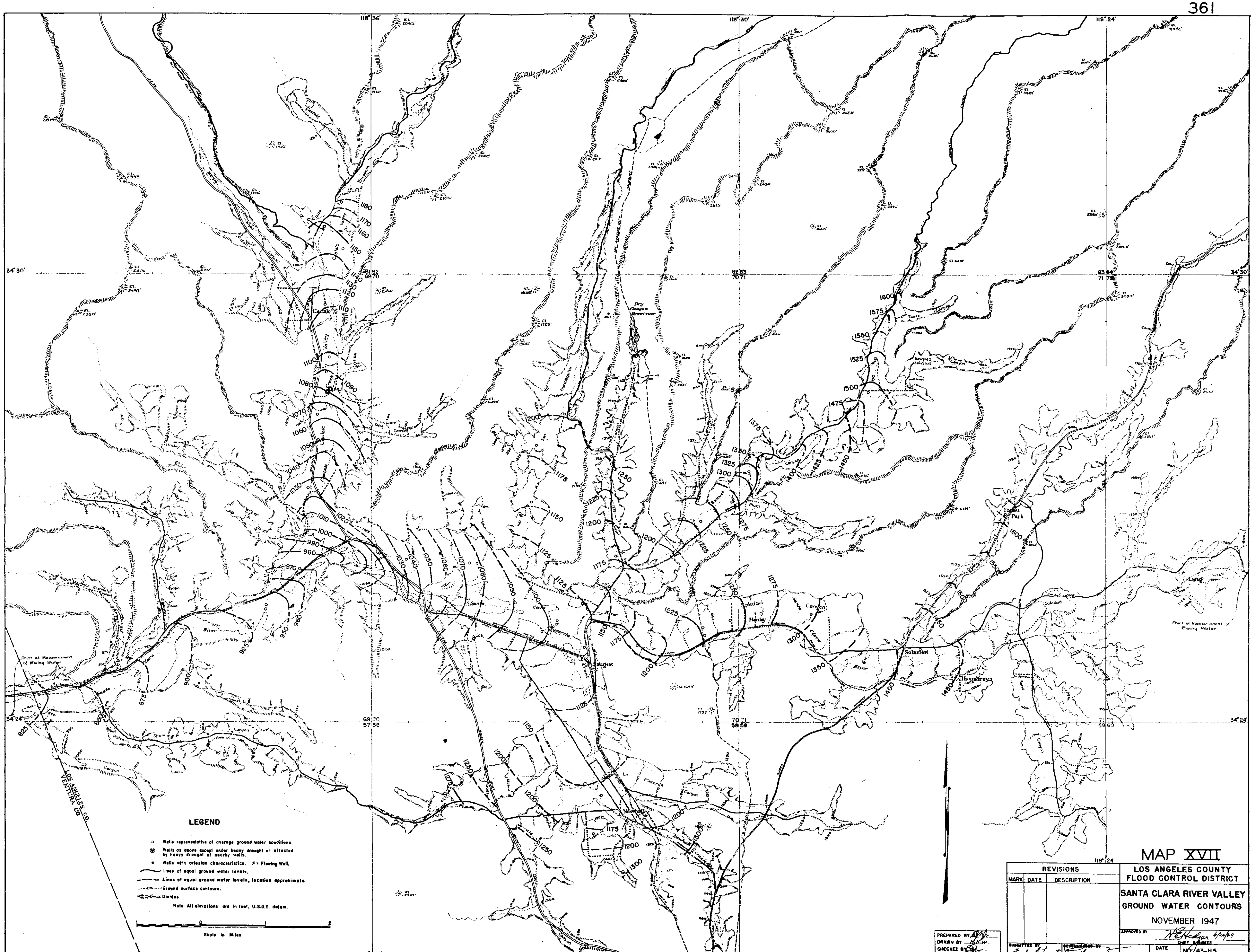
APPROVED BY H.W. Hodges 2/1/50 CHIEF ENGINEER

