

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT

# **HYDROLOGIC REPORT**

**1975-77**

PREPARED IN THE  
HYDRAULIC AND WATER CONSERVATION DIVISIONS

OCTOBER 1982

Dear User:

It has been just over five years since we published our last volume of the Report on Hydrologic Data for water years 1974-1975. A number of factors had contributed to the gap between the publishing of our reports. We will be following this Fall with a special triennial publication of the 1978-1980 water years. .

As with other consumer-related items, our production costs have risen over the years and this publication represents the first time we are charging a nominal purchase fee for the report.

Los Angeles County Flood Control District

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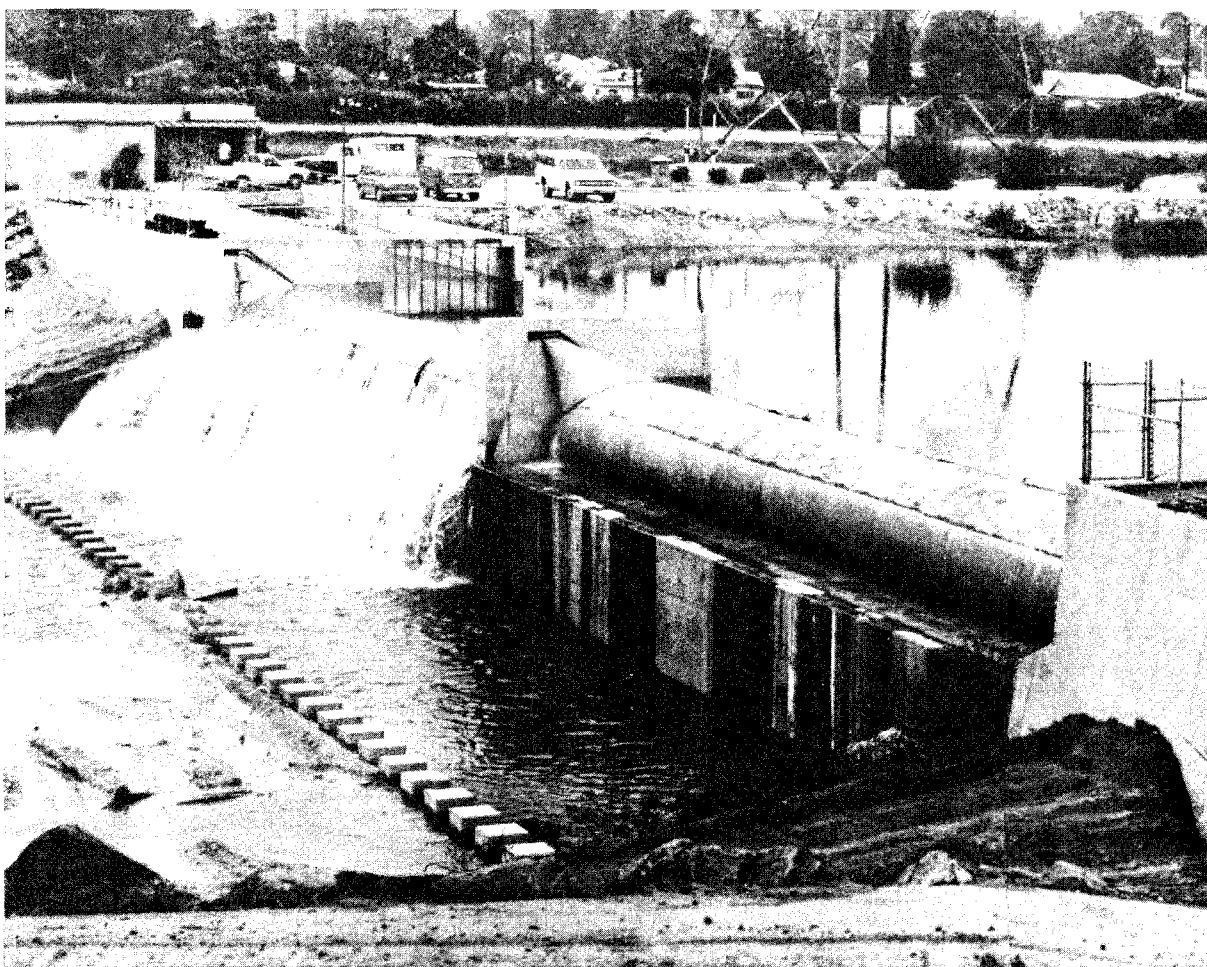
# INTRODUCTION

This report contains hydrologic data within Los Angeles County for the period beginning October 1, 1975, and ending September 30, 1977. Also included are summaries of data at selected locations for all years of record. The data are presented in six sections.

1. Precipitation - summarizes precipitation data for over 419 locations within Los Angeles County.
2. Evaporation - lists all locations for which evaporation data is on file and provides monthly evaporation amounts at 24 locations for all years of record.
3. Runoff - presents daily and seasonal runoff amounts for 60 streamflow stations and four Metropolitan Water District outlets.
4. Dam Operation - lists mean daily inflow, outflow, water surface elevation, and storage amounts as well as a summary of annual events for 14 dams and reservoirs.
5. Erosion Control - presents debris histories for debris basins and maps of major watershed burns.
6. Water Quality Monitoring - presents maps of surface and groundwater sampling locations, and data at selected locations.
7. Conservation and Groundwater - presents records of water conserved at various facilities, water injected at seawater barrier projects, well hydrographs, and groundwater maps for the five major groundwater basins.

Where practical, all data which would satisfy immediate needs and serve as a useful reference are published in these reports. Several tables appear listing locations where unpublished data are available. Additional information may be obtained by writing to:

Mr. H. H. Haile, Chief Engineer  
Los Angeles County Flood Control District  
P.O. Box 2418, Terminal Annex  
Los Angeles, CA 90051



Rubber Diversion Dam at San Gabriel Coastal Basin Spreading Grounds Headworks

# SUMMARY OF THE 1975-77 SEASON

## RAINFALL

The average rainfall over Los Angeles County was below normal for the two-season period. Following is the comparison by season:

<u>Season</u>	<u>Season Rainfall</u>	<u>Per Cent Normal</u>
1975-76	11.31 inches	72
1976-77	13.23 inches	84

This pattern of rainfall was termed a drought, which persisted generally throughout California and the west. As an interesting result, many restaurants in the Los Angeles area did not serve drinking water unless specifically asked for.

Rainfall amounts vary considerably relative to the different terrains of the County. Below is a comparison for three subareas for the two seasons.

<u>Subareas</u>	<u>Season Rainfall (Inches)</u>	
	<u>1975-76</u>	<u>1976-77</u>
Coastal Plains	7.95	11.82
Mountains	24.04	21.14
Desert	6.35	8.41

<u>Subareas</u>	<u>Per Cent Normal</u>	
	<u>1975-76</u>	<u>1976-77</u>
Coastal Plains	58	86
Mountains	85	75
Desert	81	107

The largest storm of the 1975-76 season occurred from February 4 through 10, while the storm of May 8 through 10 produced the largest single day rainfall for the 1976-77 season.

Snowfall of 28 inches and 14 inches was recorded at Big Pines recreation park and Crystal Lake, respectively, for the 1975-76 season. The same locations recorded 49 inches and 30 inches of snow on the ground for the 1976-77 season.

## RUNOFF

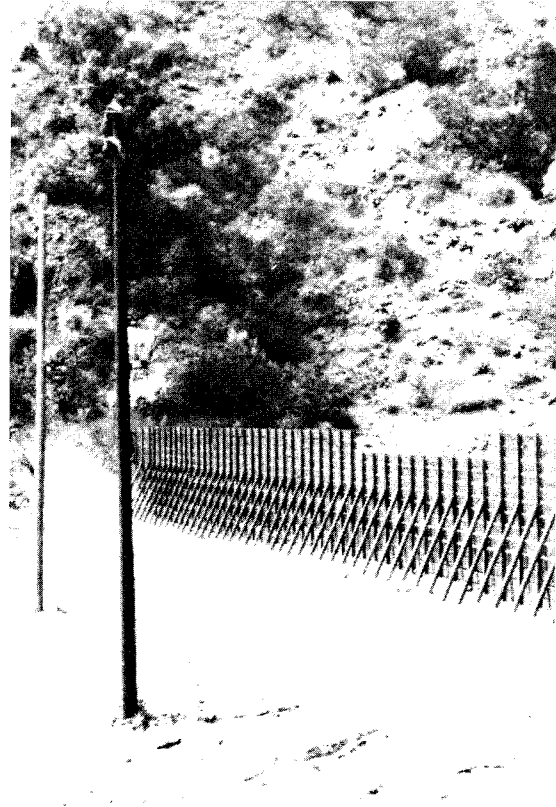
The 1975-77 period produced below normal rainfall and resultant low runoff in most areas of the District. However, some locally heavy thunderstorm activity in the Foothill areas occurred at times, producing locally heavy runoff for short durations. Light to moderate rainfall intensities on the burned areas of the Mill and Village Fires resulted in heavy debris flows in Sierra Madre, La Crescenta, and Palmer Canyons, with only resultant minor damage.

## EVAPORATION

Evaporation for seven selected locations was 106 per cent of average for the 1975-76 season, and 105 per cent of average for the 1976-77 season.

## FIRE

The two largest fires that occurred in 1975 were the Mill Fire that burned 49,000 acres in the frontal area of the San Gabriel mountains from Pacoima Wash east to Angeles Crest Highway, and the Village Fire that burned 19,000 acres in the area of the East Fork of the San Gabriel River. The largest fire in 1976 burned 1,700 acres near Hasley Canyon. In 1977, two fires burned 5,600 acres in the Big Tujunga watershed.



Typical Emergency Rail and Timber Structure Serving to Retain Debris from Burned Areas

## EROSION

The average seasonal debris production rate into all District debris basins was 1,300 cubic yards per square mile in 1975-76, and 2,500 cubic yards per square mile in 1976-77. The historical rate of debris production is 4,400 cubic yards per square mile per year.

## CONSERVATION

During the 1975-77 season, over 100,400 acre-feet of local water, 131,118 acre-feet of imported water, and 44,328 acre-feet of reclaimed water were used to replenish the ground-water basins from spreading facilities, injection facilities, reservoirs, and unlined channels.

## **SEAWATER BARRIER PROJECTS**

The District operates three barrier projects to protect the ground water in the West Coast and Central Basins against seawater intrusion by creating a fresh-water pressure ridge at key loca-

tions along the coastline. These pressure ridges are created by injecting fresh water into the ground through a series of injection wells. During the period 69,480 acre-feet of water were injected at the West Coast Basin Barrier Project, 14,216 acre-feet at the Dominguez Gap Barrier Project, and 10,429 acre-feet at the Alamitos Barrier Project.

# ABOUT LOS ANGELES COUNTY

## TOPOGRAPHY

The Los Angeles County Flood Control District includes an area of 2,760 square miles with boundary contiguous to the County boundary. The most northerly portion and channel islands are excluded. The District measures approximately 66 miles in east-west and 55 miles in north-south directions.

The terrain within the District can be classified in broad terms as being 39 per cent mountainous, 17 per cent coastal plain; and 44 per cent hills, valleys, or deserts. Relief of the terrain ranges from sea level to a maximum elevation of 10,000 feet. The coastal plain is generally of mild slope and contains relatively few depressions or natural ponding areas. The slopes of main river systems crossing the coastal plain, such as the San Gabriel River, Los Angeles River, and Ballona Creek, range from 4 to 14 feet per mile.

Topography in the mountainous area is generally rugged with deep, V-shaped canyons separated by sharp dividing ridges. Steepwalled canyons with side slopes of 70 per cent or more are common. The gradient of principal canyons in the San Gabriel Mountains ranges from 150 to 850 feet per mile. Mountain ranges are aligned in a general east-west direction, the major range being the San Gabriel Mountains. The majority of mountain ridges lie below Elevation 5,000, the total area above this level being approximately 210 square miles.

## GEOLOGY - SOILS

Igneous, sedimentary, and metamorphic rock groups are all represented within the District. The San Gabriel Mountains and Verdugo Hills are composed primarily of highly fractured igneous rock, with large areas of granitic rock formation being exposed above soils which are coarse and porous. Faulting and deep weathering have produced porous zones in the rock formation; however, rock masses have produced a comparatively shallow soil mantle due to the steepness of slopes which accelerates erosion of the fine material.

## LAND USE

The principal vegetative cover of upper mountain areas consists of various species of brush and shrubs known as chaparral. Most trees found on mountainsides are oak, with alder, willow, and sycamore found along streambeds at lower elevations. Pine, cedar, and juniper are found in ravines at higher elevations and along high mountain summits.

The chaparral is extremely flammable, and extensive burns of the mountain vegetation frequently occur during dry, low-humidity weather accompanied by high winds. Chaparral has the ability to sprout following fires and grows rapidly to re-establish the watershed cover within a period of 5 to 10 years.

Grasses are the principal natural vegetation on the hills. Much of the hill land and nearly all of the valley land in the densely populated portion of the District south of the San Gabriel Mountains has been converted to urban and suburban use. Development of the Santa Clarita Valley and desert areas to the north of the San Gabriel Mountains is sparse at present but is proceeding at an accelerated rate.

Other mountainous and hilly reaches within the District are composed primarily of folded and faulted sedimentary rocks, including shale, sandstone, and conglomerate. Residual soils in these areas are shallow and are generally less pervious than those of the San Gabriel mountain range.

Valley and desert soils are alluvial and vary from coarse sand and gravel near canyon mouths to silty clay and gravel or clay in lower valleys and the coastal plain. The alluvial fill has been built up by repeated deposition of debris to depths as great as 2,000 feet in places. This fill is quite porous in areas of relatively low clay content. Impervious layers and irregularities in the underlying bedrock divide the alluvium into several distinct ground water basins. Valley soils are generally well drained and relatively few perched water or artesian areas are present.



Urban Development to Base of Foothills

## CLIMATE

The climate within the District varies between subtropical on the Pacific Ocean side of the San Gabriel mountain range to arid in the Mojave Desert. Nearly all precipitation occurs during the months of December through March. Precipitation during summer months is infrequent, and rainless periods of several months are common. Snowfall at elevations above 5,000 feet is frequently experienced during the winter storms, but the snow melts rapidly except on higher peaks and the northern slopes. Snow is rarely experienced on the coastal plain.

January and July are the coldest and warmest months of the year, respectively. At Los Angeles, the 30-year average daily minimum temperature for January is 46.6 degrees above zero. The average daily maximum temperature for July is 83.3 degrees. At Mount Wilson (elevation 5,850 feet), the 25-year average daily minimum temperature for January is 34.5 degrees above zero and the average daily maximum temperature for July is 80.2 degrees.

## HYDROMETEOROLOGIC CHARACTERISTICS

### Coastal and Mountain Areas

Precipitation in the Los Angeles area occurs primarily in the form of winter orographic rainfall associated with extratropical cyclones of North Pacific origin. Major storms consist of one or more frontal systems and occasionally last four days or longer. Air masses and frontal systems associated with major storms commonly extend for 500 to 1,000 miles in length and produce rainfall simultaneously throughout the District. Major storms approach Southern California from the west or southwest with southerly winds which continue until frontal passage. The mountain ranges lie directly across the path of the inflow of warm, moist air, and orographic effects cause precipitation to be greatly intensified.

The effect of snowmelt upon flood runoff is of significance in the few cases when warm spring rains from southerly storms fall on a snowpack. During major storms, temperatures throughout the District may remain above freezing.

Average individual storm rainfall amounts and intensities conform to a fairly definite areal pattern which reflects general effects of topographic differences.

### Desert Areas

Summer convective rainfall is principally experienced in the upper San Gabriel Mountains and the Mojave Desert regions. In many desert areas, the most serious flooding occurs as a result of summer convective storms.

## RUNOFF CHARACTERISTICS

### Mountain Areas

In mountain areas, the steep canyon slopes and channel gradients are conducive to rapid concentration of storm runoff quantities. Depression storage and detention storage effects are minor in the rugged terrain. Soil moisture during a storm has a pronounced effect on runoff from the porous soils supporting a good growth of deeprooted vegetation such as chaparral. Soil moisture deficiency is greatest at the beginning of a rainy season, having been depleted by evapotranspiration process during the dry summer months. Precipitation during periods of soil moisture deficiency is nearly entirely absorbed by soils, and except for periods of extremely intense rainfall, significant runoff does not occur until soils are wetted to field moisture capacity. Due to high infiltration rates and porosity of mountain soils, runoff occurs primarily as subsurface flow or interflow rather than as direct runoff. Spring or base flow is essentially limited to portions of the San Gabriel mountain range, most streams in the District being intermittent.

Runoff from a mountain watershed recently denuded by fire exceeds that for the unburned state due to greatly increased quantities of inorganic debris present in the flow and low-flows from a denuded watershed. Debris production from a major storm has amounted to as much as 120,000 cubic yards per square mile of watershed. Boulders up to eight feet in diameter have been deposited in a valley area a considerable distance from their source.

Debris quantities equal in volume to storm runoff, or in other words 100 per cent bulking of runoff from a major storm, have been recorded. Where debris-laden flow traverses an alluvial fill unconfined by flood control works, flood discharges follow an unpredictable path across the debris cone formed at the canyon mouth.

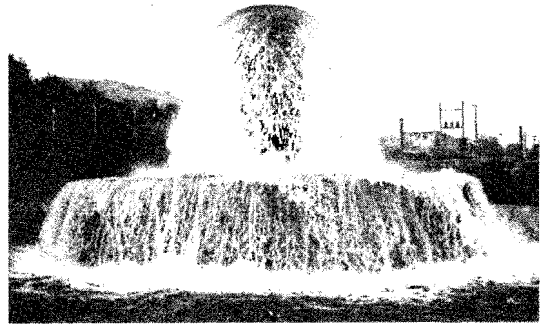
### Hill and Valley Areas

In hill areas, runoff concentrates rapidly from the generally steep slopes; however, runoff rates from undeveloped hill areas are normally



smaller than those from mountain areas of the same size. In those hill areas which have been developed for residential use, concentration times become considerably decreased due to drainage improvements, and runoff volumes and rates become increased due to increased imperviousness. On the other hand, erosion is controlled and debris content of storm flow is practically eliminated. Debris production rates from undeveloped hill areas are normally smaller than those from mountain areas of the same size.

In highly developed valley areas, local runoff volumes have increased as the soil surface has become covered by impervious materials. Peak runoff rates for valley areas have also increased due to elimination of natural ponding areas and improved hydraulic efficiency of water carriers such as streets and storm drain systems.



Imported Water Outlet CB-48 on San Dimas Wash

# THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

## FLOODS...AN OLD STORY

Floods in Los Angeles County have been recorded as far back as the days of the Mission Padres. For centuries waters have swept out of the San Gabriel Mountains causing extensive property damage and taking a great toll of lives.

Such a flood occurred in 1914 causing over \$10 million in property damage and taking many lives. As a result, the State legislature passed an act creating the Los Angeles County Flood Control District.

The District was assigned two tasks... control the floods and conserve the water.



Santa Anita Dam

## CONTROLLING THE WATERS

Successful early bond issues financed construction of the 14 dams which the District built high in the San Gabriel Mountains to impound stormwaters until they could be released in an orderly fashion. Debris basins were constructed to trap eroded materials which had caused terrible damage in the past. Flood channel improvements were undertaken to confine the waters.

District engineers prepared a Comprehensive Plan in the early 1930's which provided for the control of flooding and the saving of as much of the water as practicable. With minor modifications, it is still the plan today.

Federal legislation in 1936 brought the United States Army Corps of Engineers into the local flood control picture. Since that time, the two agencies have been jointly prosecuting construction of the Comprehensive Plan which is now nearing completion. The District also cooperates with the United States Soil Conservation Service and Forestry Service in erosion control and debris reduction programs.

## CONSERVING THE WATERS

In addition to its flood control program, the District has the equally important task of conserving as much of the storm and other waste waters as practicable. The use of water conservation facilities adjacent to river channels and their tributaries permits water to be percolated into ground reservoirs for later pumping by consumers. These water conservation facilities are located in areas where the underlying soils are composed of porous sands and gravel formations resembling rice paddies, while others are deep basins which were once gravel pits.

The importance of this activity is apparent when it is realized that about 35 to 45 per cent of the water used in the County is pumped from ground supplies. The growth of the County, combined with periodic droughts, seriously depleted these supplies on numerous occasions down through the years.

Other major conservation efforts by the District include combatting the serious intrusion by salt water of fresh well supplies along the Pacific Ocean and the utilization of reclaimed sewage waters in spreading operations.



District Headquarters

## ORGANIZED TO DO THE JOB

Day to day administration of District affairs is vested in the Chief Engineer who is appointed by and responsible to the Los Angeles County Board of Supervisors. The dual mission of the agency is recognized in its organization. Although a large part of the District's activities involve the construction of flood control and water conservation facilities, the operation and maintenance of dams, debris basins, spreading grounds, channels, and storm drains are also of great importance.

Some 1,600 civil service employees serve the District, and through it the general public in a variety of tasks. Many have storm assignments which place them on call 24 hours a day throughout the winter season.

# PRECIPITATION

This section contains basic precipitation data collected by the District for the water year beginning October 1, 1975, and ending September 30, 1977. In addition, the District maintains less extensive records of other climatological data such as temperature, barometric pressure, humidity, wind direction, and velocity.

## RAINFALL

The daily and monthly rainfall data shown herein are based on the standard gage readings. At stations equipped with both standard and recording rain gages, the standard gage amounts are proportioned to the chart amounts at the designated time of reading. Storm total amounts caught by storage-type gages are proportioned to nearby stations for daily and monthly figures. Generally, the District uses a 5 p.m. time of reading but recognizes other times of readings at stations where the observer is not available at 5 p.m. Daylight savings time was observed for the periods October 1, 1975 to October 26, 1975; April 25, 1976 to October 31, 1976; and April 25, 1977 to September 30, 1977.

## WEATHER MODIFICATION

As part of its water conservation efforts in the Los Angeles area, the District has conducted weather modification activities since the 1961-62 season. This program is intended to increase rainfall only in certain predetermined "target" areas within the drainage basins upstream of Pacoima, Big Tujunga, and San Gabriel Dams. This increased rainfall results in additional runoff which is collected at these reservoirs and is later released to various spreading facilities downstream to replenish the ground water supply.

During the 1975-77 period for this biennial report the District did not engage in any weather modification activities.

## SNOW SURVEYS

District personnel measure snow depths and densities at 11 locations periodically within the San Gabriel Mountains. The snow pack data presented herein are based on annual snow surveys conducted on or about April 1 of each year. The snow courses range in elevation from 5,800 feet to 8,500 feet and lie within the San Antonio, San Gabriel, Little Rock, and Big Rock drainage areas.

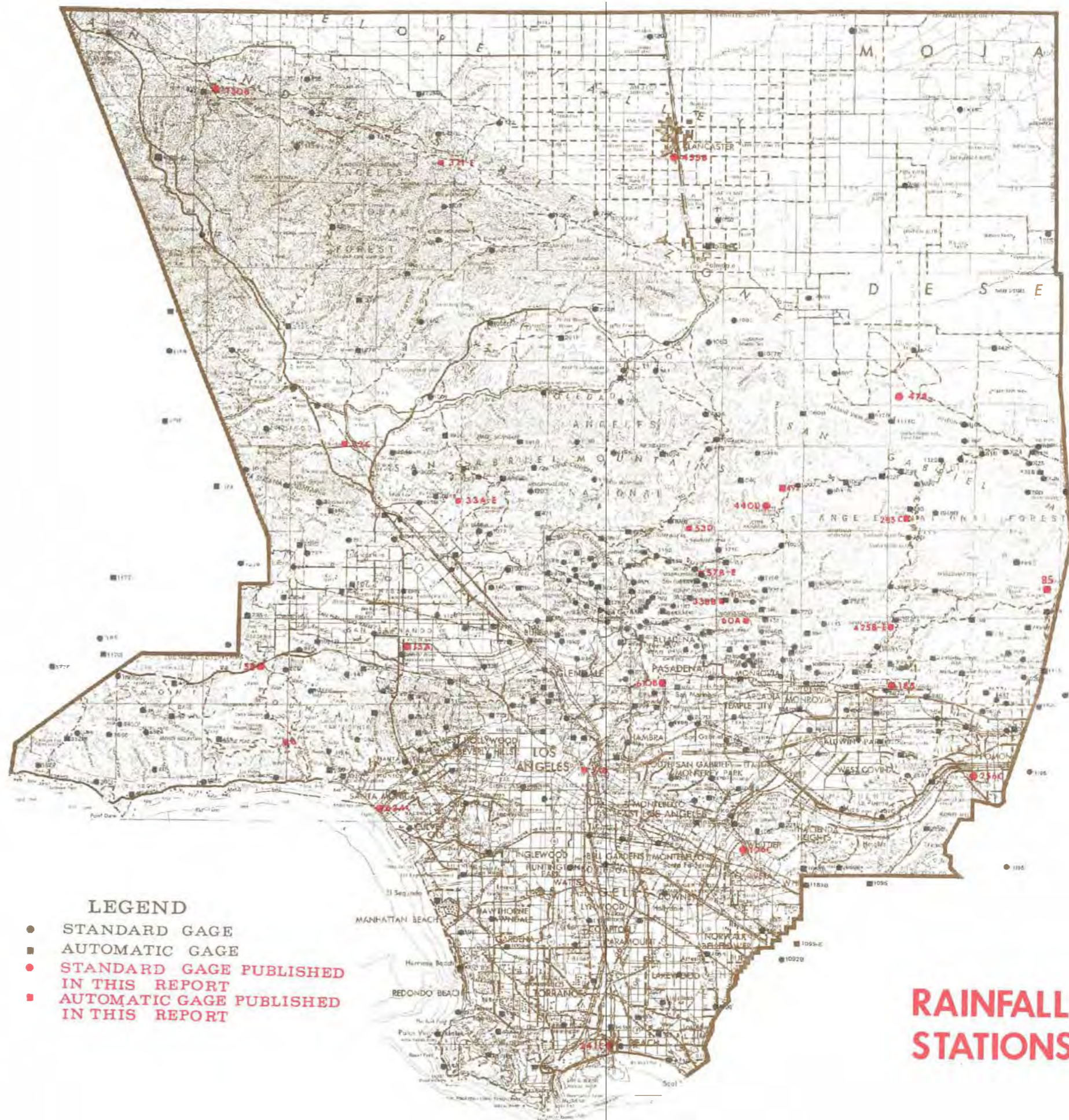
## COOPERATION

The cooperation of observers in furnishing data to this District as a public service is appreciated. The efforts of the many agencies and individuals who have so freely cooperated with us in the collection of these data have resulted in the large number of complete records for the season covered by this report.



Mr. Edward Hartnagel and Mr. Armand Sarinana at South Coast Botanic Gardens Receiving Service Award as Rainfall Observers at Station 444 F-E Rolling Hills





- LEGEND**
- STANDARD GAGE
  - AUTOMATIC GAGE
  - STANDARD GAGE PUBLISHED IN THIS REPORT
  - AUTOMATIC GAGE PUBLISHED IN THIS REPORT

**RAINFALL STATIONS**



# RAINFALL STATION LOCATION AND SEASONAL AMOUNT

STA. NO.	STATION NAME	TYPE OF GAGE	YEARS OF RECORD	ELEV. OF GAGE	NORTH LAT.	WEST LONG.	OBSERVER	SEASONAL 1975-76	RAINFALL 1976-77
2B	ESCONDIDO CANYON	S	51	1050	34-02-55	118-46-25	STEIN PETERSEN	9.98	12.64
3F	SEMINOLE HOT SPRINGS	S	50	925	34-06-25	118-47-30	JOHN & LINDA MCCOY	11.47	14.98 <sup>0</sup>
4B	MALIBU LAKESIDE	S	64	807	34-06-11	118-45-16	HENRY READ	10.49	15.56
5B	CALABASAS	S	50	924	34-09-24	118-38-14	TOM FARMER	9.75	13.78
6	TOPANGA CANYON PATROL STATION	A	50	745	34-05-03	118-35-57	TOPANGA CYN PAT STA PERSONNEL	11.6	16.6
9B	SEPULVEDA & RAYEN	SP	49	828	34-13-52	118-28-04	GREEN ARROW NURSERY PERS.	9.90	14.43
10A	BEL AIR HOTEL	A	49	585	34-05-13	118-26-45	LACFCO PERSONNEL	9.00	16.4
110	UPPER FRANKLIN CANYON RESERVOIR	SPA	50	867	34-07-10	118-26-35	D.W.P. PERSONNEL	9.94	17.56
13B	NORTH HOLLYWOOD-BLIX	S	71	593	34-09-23	118-21-56	KATIE BLIX	17.53	15.32
14C	NORTH HOLLYWOOD-LAKESIDE	S	2	550	34-08-46	118-21-13	MIKE VIOETTA	21.49	16.12
14C	ROSCOE-MERRILL	SP	50	1050	34-14-19	118-21-32	E.O. PETERSON	INC.	17.47 <sup>00</sup>
15A	VAN NUYS	S	72	695	34-10-48	118-27-03	A.A. SIMON	9.99	13.17
17	SEPULVEDA CANYON AT MULHOLLAND HIGHWAY	S	48	1425	34-07-51	118-29-26	FIRE STATION PERSONNEL	10.37	16.71 <sup>0</sup>
20B	GIRARD RESERVOIR	S	56	986	34-09-07	118-36-36	D.W.P. PERSONNEL	9.26	13.22
21B	WOODLAND HILLS	S	65	875	34-10-14	118-35-33	LITTON INJUS CORP PERSONNEL	8.33	13.40
23B-E	CHATS WORTH RESERVOIR	SP AP	42	900	34-13-44	118-37-19	D.W.P. PERSONNEL	8.48	11.95
24F	CHATS WORTH	S	49	948	34-15-20	118-36-36	MRS PAUL NEWTON	9.08	14.02
25C	NORTHridge-L.A. DEPT. WEP	SP	57	810	34-13-52	118-32-23	D.W.P. PERSONNEL	7.63	12.02
29J	GRANADA HILLS	S	50	1280	34-17-09	118-30-59	HELEN STRATHAUS	9.98	13.26
30J	SYLMAR	SP	58	1250	34-13-37	118-28-15	MIKE FUSANO	11.82	15.98
31	ORCUTT RANCH	S	29	2850	34-19-28	118-34-14	EVELLA BLESSING	16.24	19.55
32C	NEWMALL-SOLEDAO DIV HOOTRS	S AP	52	1243	34-23-07	118-31-54	FIRE STATION PERSONNEL	11.65	16.50
33A-E	PACUINA DAM	SA	50	1509	34-19-48	118-23-59	THOMAS WERTZ	14.25	19.56
39J	SUNSET DEBRIS BASIN	8.81"	48	1610	34-12-18	118-17-05	LACFCO PERSONNEL	10.07	17.24 <sup>00</sup>
42C	REDONDO BEACH CITY HALL	S	49	70	33-50-43	118-24-00	F.W. APNOLD	6.70	14.45 <sup>00</sup>
430	PALOS VERDES ESTATES	S	52	216	33-47-58	118-23-29	KEN AYERS	6.78	14.06
44A	POINT VICENTE LIGHTHOUSE	S	50	125	33-44-30	118-24-38	USCG RADIO STATION PERSONNEL	5.59	14.72 <sup>00</sup>
460-E	BIG TUJUNGA DAM	SA	51	2315	34-17-47	118-11-14	JOHN FORRESTER	20.96	17.24
470	CLEAR CREEK-CITY SCHOOL	SA	50	3150	34-16-38	118-10-12	CITY SCHOOLS PERSONNEL	27.13	20.98
48B	OAK WILDE	S	50	2175	34-14-37	118-11-07	U.S.F.S. PERSONNEL	15.28	13.05
50B	LA CANADA-ARROYO SECO	S	50	1155	34-11-52	118-11-05	FIRE STATION PERSONNEL	18.83	17.12
520	WATERMILL GUARD STATION	S	47	3330	34-15-58	118-08-37	LACFCO PERSONNEL	24.98	20.56
530	COLBY'S	SA	50	3620	34-18-05	118-06-39	DONALD MILLER	27.54	19.82
54C	LODMIS RANCH - ALDER CREEK	A	61	4325	34-20-55	118-02-54	LACFCO PERSONNEL	15.3	14.4
570-E	CAMP HI HILL (OPISS)	SPA	40	4250	34-15-18	118-05-41	C. E. ROGER	31.25	25.82
58	STURTEVANT CAMP	S	46	3275	34-13-21	118-01-52	LOUIS LUEBKERT	26.27	22.27
50A	HUGGEE'S	SA	52	2412	34-12-32	118-02-02	LOUIS LUEBKERT	28.54 <sup>00</sup>	22.67
63C-E	SANTA ANITA DAM	SA	50	1460	34-11-03	118-01-12	FRANK W. WINGER	19.93	19.60
66	SIERRA MADRE-PEGLER RANCH	S	53	650	34-09-27	118-02-36	RICHARD E. LAWYER	16.48	16.47
67G	MONROVIA-MOUNTAIN AVENUE	S	38	602	34-08-46	117-59-05	WATER DEPT. PERSONNEL	11.0	15.44
68C	SAWPIR DAM	SA	51	1375	34-10-30	117-59-07	JAMES T. MCGOWAN JR.	20.20	21.10
73	GLENORA-ENGLEWILD RANCH	SA	51	1165	34-09-22	117-50-57	T.G. KENNARD	15.62	17.47
78B	COLUMBROOK RANGEL STATION	A	27	3280	34-17-26	117-50-26	LACFCO PERSONNEL	45.6	20.7
80B	PRAIRIE FORK	ST	29	5640	34-20-20	117-41-30	LACFCO PERSONNEL	24.33	18.14
81B	VINCENT GAP	ST	24	6590	34-22-26	117-45-05	LACFCO PERSONNEL	29.87	25.44
82F	TABLE MOUNTAIN	S	50	7420	34-22-56	117-40-39	FARL IVIE	13.78	13.11 <sup>0</sup>
83J	BIG PINES RECREATION PARK	SA	49	6800	34-22-44	117-41-20	U.S.F.S. PERSONNEL	24.03	21.75 <sup>0</sup>
85G	MT. BALDY GUARD	S	57	4274	34-14-12	117-39-32	U.S.F.S. PERSONNEL	37.44	26.24 <sup>0</sup>
89B-E	SAN DIMAS DAM	SA	63	1350	34-09-10	117-48-17	BILLY R. MCELARTY	15.86	16.90
91	INDIAN HILL-CLAREMONT	S	48	1403	34-07-22	117-43-11	L. A. KRUSE	11.74	16.51
92	CLAREMONT-POMONA COLLEGE	SA	45	1185	34-05-48	117-42-33	JACK L. MILLER	11.17	16.54
93B	CLAREMONT-POLICE STATION	8.81"	50	1170	34-05-45	117-43-18	POLICE DEPT. PERSONNEL	11.42	15.36
95	SAN DIMAS-FIRE WARDEN	S	50	955	34-06-26	117-46-19	FIRE STATION PERSONNEL	12.04	14.32
96C-E	PUDINGSTONE DAM	SA	50	1030	34-05-31	117-48-24	T. E. ADSPDEL	10.92	14.75
102C	WALNUT-PATROL STATION	S	50	488	34-00-12	117-52-14	FIRE STATION PERSONNEL	17.99	12.93
105C	WHITTIER CITY HALL	S	50	340	33-56-27	118-01-57	MARTHA BILEY	10.55	10.29
107J	DUNNWAY-FIRE DEPT.	S	52	130	33-55-48	118-04-40	FIRE STATION PERSONNEL	9.55	11.23
1080	EL MONTE FIRE STATION	S	50	275	34-04-30	118-02-30	FIRE STATION PERSONNEL	11.47	12.98
108F	EL MONTE AIRPORT	A	3	702	34-05-07	118-01-52	LACFCO	12.2	14.0
1090	WEST ARCADIA	S	52	547	34-07-42	118-04-22	FIRE STATION PERSONNEL	15.20	13.58
110B	ALHAMBRA CITY HALL	S	50	533	34-06-05	118-07-52	WATER DEPT. PERSONNEL	12.28	14.1
111	SOUTH PASADENA CITY HALL	S	50	690	34-06-59	118-09-05	FIRE STATION PERSONNEL	11.55	15.45
115F	INGLEWOOD FIRE STATION	S	55	153	33-57-53	118-21-22	FIRE STATION PERSONNEL	4.69	13.9
117F	COMPTON-FIRE STATION	SA	53	78	33-53-42	118-13-34	FIRE STATION PERSONNEL	8.37	10.23 <sup>00</sup>
118C	WILMINGTON	S	49	40	33-47-27	118-15-30	O. E. ERICKSON	7.82	11.48
1190	SAWTELLE-SOLDIERS* HOME	S	81	345	34-03-21	118-27-20	VET. ADMIN. PERSONNEL	8.90	14.47
120	VINCENT PATROL STATION	S	51	3135	34-29-17	118-08-27	FIRE STATION PERSONNEL	7.46	7.88 <sup>00</sup>
122G	LEONIS VALLEY-RACKETT RANCH	S	49	3200	34-37-52	118-19-22	RACKETT RANCH	12.82	13.33
1243-E	BOUQUET CANYON RESERVOIR	AP	50	3050	34-35-14	118-21-45	D.W.P. PERSONNEL	11.67	11.87
125B	SAN FRANCISCO CANYON POWER HOUSE NO.1	SP	60	2105	34-35-25	118-27-15	D.W.P. PERSONNEL	10.26	14.02
126B	VENICE FIRE STATION	S	49	55	33-59-32	118-27-39	FIRE STATION PERSONNEL	6.09 <sup>0</sup>	13.20 <sup>0</sup>
127B	DRY CANYON RESERVOIR	SP	56	1511	34-28-55	118-31-32	EDWARD FIELDS	9.09 <sup>00</sup>	11.26
128B	ELIZABETH LAKE CANYON	SA	49	2075	34-30-28	118-33-50	ARTHUR L. STEWART	13.34	13.96
130B	SANDBERG-QUAIL LAKE PATROL	S	50	425	34-44-37	118-42-43	ROBERT PHILLIPS	15.19	17.24
140C	SAWTELLE	AP	49	250	34-02-43	118-26-55	L.A. CITY PERSONNEL	8.57 <sup>0</sup>	15.03 <sup>0</sup>
143B	AZUSA-CITY PARK	S	49	610	34-08-03	117-54-17	ARTHUR H. BROWN	12.42	14.73 <sup>00</sup>
144	SIERRA MADRE DAM	S	49	1100	34-10-34	118-02-32	L. CINNAMON	20.23	17.37
156	LA MIRADA-STANDARD OIL COMPANY	SA	44	86	33-53-13	118-00-56	STANDARD OIL CO. PERSONNEL	9.35	10.4
157C	EL SEGUNDO-STANDARD OIL COMPANY	S AP	49	150	33-54-57	118-25-05	STANDARD OIL CO. PERSONNEL	6.81	13.04
158	TANBARK FLATS	SP A	49	2750	34-12-20	117-45-40	U.S.F.S. PERSONNEL	19.84	20.72
167C	ARCADIA PUMPING PLANT NO. 1	S	48	611	34-09-31	118-02-02	FIRE STATION PERSONNEL	16.00	15.80
169	SIERRA MADRE PUMPING PLANT	SP	52	705	34-09-47	118-02-21	L. CINNAMON AND C. ASKEW	17.00	16.03
173F	POTRERO HEIGHTS	S	51	285	34-02-32	118-04-44	S. CALVIN EDINGER	11.89	9.92
177B	DUARTE	S	36	548	34-08-26	117-58-02	JACK L. LUNGRESS	14.73	15.58
174B	GLENORA-WARREN	S	54	930	34-07-43	117-49-08	FIRE STATION PERSONNEL	13.02	15.58
175B	LA CANADA IRRIGATION DISTRICT	S	54	2020	34-13-39	118-12-40	LA CANADA IRRIG. DIST. PERSONNEL	19.72	18.39
176	ALTADENA-RUBIO CANYON	SP	56	1125	34-10-55	118-08-15	LAND & WATER ASSOC. PERSONNEL	16.83	15.42
178C	AZUSA VALLEY WATER COMPANY	A	77	620	34-06-38	117-52-50	LACFCO PERSONNEL	12.1	14.3
179G	BAILEY DEBRIS BASIN	A	82	1180	34-10-25	118-03-38	LACFCO PERSONNEL	21.4	17.5
185	GLENORA-WEST	S	97	822	34-08-23	117-51-33	MERRILL WEST	13.50	16.75
191B	LOS ANGELES-ALCAZAR	SA	25	400	34-03-46	118-11-54	LACFCO PERSONNEL	9.85	12.84
192C	BELL-FIRE STATION	8.81"	49	145	33-56-45	118-11-16	CHIEF J.H. CARROLL	9.87 <sup>00</sup>	10.47 <sup>00</sup>
193B	COVINA TEMPLE	S	74	580	34-04-57	117-52-29	WILLIAM B. TEMPLE	11.21	14.97
196C	LA VERNE-FIRE STATION	S	71	1050	34-06-26	117-46-20	FIRE STATION PERSONNEL	12.74	16.31
198C	BRAND DEBRIS BASIN	8.81"	46	925	34-11-04	118-16-32	LACFCO PERSONNEL	INC	DISC.

# RAINFALL STATION LOCATION AND SEASONAL AMOUNT (CONTD.)

STA. NO.	STATION NAME	TYPE OF GAGE	YEARS OF RECORD	ELEV. OF GAGE	NORTH LAT.	WEST LONG.	OBSERVER	SEASONAL 1975-76	RAINFALL 1976-77
1990	HUNTINGTON PARK	S	50	175	33-59-00	118-13-47	FIRE STATION PERSONNEL	7.80	10.65*
200	SAUGUS-SO.CAL. EDISON CO. SUBSTATION	S	49	1095	34-25-21	118-34-26	S.C.E. CO. PERSONNEL	9.24	10.80
201D	HACIENDA HEIGHTS	A	48	845	33-59-40	117-59-28	LACFCO PERSONNEL	13.1	12.1
208B	ARTESIA	S	59	52	33-51-48	118-04-58	FIRE STATION PERSONNEL	8.08	9.43
210E	BRAND PARK	A	48	1250	34-11-18	118-16-20	LACFCO PERSONNEL	13.9	16.8
213G	LOS ANGELES-HANCOCK PARK	A	48	200	34-03-52	118-21-17	LACFCO PERSONNEL	9.3	14.7
216	GLENDALE-JONES	SP	51	615	34-09-54	118-15-01	JAMES E. JONES	12.37	14.49
219	PACIFICA WAREHOUSE COUNTY FORESTRY	S	47	955	34-15-21	118-24-24	FIRE STATION PERSONNEL	9.37**	14.07**
222C	LANKERSHIM PUMPING PLANT	SP	48	717	34-11-39	118-23-17	D.W.P. PERSONNEL	9.78	16.38
223C-E	BIG DALTON DAM	SA	48	1587	34-10-06	117-48-36	GERALD M. THRASHER	19.95	19.53
224C	LONG BEACH ALAMITOS LAND COMPANY	S	82	240	33-46-01	118-11-49	ALAMITOS LAND CO PERSONNEL	6.77	10.57
225	MONTANA RANCH	S	57	47	33-50-35	118-07-09	LAKEWOOD WATER DEPT. PERSONNEL	7.96	9.72
226B	HURBANK FIRE STATION	S	48	680	34-10-58	118-18-23	FIRE STATION PERSONNEL	11.62	16.39
227J	SAN GABRIEL-BRUINGTON	S	46	472	34-06-18	118-06-32	A.E. BRUINGTON	12.06**	14.38
228B	REVERLY HILLS-CITY HALL	S AP	52	255	34-04-27	118-23-57	FRED E. POWER	8.80	14.31
239C	HENNIGER FLATS	SP A	47	2550	34-11-38	118-05-17	F & FW PERSONNEL	26.01*	21.21
237C-E	STONE CANYON RESERVOIR	SP	52	865	34-06-21	118-27-13	D.W.P. PERSONNEL	9.89	16.41
238	HOLLYWOOD DAM	SP	48	750	34-07-04	118-19-55	D.W.P. PERSONNEL	9.86	15.95
241C	LONG BEACH-CITY HALL	S AP	49	116	33-46-12	118-11-32	CITY OF LONG BEACH PERSONNEL	6.79**	10.44*
245C	CULVER CITY	SP	42	100	34-01-17	118-23-41	FIRE STATION PERSONNEL	INC.	DISC.
2500	ACTON CAMP	A	42	2625	34-27-02	118-11-55	ACTON CAMP PERSONNEL	9.4	8.33
251C	LA CRESCENTA	S	56	1440	34-13-20	118-14-40	LA CRES. VAL. WATER DIST. PERS.	16.54	17.00*
252C-E	CASTAIC DAM HD	SP	14	1150	34-27-53	118-36-53	D.W.R. PERSONNEL	9.49	11.37
255F	MT. SAN ANTONIO COLLEGE	S	47	720	34-02-41	117-50-19	J.G. PAGE	13.16	14.27
256C	POMONA FIRE STATION	S	59	844	34-03-16	117-45-10	FIRE STATION PERSONNEL	10.00*	14.77**
257	GRIFFITH PARK NURSERY	S	46	850	34-07-18	118-17-04	WILLIAM S. TOLIN	11.39	15.59
259J	CHATS WORTH-TWIN LAKES	SA	47	1275	34-16-43	118-35-41	D.C. CULBREATH	9.13	13.36
261F	ACTON-ESCONDIDO CANYON	A	81	2960	34-29-42	118-16-22	LACFCO PERSONNEL	8.5	8.3
265D	PUEBLO HILLS	S	52	645	33-57-08	117-55-26	P.J. WEISEL JR.	12.60	11.94
269C	DIAMOND BAR-HORSE CAMP	SP AP	47	870	33-59-40	117-48-54	U.S.C.E. PERSONNEL	11.19	13.21
272D	L.A. HEADWORKS PUMPING PLANT	S	47	470	34-09-21	118-18-02	J.V. ELLERMAN	11.62	17.84*
274B	ACTON-HURBARD	SP	78	3490	34-31-31	118-13-58	MRS. GUY S. LEE	7.50	6.96
277	SAN MILL MOUNTAIN RANCH	S	46	3700	34-43-15	118-35-00	RANCH PERSONNEL	16.61	18.54*
278B	LOS ANGELES-CLARK MEMORIAL LIBRARY	S	47	203	34-02-00	118-18-40	FRANK OROON	8.20	12.79
280C	SACRED HEART ACADEMY	A	45	1600	34-10-54	118-11-08	LACFCO PERSONNEL	17.08**	18.4
283C	CRYSTAL LAKE	SA	46	5370	34-19-02	117-50-28	U.S.F.S. PERSONNEL	30.84	23.52*
2840	PLACERITA CANYON	S	49	1485	34-22-37	118-28-43	SAM HURT	15.52	18.02
287B	GLENORA	R. 31"	48	785	34-08-09	117-51-52	CITY OF GLENORA PERSONNEL	13.56	18.28
287	LAGUNA-BELL-S.C.E.CO. SUBSTATION	SP	47	140	33-58-37	118-08-48	S.C.E.CO. PERSONNEL	9.28	10.78
292B	MONTEREY PARK-FIRE STATION	S	27	305	34-02-27	118-07-42	FIRE STATION PERSONNEL	10.25	13.30*
291	L.A.-96TH AND CENTRAL	A	47	121	33-56-56	118-15-17	LACFCO PERSONNEL	7.5	12.3
2920-E	FNCINU RESERVOIR	SA	49	1075	34-27-33	118-09-20	E.E. HARDIN	9.43	15.49
293E	VAN NORMAN LAKE-L.A. RESERVOIR	SP	49	1150	34-17-18	118-28-54	D.W.P. PERSONNEL	10.35	14.63
294B	SIERPA MADRE-MIRA MONTE PUMPING PLANT	SP	47	985	34-10-11	118-02-51	C. ASKEW AND L. CINNAMON	19.41	17.02
298L	GORMAN - SHERIFF	S	5	3935	34-47-47	118-51-27	J. SYLVIES	12.35	14.34
299F	LITTLE ROCK	S	47	2900	34-31-35	117-58-30	BILL SCHMIOT	6.47**	7.21*
299G	LITTLE ROCK-SCHMIOT	S	2	2900	34-32-12	117-58-43	REUBEN J. SCHWAB	6.06*	7.22
303F	PASADENA-CAL TECH	SA	46	800	34-08-16	118-07-25	DR. V.H. BROOKS	14.20	15.84
304	SAWPIIT CANYON-DEER PARK	A	47	2690	34-11-18	117-57-52	LACFCO PERSONNEL	28.4	27.7
306H	ZUMA BFACH	S	37	15	34-01-15	118-49-42	L.A.CO. LIFE GUARDOS	11.52	10.77
321-E	PINE CANYON PATROL STATION	SA	46	3286	34-40-24	118-25-45	FIRE STATION PERSONNEL	12.84	16.11
327	MUNZ VALLEY RANCH	S	47	2600	34-42-50	118-21-15	ARNOLD MUNZ	7.10	10.83
334B-E	COGSWELL DAM	SA	45	2300	34-14-37	117-57-35	R.A. WINDER	26.90	24.52
336-E	SILVER LAKE RESERVOIR	SP AP	47	445	34-06-08	118-15-54	D.W.P. PERSONNEL	9.29	14.46
338A	MT. WILSON OBSERVATORY	S	45	5675	34-13-32	118-03-41	T. CRAGG	32.53	INC.
339B	MT. WILSON AIRWAYS	SP	38	5709	34-13-36	118-03-57	MARCIA E. WINN	38.32	29.68
341	ALISO CANYON-BLUM RANCH	S	46	2900	34-27-33	118-09-20	ELIZABETH BILLET	9.04	18.85
342C	UPLAND EUCLID PUMPING PLANT	SP AP	45	1610	34-07-33	117-40-52	THOMAS R. CHAPPELL	12.89	15.97
347-E	BALDWIN PARK EXPERIMENTAL STATION	S	45	386	34-05-36	117-57-40	LACFCO PERSONNEL	11.97	13.55
349D	CAMP RINCON	R. 81"	45	1510	34-14-28	117-51-45	LACFCO PERSONNEL	19.94	20.73
352B	LECHUZA PATROL STATION	S AP	45	1620	34-04-38	118-52-47	FIRE STATION PERSONNEL	12.35	14.45
355G	LOS ANGELES-CITY COLLEGE	S AP	44	310	34-05-14	118-17-28	METEOROLOGICAL DEPARTMENT	8.89	15.81
356C	SPADRA-PACIFIC COLONY	SA	33	690	34-02-31	117-48-35	J. E. STULL	11.07	14.63
357	VAN NORMAN LAKE-UPPER	SP AP	49	1248	34-18-49	118-29-30	D.W.P. PERSONNEL	10.79	15.56
363C	WILSON CANYON	ST	22	3175	34-21-17	118-27-00	LACFCO PERSONNEL	19.34	18.30
364B	HAINES CANYON-LOWER	S	59	2530	34-15-56	118-16-07	JAMES P. KINDRED	20.83	20.31
365C	MT. LUKENS	SP	31	5040	34-16-05	118-14-06	U.S.F.S. PERSONNEL	13.03	12.54
367	HAINES CANYON-UPPER	SP A	44	3442	34-16-18	118-15-07	JAMES P. KINDRED	28.09	21.85*
372	SAN FRANCISQUITO POWER HOUSE NO. 2	SP A	47	1580	34-32-02	118-31-27	D.W.P. PERSONNEL	10.98	13.68
373C	BRIGGS TERRACE	SA	43	2200	34-14-17	118-13-27	R.T. SIENS	19.95	18.87
377F	LAKE SHERWOOD ESTATES	SP	62	960	34-08-26	118-52-31	FIRE STATION PERSONNEL	10.90	13.68
379B	SAN GABRIEL-EAST FORK	SA	44	1600	34-14-09	117-48-18	LACFCO PERSONNEL	19.64	19.28
385C	ZUMA CANYON-OAKLEY	S	42	1500	34-04-58	118-49-38	BEATRIZ OAKLEY	15.63	16.28
387B	COVINA CITY YARD	SP	42	508	34-05-02	117-53-57	CITY OF COVINA PERSONNEL	10.81	13.10
388D	PARAMOUNT-CD. FIRE STATION	R. 81"	42	80	33-53-50	118-10-02	FIRE STATION PERSONNEL	7.22	8.71*
390B-E	MORRIS DAM	SP	47	1210	34-10-53	117-52-43	EVERETT PUTNAM	17.77	17.18
391C	MONTEBELLO-FIRE DEPARTMENT	R. 81"	35	250	34-01-08	118-06-15	FIRE STATION PERSONNEL	9.46	11.51
394	HIGHLAND PARK-LINDSAY	S	82	620	34-07-06	118-10-39	MRS. ELISABETH S. STEVENS	12.04	15.79
395J	OLIVE VIEW SANITARIUM	S	43	1425	34-19-29	118-26-55	LACFCO PERSONNEL	12.61	16.68
402F	CEDAR SPRINGS	A	39	6780	34-21-41	117-52-34	LACFCO PERSONNEL	23.6	19.6
405B	SOLEDAD CANYON	S	41	2150	34-20-23	118-17-33	B. CHAPMAN	11.19	10.68
406C	WEST AZUSA	S	41	505	34-06-53	117-54-56	L. BROWN & E. HECK	12.12	13.25
409E	RIDGE ROUTE-STATE HWY MAINTENANCE STATION	SP AP	41	2505	34-40-34	118-46-47	D.W.P. PERSONNEL	11.64	12.55
415	SIGNAL HILL-CITY HALL	SA	40	140	33-47-49	118-10-03	R. B. WEEKS	6.76	10.04
419B	SANTA CLARA RIDGE-MT. GLEASON	ST	37	5420	34-22-36	118-12-23	LACFCO PERSONNEL	INC.	11.08**
420C	ACTON-COLOMBO RANCH	S	40	3000	34-25-41	118-11-52	CHRISTOPHER C. BREVIORRO	8.44**	9.06
422G	PACIFICA CANYON	S	42	2075	34-20-51	118-22-12	MRS ENGLISH	21.29**	21.08
423C	ANGELES FOREST-ALISO CANYON	S	40	3910	34-24-56	118-05-26	LACFCO PERSONNEL	13.33	13.00**
425B-E	SAN GABRIEL DAM	SA	39	1481	34-12-19	117-51-38	TONY H. GEORGE	20.33	19.80
432	SANTA ANITA-FERN LODGE	S	39	2035	34-12-32	118-01-03	LOUIS LUEBKERT	24.40	22.47
433C	FAIR OAKS OEBRIS BASIN	A	39	1585	34-12-15	118-08-18	LACFCO PERSONNEL	20.18	18.6
434	AGOURA	SA	39	800	34-08-08	118-45-08	FIRE STATION PERSONNEL	8.95	11.49
435	MONTE NIDO	SA	39	600	34-04-41	118-41-35	FIRE STATION PERSONNEL	10.30	16.25
436C	HANSEN DAM	AP	39	1110	34-16-08	118-23-59	U.S.C.E. PERSONNEL	10.83	14.17
440D	CHILAO-USFS CAMP	S	38	5220	34-20-00	118-01-23	U.S.F.S. PERSONNEL	18.59	19.49*