DATE DEC. 1949

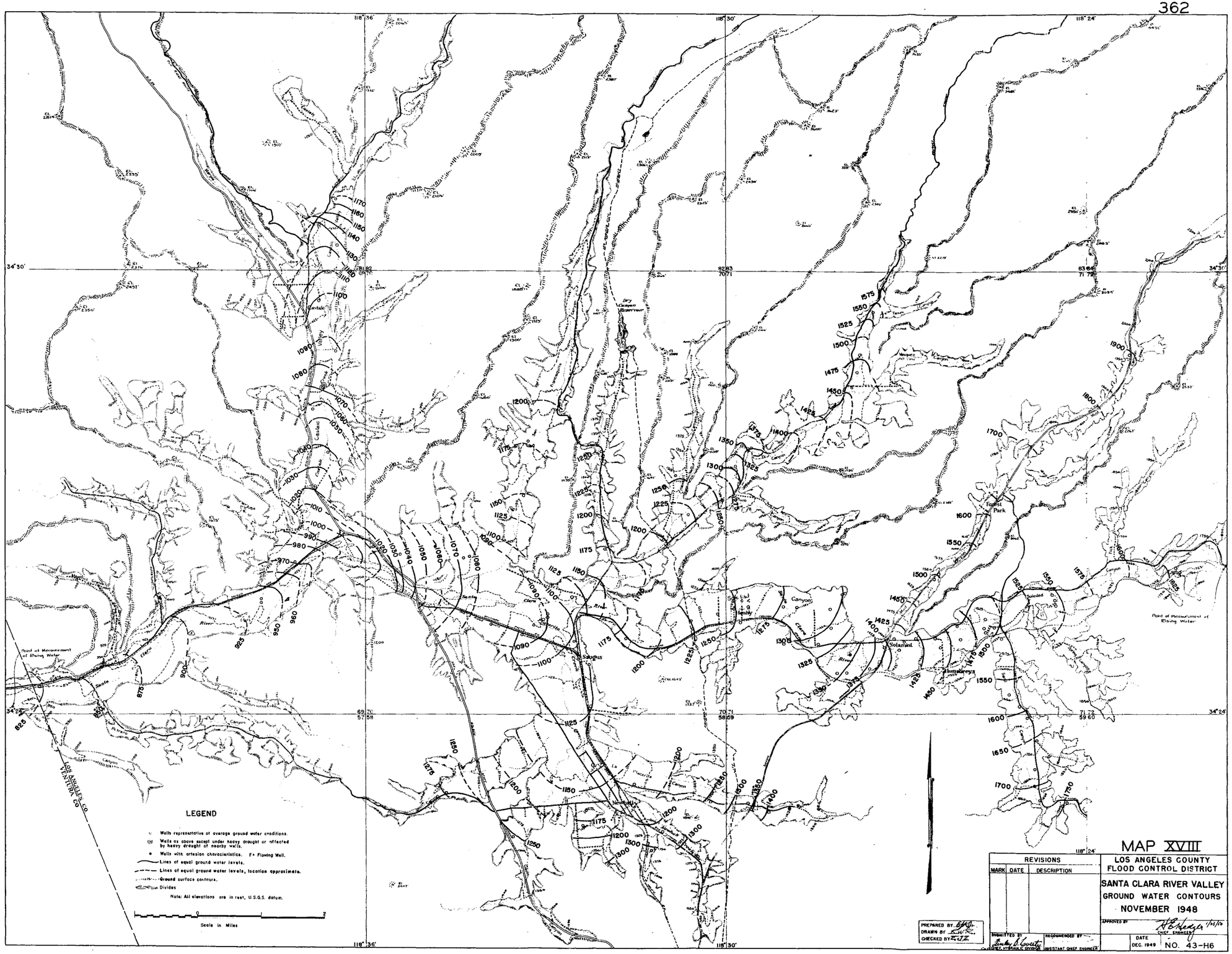
NO. 2-H88

SHEET OF

118°36' 118°24' 118°18' 118°12' 118°06' 34°06' 34°00' 33°54' 33°46'



118° 36'
118° 30'
118° 24'
34° 30'
34° 24'
Castaic
Dry Canyon Reservoir
Saugus
Newhall
Solemint
Humphreys
Forest Park
Lang
Ravenna
Point of Measurement of Rising Water
LOS ANGELES CO.
VENTURA CO.
LEGEND
Wells representative of average ground water conditions.
Wells as above except under heavy drought or affected by heavy draught of nearby wells.
Wells with artesian characteristics. F = Flowing Well.
Lines of equal ground water levels.
Lines of equal ground water levels, location approximate.
Ground surface contours.
Divides
Note: All elevations are in feet, U.S.G.S. datum.
Scale in Miles
MAP XVII
REVISIONS
MARK
DATE
DESCRIPTION
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
SANTA CLARA RIVER VALLEY
GROUND WATER CONTOURS
NOVEMBER 1947
APPROVED BY
CHIEF ENGINEER
PREPARED BY
DRAWN BY
CHECKED BY
SUBMITTED BY
CHIEF, HYDRAULIC DIVISION
RECOMMENDED BY
ASSISTANT CHIEF ENGINEER
DATE
JUNE 1949
NO. 43-H5