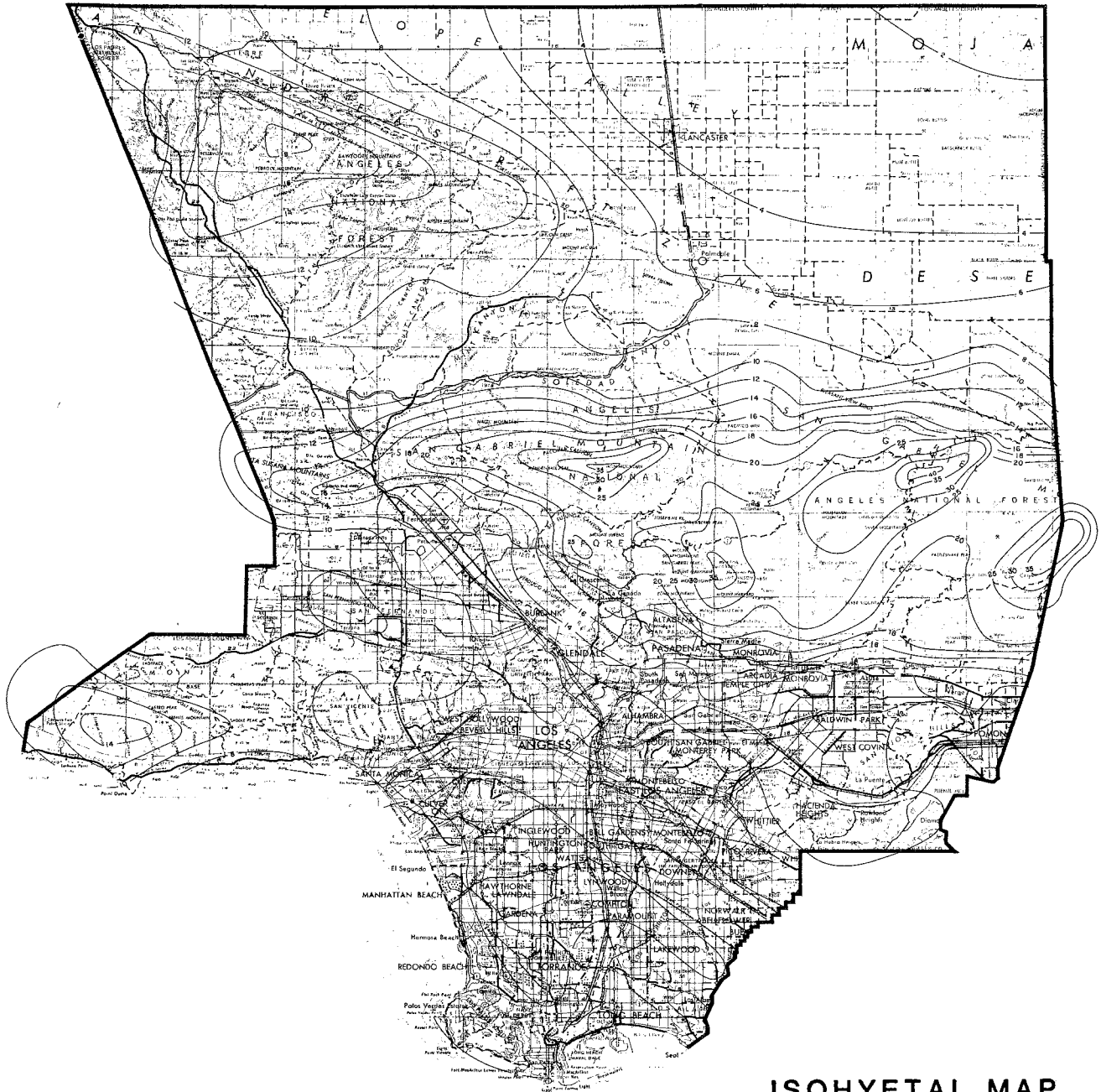


# RAINFALL STATION LOCATION AND SEASONAL AMOUNT (CONTD.)

STA. NO.	STATION NAME	TYPE OF GAGE	YEARS OF RECORD	ELEV. OF GAGE	NORTH LAT.	WEST LONG.	OBSERVER	SEASONAL 1975-76	RAINFALL 1976-77
1159	SHORTCUT CANYON-WEST FORK	A	11	4425	34-15-55	118-04-08	LACFCO PERSONNEL	28.9	25.5
1160	SAN GABRIEL CANYON WEST FORK HELIPORT	A	13	3200	34-15-02	118-01-30	LACFCO PERSONNEL	26.0	23.1
1162	IRON MOUNTAIN	ST	14	5320	34-21-06	118-13-42	LACFCO PERSONNEL	42.81	15.49
1166B	MILE HIGH RANCH	S	5		34-24-40	117-46-15	JAMES KIRBY	13.69 <sup>est</sup>	15.71 <sup>est</sup>
1167	FENNER CANYON	S	12	5380	34-23-25	117-46-27	PROBATION DEPT. PERSONNEL	15.29 <sup>est</sup>	16.56
1169B	LAKE PIRU	SP	23	1145	34-28-22	118-45-21	FRANK C. BECKWITH	10.48	13.83
1170B	THOUSAND OAKS WEATHER STATION	A	21	905	34-10-44	118-51-01	VENTURA COUNTY FLOOD CONTROL	9.03	11.99
1171B	CAMULOS RANCH	SA	21	725	34-24-20	118-45-21	JACK HARRING	9.85	13.02
1172	PIRU CANYON ABOVE PIRU LAKE	AP	21	1150	34-30-48	118-45-24	FRANK C. BECKWITH	9.73	14.04
1173A	TAPO CANYON	AP	16	1525	34-12-54	118-42-41	SOIL CON. PERSONNEL	11.35	12.68
1177B	LAKE BARD	A	11	1010	34-14-32	118-49-41	A.L. ALGAR	6.91	9.17
1183B	LA HABRA FIRE STATION	SP	48	315	33-55-53	117-57-17	FIRE STATION PERSONNEL	9.95	11.66
1184	SAN FRANCISQUITO CANYON CAMP 4	S	9	1840	34-33-55	118-28-28	WILLIAM SMITH	9.94 <sup>est</sup>	12.15
1187	MILLARD-CAMP SIERRA	STP	6	2760	34-13-04	118-07-58	U.S.F.S. PERSONNEL	21.29	17.33
1188	EATON-MARKHAM SADDLE	SP	6	5400	34-14-31	118-05-38	U.S.F.S. PERSONNEL	15.80	14.17
1190	PACUIMA CANYON NORTH FORK RANGER STATION	SA	8	4180	34-23-17	118-15-06	USFS PERSONNEL	17.90	15.91
1191	BEAR-DIVIDE USFS STATION	S	7	2700	34-21-35	118-23-37	USFS PERSONNEL	21.82	20.83
1192	CARSON FIRE STATION	8.81"	4	92	33-52-04	118-15-49	FIRE STATION PERSONNEL	7.93	8.81
1193	WESTLAKE VILLAGE	S	4	885	34-08-19	118-49-05	FIRE STATION PERSONNEL	8.59	12.36 <sup>est</sup>
1194	SANTA YNEZ RESERVOIR	S	10	735	34-04-23	118-33-59	D.W.P. PERSONNEL	8.94	13.51
1195	CHINO FIRE STATION #2	SP	33	655	33-59-00	117-43-20	S.B.C.F.C.D.	9.95	13.34
1196	MONTCLAIR FIRE DEPARTMENT	S	20	965	34-03-41	117-41-16	S.B.C.F.C.D.	11.47	15.54
1197	CAJON WEST SUMMIT	AP	34	4838	34-23-00	117-35-00	S.B.C.F.C.D.	12.90	11.5
1198	PHELAN FIRE CONTROL	SP	20	4160	34-25-30	117-34-00	S.B.C.F.C.D.	9.29	7.38 <sup>est</sup>
1199	CLOUDCROFT DEBRIS BASIN	A	4	350	34-02-58	118-34-12	LACFCO PERSONNEL	8.7	4.4 <sup>est</sup>
1201	HIDDEN HILLS	S	2	1135	34-10-04	118-40-03	CULLEEN HARTMAN	9.91	14.29 <sup>est</sup>
1202	CAMP CISQUITO	S	2	2640	34-36-58	118-24-17	LEWIS WARD	13.52	14.31 <sup>est</sup>
1203	LITTLE TUJUNGA-ALOFR CREEK	ST	2	2625	34-20-03	118-10-50	LACFCO	23.12	16.68
1204-E	ACTON SCHOOL	S	2	2760	34-24-23	118-11-44	STUDENTS	7.59 <sup>est</sup>	INC.
1205	MOODY SPRING	ST	2	2915	34-36-04	117-40-23	LACFCO	3.57	6.81
1206	MURCO	ST	2	2310	34-46-26	117-55-03	LACFCO	2.65	INC.
1207	ROSAMOND WEST	ST	2	2340	34-49-14	118-11-35	LACFCO	3.28	5.40
1208	LA CRESCENTA-VERGITH	S	1	1707	34-14-30	118-15-25	CHUCK VERGITH	4.14	INC.
1212	LANCASTER FSS/FAA	S	3	2340	34-04	118-13	DEPT. OF TRANSPORTATION	4.09	5.81
X150	HI VISTA	S	26	3087	34-44-31	117-44-43	MARY SCHAEFFER	4.74	4.38
X19	COOKS CANYON	SP	21	3400	34-15-52	118-15-11	T. ARNOT	16.85	16.31
X21B	DUNSMORE CANYON-UPPER	SP	21	3290	34-15-38	118-13-47	T. ARNOT	20.00	17.17
X22	ISLIP SADDLE	ST	20	6680	34-21-27	117-51-05	LACFCO PERSONNEL	20.68 <sup>est</sup>	29.00
X23	ODRR CANYON	ST	20	7280	34-22-16	117-45-51	LACFCO PERSONNEL	31.75	26.05
X24	GRASSY HOLLOW	ST	20	7360	34-22-30	117-43-05	LACFCO PERSONNEL	14.87	15.07
X25	BEAR GULCH	ST	20	7880	34-21-58	117-41-27	LACFCO PERSONNEL	22.90	19.31
X26	BLUE RIDGE	ST	20	8450	34-23-57	117-40-23	LACFCO PERSONNEL	15.64	12.31
X27	GUFFY'S CAMP	ST	20	8080	34-20-20	117-38-55	LACFCO PERSONNEL	18.59	15.47
X28B	HOLIDAY HILL	A	20	8130	34-21-29	117-40-54	LACFCO PERSONNEL	21.7	16.9
X43	EAGLE DEBRIS BASIN	8.81"	18	1890	34-14-07	118-14-12	LACFCO PERSONNEL	18.25 <sup>est</sup>	14.22 <sup>est</sup>
X42B	HOOK DEBRIS BASIN	S	9	1250	34-39-15	117-52-35	LACFCO PERSONNEL	9.67 <sup>est</sup>	16.28
X43	HARLOW DEBRIS BASIN	8.81"AP	9	1275	34-39-26	117-51-40	LACFCO PERSONNEL	13.46 <sup>est</sup>	4.24
X44	ENGLEWILD DEBRIS BASIN	8.81"	9	1310	34-39-25	117-50-48	LACFCO PERSONNEL	14.11 <sup>est</sup>	DISC.

LEGEND REGARDING GAGE TYPE, OWNERSHIP, AND RAINFALL AMOUNTS

- S STANDARD 8" DIA. NON-RECORDING GAGE OWNED BY FLOOD CONTROL DIST.
- A AUTOMATIC RECORDING GAGE OWNED BY FLOOD CONTROL DISTRICT
- ST STORAGE TYPE GAGE OWNED BY FLOOD CONTROL DISTRICT
- 8.81" 8.81" DIAMETER NON-RECORDING GAGE OWNED BY FLOOD CONTROL DISTRICT
- 3" 3" DIAMETER NON-RECORDING GAGE OWNED BY OUTSIDE INTERESTS
- 4 1/2" 4 1/2" DIAMETER NON-RECORDING GAGE OWNED BY OUTSIDE INTERESTS
- SP 8" DIAMETER NON-RECORDING GAGE OWNED BY OUTSIDE INTERESTS
- AP AUTOMATIC RECORDING GAGE OWNED BY OUTSIDE INTERESTS
- SUFFIX B OR C DENOTES SECOND OR THIRD LOCATION OF STATION IN SAME AREA
- SUFFIX E DENOTES EVAPORATION PAN AT STATION
- est ESTIMATED GREATER THAN 10% OF TOTAL
- est ESTIMATED LESS THAN 10% OF TOTAL
- INC. INCOMPLETE RECORD
- NI. NOT INSTALLED
- NR. NO RECORD
- DISC. STATION DISCONTINUED



**ISOHYETAL MAP  
1975-76 SEASON**



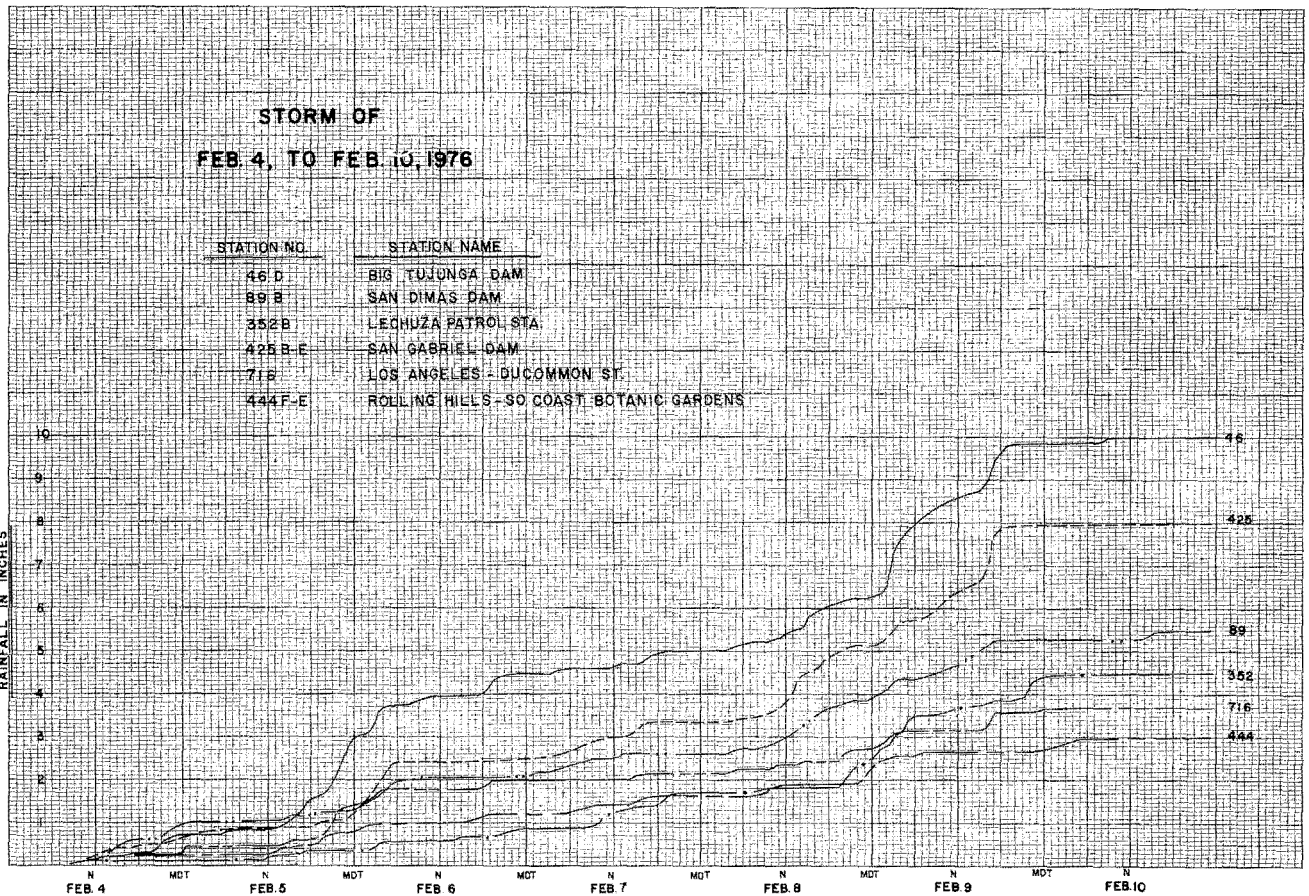
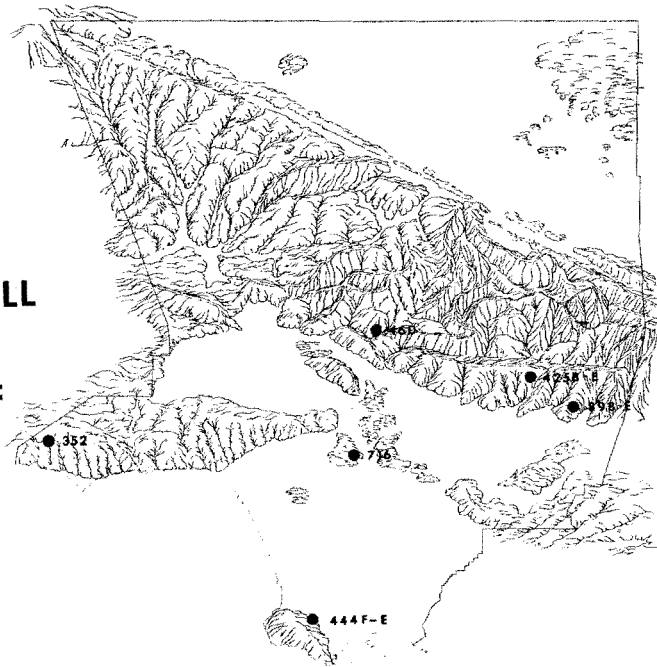
ISOHYETAL MAP  
STORM OF FEBRUARY 4-10, 1976





ISOHYETAL MAP  
STORM OF MAY 8-10, 1977

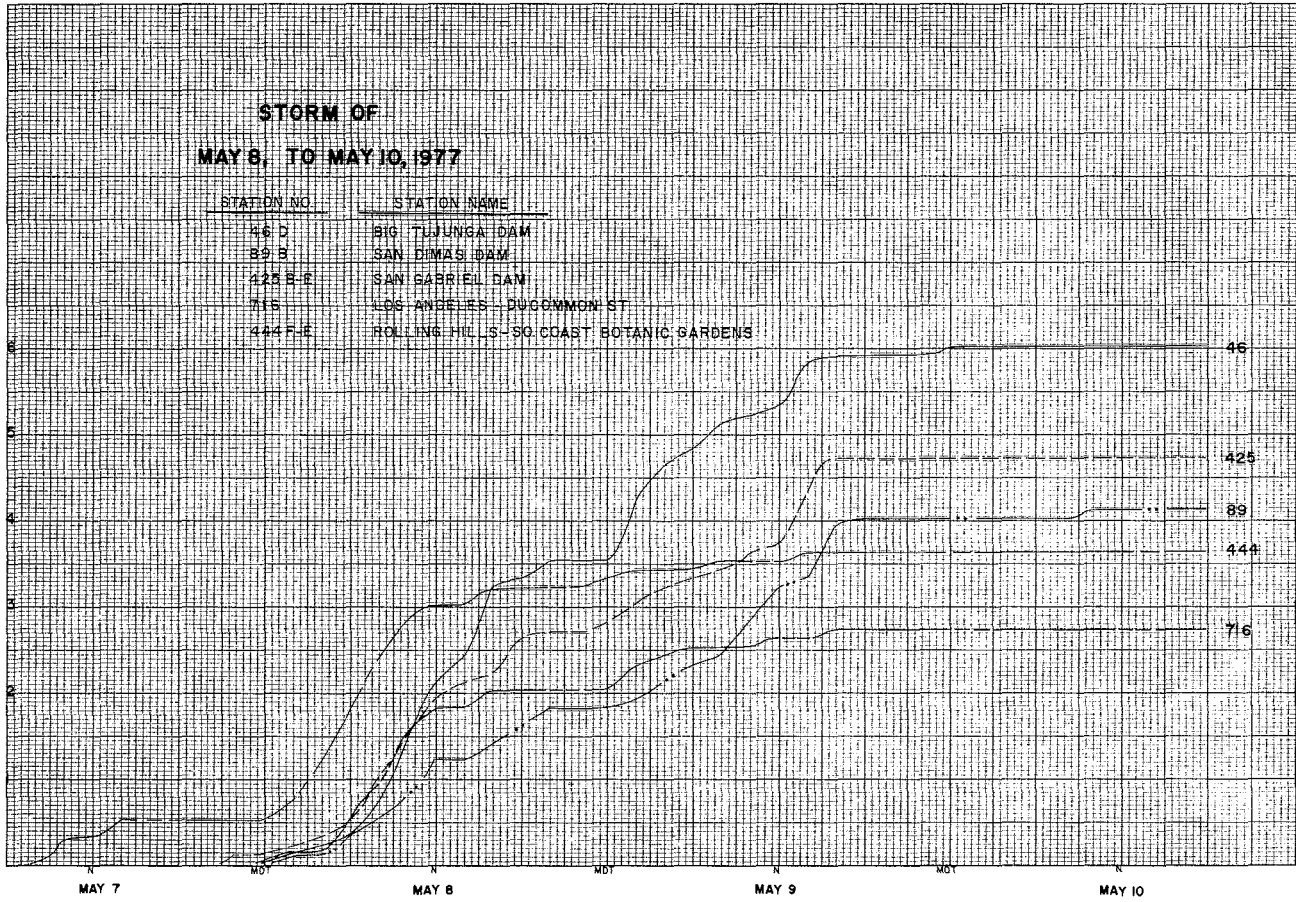
# MASS CURVES OF RAINFALL AT SELECTED STATIONS FOR MAJOR STORM OF THE SEASON



**STORM OF  
MAY 8, TO MAY 10, 1977**

STATION NO.	STATION NAME
46 D	BIG TUJUNGA DAM
89 B	SAN DIMAS DAM
425 E-F	SAN GABRIEL DAM
716	LOS ANGELES - DUGGCOMMON ST
444 F-H	ROLLING HILLS - SO. COAST BOTANIC GARDENS

RAINFALL IN INCHES



**STATION NO. 5B  
CALABASAS**



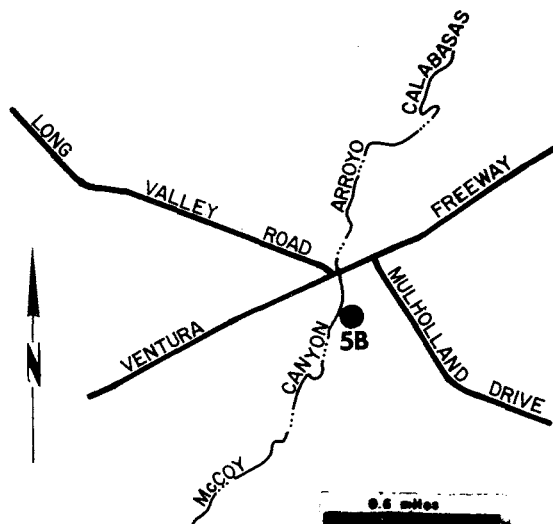
LOCATION  
Residence:  
4803 El Canon Avenue  
South of Ventura Boulevard  
Calabasas

LATITUDE  
34° 09' 24"

LONGITUDE  
118° 38' 14"

ELEVATION  
924'

LENGTH OF RECORD  
non-recording rain gage  
7/1/39 to date



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

Station No. 5B  
Foreign Station No. \_\_\_\_\_  
Quad-Index No. 25-64

SEASONAL RAINFALL AT Calabasas SEASON 1975-76  
Record Furnished by \_\_\_\_\_ Copied by \_\_\_\_\_ Date Copied \_\_\_\_\_

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1						.35						
2						.17						
3						.40						
4							.30					
5					.16							
6					.86							
7					.35			.07				
8					.91		.12					
9					1.90							
10					.71	.05			.12			1.66
11	.06											.43
12			.09				.05					
13			.10				.40					
14												
15							.02				.09	
16												
17												
18												
19												
20												
21												
22										.02		
23												
24					.03							
25												
26												
27												
28												
29												.11
30	.18											.04
31												
<b>TOTAL</b>	.24	0	.19	0	4.92	.97	.89	.07	.12	.02	.09	2.24

SEASON TOTAL 9.75



STATION NO. 5B  
CALABASAS

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

Station No. 5B  
Foreign Station No.  
Quad-Index No. 35-64

SEASON RAINFALL

1927-28	12.35*
1928-29	11.23
1929-30	11.86*
1930-31	14.98
1931-32	19.68
1932-33	12.57*
1933-34	11.44
1934-35	19.83
1935-36	10.96
1936-37	23.16
1937-38	23.08
1938-39	22.72 B
1939-40	16.16
1940-41	41.92
1941-42	12.64
1942-43	27.25
1943-44	27.31
1944-45	14.64
1945-46	14.62
1946-47	12.20
1947-48	7.81
1948-49	8.14
1949-50	10.78
1950-51	8.18
1951-52	32.82
1952-53	12.03
1953-54	15.19
1954-55	15.24**
1955-56	15.32
1956-57	11.80
1957-58	30.81
1958-59	9.97
1959-60	10.23
1960-61	6.19
1961-62	23.99
1962-63	13.69
1963-64	9.91
1964-65	16.34
1965-66	24.64
1966-67	20.29
1967-68	18.44
1968-69	33.02
1969-70	12.83
1970-71	19.21
1971-72	9.55
1972-73	23.70
1973-74	17.66
1974-75	14.77
1975-76	9.75
1976-77	13.08

SEASONAL RAINFALL AT Calabasas SEASON 1976-77  
Record Furnished by..... Copied by..... Date Copied.....

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1												
2				.06								
3				1.41								
4												
5				.07								
6				1.13								
7				.75				.47				
8								2.25				
9								.91				
10												
11												
12								.07				
13		.29										
14												
15												
16						.65						
17						.25					2.38	
18											.15	
19												
20												
21	.10											
22												
23					.08							
24					.03			.09				
25						1.16						
26												
27												
28				.10								
29												
30				.67								
31				.01								
TOTAL	.10	.29	.68	3.52	.11	2.06	0	3.79	0	0	2.53	0

SEASON TOTAL 13.08

B = STATION MOVED TO B LOCATION JULY 1, 1939  
\* = ESTIMATED GREATER THAN 10% OF THE TOTAL  
\*\* = ESTIMATED LESS THAN 10% OF THE TOTAL

**STATION NO. 6  
TOPANGA**



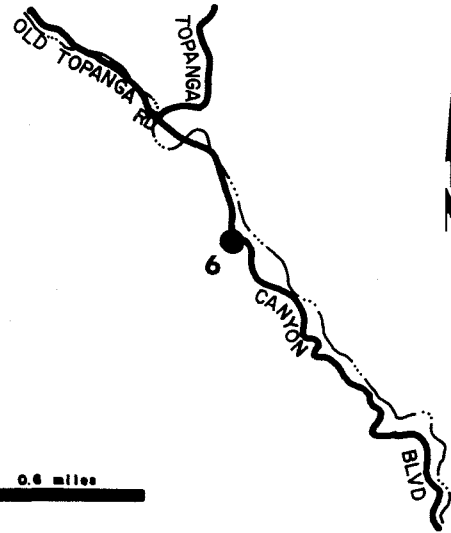
LOCATION  
L.A. County  
F. & F.W. Fire Station  
401 S. Topanga Canyon Blvd.,  
Topanga, Malibu Mountains

LATITUDE  
35° 05' 03"

LONGITUDE  
118° 35' 57"

ELEVATION  
745'

LENGTH OF RECORD  
non-recording rain gage  
10/25/27 to 8/1/75  
recording rain gage  
8/1/30 to date



LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

Station No. 6  
Foreign Station No. \_\_\_\_\_  
Quad-Index No. 24-01

SEASONAL RAINFALL AT Topanga Patrol Station SEASON 1975-76  
Record Furnished by \_\_\_\_\_ Copied by \_\_\_\_\_ Date Copied \_\_\_\_\_

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1						1.0						
2												
3						.6						
4							.2					
5					.3		.2					
6					.9							.1
7					.4							.1
8					.7		.1					
9					2.1							
10					.5				.1			.6
11	.4					.1						1.7
12							.1					.2
13			.1				.3					
14												
15							.1					
16												
17												.1
18												
19												
20												
21												
22										.3		
23												
24												
25												
26												
27												
28												
29												.2
30												.1
31												
<b>TOTAL</b>	.4	0	.1	0	4.9	1.7	1.0	0	.1	.3	0	3.1

SEASON TOTAL 11.6

STATION NO. 6  
TOPANGA

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

Station No. 6  
Foreign Station No.  
Quad-Index No. 24-01

SEASON RAINFALL

1927-28 14.50  
1928-29 20.46  
1929-30 18.39  
1930-31 24.89  
1931-32 28.07  
1932-33 18.39  
1933-34 26.74  
1934-35 25.21  
1935-36 22.52  
1936-37 33.96  
1937-38 38.74  
1938-39 24.61  
1939-40 23.28  
1940-41 54.64  
1941-42 18.19  
1942-43 32.96  
1943-44 28.35  
1944-45 20.04  
1945-46 19.89  
1946-47 19.44  
1947-48 10.92  
1948-49 12.65  
1949-50 18.36  
1950-51 12.62  
1951-52 45.24  
1952-53 14.92  
1953-54 21.36  
1954-55 20.25  
1955-56 24.38  
1956-57 17.65  
1957-58 40.26  
1958-59 11.67  
1959-60 15.86  
1960-61 8.96  
1961-62 39.55  
1962-63 16.35  
1963-64 12.99  
1964-65 19.65  
1965-66 31.29  
1966-67 38.63  
1967-68 20.94  
1968-69 48.99  
1969-70 12.68  
1970-71 24.00  
1971-72 11.85  
1972-73 32.96  
1973-74 25.30  
1974-75 22.81  
1975-76 11.6  
1976-77 16.60

SEASONAL RAINFALL AT Topanga Patrol Station SEASON 1976-77  
Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	.1			.3								
2												
3				3.0								
4												
5												
6				.8								
7				1.3								
8				.1				.8				
9								1.9				
10								.5				
11												
12								.1				
13		.9										
14												
15												
16						.1						
17						.7					1.1	
18						.4					1.5	
19												
20												
21												
22												
23												
24	.1				.2							
25					.1	1.4						
26												
27												
28												
29				.1								
30				.3								
31				.9								
<b>TOTAL</b>	.2	.9	1.2	5.5	.3	2.6	0	3.3	0	0	2.6	0

SEASON TOTAL 16.6

**STATION NO. 15A  
VAN NUYS**



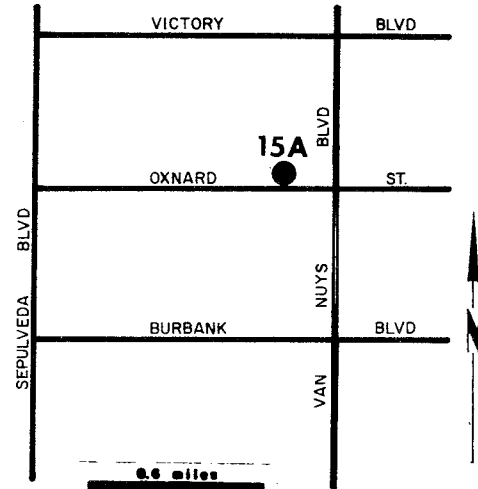
LOCATION  
Los Angeles DWP Service Yard  
Aetna and Vesper Streets  
Van Nuys

LATITUDE  
34° 10' 48"

LONGITUDE  
118° 27' 03"

ELEVATION  
695'

LENGTH OF RECORD  
non-recording rain gage  
10/1/25 to date



LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

Station No. 15A  
Foreign Station No. ....  
Quad-index No. 37-42

SEASONAL RAINFALL AT Van Nuys SEASON 1975-76  
Record Furnished by..... Copied by..... Date Copied.....

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1						.22						
2												
3						.41						
4					.12		.32					
5					.17							.77
6	T				.63							
7					.79			.11				
8					.49		.10					
9					2.08							
10					.65	.04			.10			1.45
11	.14											.25
12			.08									
13			.16				.13					
14							T					
15							.02				.08	
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												.03
30	.05											
31	T											
TOTAL	.19	0	.24	0	4.53	.67	.57	.11	.10	0	.08	2.50

SEASON TOTAL 8.99

STATION NO. 15B  
VAN NUYS

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

Station No. 15A  
Foreign Station No.  
Quad-Index No. 37-42

SEASON RAINFALL

1925-26	17.26
1926-27	19.32
1927-28	9.60
1928-29	10.37
1929-30	11.16
1930-31	15.45
1931-32	19.11
1932-33	13.36
1933-34	12.70
1934-35	18.14
1935-36	9.86
1936-37	21.96
1937-38	23.91
1938-39	20.62
1939-40	15.83
1940-41	39.77
1941-42	13.18
1942-43	24.21
1943-44	23.39
1944-45	11.31
1945-46	12.37
1946-47	14.16
1947-48	7.81
1948-49	7.17
1949-50	8.69
1950-51	7.07
1951-52	28.56
1952-53	11.14
1953-54	12.37
1954-55	13.48
1955-56	14.29
1956-57	11.94
1957-58	23.68
1958-59	8.95
1959-60	8.63
1960-61	6.26 B
1961-62	22.44
1962-63	9.45
1963-64	7.96
1964-65	13.38*
1965-66	20.72
1966-67	19.05
1967-68	13.46**
1968-69	28.16
1969-70	10.72
1970-71	14.97 A
1971-72	7.15
1972-73	19.35
1973-74	15.27
1974-75	15.12
1975-76	8.99
1976-77	13.17

SEASONAL RAINFALL AT Van Nuys SEASON 1976-77  
Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1								T				
2												
3				1.55								
4												
5				T								
6				1.39					T			
7				.81				.01				
8								.51				
9								2.56				
10								.43				
11												
12		.61						.14				
13								T				
14		.02										
15												
16						.56					T	
17						.16					2.52	
18											.13	
19												T
20				T								
21	.01			.09								
22	.02											
23	T				.13			T				
24					.03	T		.11				
25						.82						
26						.01						
27												
28												
29												
30				.55								
31			T									
TOTAL	.03	.63	.55	3.84	.16	1.55	0	3.76	T	0	2.65	T

SEASON TOTAL 13.17

- A = STATION MOVED BACK TO ORIGINAL LOCATION MARCH 6, 1970
- B = STATION MOVED TO B LOCATION JANUARY 1, 1961
- \* = ESTIMATED GREATER THAN 10% OF THE TOTAL
- \*\* = ESTIMATED LESS THAN 10% OF THE TOTAL

**STATION NO. 32C  
NEWHALL**



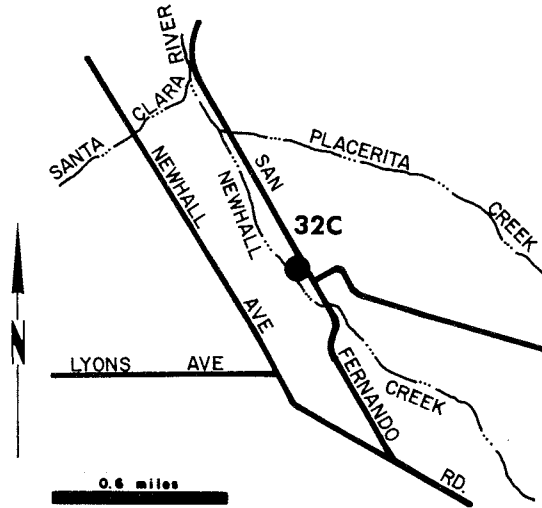
LOCATION  
L.A. Co. F & FW Fire Station  
24869 San Fernando Road  
Newhall

LATITUDE  
34° 23' 07"

LONGITUDE  
118° 31' 54"

ELEVATION  
1243'

LENGTH OF RECORD  
non-recording rain gage  
10/24/27 to date  
recording rain gage  
6/4/68 to 2/4/71



LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

Station No. 32C

Foreign Station No.

Quad-Index No. 58-61

SEASONAL RAINFALL AT Newhall-Soledad Div. Headquarters SEASON 1975-76

Record Furnished by..... Copied by..... Date Copied.....

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1						.32						
2						.08						
3						.52						
4					.13		.13					.06
5					.38							
6					1.12							.24
7	T				.77			.13				
8					1.32		.07					
9					2.24							T
10					.34	.33			.30			1.59
11	.19						.05					.93
12	.04		.05									
13	T		.03				.13					
14												
15							.01					
16												
17												
18												
19												
20												
21												
22										.01		
23												
24												
25												
26												
27												
28		.03										
29												.01
30	.10											
31												
<b>TOTAL</b>	.33	.03	.08	0	6.30	1.25	.39	.13	.30	.01	0	2.83

SEASON TOTAL 11.65

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

Station No. 32C  
Foreign Station No.  
Quad-Index No. 58-61

STATION NO. 32C-E  
NEWHALL

SEASON RAINFALL

1927-28	10.45
1928-29	14.08
1929-30	10.60
1930-31	18.44**
1931-32	22.27
1932-33	16.03
1933-34	13.99
1934-35	19.97
1935-36	10.75
1936-37	25.67
1937-38	25.68
1938-39	20.66
1939-40	12.41
1940-41	44.65
1941-42	12.88
1942-43	30.33
1943-44	27.27
1944-45	12.43 B
1945-46	15.92 C
1946-47	16.46
1947-48	7.57
1948-49	9.50
1949-50	9.32
1950-51	6.97
1951-52	32.56
1952-53	11.06
1953-54	14.55
1954-55	14.34
1955-56	16.88
1956-57	13.42
1957-58	31.48
1958-59	9.73
1959-60	8.78
1960-61	7.05
1961-62	27.44
1962-63	10.47
1963-64	8.68
1964-65	14.46
1965-66	24.59
1966-67	25.50
1967-68	14.54
1968-69	32.09
1969-70	12.16
1970-71	16.99
1971-72	9.98
1972-73	21.12
1973-74	15.34
1974-75	15.77
1975-76	11.65
1976-77	16.50

SEASONAL RAINFALL AT Newhall-Soledad Div. Headquarters SEASON 1976-77  
Record Furnished by..... Copied by..... Date Copied.....

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1				.05								
2				.07								
3				1.67								
4												
5				.12								
6				1.18								
7				1.70				.07				
8								3.13				
9								1.19				
10												
11												
12		1.78						.04				
13												
14												
15												
16						.77						
17						.11					2.28	
18											.3	
19												
20												
21				.05								
22												
23	.09					T						
24	.10					T		.06				
25						.25						
26												.02
27												
28												
29												
30				.56								
31				.21								
TOTAL	.19	1.78	.77	4.84	T	1.83	0	4.49	0	0	2.58	.02

SEASON TOTAL 16.50

B = STATION MOVED TO B LOCATION OCTOBER 1, 1944  
C = STATION MOVED TO C LOCATION MAY 1, 1946  
\*\* = ESTIMATED LESS THAN 10% OF THE TOTAL

**STATION NO. 33A-E  
PACOIMA DAM**

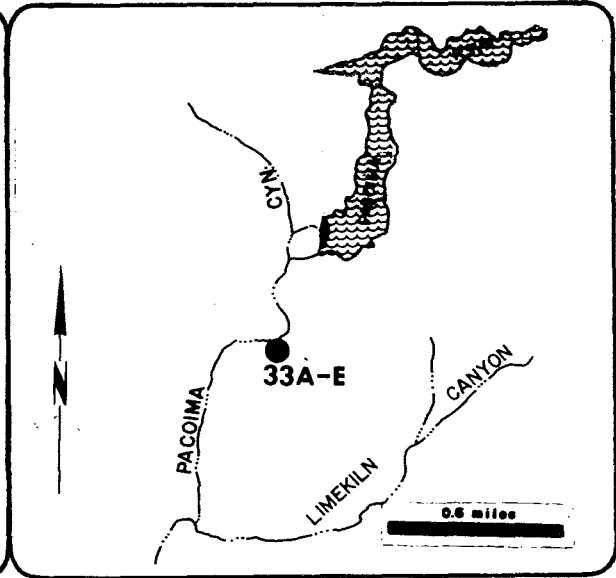


LOCATION  
Mouth of Pacoima Canyon  
below Pacoima Dam

LATITUDE  
34° 19' 48"  
LONGITUDE  
118° 23' 59"  
ELEVATION  
1500'

LENGTH OF RECORD  
non-recording rain gage  
1/1/17 to date  
recording rain gage  
9/22/30 to date

ADDITIONAL  
INSTRUMENTATION  
Max-Min Thermometer  
Evaporation pan



LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

Station No. 33A-E  
Foreign Station No. ....  
Quad-Index No. 60-07

SEASONAL RAINFALL AT Pacoima Dam SEASON 1975-76  
Record Furnished by..... Copied by..... Date Copied.....