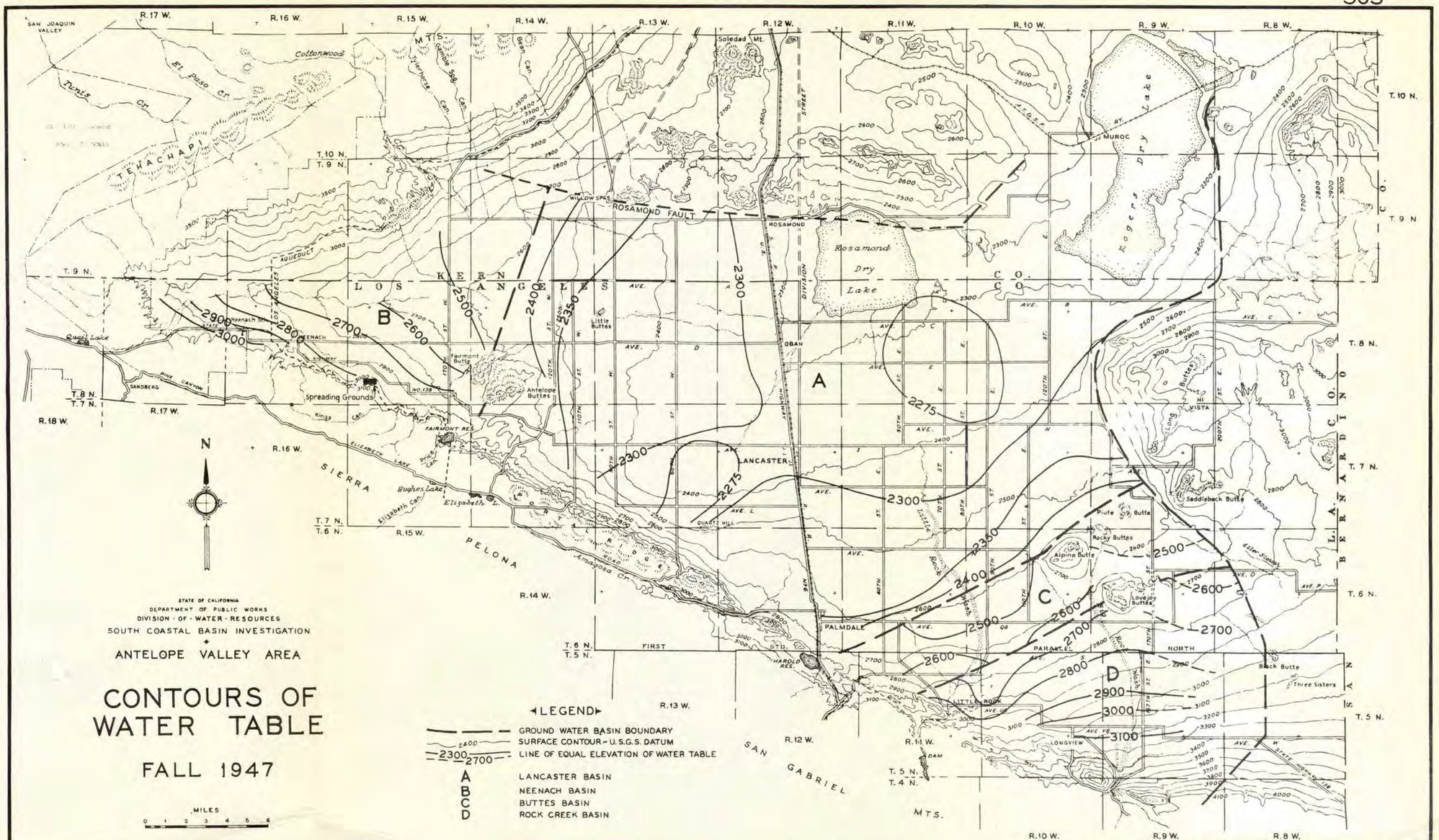
MAP XVIII

REVISIONS		
MARK	DATE	DESCRIPTION

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

SANTA CLARA RIVER VALLEY
GROUND WATER CONTOURS
NOVEMBER 1948

NO. 43-H6



STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION · OF · WATER · RESOURCES
SOUTH COASTAL BASIN INVESTIGATION

ANTELOPE VALLEY AREA

CONTOURS OF WATER TABLE

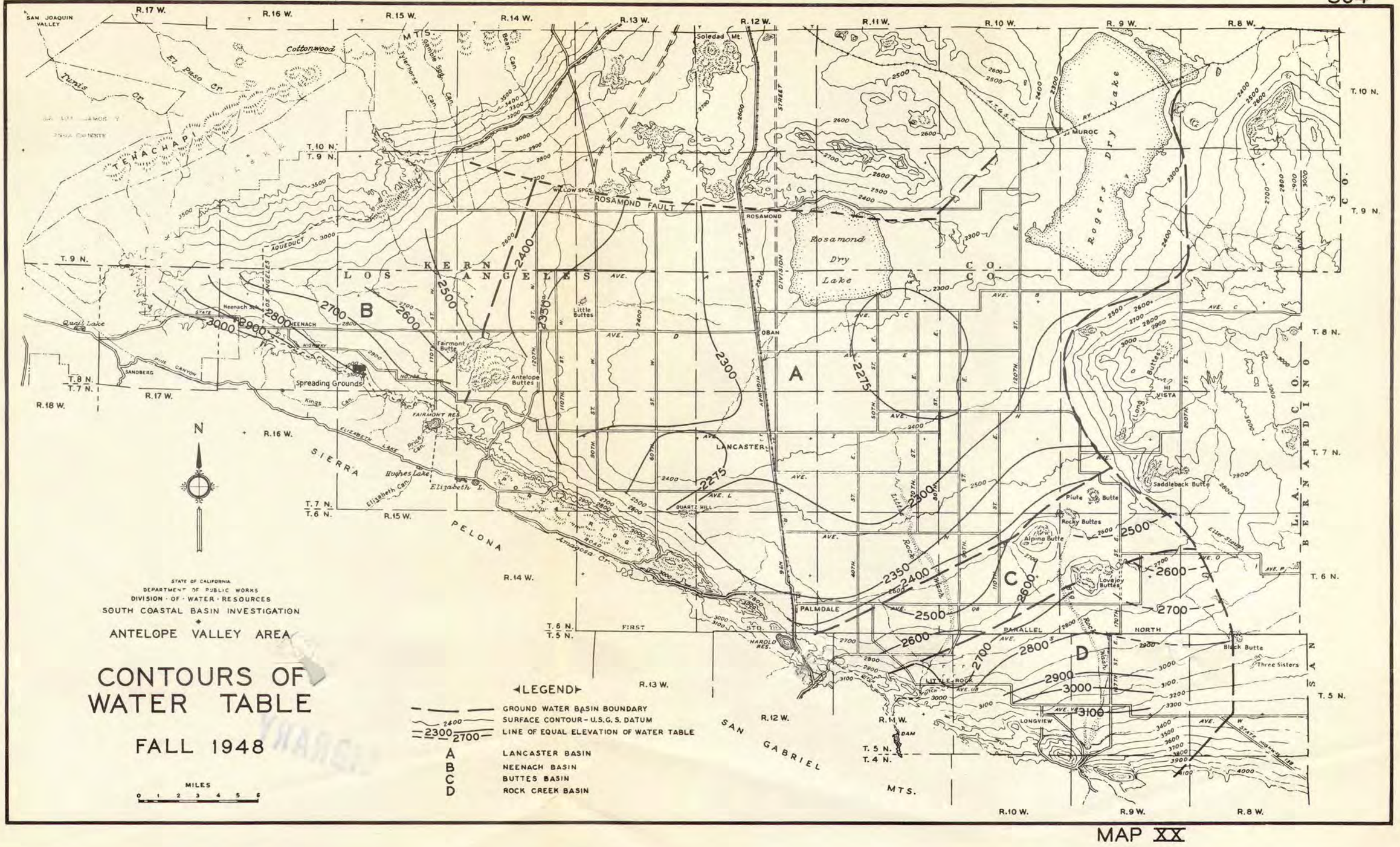
FALL 1947

◂LEGEND▸

- GROUND WATER BASIN BOUNDARY
- SURFACE CONTOUR – U.S.G.S. DATUM
- LINE OF EQUAL ELEVATION OF WATER TABLE

A LANCASTER BASIN
B NEENACH BASIN
C BUTTES BASIN
D ROCK CREEK BASIN

MAP XIX



STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES
SOUTH COASTAL BASIN INVESTIGATION

ANTELOPE VALLEY AREA

CONTOURS OF WATER TABLE

FALL 1948

MILES
0 1 2 3 4 5 6

◂LEGEND▸

- GROUND WATER BASIN BOUNDARY
- 2400 SURFACE CONTOUR - U.S.G.S. DATUM
- 2300 2700 LINE OF EQUAL ELEVATION OF WATER TABLE

A LANCASTER BASIN
B NEENACH BASIN
C BUTTES BASIN
D ROCK CREEK BASIN

MAP XX