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1						.95						
2						.05						
3						.65						
4							.39	T				.08
5					.22		.09	T				
6					1.28			.03				.71
7	.10				.29			.21				
8					.60		.05					
9					1.51		.12		.02			T
10					.35	.27			.10			.76
11	.36								.09			2.21
12	T		.03									.19
13	.02		.75				.69					
14											.02	
15							.07				.13	.08
16							.13				.19	.15
17												
18												
19												
20												
21												
22												
23												
24												
25												.15
26												T
27		T								.01		
28		.01										
29												T
30												
31	.14											
TOTAL	.62	.01	.78	0	4.25	1.92	1.54	.24	.21	.01	.34	4.33

SEASON TOTAL 14.25



STATION NO. 33A-E  
PACOIMA DAM

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

Station No. 33A-E  
Foreign Station No.  
Quad-Index No. 60-07

SEASON RAINFALL

1915-16 24.59  
1916-17 22.24  
1917-18 20.68  
1918-19 14.95  
1919-20 15.63  
1920-21 23.00  
1921-22 29.31  
1922-23 18.21  
1923-24 9.52  
1924-25 11.99  
1925-26 21.92  
1926-27 22.78  
1927-28 12.54 B  
1928-29 12.99 C  
1929-30 15.49  
1930-31 18.37  
1931-32 24.16  
1932-33 15.48  
1933-34 16.42  
1934-35 25.17  
1935-36 17.79  
1936-37 29.40  
1937-38 32.65 A  
1938-39 21.98  
1939-40 18.13  
1940-41 40.41  
1941-42 14.49  
1942-43 30.27  
1943-44 27.98  
1944-45 18.18  
1945-46 16.86  
1946-47 20.92  
1947-48 9.46  
1948-49 12.01  
1949-50 14.00  
1950-51 11.82  
1951-52 36.47  
1952-53 13.15  
1953-54 15.87  
1954-55 14.34  
1955-56 17.76  
1956-57 15.66  
1957-58 30.56  
1958-59 9.40  
1959-60 9.64  
1960-61 8.74  
1961-62 24.96  
1962-63 13.11  
1963-64 12.63  
1964-65 18.22  
1965-66 24.01  
1966-67 31.99  
1967-68 15.91  
1968-69 31.77  
1969-70 14.59  
1970-71 19.55  
1971-72 10.09  
1972-73 27.04  
1973-74 16.91  
1974-75 16.72  
1975-76 14.25  
1976-77 19.56

SEASONAL RAINFALL AT Pacoima Dam SEASON 1976-77  
Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1				.02				.07				
2								T				
3				1.82								
4												
5												
6				.49								
7				2.33				T				
8				.14				.66				
9								3.46	.02			
10								.55	.02			
11		T										
12		.43						.07				
13		.15						T				
14		T										
15		T										
16						.02						
17						.68					1.00	
18											1.90	
19												
20												
21				.16								
22	T											
23	2.97				.01			.01				
24					.08			.32				
25					.04	1.39		.02				
26						.06						T
27												
28												
29												
30				.23								
31				.44								
TOTAL	2.97	.58	.67	4.96	.13	2.15	0	5.16	.04	0	2.90	T

SEASON TOTAL 19.56

A = STATION MOVED BACK TO ORIGINAL LOCATION SEPTEMBER 28, 1938  
B = STATION MOVED TO B LOCATION OCTOBER 1, 1927  
C = STATION MOVED TO C LOCATION DECEMBER 1, 1928

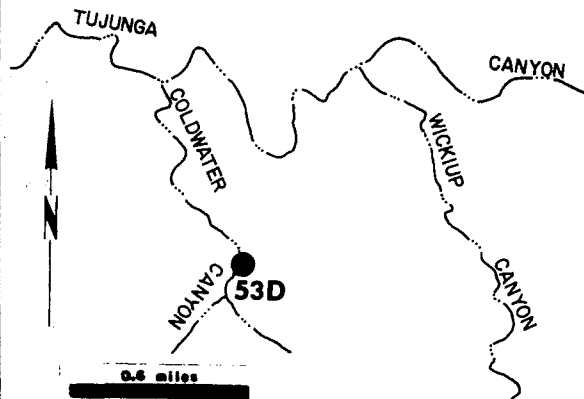
**STATION NO. 53D  
COLBY'S**



**LOCATION**  
Residence: Coldwater Canyon  
one mile S. of Big Tujunga Cn.  
San Gabriel Mountains

**LATITUDE**  
34° 18' 05"  
**LONGITUDE**  
118° 06' 39"  
**ELEVATION**  
3620'

**LENGTH OF RECORD**  
non-recording rain gage  
11/1/1897 to date  
recording rain gage  
4/19/26 to date



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

Station No. 53D  
Foreign Station No. \_\_\_\_\_  
Quad-Index No. 62-89

SEASONAL RAINFALL AT Colby's SEASON 1975-76  
Record Furnished by \_\_\_\_\_ Copied by \_\_\_\_\_ Date Copied \_\_\_\_\_

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1						1.78						
2						.18						T
3						.97						.02
4					.10		.24					.44
5					.80		.02					
6	.03				2.09							.24
7	.01				.80			.16				.04
8					1.99		.30					
9					3.68							
10					.69	.16			.18			1.42
11	.32						.02					4.08
12			.25				.03					.02
13			.13				.76					
14							.11					
15							.17				.09	
16												
17												
18												
19												
20												
21												
22												
23												
24					.06							T
25												.01
26												
27												
28		T										
29		.06										
30	.09											
31												
<b>TOTAL</b>	.45	.06	.38	0	10.21	3.09	1.65	.16	.18	0	.09	6.27

SEASON TOTAL 22.54

STATION NO. 530  
COLBY'S

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

Station No. 530  
Foreign Station No.  
Quad-index No. 62-89

SEASON RAINFALL

1897-98	9.50**	1949-50	18.70
1898-99	8.13**	1950-51	10.14 C
1899-00	14.14**	1951-52	46.17
1900-01	32.85**	1952-53	12.94 D
1901-02	20.79**	1953-54	22.80
1902-03	40.80**	1954-55	18.65
1903-04	19.08**	1955-56	18.72
1904-05	41.09**	1956-57	19.30
1905-06	43.12**	1957-58	46.96
1906-07	48.69**	1958-59	14.89
1907-08	32.09**	1959-60	11.68
1908-09	31.59**	1960-61	11.24
1909-10	29.51**	1961-62	32.86
1910-11	49.29**	1962-63	16.79
1911-12	28.43**	1963-64	15.11
1912-13	27.01**	1964-65	20.32
1913-14	57.60**	1965-66	38.97
1914-15	34.10**	1966-67	43.86
1915-16	43.36**	1967-68	21.70
1916-17	27.24**	1968-69	66.56
1917-18	37.64**	1969-70	16.89
1918-19	20.90**	1970-71	22.58
1919-20	36.95**	1971-72	13.30
1920-21	37.10**	1972-73	32.74
1921-22	61.75**	1973-74	21.29
1922-23	33.70**	1974-75	20.44
1923-24	19.00**	1975-76	22.54
1924-25	25.72**	1976-77	18.82
1925-26	53.63**		
1926-27	32.16**		
1927-28	17.22**B		
1928-29	17.60		
1929-30	19.03**		
1930-31	18.36		
1931-32	30.78		
1932-33	16.72		
1933-34	20.71		
1934-35	36.51		
1935-36	18.46		
1936-37	40.64		
1937-38	44.31 A		
1938-39	27.98		
1939-40	18.85		
1940-41	55.61		
1941-42	20.08		
1942-43	49.73		
1943-44	41.42		
1944-45	28.23		
1945-46	26.83		
1946-47	27.91		
1947-48	14.23		
1948-49	13.45		

SEASONAL RAINFALL AT Colby's SEASON 1976-77  
Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1								.03				
2												
3				2.05								
4												
5				.28								
6				1.52								
7				1.61				.01				
8								3.17				
9								3.17				
10								.19				
11												
12		.80						.12				
13												
14		.05										
15												
16						.61						
17						.20					1.54	
18											.29	
19												
20												
21				.32								
22	.62											
23					.10			.03				
24					.05	.27		.17				
25						.70						
26						.19						
27												
28												
29												
30			.63									
31			.10									
TOTAL	.62	.85	.73	5.78	.15	1.97	0	6.89	0	0	1.83	0

SEASON TOTAL 18.82

- A = STATION MOVED BACK TO ORIGINAL LOCATION OCTOBER 1, 1937
- B = STATION MOVED TO B LOCATION JANUARY 1, 1928
- C = STATION MOVED TO C LOCATION FEBRUARY 7, 1951
- D = STATION MOVED TO D LOCATION JUNE 1, 1952
- \*\* = ESTIMATED LESS THAN 10% OF THE TOTAL

**STATION NO. 57B-E  
CAMP HI HILL  
OPID'S**

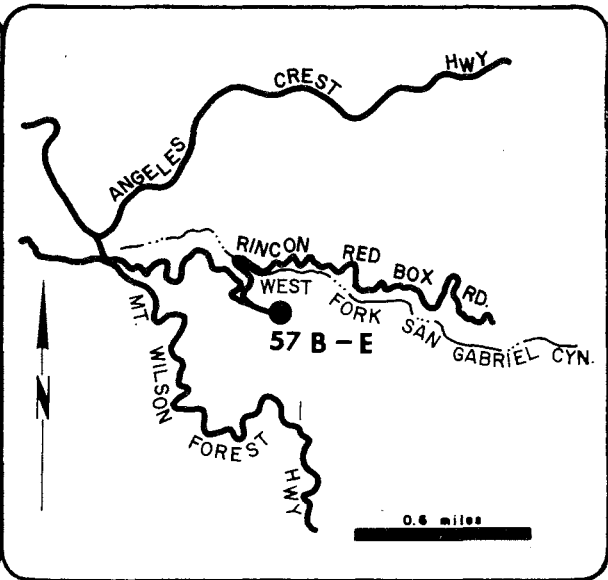


**LOCATION**  
Long Beach City Schools camp  
Upper end of  
San Gabriel Canyon—West Fork  
on the north slope of Mt. Wilson

**LATITUDE**  
34° 15' 18"  
**LONGITUDE**  
118° 05' 41"  
**ELEVATION**  
4248.4' (B.M.)

**LENGTH OF RECORD**  
non-recording rain gage  
1/1/17 to date  
recording rain gage  
12/14/25 to date

**ADDITIONAL  
INSTRUMENTATION**  
Max-Min Thermometer  
Evaporation pan  
Hygrothermograph  
snow depth pad



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

Station No. 57B-E  
Foreign Station No. \_\_\_\_\_  
Quad-Index No. 52-04

**SEASONAL RAINFALL AT** Camp Hi Hill (Opid's) **SEASON** 1975-76  
**Record Furnished by** \_\_\_\_\_ **Copied by** \_\_\_\_\_ **Date Copied** \_\_\_\_\_

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1						2.82						
2						.10						T
3						1.45						.09
4					.49		.39					
5					1.26		.04					
6	.04			2.32				.06				.31
7	.10			1.93				.53				.24
8				2.38			.44					.02
9				3.06								
10				1.25	.18				.27			1.78
11	.60		T				.05		T			6.44
12	T		.40				.07					.03
13			.02				1.26					
14							T					
15							.28			T	.20	
16							T					
17												
18												
19												
20												T
21												
22										.03		
23										.01		
24					.03							T
25												
26												
27			.07									
28			T									
29			.01									
30	.20											
31												
<b>TOTAL</b>	.94	.08	.42	0	12.72	4.55	2.53	.59	.27	.04	.20	8.91

**SEASON TOTAL** 31.25

STATION NO. 57B-E  
CAMP HI-HILL (OPID'S)

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

Station No. 57B-E  
Foreign Station No.  
Quad-index No. 2-01

SEASON RAINFALL

1916-17 INC.  
1917-18 42.55  
1918-19 26.25\*\*  
1919-20 37.41\*\*  
1920-21 35.47\*\*  
1921-22 89.33\*\*  
1922-23 32.05  
1923-24 20.34  
1923-25 28.85  
1925-26 49.46\*\*  
1926-27 46.48\*\*  
1927-28 24.83\*\*  
1928-29 29.51  
1929-30 28.56  
1930-31 31.83  
1931-32 47.05  
1932-33 30.18  
1933-34 34.88  
1934-35 53.07 B  
1935-36 32.54  
1936-37 57.66  
1937-38 66.65  
1938-39 36.87  
1939-40 27.59  
1940-41 78.38  
1941-42 24.54  
1942-43 68.65  
1943-44 50.84  
1944-45 34.66  
1945-46 38.43  
1946-47 41.82  
1947-48 19.52  
1948-49 23.02  
1949-50 30.22  
1950-51 16.31  
1951-52 66.59  
1952-53 19.94  
1953-54 33.81  
1954-55 27.59  
1955-56 29.05  
1956-57 28.58  
1957-58 66.35  
1958-59 21.31  
1959-60 16.90  
1960-61 13.95  
1961-62 47.03  
1962-63 23.21\*\*  
1963-64 22.62  
1964-65 32.48  
1965-66 59.17  
1966-67 65.13  
1967-68 30.88  
1968-69 89.07  
1969-70 24.58  
1970-71 32.61  
1971-72 17.96  
1972-73 49.71  
1973-74 35.81  
1974-75 31.07  
1975-76 31.25  
1976-77 25.82

SEASONAL RAINFALL AT Camp Hi Hill (Opid's) SEASON 1976-77  
Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1								.09				
2				.10								
3				7.56								
4												
5				.46				T	T			
6				2.35				T				
7				2.65								
8								4.04				
9								2.92				
10								.20				
11												
12		1.03						.26				
13		.02						T				
14		.02										
15												
16						.86		T			.03	
17						.24					1.49	
18											.82	
19												
20	.02											
21	.03			.32								
22	.48											
23	.08				.22			.12				
24	T				.07	.31		.21				
25						1.26		.02				
26						.18						
27												
28												
29												
30			1.32			T						
31		.24				T						
<b>TOTAL</b>	.61	1.07	1.56	2.24	.22	2.85	0	7.86	T	0	2.34	0

SEASON TOTAL 25.82

B = STATION MOVED TO B LOCATION SEPTEMBER 25, 1935  
\*\* = ESTIMATED LESS THAN 10% OF THE TOTAL  
INC = INCOMPLETE

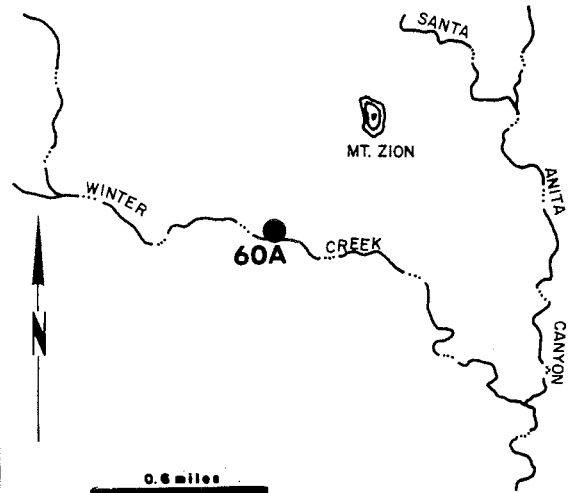
**STATION NO. 60A  
HOEGEE'S**



**LOCATION**  
campground, Winter Creek  
1.25 miles upstream from  
Santa Anita Canyon

**LATITUDE**  
34° 12' 32"  
**LONGITUDE**  
118° 02' 02"  
**ELEVATION**  
2412'

**LENGTH OF RECORD**  
non-recording rain gage  
2/1/25 to date  
recording rain gage  
11/11/26 to date



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

Station No. 60A  
Foreign Station No.  
Quad-Index No. 52-69

SEASONAL RAINFALL AT Hoegee's SEASON 1975-76  
Record Furnished by Oopted by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1						4.20						
2						.10						
3						1.46						
4					.49		.30					
5					.78		.09	.06				
6	.11				2.05		.09	.05				.10
7	.12				.58			.29				.06
8					1.27		.20					
9					3.22							
10					.78	.25			.22			1.65
11	.41						.10					5.85
12			.88									
13							1.34					
14												
15							.36				.39	
16												.07
17												
18												
19												
20												
21												
22												
23							.01					
24					.03							
25												.11
26												
27		.20										
28		.09						.04				
29								.04*				
30	.10											
31												
<b>TOTAL</b>	.74	.29	.88	0	9.20	6.01	2.49	.48**	.22	0	.39	7.84

SEASON TOTAL 28.54\*\*

STATION NO. 60A  
HOEGEE'S

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

Station No. 60A  
Foreign Station No.  
Quad-Index No. 52-69

SEASON RAINFALL

1924-25 INC.  
1925-26 62.45  
1926-27 55.71  
1927-28 24.52  
1928-29 32.39  
1929-30 33.91  
1930-31 32.42  
1931-32 50.19  
1932-33 33.45  
1933-34 44.67  
1934-35 55.58  
1935-36 38.15 B  
1936-37 59.29  
1937-38 67.16 A  
1938-39 38.67  
1939-40 29.65\*\*C  
1940-41 69.91  
1941-42 21.99  
1942-43 75.87  
1943-44 43.68  
1944-45 35.85  
1945-46 33.00  
1946-47 38.35  
1947-48 19.68  
1948-49 23.73  
1949-50 32.39  
1950-51 17.34  
1951-52 59.20  
1952-53 23.61  
1953-54 32.18  
1954-55 25.15  
1955-56 31.70  
1956-57 27.63  
1957-58 57.87  
1958-59 17.76  
1959-60 17.20  
1960-61 13.74  
1961-62 46.73  
1962-63 23.01  
1963-64 22.10  
1964-65 33.52  
1965-66 52.05  
1966-67 63.39  
1967-68 22.87  
1968-69 INC.  
1969-70 22.57  
1970-71 30.77  
1971-72 14.80  
1972-73 44.93  
1973-74 34.91  
1974-75 27.71  
1975-76 28.54\*\*  
1976-77 22.67

SEASONAL RAINFALL AT Hoegge's SEASON 1976-77  
Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1								.14				
2				.10								
3				3.50								
4												
5				.29				.09				
6				1.95								
7				1.66								
8								2.41				
9								2.22	.04			
10								.19				
11												
12		1.05										
13												
14		T										
15												
16						.82		.52				
17						.31					1.63	
18											.29	
19												
20												
21				.22								
22	1.13											
23	.17				.40			.20				
24						.10		.30				
25						1.45						
26						.10						
27												
28												
29							T					
30				1.20								
31				.10								
TOTAL	1.30	1.05	1.30	7.72	.40	2.78	T	6.16	.04	0	1.92	0

SEASON TOTAL 22.67

- A = STATION MOVED BACK TO ORIGINAL LOCATION OCTOBER 13, 1937
- B = STATION MOVED TO B LOCATION DECEMBER 10, 1935
- C = STATION MOVED TO C LOCATION OCTOBER 13, 1939, AND AGAIN BACK TO ORIGINAL LOCATION SEPTEMBER 27, 1940
- \*\* = ESTIMATED LESS THAN 10% OF THE TOTAL
- INC = INCOMPLETE

**STATION NO. 85G  
Mt. BALDY**



LOCATION  
USFS Ranger Station  
Mt. Baldy  
San Gabriel Mountains

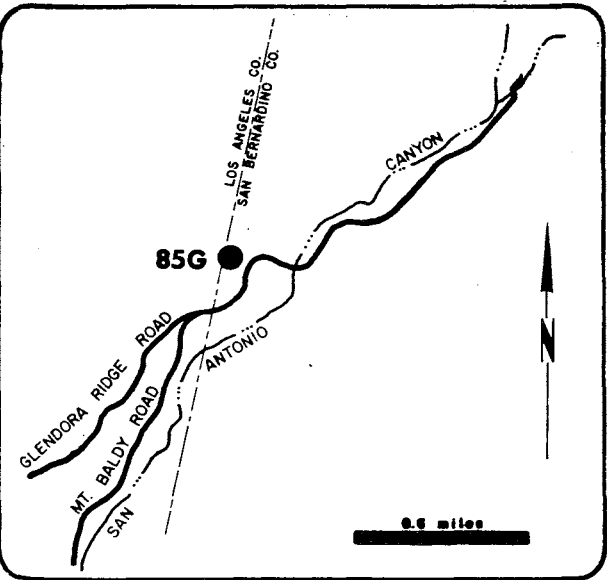
LATITUDE  
34° 14' 12"

LONGITUDE  
117° 39' 32"

ELEVATION  
4275'

LENGTH OF RECORD  
non-recording rain gage  
11/5/20 to date  
recording rain gage  
11/11/27 to 9/16/76

ADDITIONAL  
INSTRUMENTATION  
max-min thermometer



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

Station No. 85G  
Foreign Station No. \_\_\_\_\_  
Quad-Index No. 56-46

SEASONAL RAINFALL AT Mount Baldy Guard Station SEASON 1975-76  
Record Furnished by \_\_\_\_\_ Copied by \_\_\_\_\_ Date Copied \_\_\_\_\_

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1						.86						
2						1.64						
3						1.51						
4					T		.52					.33
5					1.06		.18					
6					1.73			.04				
7	.11				1.12			.29				
8					2.20			.05				
9					3.94		.04					
10					2.83	.03			.02			1.22
11	.31					.04			.16			6.04
12	.06						.01					
13			.52				.64					
14					T		.10					
15							.01					
16							.53					
17												
18												
19												
20	.19											
21												.01
22												
23												
24					T					.02		
25										T		.02
26												.02
27												
28		.17								.40		
29		.52										
30		.27						T				.17
31	.51											
<b>TOTAL</b>	1.18	.96	.52	0	12.88	4.08	2.03	.38	.18	.42	0	7.81

SEASON TOTAL 30.44



STATION NO. 85G  
 MT. BALDY GUARD STATION

LOS ANGELES COUNTY  
 FLOOD CONTROL DISTRICT  
 HYDRAULIC DIVISION

Station No. 85G  
 Foreign Station No.  
 Quad-Index No. 56-46

SEASON RAINFALL

1920-21 34.01  
 1921-22 66.57  
 1922-23 30.85  
 1923-24 19.82  
 1924-25 21.99  
 1925-26 38.29\*\*  
 1926-27 39.42\*\*  
 1927-28 21.41\*\*B  
 1928-29 25.89  
 1929-30 27.63  
 1930-31 25.44\*\*  
 1931-32 40.68  
 1932-33 20.41\*\*  
 1933-34 23.35  
 1934-35 43.27  
 1935-36 27.99 C  
 1936-37 52.67 D  
 1937-38 57.35  
 1938-39 34.47  
 1939-40 24.20  
 1940-41 57.32  
 1941-42 23.05  
 1942-43 57.22  
 1943-44 43.26  
 1944-45 36.67\*\*  
 1945-46 34.75\*\*  
 1946-47 35.69\*\*  
 1947-48 19.30  
 1948-49 20.38  
 1949-50 22.34  
 1950-51 11.73  
 1951-52 50.26  
 1952-53 18.01  
 1953-54 30.93  
 1954-55 21.06 F  
 1955-56 20.32  
 1956-57 20.99  
 1957-58 57.31 G  
 1958-59 20.04  
 1959-60 17.40  
 1960-61 12.89  
 1961-62 37.28  
 1962-63 21.88  
 1963-64 23.25  
 1964-65 25.29  
 1965-66 53.10  
 1966-67 56.06  
 1967-68 24.74  
 1968-69 88.80  
 1969-70 22.83  
 1970-71 24.73  
 1971-72 19.97  
 1972-73 41.60  
 1973-74 26.90  
 1974-75 26.99  
 1975-76 30.44  
 1976-77 26.24\*\*

SEASONAL RAINFALL AT Mount Baldy Guard Station SEASON 1976-77  
 Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1				T			.32					
2												
3				5.55								
4												
5				.25								
6				1.17					.01			
7				5.92								
8				.25				1.18				
9								4.92				
10								1.26				
11												
12		.64						.11				
13		.24										
14		.02						.20				
15		.01						.03				
16								.02				
17						.79					.84	
18											1.38	
19												
20												
21	.02			.21	T							
22	.62			T								
23	.18				.1*							
24	.02				.5*			.62				
25						1.40		.15				
26				.08		.72						
27				T								
28												
29												
30			.07			T						
31			1.14			.02						
TOTAL	.84	.91	1.21	9.21	.4*	2.93	.02	8.49	.01	0	2.22	0

SEASON TOTAL 26.24\*\*

- B = STATION MOVED TO B LOCATION DECEMBER 1, 1927
- C = STATION MOVED TO C LOCATION FEBRUARY 28, 1936
- D = STATION MOVED TO D LOCATION JANUARY 26, 1937
- F = STATION MOVED TO F LOCATION NOVEMBER 19, 1954
- G = STATION MOVED TO G LOCATION AUGUST 7, 1958
- \*\* = ESTIMATED LESS THAN 10% OF THE TOTAL

**STATION NO. 106C  
WHITTIER**



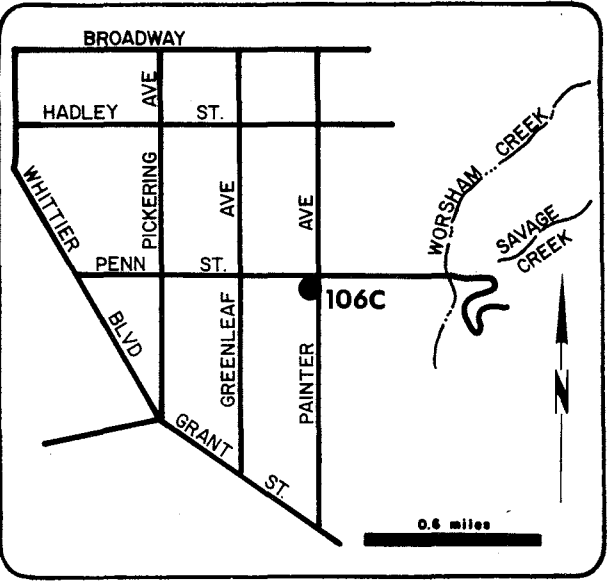
LOCATION  
City Hall  
13230 East Penn Street  
west of Painter Street  
Whittier

LATITUDE  
33° 58' 27"

LONGITUDE  
118° 01' 57"

ELEVATION  
340'

LENGTH OF RECORD  
non-recording rain gage  
12/1/27 to date



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

Station No. 106C  
Foreign Station No.  
Quad-Index No. 16-22

SEASONAL RAINFALL AT Whittier City Hall SEASON 1975-76  
Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1						.85						
2						.02						
3						.46						
4					.16		.46					
5					.16			.01				
6	.13				.72							.20
7	.01				.23			.03				
8					.46		.09					
9					1.21							
10					.06	.28			.17			1.67
11	.06											1.14
12			.17									T
13			.05				.53					
14												
15											.06	.02
16							.05					
17												
18												
19												
20												
21												
22										.01		
23												
24					.01							.14
25												.70
26										T		
27		T										
28		T						T				
29												
30	.21											
31												
<b>TOTAL</b>	.41	T	.22	0	3.01	1.61	1.13	.04	.17	.01	.06	3.87

SEASON TOTAL 10.53

STATION NO. 106C  
WHITTIER

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

Station No. 106C  
Foreign Station No.  
Quad-Index No. 16-22

SEASON RAINFALL

1927-28 13.32  
1928-29 11.73  
1929-30 11.32  
1930-31 12.82  
1931-32 15.39  
1932-33 9.91  
1933-34 12.95  
1934-35 19.23  
1935-36 10.49  
1936-37 21.40  
1937-38 21.39  
1938-39 16.73  
1939-40 12.79  
1940-41 32.85  
1941-42 13.08  
1942-43 19.05  
1943-44 18.55  
1944-45 10.92  
1945-46 11.66  
1946-47 13.72  
1947-48 8.48  
1948-49 8.53  
1949-50 10.32  
1950-51 8.36  
1951-52 25.38  
1952-53 10.20\*\*  
1953-54 13.01 B  
1954-55 11.47 C  
1955-56 14.17  
1956-57 9.93  
1957-58 22.17  
1958-59 6.54  
1959-60 9.20 D  
1960-61 5.03  
1961-62 22.11  
1962-63 11.54  
1963-64 7.54  
1964-65 13.49 DC  
1965-66 16.42  
1966-67 18.66  
1967-68 11.78  
1968-69 25.37  
1969-70 8.61  
1970-71 11.54  
1971-72 7.01  
1972-73 20.17  
1973-74 14.79  
1974-75 12.26  
1975-76 10.93  
1976-77 10.29

SEASONAL RAINFALL AT Whittier City Hall SEASON 1976-77  
Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1				.05								
2				.66								
3												
4												
5												
6				.94								
7				.62						T		
8								1.67				
9								.89				
10								T				
11												
12		.42						.04				
13												
14												
15												
16						.37		.02			T	
17											2.05	
18											.15	
19												
20	T											
21				.19								
22												
23					.11			.08				
24					.20	.02		.09				
25						.66						
26				.10		.03						
27												
28												
29												
30				.85								
31			.08									
<b>TOTAL</b>	T	.42	.92	2.56	.71	1.08	0	2.79	T	0	2.20	0

SEASON TOTAL 10.29

- B = STATION MOVED TO B LOCATION SEPTEMBER 1, 1954
- C = STATION MOVED TO C LOCATION MAY 5, 1955
- D = STATION MOVED TO D LOCATION SEPTEMBER 30, 1960
- DC = STATION MOVED BACK TO LOCATION C MARCH 16, 1965
- \*\* = ESTIMATED LESS THAN 10% OF THE TOTAL

**STATION NO. 130B  
SANDBERG'S**



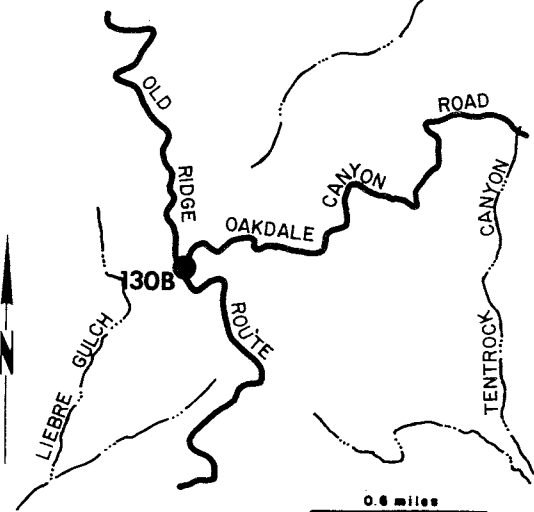
LOCATION  
L.A. Co. F & FW Patrol Station  
47376 Old Ridge Route  
Lake Hughes

LATITUDE  
34° 44' 37"

LONGITUDE  
118° 42' 43"

ELEVATION  
4025'

LENGTH OF RECORD  
non-recording rain gage  
12/1/27 to date  
recording rain gage  
1/14/31 to 10/19/34



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

Station No. 130B  
Foreign Station No.  
Quad-Index No. 106-85

SEASONAL RAINFALL AT Sandberg-Quail Lake Patrol Station SEASON 1975-76  
Record Furnished by..... Copied by..... Date Copied.....

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1						.07						
2												
3						.78						
4						.18	.10					
5					.15		T					
6					1.43							.34
7					1.21		T	.18				
8					1.14		.10					
9					1.89		.19		.05			
10			T		1.55	.01			.07			.51
11	.02		T			T						3.49
12			.19				.02					.06
13	T		.12				.25					
14							.08					
15							T					
16							.28					
17												
18												
19												
20												
21	.04											
22												
23										.03		
24												
25												.08
26												
27	T											
28		.09										
29		.17										
30												.06
31	.24											
<b>TOTAL</b>	.30	.28	.31	0	7.37	1.04	1.02	.18	.12	.03	0	4.54

SEASON TOTAL 15.19

STATION NO. 130B  
 SANDBERG - QUAIL LAKE PATROL STATION

LOS ANGELES COUNTY  
 FLOOD CONTROL DISTRICT  
 HYDRAULIC DIVISION

Station No. 130B  
 Foreign Station No.  
 Quad-Index No. 106-85

SEASON RAINFALL

1927-28 11.02\*\*  
 1928-29 11.54  
 1929-30 13.13  
 1930-31 15.61  
 1931-32 20.54  
 1932-33 10.88\*\*  
 1933-34 10.41  
 1934-35 22.32  
 1935-36 11.26  
 1936-37 22.29  
 1937-38 24.38  
 1938-39 20.96 B  
 1939-40 12.08  
 1940-41 40.50  
 1941-42 15.05  
 1942-43 20.89  
 1943-44 24.96\*\*  
 1944-45 11.54  
 1945-46 14.26  
 1946-47 14.36  
 1947-48 7.18  
 1948-49 6.50\*\*  
 1949-50 8.50  
 1950-51 5.14  
 1951-52 21.77  
 1952-53 8.75  
 1953-54 11.86  
 1954-55 13.40  
 1955-56 10.82  
 1956-57 12.18  
 1957-58 26.13  
 1958-59 10.31  
 1959-60 7.07  
 1960-61 10.81  
 1961-62 25.07  
 1962-63 10.67  
 1963-64 11.10  
 1964-65 13.20  
 1965-66 18.79  
 1966-67 24.64  
 1967-68 15.54  
 1968-69 24.71  
 1969-70 11.96  
 1970-71 15.60  
 1971-72 7.58  
 1972-73 20.55  
 1973-74 12.52  
 1974-75 15.91  
 1975-76 15.19  
 1976-77 17.24

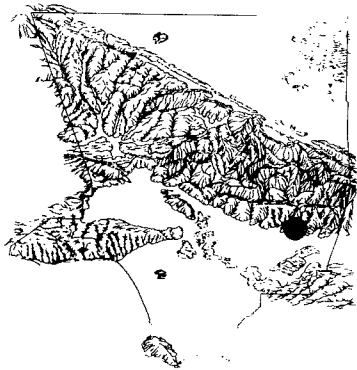
SEASONAL RAINFALL AT Sandberg-Quail Lake Patrol Station SEASON 1976-77  
 Record Furnished by: Copied by: Date Copied:

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1				.47								
2				T		T						
3				1.12								
4						T						
5												
6				.42								
7				4.80				.25	.05			
8				.06				1.22				
9					.06			2.98	T			
10						.05		.13				
11												
12								.07				
13		.26						T				
14		.27										
15		.05				.04						
16						.04						
17						.67					.68	
18											1.27	
19											T	
20												
21	.22			T								
22					.07							
23	.19			T	T							
24					T			.20				
25						.01	1.08	.03				
26						.09						
27												
28												
29												
30				.07								
31			.26			.06						
TOTAL	.41	.58	.33	6.87	.14	2.03	0	4.88	.05	0	1.95	0

SEASON TOTAL 17.24

B = STATION MOVED TO B LOCATION DECEMBER 1, 1938  
 \*\* = ESTIMATED LESS THAN 10% OF THE TOTAL

**STATION NO. 185  
GLENDDORA**



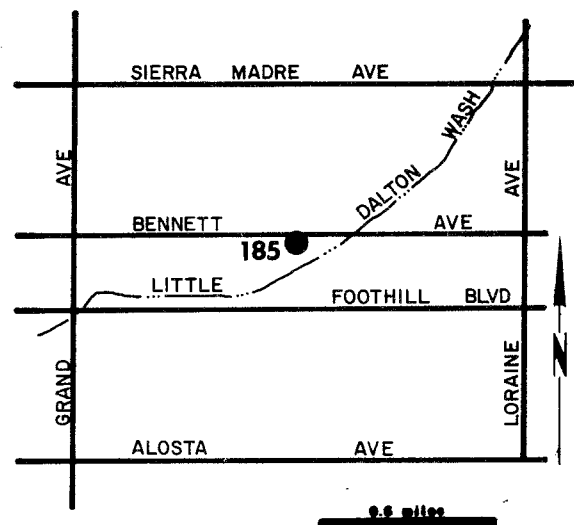
LOCATION  
Residence:  
460 East Bennett Avenue  
Glendora

LATITUDE  
34° 08' 23"

LONGITUDE  
117° 51' 33"

ELEVATION  
822'

LENGTH OF RECORD  
non-recording rain gage  
10/1/1880 to date



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

Station No. 185  
Foreign Station No.  
Quad-Index No. 43-46

SEASONAL RAINFALL AT Glendora - West SEASON 1975-76  
Record Furnished by..... Copied by..... Date Copied.....

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1						1.83						
2						.02						
3						.73						T
4					.46		.40					.27
5					.29		.02	.02				
6	.02				.91							
7	.08				.40			.17				.03
8					.76		.03					
9					1.56							
10					.19	.02			.12			1.74
11	.25					T			T			1.12
12			.38				.01					
13			T				.72					
14							T					
15							.29				.04	.16
16												
17												
18												
19					T							
20			T									
21	.03											
22										T		
23												
24					.03							
25												.04
26												
27		.07										
28		.02						T				
29								.11				
30	.12							.04				T
31												
<b>TOTAL</b>	.50	.09	.38	0	4.60	2.60	1.47	.34	.12	T	.04	3.36

SEASON TOTAL 13.50

STATION NO. 185  
GLENDORA

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

Station No. 185  
Foreign Station No.  
Quad-Index No. 43-46

SEASON RAINFALL

SEASONAL RAINFALL AT Glendora - West SEASON 1976-77  
Record Furnished by..... Copied by..... Date Copied.....

1880-81	16.96	1934-35	27.97**
1881-82	16.07	1935-36	18.52
1882-83	18.52	1936-37	34.23
1883-84	62.76	1937-38	31.69
1884-85	14.79	1938-39	20.81
1885-86	28.95	1939-40	17.03
1886-87	19.26	1940-41	40.54
1887-88	35.10	1941-42	13.51
1888-89	32.85	1942-43	29.95
1889-90	49.89	1943-44	24.44
1890-91	26.69	1944-45	21.22**
1891-92	20.71	1945-46	20.14
1892-93	39.20	1946-47	18.28
1893-94	11.26	1947-48	12.30**
1894-95	32.92	1948-49	14.14
1895-96	13.03	1949-50	16.19
1896-97	22.57	1950-51	10.95
1897-98	16.60	1951-52	33.42
1898-99	7.28	1952-53	13.21
1899-00	12.19	1953-54	19.46
1900-01	23.73	1954-55	15.28
1901-02	14.06	1955-56	20.04
1902-03	27.27	1956-57	16.23
1903-04	12.59	1957-58	34.99
1904-05	25.97	1958-59	10.23
1905-06	27.03	1959-60	11.49
1906-07	33.07	1960-61	7.68**
1907-08	20.24	1961-62	23.10
1908-09	27.20	1962-63	14.09
1909-10	20.21	1963-64	12.16
1910-11	29.12	1964-65	17.69
1911-12	15.61	1965-66	20.97
1912-13	13.89**	1966-67	33.55
1913-14	36.78	1967-68	15.87
1914-15	28.76	1968-69	39.26
1915-16	33.59	1969-70	14.93
1916-17	21.61	1970-71	14.59
1917-18	19.88	1971-72	9.85
1918-19	14.50**	1972-73	24.30
1919-20	21.67**	1973-74	18.25
1920-21	23.47	1974-75	16.92
1921-22	26.59	1975-76	13.50
1922-23	19.08	1976-77	16.75
1923-24	11.66**		
1924-25	13.90		
1925-26	25.37		
1926-27	25.43		
1927-28	16.05		
1928-29	18.18		
1929-30	17.41**		
1930-31	15.71**		
1931-32	24.05**		
1932-33	12.50**		
1933-34	26.80		

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1				.12				.02				
2							T					
3				1.61								
4												
5				.03				.02				
6				1.37								
7				.62								
8								1.63				
9								2.27	.09			
10								.06				
11												
12		.84						.06				
13												
14		.05										
15							T					
16						.39					.06	
17						.26					2.52	
18											.15	
19												
20	T											
21	T			.23								
22	.64				T							
23	.19				.29			.15				
24					.48	.15		.14				
25						.92		.03				
26				.03		.19						
27												
28												
29												
30			.74									
31			.39			.01						
TOTAL	.83	.89	1.13	4.01	.77	1.92	T	4.38	.09	0	2.73	0

SEASON TOTAL 16.75

\*\* = ESTIMATED LESS THAN 10% OF THE TOTAL

**STATION NO. 241-C  
LONG BEACH**



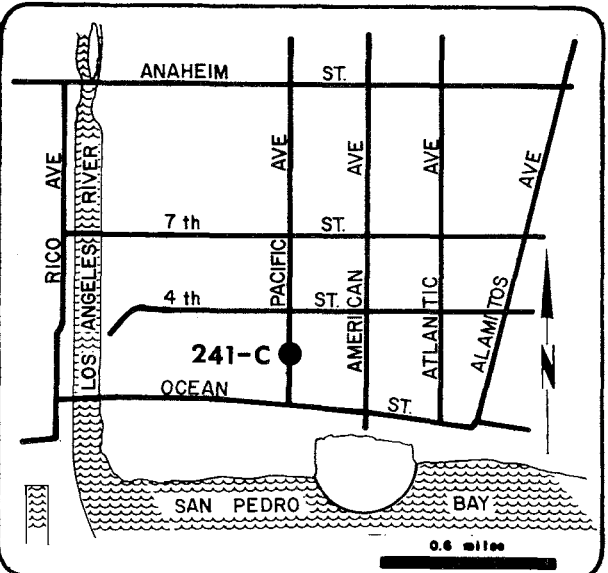
LOCATION  
City Hall  
205 East Broadway  
Long Beach

LATITUDE  
33° 46' 12"

LONGITUDE  
118° 11' 32"

ELEVATION  
116'

LENGTH OF RECORD  
non-recording rain gage  
11/1/28 to date  
recording rain gage  
10/1/65 to date



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

Station No. 241C  
Foreign Station No. \_\_\_\_\_  
Quad-Index No. 4-03

SEASONAL RAINFALL AT Long Beach City Hall SEASON 1975-76  
Record Furnished by \_\_\_\_\_ Copied by \_\_\_\_\_ Date Copied \_\_\_\_\_

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1						.36						
2						.04						
3						.13						
4					.11		.30					
5					.04		.08					
6					.60							.01
7	.08				.21							
8					.34		.04					
9					.97							
10					.01	.01						1.13
11									.23			.72
12			T				T					
13							.86					
14							.08					
15							.05*				.04*	
16												
17												
18												
19												
20												
21												
22												
23										T		
24												.01*
25												
26												
27												
28			.21									
29												
30	.12											.01*
31												
<b>TOTAL</b>	.20	.21	T	0	2.28	.54	1.41	0	.23	T	.04*	1.88

SEASON TOTAL 6.79\*\*



STATION NO. 241C  
LONG BEACH

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

Station No. 241C  
Foreign Station No.  
Quad-Index No. 4-03

SEASON RAINFALL

1928-29 9.47  
1929-30 10.99  
1930-31 9.22  
1931-32 14.51  
1932-33 9.35\*\*  
1933-34 5.95  
1934-35 17.17  
1935-36 8.94  
1936-37 17.82  
1937-38 16.83  
1938-39 14.11  
1939-40 10.73  
1940-41 24.89  
1941-42 9.89  
1942-43 11.31  
1943-44 16.36  
1944-45 13.41  
1945-46 9.61  
1946-47 11.86 B  
1947-48 5.87  
1948-49 7.44  
1949-50 8.93  
1950-51 7.40  
1951-52 17.57  
1952-53 9.17  
1953-54 12.09  
1954-55 9.99  
1955-56 11.19  
1956-57 6.53  
1957-58 20.52  
1958-59 5.16  
1959-60 8.32  
1960-61 3.18  
1961-62 15.79  
1962-63 12.08\*\*C  
1963-64 6.30  
1964-65 10.40  
1965-66 12.97\*\*  
1966-67 11.60  
1967-68 10.93\*\*  
1968-69 17.79  
1969-70 6.43  
1970-71 8.84  
1971-72 5.81  
1972-73 12.68  
1973-74 11.26  
1974-75 12.31  
1975-76 6.79\*\*  
1976-77 10.44

SEASONAL RAINFALL AT Long Beach City Hall SEASON 1976-77  
Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1												
2												
3				.37								
4												
5												
6				.85								
7				.55								
8								1.83				
9								.07				
10												
11												
12		1.09*						.01				
13												
14												
15												
16						.41						
17						.04					2.81	
18											.34	
19												
20												
21				.20								
22												
23					.13							
24					.31			.09				
25						.82						
26				.04								
27												
28				.08								
29												
30				.14								
31				.26								
<b>TOTAL</b>	0	1.09*	.40	2.09	.44	1.27	0	2.00	0	0	3.15	0

SEASON TOTAL 10.44\*

B = STATION MOVED TO B LOCATION OCTOBER 1, 1946  
C = STATION MOVED TO C LOCATION SEPTEMBER 30, 1963  
\* = ESTIMATED GREATER THAN 10% OF THE TOTAL  
\*\* = ESTIMATED LESS THAN 10% OF THE TOTAL

**STATION NO. 256C  
POMONA**



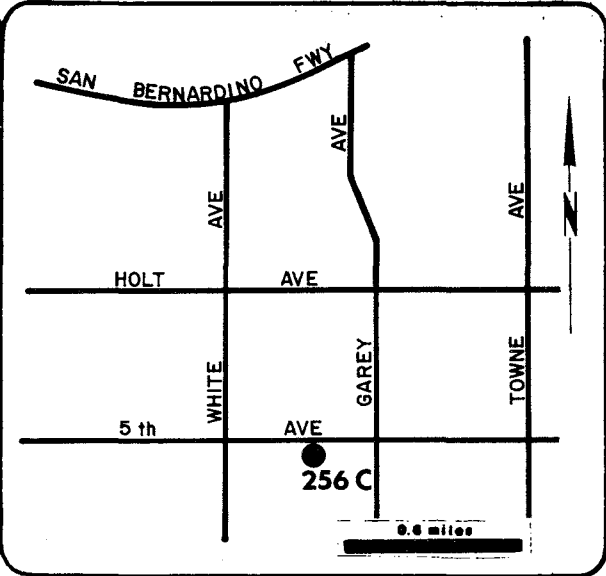
LOCATION  
City of Pomona Fire Station  
590 South Park Avenue  
Pomona

LATITUDE  
34° 03' 16"

LONGITUDE  
117° 45' 10"

ELEVATION  
844'

LENGTH OF RECORD  
non-recording rain gage  
7/1/1883 to 8/1/1890  
1/1/1897 to 1/1/1900  
10/1/25 to date.



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

Station No. 256C  
Foreign Station No. \_\_\_\_\_  
Quad-Index No. 32-44

SEASONAL RAINFALL AT Pomona Fire Station SEASON 1975-76  
Record Furnished by \_\_\_\_\_ Copied by \_\_\_\_\_ Date Copied \_\_\_\_\_

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1						.26						
2						1.00*						
3						.45						
4							.29					
5					.80							
6					.98							
7	.05			.30			.15					
8				.25								.05
9				1.50								
10				.48	.09							.38
11												1.98
12			.25*									
13							.52					
14												
15											.02	
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												.01
26												
27												
28												
29												
30												
31	.19											
<b>TOTAL</b>	.24	0	.25*	0	4.31	1.80*	.81	.15	0	0	.02	2.42

SEASON TOTAL 10.00\*

STATION NO. 256C  
POMONA

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

Station No. 256C  
Foreign Station No.  
Quad-Index No. 32-44

SEASON RAINFALL

1882-83	INC.	1965-66	15.94
1883-84	39.46	1966-67	22.34
1884-85	10.55	1967-68	15.38
1885-86	23.84	1968-69	28.30
1886-87	12.01	1969-70	11.37
1887-88	21.09	1970-71	9.99
1888-89	22.69	1971-72	7.49
1889-90	30.07*	1972-73	17.51
1890-96	NO RECORD	1973-74	12.72
1896-97	INC.	1974-75	11.87
1897-98	INC.	1975-76	10.00*
1898-99	6.75	1976-77	14.77*
1899-00	INC.		
1900-25	NO RECORD		
1925-26	20.23		
1926-27	22.64		
1927-28	15.96		
1928-29	13.37		
1929-30	14.85		
1930-31	15.22		
1931-32	21.41		
1932-33	10.88		
1933-34	16.60		
1934-35	20.95		
1935-36	14.59		
1936-37	29.26		
1937-38	25.97		
1938-39	19.56		
1939-40	13.21		
1940-41	33.97 B		
1941-42	12.83		
1942-43	24.12		
1943-44	17.90		
1944-45	15.08		
1945-46	13.01		
1946-47	12.73		
1947-48	8.68		
1948-49	9.90		
1949-50	12.44		
1950-51	8.67		
1951-52	28.23		
1952-53	12.54		
1953-54	15.75		
1954-55	12.05		
1955-56	13.43		
1956-57	11.10		
1957-58	31.22		
1958-59	7.33		
1959-60	9.61		
1960-61	5.45		
1961-62	15.41**		
1962-63	12.65		
1963-64	9.49 C		
1964-65	13.92		

SEASONAL RAINFALL AT Pomona Fire Station SEASON 1976-77  
Record Furnished by..... Copied by..... Date Copied.....

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1				.30								
2				1.11								
3												
4				.01								
5												
6				.94								
7				1.45				.30				
8				.20				.30				
9								1.86				
10								.85				
11												
12		.57						.02				
13												
14												
15		.01										
16						.75						
17											.84	
18											1.61*	
19												
20												
21	.01			.23								
22												
23	.37											
24					.22			.41*				
25					.70	.64						
26				.09								
27												
28												
29												
30				.05								
31				.93*								
TOTAL	.38	.58	.98*	4.33	.92	1.39	0	3.74*	0	0	2.34*	0

SEASON TOTAL 14.77\*

- B = STATION MOVED TO B LOCATION JANUARY 8, 1941
- C = STATION MOVED TO C LOCATION OCTOBER 1, 1963
- \* = ESTIMATED GREATER THAN 10% OF THE TOTAL
- \*\* = ESTIMATED LESS THAN 10% OF THE TOTAL
- INC = INCOMPLETE

**STATION NO. 283C  
CRYSTAL LAKE**



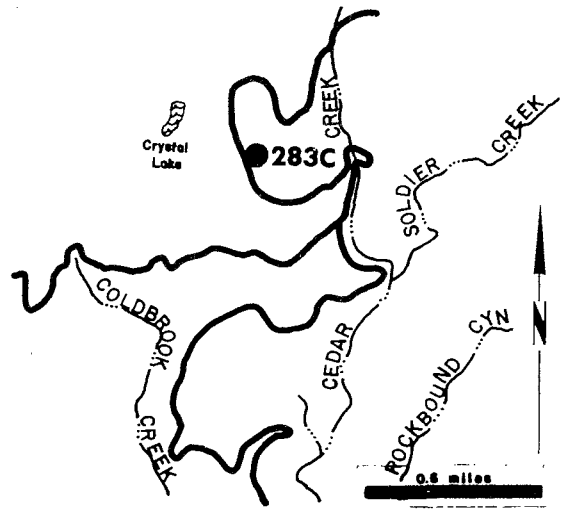
LOCATION  
USFS Ranger Station  
Crystal Lake, north of Azusa

LATITUDE  
34° 19' 02"

LONGITUDE  
117° 50' 28"

ELEVATION  
5370'

LENGTH OF RECORD  
non-recording rain gage  
4/1/31 to date  
recording rain gage  
11/26/35 to date



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

Station No. 283C  
Foreign Station No. \_\_\_\_\_  
Quad-Index No. 65-68

SEASONAL RAINFALL AT Crystal Lake SEASON 1975-76  
Record Furnished by \_\_\_\_\_ Copied by \_\_\_\_\_ Date Copied \_\_\_\_\_

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1						1.12						
2						1.14						
3						1.45						
4							.58					.30
5					1.16		.04					
6					2.36							
7	.12			1.08				.24				
8				1.72								
9				4.07		.11						T
10				2.72				.08				.72
11	.48		.02	.05					.14			7.18
12	.19						.64					.13
13			.60				1.14					
14							.12					
15												
16							.05					
17												
18												
19												
20												
21	.04		.09									
22												
23												
24												
25												.03
26												.04
27		.10										
28		.27										
29		.31										
30												.03
31	.18											
<b>TOTAL</b>	1.01	.68	.71	0	13.16	3.71	2.68	.24	.22	0	0	8.43

SEASON TOTAL 30.84

STATION NO 283C  
CRYSTAL LAKE

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

Station No. 283C  
Foreign Station No.  
Quad-Index No. 65-68

SEASON RAINFALL

1930-31 INC.  
1931-32 41.11  
1932-33 23.10  
1933-34 27.26  
1934-35 50.56  
1935-36 26.51  
1936-37 56.32  
1937-38 65.72  
1938-39 40.09  
1939-40 27.49  
1940-41 67.24  
1941-42 27.53  
1942-43 58.56  
1943-44 51.05  
1944-45 35.09  
1945-46 38.48  
1946-47 39.18  
1947-48 21.11  
1948-49 21.15  
1949-50 24.88 B  
1950-51 15.25  
1951-52 54.57  
1952-53 20.25  
1953-54 30.42  
1954-55 27.73  
1955-56 25.86  
1956-57 30.24  
1957-58 64.88\*\*  
1958-59 23.72  
1959-60 17.89 C  
1960-61 16.16  
1961-62 42.06  
1962-63 21.69  
1963-64 19.94  
1964-65 26.43\*  
1965-66 57.46  
1966-67 56.59  
1967-68 26.02  
1968-69 76.77  
1969-70 22.89  
1970-71 25.71  
1971-72 18.88  
1972-73 40.76  
1973-74 28.52  
1974-75 26.76  
1975-76 30.84  
1976-77 23.52

SEASONAL RAINFALL AT Crystal Lake SEASON 1976-77  
Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1				.05								
2												
3				2.76								
4						T						
5				.13								
6				1.81								
7				1.95				.10				
8				.20				.70				
9								4.29				
10								1.50				
11												
12		.50						.20*				
13		.21										
14		T										
15												
16								.10*				
17						1.18					.71	
18											1.69	
19												
20	T											
21	.06			.48								
22	T											
23	.44											
24					.13			.61				
25					.08	1.64		.09				
26						.68						
27												
28												
29												
30				.23								
31			.90			.10						
TOTAL	.50	.71	1.13	7.38	.21	3.60	0	7.59**	0	0	2.40	0

SEASON TOTAL 23.52

B = STATION MOVED TO B LOCATION MARCH 12, 1950  
C = STATION MOVED TO C LOCATION OCTOBER 14, 1959  
\* = ESTIMATED GREATER THAN 10% OF THE TOTAL  
\*\* = ESTIMATED LESS THAN 10% OF THE TOTAL  
INC = INCOMPLETE

**STATION NO. 321-E  
PINE CANYON**



LOCATION  
L.A. County  
F. & F.W. Patrol Station  
17021 E. Elizabeth Lake Rd.  
Lake Hughes-Elizabeth Lake

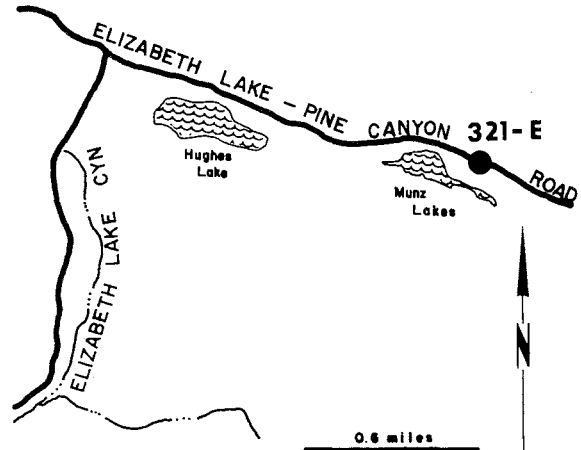
LATITUDE  
34° 40' 24"

LONGITUDE  
118° 25' 45"

ELEVATION  
3286'

LENGTH OF RECORD  
non-recording rain gage  
7/29/31 to date  
recording rain gage  
1/8/69 to date

ADDITIONAL  
INSTRUMENTATION  
Max-Min Thermometer  
Evaporation pan



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

Station No. 321E  
Foreign Station No. \_\_\_\_\_  
Quad-Index No. 96-72

SEASONAL RAINFALL AT Pine Canyon Patrol Station SEASON 1975-76  
Record Furnished by \_\_\_\_\_ Copied by \_\_\_\_\_ Date Copied \_\_\_\_\_

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1						.39						
2						.08						
3						.74						
4					.10		.10					.01
5					.57							T
6					1.32			.02				.16
7					.65			.19				T
8					.64		.29					
9					1.18							T
10					.30	.04			.05			2.55
11	.30						.02					1.30
12			.33									
13			.02				.38					
14					.06							
15							.16				.05	
16							.08				.03	
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27			T									
28			.19									
29			T									
30	.38											
31	.16											
TOTAL	.84	.19	.35	0	4.82	1.25	1.03	.21	.05	0	.08	4.02

SEASON TOTAL 12.84

STATION NO. 321-E  
PINE CANYON PATROL STATION

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

Station No. 321E  
Foreign Station No.  
Quad-Index No. 96-72

SEASON RAINFALL

1930-31 INC.  
1931-32 26.10  
1932-33 14.30  
1933-34 12.80  
1934-35 23.86  
1935-36 13.37  
1936-37 25.40  
1937-38 28.34  
1938-39 20.30  
1939-40 12.38  
1940-41 36.36  
1941-42 13.85  
1942-43 26.73  
1943-44 31.03  
1944-45 17.31  
1945-46 20.85  
1946-47 17.99  
1947-48 8.97  
1948-49 10.37  
1949-50 13.09  
1950-51 5.32  
1951-52 30.95  
1952-53 10.49  
1953-54 15.49  
1954-55 16.01  
1955-56 15.66  
1956-57 12.95  
1957-58 35.39  
1958-59 11.04  
1959-60 11.04  
1960-61 7.16  
1961-62 23.15  
1962-63 10.27  
1963-64 11.80  
1964-65 16.32  
1965-66 27.18  
1966-67 29.83  
1967-68 16.66  
1968-69 41.88  
1969-70 8.76  
1970-71 17.04  
1971-72 9.85  
1972-73 22.54  
1973-74 17.02  
1974-75 16.65  
1975-76 12.84  
1976-77 16.11

SEASONAL RAINFALL AT Pine Canyon Patrol Station SEASON 1976-77  
Record Furnished by \_\_\_\_\_ Copied by \_\_\_\_\_ Date Copied \_\_\_\_\_

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1				.11								
2				.04								
3				1.62								
4				.02								
5				.08								
6				2.38				.01				
7				1.90								
8								2.14				
9								1.65				
10								.10				
11												
12		.12						.10				
13												
14												
15												
16						.41						
17						.24					2.00	
18											.22	
19												
20	T											
21	.03			.25								
22				.01								
23				.01	.07			.08				
24					.09	.22		.05				
25						1.20						
26												.01
27												
28												
29												
30			.31			.13						
31			.18			.33						
TOTAL	.03	.12	.49	6.42	.16	2.53	0	4.13	0	0	2.22	.01

SEASON TOTAL 16.11

INC = INCOMPLETE

**STATION NO. 338B  
Mt. WILSON**



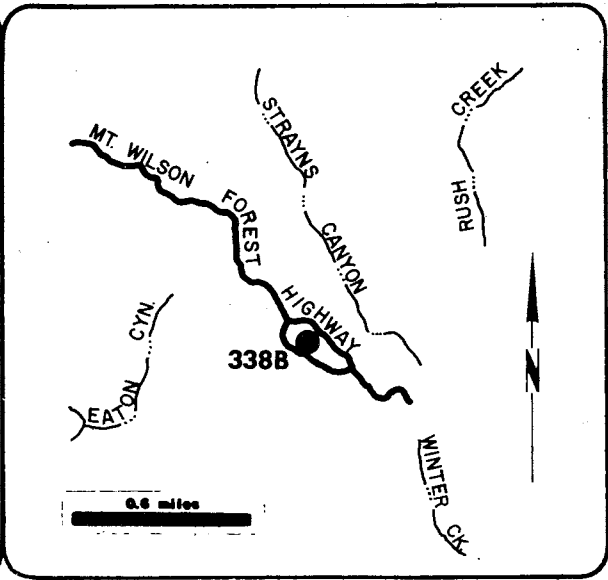
**LOCATION**  
Mt. Wilson Post Office  
one-half mile east  
of Observatory  
Mt. Wilson

**LATITUDE**  
34° 13' 36"

**LONGITUDE**  
118° 03' 57"

**ELEVATION**  
5709'

**LENGTH OF RECORD**  
non-recording rain gage  
10/1/39 to date  
recording rain gage  
3/24/41 to 3/22/72



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

Station No. 338B  
Foreign Station No. \_\_\_\_\_  
Quad-Index No. 52-37

**SEASONAL RAINFALL AT** Mount Wilson Airways **SEASON** 1975-76  
Record Furnished by \_\_\_\_\_ Copied by \_\_\_\_\_ Date Copied \_\_\_\_\_

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1						3.81						
2						2.06						
3						.20	.04					T
4					.54							
5					1.39			.12				.26
6	.09				3.00			.25				.05
7	.07				1.50			.13				.02
8					3.18		.26					
9					5.51							.04
10			T		.12	.02			.28			5.34
11	.26					.02	.05					5.40
12	.35		.77				.62					
13							1.36					
14							.04					
15							.40				.28	
16												
17												
18												
19												
20												
21												
22										.03		
23						.04						
24												T
25												.06
26												
27		.09										
28		.11										
29					.04							
30	.12											
31												
<b>TOTAL</b>	.89	.20	.77	0	15.32	6.11	2.77	.50	.28	.03	.28	11.17

**SEASON TOTAL** 38.32



STATION NO. 338B  
MT. WILSON

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

Station No. 338B  
Foreign Station No.  
Quad-Index No. 52-37

SEASON RAINFALL

1938-39 INC.  
1939-40 24.91\*\*  
1940-41 66.80  
1941-42 21.53  
1942-43 56.51  
1943-44 42.19  
1941-45 33.01  
1945-46 32.82  
1946-47 43.23  
1947-48 17.04  
1948-49 22.04  
1949-50 22.83  
1950-51 15.38  
1951-52 52.44  
1952-53 19.81  
1953-54 26.37  
1954-55 25.95  
1955-56 24.42  
1956-57 22.92  
1957-58 45.91  
1958-59 13.61  
1959-60 13.65  
1960-61 11.98  
1961-62 37.20  
1962-63 20.54  
1963-64 16.94  
1964-65 32.04  
1965-66 46.18  
1966-67 51.44  
1967-68 22.43  
1968-69 66.41  
1969-70 20.04  
1970-71 25.70\*\*  
1971-72 14.12  
1972-73 47.81  
1973-74 43.18  
1974-75 34.17  
1975-76 38.32  
1976-77 29.68

SEASONAL RAINFALL AT Mount Wilson Airways SEASON 1976-77  
Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1								.20				
2				.36								
3				2.51								
4												
5				.90				.03				
6				2.93								
7				4.37				T				
8								3.04				
9								3.39				
10								.21				
11												
12		1.22						.19				
13												
14		T										
15												
16						1.39		T			.17	
17						.64					1.85	
18											.59	
19												
20	.01											
21	T			.47								
22	.77			T								
23	.11				.32			.15				
24					.10	T		.30				
25						2.28						.02
26												
27												
28												
29												
30				.91								
31				.25		T						
TOTAL	.89	1.22	1.16	11.54	.42	4.31	0	7.51	0	0	2.61	.02

SEASON TOTAL 29.68

\*\* = ESTIMATED LESS THAN 10% OF THE TOTAL  
INC = INCOMPLETE

**STATION NO 425B-E  
SAN GABRIEL DAM**

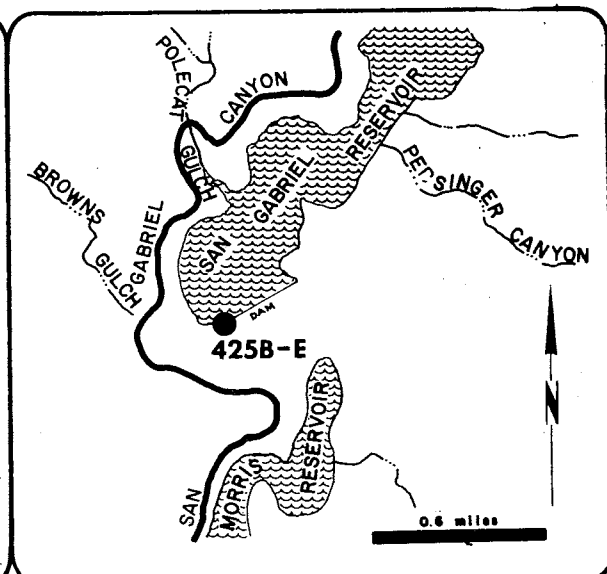


LOCATION  
Crest of San Gabriel Dam  
Crest of Spillway  
northeast of Azusa

LATITUDE  
34° 12' 19"  
LONGITUDE  
117° 51' 38"  
ELEVATION  
1481'

LENGTH OF RECORD  
non-recording rain gage  
10/11/37 to date  
recording rain gage  
11/3/37 to date

ADDITIONAL  
INSTRUMENTATION  
Max-Min Thermometer  
Evaporation pan



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

Station No. 425B-E  
Foreign Station No. ....  
Quad-Index No. 54-39

SEASONAL RAINFALL AT San Gabriel Dam SEASON 1975-76  
Record Furnished by..... Copied by..... Date Copied.....

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1						1.29						
2						1.40						
3						1.24						
4					T		.38					.05
5					.71		.05					
6					1.44							T
7	.12				.35			.18				
8					.60			T				T
9					2.13		.06					
10					2.05	.06			.02			.45
11	.30		T			.01			.05			4.35
12	.19		.03				.02					.03
13			.66		T		.92					
14			T				.19				.02	
15							T					.02
16							.25				.02	
17												
18												
19												
20												
21			T									
22	.02											
23										T		
24					.01							
25												.05
26												.02
27		.09								T		
28		.21								T		
29		.11										
30								T				
31	.18		T									
<b>TOTAL</b>	<b>.81</b>	<b>.41</b>	<b>.69</b>	<b>0</b>	<b>7.29</b>	<b>4.00</b>	<b>1.87</b>	<b>.18</b>	<b>.07</b>	<b>T</b>	<b>.04</b>	<b>4.97</b>

SEASON TOTAL 20.33

STATION NO. 425B-E  
SAN GABRIEL DAM

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

Station No. 425B-E  
Foreign Station No.  
Quad-Index No. 54-39

SEASON RAINFALL

1937-38	44.33
1938-39	29.41
1939-40	20.11
1940-41	53.46
1941-42	17.59
1942-43	47.56 B
1943-44	33.23
1944-45	28.89
1945-46	28.88
1946-47	29.31
1947-48	13.88
1948-49	16.10
1949-50	20.61
1950-51	12.69
1951-52	49.19
1952-53	16.71
1953-54	25.60
1954-55	19.88
1955-56	24.32
1956-57	21.82
1957-58	45.95
1958-59	15.82
1959-60	14.24
1960-61	11.57
1961-62	33.73
1962-63	17.37
1963-64	15.73
1964-65	22.32
1965-66	39.56
1966-67	47.42
1967-68	19.04
1968-69	65.09
1969-70	20.35
1970-71	21.16
1971-72	13.15
1972-73	36.24
1973-74	25.33
1974-75	21.80
1975-76	20.33
1976-77	18.80

SEASONAL RAINFALL AT San Gabriel Dam SEASON 1976-77  
Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1				.20			.05	.16			T	
2							T					
3				3.06			T					
4												
5				T								
6				1.39				T	T			
7				1.25				T				
8				.13				.77				
9								2.39	.01			
10								1.31				
11												
12		.65						.08				
13		.05						T				
14		.02						T				
15								.01				
16								.09		T		
17						.94		T			.78	
18											1.28	
19												
20												
21	T			.29								
22	.01			.02								
23	.37							.01				
24					.13	.01		.42				
25					.22	.89		.07				
26				.02		.43						
27							T					
28						.01						
29												
30				.16								
31				1.12								
TOTAL	.38	.72	1.28	6.36	.35	2.28	.05	5.31	.01	T	2.06	0

SEASON TOTAL 18.80

B = STATION MOVED TO B LOCATION JUNE 20, 1943

**STATION NO. 478  
VALYERMO**



LOCATION  
USFS Ranger Station  
Pearblossom Highway  
Valyermo

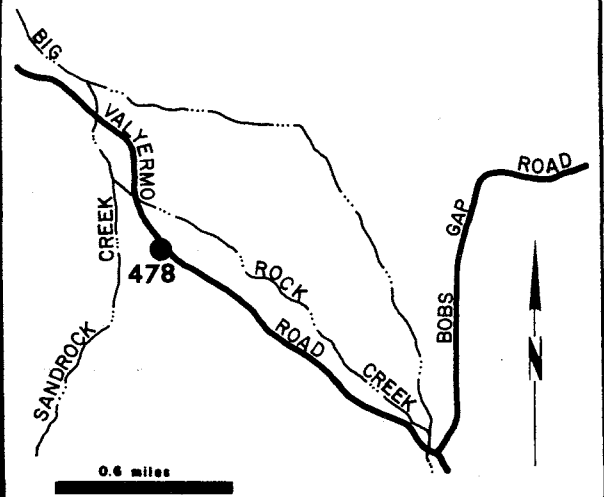
LATITUDE  
34° 26' 44"

LONGITUDE  
117° 51' 10"

ELEVATION  
3710'

LENGTH OF RECORD  
non-recording rain gage  
12/17/41 to date

ADDITIONAL  
INSTRUMENTATION  
Max-Min Thermometer



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

Station No. 478

Foreign Station No. \_\_\_\_\_

Quad-Index No. 77-45

SEASONAL RAINFALL AT Valyermo - USFS Headquarters SEASON 1975-76  
Record Furnished by \_\_\_\_\_ Copied by \_\_\_\_\_ Date Copied \_\_\_\_\_

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1						.09						
2												
3						.44						
4							.17					
5					.07		.07					.05
6					1.17							
7					.41			.18				
8					.52							
9					1.44							
10					.34							1.32
11												1.80
12			.01				.01					
13							.02					
14												
15							.08					
16												
17												
18												
19												
20												
21												
22										T		
23												
24												
25												
26												
27												
28			.01									
29												
30	.05											
31												
<b>TOTAL</b>	.05	.01	.01	0	3.95	.53	.35	.18	0	T	0	3.17

SEASON TOTAL 8.25

STATION NO. 478  
VALYERMO

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

Station No. 478  
Foreign Station No.  
Quad-Index No. 77-45

SEASON RAINFALL

1941-42 INC.  
1942-43 18.12  
1943-44 21.44\*\*  
1944-45 10.52\*\*  
1945-46 9.76  
1946-47 10.63  
1947-48 6.85  
1948-49 6.19  
1949-50 4.61  
1950-51 3.79  
1951-52 15.52  
1952-53 7.77  
1953-54 9.74\*\*  
1954-55 8.42  
1955-56 6.63  
1956-57 7.80  
1957-58 15.65  
1958-59 6.88  
1959-60 4.73  
1960-61 4.12  
1961-62 12.82  
1962-63 7.85  
1963-64 5.02  
1964-65 7.99  
1965-66 15.90  
1966-67 10.09  
1967-68 9.65  
1968-69 19.49  
1969-70 6.86  
1970-71 9.83  
1971-72 6.44  
1972-73 9.67  
1973-74 5.49  
1974-75 6.02  
1975-76 8.25  
1976-77 9.57\*

SEASONAL RAINFALL AT Valermo - USFS Headquarters SEASON 1976-77  
Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1												
2												
3				.76*								
4												
5				.07								
6				.45								
7				1.26								
8								1.94				
9								1.03				
10												
11												
12		.29						T				
13												
14	T											
15												
16												
17						.31*					2.02	
18											.50	
19												
20												
21				.38								
22												
23					.15*							
24								T				
25						.30						
26						.09						
27												
28												
29												
30						.01						
31			.01									
TOTAL	T	.29	.01	2.92*	.15*	.71*	0	2.97	0	0	2.52	0

SEASON TOTAL 2.57\*

\* = ESTIMATED GREATER THAN 10% OF THE TOTAL  
\*\* = ESTIMATED LESS THAN 10% OF THE TOTAL  
INC = INCOMPLETE

**STATION NO. 492A  
CHILAO**



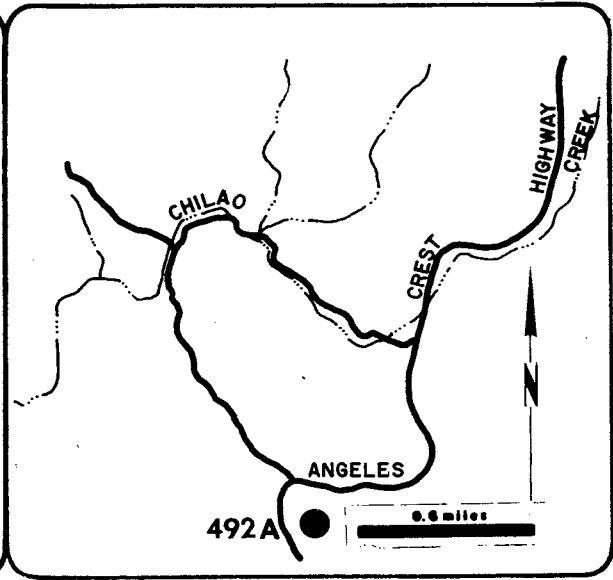
LOCATION  
Devils Canyon  
San Gabriel River  
West Fork

LATITUDE  
34° 19' 02"

LONGITUDE  
118° 00' 30"

ELEVATION  
5280'

LENGTH OF RECORD  
non-recording rain gage  
and recording rain gage  
October 10, 1944 to date



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

Station No. 492A  
Foreign Station No.  
Quad-Index No. 63-98

Chilao State Highway  
Maintenance Station

SEASONAL RAINFALL AT ..... SEASON 1975-76  
Record Furnished by ..... Copied by ..... Date Copied .....

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1						1.4						
2						.1						
3						.8						
4					.3		.4					1.1
5					.8							
6					2.2							.1
7					1.5			.1				
8					2.7		.2					
9					4.0							
10					.8	.2			.2			1.4
11	.3											3.5
12			.2									.1
13							.7					
14												
15												
16							.1					
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29		.1										
30	.1											
31	.1											
<b>TOTAL</b>	.5	.1	.2	0	12.3	2.5	1.4	.1	.2	0	0	6.2

SEASON TOTAL 23.5

STATION NO. 492A  
 CHILAO - STATE HIGHWAY MAINTENANCE STATION

LOS ANGELES COUNTY  
 FLOOD CONTROL DISTRICT  
 HYDRAULIC DIVISION

Station No. 492A  
 Foreign Station No.  
 Quad-Index No. 63-98

Chilao State Highway  
 Maintenance Station

SEASON RAINFALL

1944-45	21.42
1945-46	24.86
1946-47	26.15
1947-48	11.90
1948-49	12.75
1949-50	13.29
1950-51	9.02
1951-52	35.71
1952-53	11.53
1953-54	19.37
1954-55	19.31
1955-56	16.82
1956-57	17.69
1957-58	41.52
1958-59	12.47
1959-60	10.60
1960-61	9.86
1961-62	30.35
1962-63	16.64
1963-64	13.06
1964-65	22.33
1965-66	39.27
1966-67	32.07
1967-68	20.49
1968-69	49.29**
1969-70	16.56
1970-71	21.35
1971-72	13.25
1972-73	27.25
1973-74	22.08
1974-75	23.40
1975-76	23.5
1976-77	21.20

SEASONAL RAINFALL AT Chilao State Highway Maintenance Station SEASON 1976-77  
 Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1												
2												
3				1.8								
4												
5				.3								
6				1.8								
7				2.2								
8								3.8				
9								2.4				
10												
11												
12		.9						.1				
13		.1										
14												
15												
16						.7						
17						.3		.1			2.0	
18											.6	
19												
20												
21	.3			.2								
22	.4											
23					.2							
24	.1				.1	.2		.2				
25						1.4						
26						.3						
27												
28												
29												
30				.6								
31				.1								
<b>TOTAL</b>	.8	1.0	.7	6.3	.3	2.9	0	6.6	0	0	2.6	0

SEASON TOTAL 21.2

\*\* = ESTIMATED LESS THAN 10% OF THE TOTAL

**STATION NO. 610B  
PASADENA**



LOCATION  
City Hall  
Intersection of Garfield Avenue  
and Ramona Street  
Pasadena

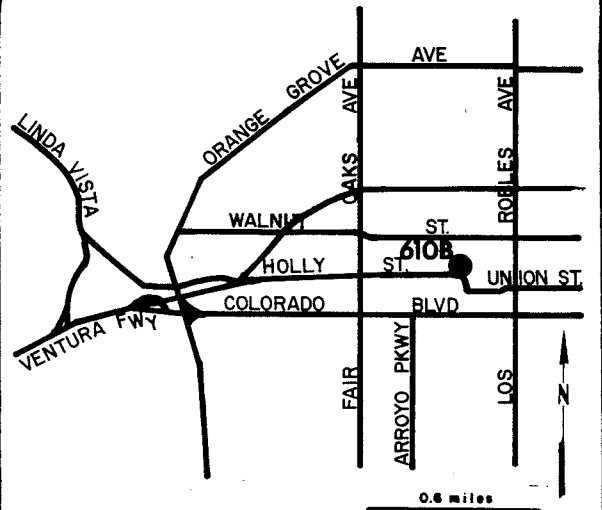
LATITUDE  
34° 08' 54"

LONGITUDE  
113° 08' 36"

ELEVATION  
864'

LENGTH OF RECORD  
non-recording rain gage  
9/3/35 to date

ADDITIONAL  
INSTRUMENTATION  
Max-Min Thermometer



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

Station No. 610B  
Foreign Station No. \_\_\_\_\_  
Quad-Index No. 40-56

SEASONAL RAINFALL AT Pasadena City Hall SEASON 1975-76  
Record Furnished by \_\_\_\_\_ Copied by \_\_\_\_\_ Date Copied \_\_\_\_\_

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1						1.36						
2						.01						
3						.85		T				T
4					.23		.32	.01				.28
5					.44		T	T				
6	.04				1.42							.23
7	.11				.46			.11				.02
8					.54		.15					
9					1.53							
10					.15	.09			.15			1.10
11	.15					.02						2.16
12			.34				T					T
13			.19				.64					
14												
15							.04			.01	.24	.12
16												
17												
18												
19												
20												
21												
22	.01									.02		
23												
24					.02							
25												.02
26												
27		.04										
28		.07										
29												
30	.07											
31												
<b>TOTAL</b>	.38	.11	.53	0	4.80	2.33	1.15	.12	.15	.03	.24	3.93

SEASON TOTAL 13.77



STATION NO. 6108  
PASADENA

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

Station No. 6108  
Foreign Station No.  
Quad-Index No. 40-56

SEASON RAINFALL

1924-25 12.85  
1925-26 22.42  
1926-27 25.13  
1927-28 13.59  
1928-29 16.42  
1929-30 15.79  
1930-31 17.63  
1931-32 22.37  
1932-33 16.16  
1933-34 21.38  
1934-35 26.98 B  
1935-36 15.73  
1936-37 28.79  
1937-38 31.39  
1938-39 23.71  
1939-40 17.05  
1940-41 46.41  
1941-42 15.13  
1942-43 32.83  
1943-44 25.55  
1944-45 16.87  
1945-46 16.50  
1946-47 20.94  
1947-48 10.50  
1948-49 12.25  
1949-50 15.66  
1950-51 11.06  
1951-52 36.75  
1952-53 13.85  
1953-54 16.47  
1954-55 16.05  
1955-56 18.66  
1956-57 15.63  
1957-58 30.88  
1958-59 9.96  
1959-60 9.58  
1960-61 7.28  
1961-62 24.24  
1962-63 11.69  
1963-64 10.51  
1964-65 16.30  
1965-66 24.18  
1966-67 26.05  
1967-68 16.07  
1968-69 32.76  
1969-70 11.42  
1970-71 15.78  
1971-72 8.76  
1972-73 25.80  
1973-74 18.70  
1974-75 15.49  
1975-76 13.77  
1976-77 15.64

SEASONAL RAINFALL AT Pasadena City Hall SEASON 1976-77  
Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1								T				
2				.02			T					
3				1.77								
4												
5				.12				T				
6				.97								
7				1.37								
8								1.50				
9								1.82	.01			
10								.11				
11												
12			.83					.06				
13								T				
14		T										
15												
16						.65					T	
17						.19					2.16	
18											.11	
19												
20												
21	T			.21								
22				T								
23	1.44				.18			.10				
24	T				.06	T		.09				
25						1.07		T				
26						.05						
27												T
28												T
29												
30				.30								
31				.45		T						
TOTAL	1.44	.83	.75	4.46	.24	1.96	T	3.86	.01	0	2.27	T

SEASON TOTAL 15.64

B = STATION MOVED TO LOCATION B SEPTEMBER 3, 1935

**STATION NO. 634C  
SANTA MONICA**



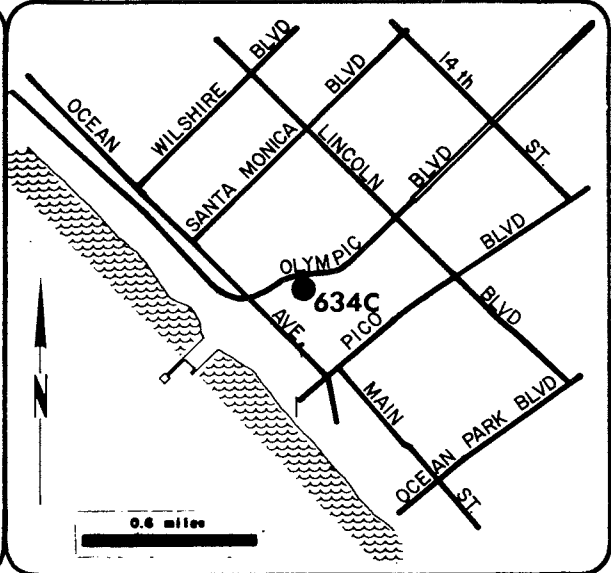
LOCATION  
City Hall  
1685 Main Street  
Santa Monica

LATITUDE  
32° 00' 43"

LONGITUDE  
118° 29' 27"

ELEVATION  
94'

LENGTH OF RECORD  
non-recording rain gage  
2/1/27 to date



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

Station No. 634C  
Foreign Station No. \_\_\_\_\_  
Quad-Index No. 25-08

SEASONAL RAINFALL AT Santa Monica SEASON 1975-76  
Record Furnished by \_\_\_\_\_ Copied by \_\_\_\_\_ Date Copied \_\_\_\_\_

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1						.60						
2						.02						
3						.26						
4					.12		.31					
5					.08							
6	T				.38							.19
7					.38			T				
8					.40		.08					
9					.91							
10					.32	.12			.15			1.46
11	.56						.04					.34
12			.04									
13							.18					.16
14												
15							.02			T		.02
16												
17												
18												
19												
20												T
21												
22										.01		
23												
24					.02							
25												
26												
27		T						T				
28		.01										
29												.18
30	.06											.04
31												
<b>TOTAL</b>	.62	.01	.04	0	2.61	1.00	.63	T	.15	.01	0	2.39

SEASON TOTAL 7.46

STATION NO. 634C  
SANTA MONICA

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

Station No. 634C  
Foreign Station No.  
Quad-Index No. 25-08

SEASON RAINFALL

SEASONAL RAINFALL AT Santa Monica SEASON 1976-77  
Record Furnished by..... Copied by..... Date Copied.....

1926-27 INC.  
1927-28 9.70  
1928-29 11.44  
1929-30 9.59  
1930-31 12.46  
1931-32 14.84  
1932-33 11.34  
1933-34 12.39  
1934-35 18.56  
1935-36 12.31  
1936-37 21.47  
1937-38 22.32  
1938-39 17.26  
1939-40 15.89 B  
1940-41 32.49  
1941-42 12.07  
1942-43 16.16  
1943-44 18.30  
1944-45 13.10  
1945-46 11.40  
1946-47 11.98  
1947-48 6.29  
1948-49 8.86  
1949-50 10.54  
1950-51 7.57  
1951-52 26.26  
1952-53 11.70  
1953-54 13.87\*\*  
1954-55 11.03  
1955-56 15.41  
1956-57 11.09  
1957-58 23.05 C  
1958-59 6.79  
1959-60 10.07  
1960-61 6.50  
1961-62 22.96  
1962-63 11.59  
1963-64 8.06  
1964-65 14.16  
1965-66 16.23  
1966-67 17.67  
1967-68 15.76  
1968-69 24.54  
1969-70 7.23  
1970-71 12.78  
1971-72 6.54  
1972-73 17.79  
1973-74 14.67  
1974-75 12.33  
1975-76 7.46  
1976-77 29.52

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1								.01				
2												
3				.64								
4												
5				.09					T			
6				1.51					T			
7				.95				.30	T			
8				.10				1.51	T			
9								.68	T			
10												
11												
12		.48						.05				
13												
14		.01										
15												
16						.47					T	
17						.20					2.60	
18											.33	
19												
20												
21	.04			.02								
22												
23	.11				.20			.02				
24					.22			.08				
25				T		.68						
26				T		T						.01
27												
28				.20								
29												
30				.92								
31				.37								
TOTAL	.15	.49	1.29	3.51	.42	1.35	0	2.65	T	0	2.93	.01

SEASON TOTAL 12.80

B = STATION MOVED TO LOCATION B OCTOBER 1, 1939  
C = STATION MOVED TO LOCATION C SEPTEMBER 1, 1958  
\*\*  
INC

**STATION NO. 716  
LOS ANGELES-  
DUCOMMUN ST.**



LOCATION  
Los Angeles DWP Service Yard  
410 Ducommun Street  
Los Angeles

LATITUDE

34° 03' 09"

LONGITUDE

118° 14' 13"

ELEVATION

306'

LENGTH OF RECORD

non-recording rain gage

2/22/1872 to date

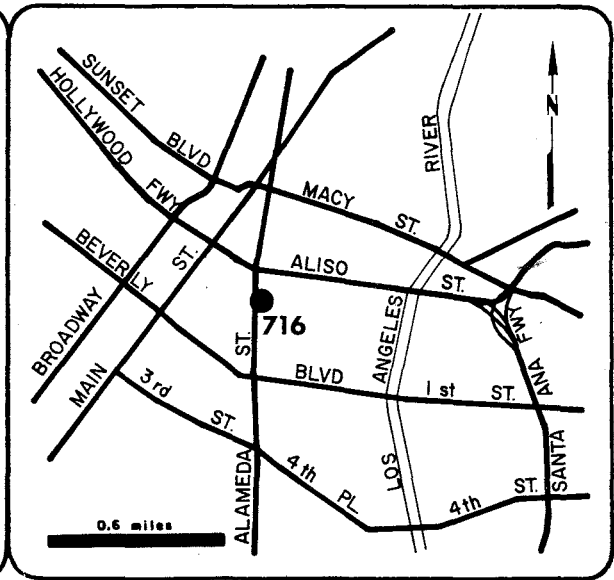
recording rain gage

2/19/1897 to date

ADDITIONAL

INSTRUMENTATION

Max-Min Thermometer



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

Station No. 716

Foreign Station No. \_\_\_\_\_

Quad-Index No. 27-64

SEASONAL RAINFALL AT Los Angeles - Ducommun Street SEASON 1975-76

Record Furnished by \_\_\_\_\_ Copied by \_\_\_\_\_ Date Copied \_\_\_\_\_

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1						.79						
2						.22						
3						.60						
4					.02		.19					.05
5					.33		.10	T				
6					1.45							.19
7	.05				.20			.05				
8					.24		.06					
9					.92		.08					
10					.53	.20			.12			.82
11	.17								.22			1.17
12												.05
13				.32			.35					
14												
15												.01
16							.06				.08	
17												
18												
19												
20					T							
21												
22												
23										T		
24					.02							
25												.53
26												
27												
28		T										
29												T
30												
31	.05											
<b>TOTAL</b>	.27	T	.32	0	3.71	1.81	.84	.05	.34	T	.08	2.82

SEASON TOTAL 10.24

STATION NO. 716  
LOS ANGELES - DUCOMMUN ST.

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

Station No. 716  
Foreign Station No.  
Quad-Index No. 27-64

SEASON RAINFALL

SEASONAL RAINFALL AT Los Angeles - Ducommun Street SEASON 1976-77  
Record Furnished by \_\_\_\_\_ Copied by \_\_\_\_\_ Date Copied \_\_\_\_\_

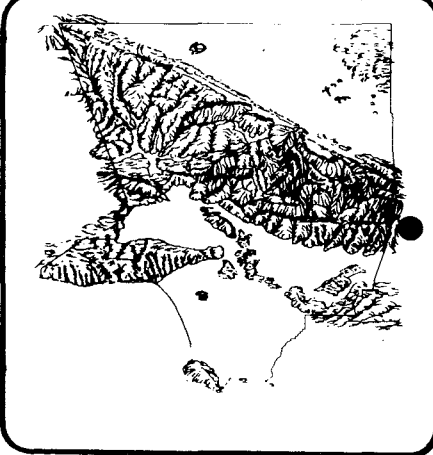
1871-72	INC.	A	1925-26	17.56
1872-73	14.84		1926-27	17.76
1873-74	23.78		1927-28	9.77
1874-75	18.93		1928-29	12.98
1875-76	26.07		1929-30	11.21
1876-77	5.54	B	1930-31	12.78
1877-78	21.26		1931-32	16.83
1878-79	11.35		1932-33	11.75
1879-80	20.34		1933-34	14.68
1880-81	13.13	C	1934-35	21.63
1881-82	10.40		1935-36	12.02
1882-83	12.11		1936-37	22.35
1883-84	38.18		1937-38	23.44
1884-85	9.21		1938-39	18.74
1885-86	22.76		1939-40	13.54
1886-87	13.82		1940-41	35.60
1887-88	13.76		1941-42	11.80
1888-89	19.78	D	1942-43	19.68
1889-90	34.32		1943-44	18.78
1890-91	13.33		1944-45	10.78
1891-92	11.80		1945-46	11.07
1892-93	26.27		1946-47	13.08
1893-94	7.47		1947-48	7.00
1894-95	15.37		1948-49	7.73
1895-96	8.54		1949-50	10.65
1896-97	16.83		1950-51	7.47
1897-98	7.15		1951-52	26.98
1898-99	5.51		1952-53	9.76
1899-00	7.90		1953-54	13.07
1900-01	16.41		1954-55	12.79
1901-02	10.48		1955-56	18.17
1902-03	19.75	E	1956-57	10.66
1903-04	8.74		1957-58	23.37**
1904-05	19.07		1958-59	6.13
1905-06	18.75		1959-60	9.37
1906-07	19.20		1960-61	5.59
1907-08	13.02	F	1961-62	21.46
1908-09	17.92		1962-63	10.88
1909-10	12.64		1963-64	7.12
1910-11	17.36		1964-65	15.57
1911-12	10.37		1965-66	18.92
1912-13	13.45		1966-67	22.84
1913-14	23.63		1967-68	15.71
1914-15	17.04		1968-69	27.81
1915-16	20.69		1969-70	7.77
1916-17	14.49		1970-71	12.09
1917-18	14.53		1971-72	7.43
1918-19	9.20		1972-73	21.16
1919-20	11.27		1973-74	14.98
1920-21	14.23		1974-75	14.43
1921-22	19.04		1975-76	10.24
1922-23	10.14		1976-77	11.65
1923-24	6.12			
1924-25	7.94			

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1				.08			T	.04				
2												
3				.92								
4												
5												
6				.46								
7				1.25								
8				.02				.68				
9								1.96				
10								.13				
11								.04				
12		.48						T				
13												
14												
15		.01										
16						.04						
17						.76					.73	
18											1.53	
19												
20												
21	.02			.16								
22												
23	.22				T							
24					.12			.18				
25					.05	.96						
26						.13						T
27												
28												T
29				.01								
30				.07								
31				.60								
TOTAL	.24	.49	.67	2.90	.17	1.89	T	3.03	0	0	2.26	T

SEASON TOTAL 11.65

- A = COMPOSITE RECORD BEGAN AT STATION 580 ON FEBRUARY 22, 1872
- B = STATION MOVED TO 577A JULY 1, 1877
- C = STATION MOVED TO 577B JANUARY 28, 1881
- D = STATION MOVED TO 577C NOVEMBER 2, 1888
- E = STATION MOVED TO 577D OCTOBER 16, 1902
- F = STATION MOVED TO 577E AUGUST 2, 1908
- G = STATION MOVED TO 715B AUGUST 15, 1953
- H = STATION MOVED TO 716 OCTOBER 1, 1959
- INC = INCOMPLETE
- \*\* = ESTIMATED LESS THAN 10% OF THE TOTAL

# ICEHOUSE NO 4 SNOW COURSE



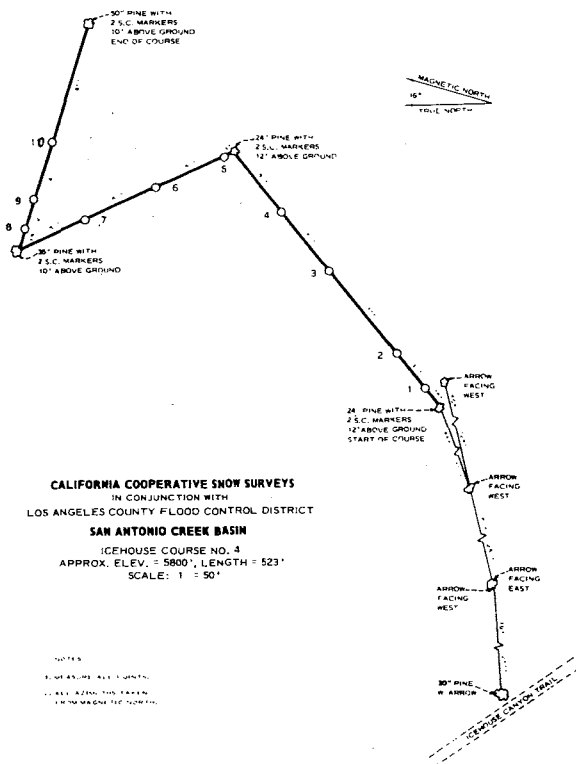
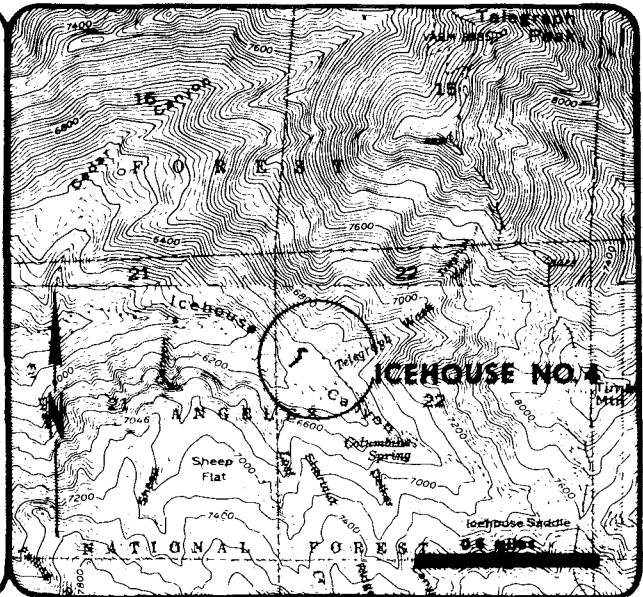
**LOCATION**  
5 miles northeast of  
Mt. Baldy Ranger Station  
Icehouse Canyon  
southern exposure

**ELEVATION**  
6300'

**LENGTH OF COURSE**  
523'

**DRAINAGE AREA**  
San Antonio Creek

**PERIOD OF RECORD**  
April 1, 1955, to date



## SUMMARY OF ANNUAL SNOW SURVEY DATA - ICE HOUSE NO 4

SEASON	AVERAGE SNOW DEPTH (IN INCHES)	AVERAGE WATER CONTENT (IN INCHES)	DENSITY (PERCENT)
1954-55	0	0	
1955-56	5.4	1.8	33
1956-57	0	0	
1957-58	16.5	7.1	43
1958-59	0	0	
1959-60	0	0	
1960-61	0	0	
1961-62	0	0	
1962-63	0	0	
1963-64	0	0	
1964-65	NO RECORD		
1965-66	0	0	
1966-67	3.4	1.3	38
1967-68	0	0	
1968-69	12.4	5.1	41
1969-70	0	0	
1970-71	0	0	
1971-72	0	0	
1972-73	15.2	6.0	32
1973-74	0	0	0
1974-75	2.5	0.8	32
1975-76	0	0	0
1976-77	+	+	

+ = PATCHES OF SNOW

# MANKER FLAT SNOW COURSE

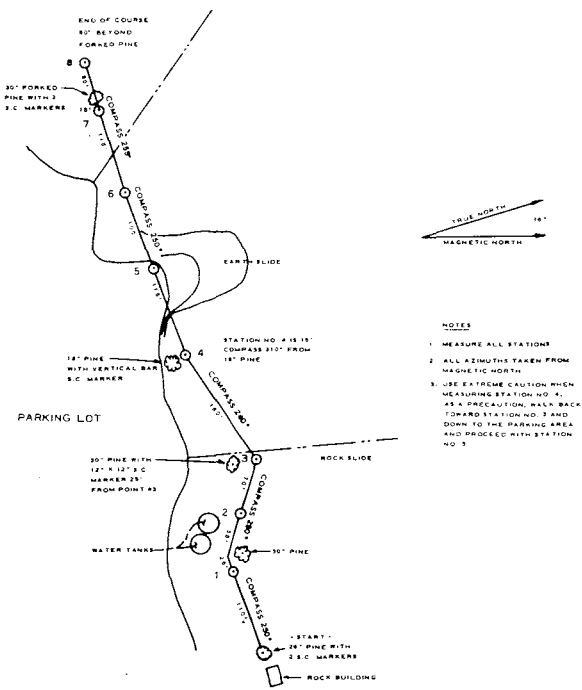
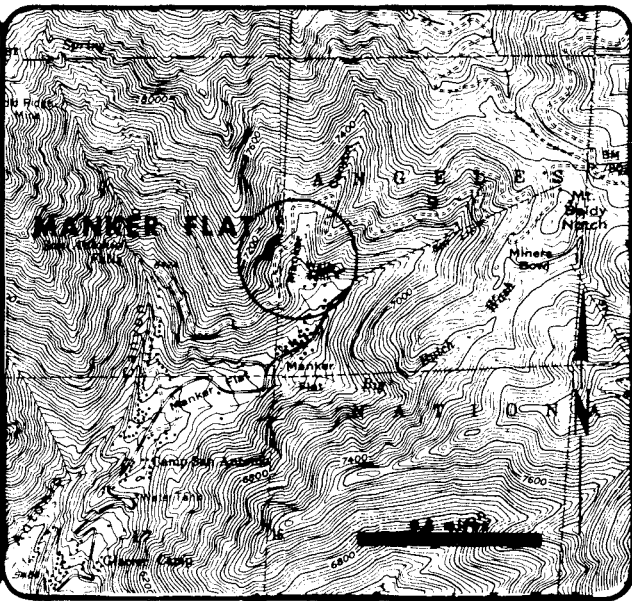
**LOCATION**  
 200 feet west of base of  
 Mt. Baldy Ski Lift  
 San Gabriel Mountains  
 southern exposure

**ELEVATION**  
 6500'

**LENGTH OF COURSE**  
 815'

**DRAINAGE AREA**  
 San Antonio Creek

**PERIOD OF RECORD**  
 April 1, 1955, to date



**CALIFORNIA COOPERATIVE SNOW SURVEYS**  
 IN CONJUNCTION WITH  
 LOS ANGELES COUNTY FLOOD CONTROL DISTRICT  
**SAN ANTONIO CREEK BASIN**  
**MANKER FLAT COURSE**  
 APPROX. ELEV. = 6500', TOTAL LENGTH 815'  
 SCALE: 1" = 100'

## SUMMARY OF ANNUAL SNOW SURVEY DATA - MANKER FLAT

SEASON	AVERAGE SNOW DEPTH (IN INCHES)	AVERAGE WATER CONTENT (IN INCHES)	DENSITY (PERCENT)
1954-55	0	0	
1955-56	+	+	
1956-57	0	0	
1957-58	14.0	7.3	52
1958-59	0	0	
1959-60	0	0	
1960-61	0	0	
1961-62	0	0	
1962-63	0	0	
1963-64	4.1	1.9	46
1964-65	20.6	5.8	28
1965-66	0	0	
1966-67	2.4	0.7	29
1967-68	0	0	
1968-69	0	0	
1969-70	0	0	
1970-71	0	0	
1971-72	0	0	
1972-73	17.8	7.4	41
1973-74	0	0	0
1974-75	0	0	0
1975-76	COURSE DISCONTINUED		

+ = PATCHES OF SNOW

# LOWER THUNDER MTN. SNOW COURSE



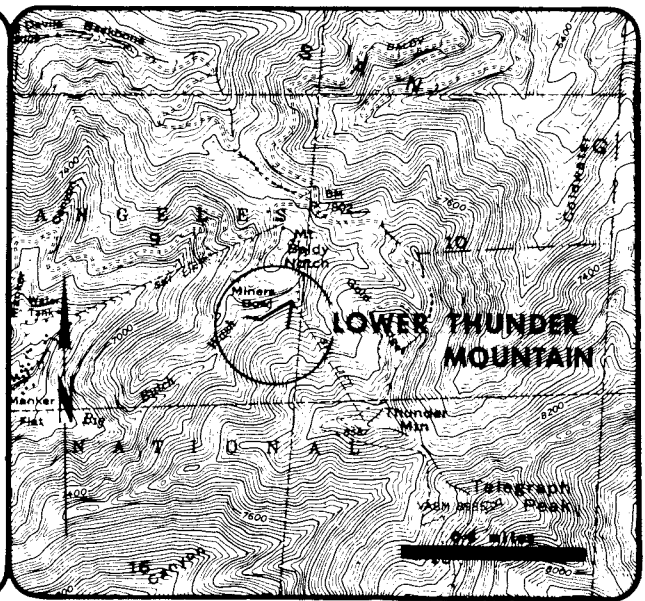
**LOCATION**  
 Just west of base of  
 Thunder Mountain Chair Lift  
 Mt. Baldy  
 San Gabriel Mountains  
 northern exposure

**ELEVATION**  
 7500'

**LENGTH OF COURSE**  
 1181'

**DRAINAGE AREA**  
 San Antonio Creek

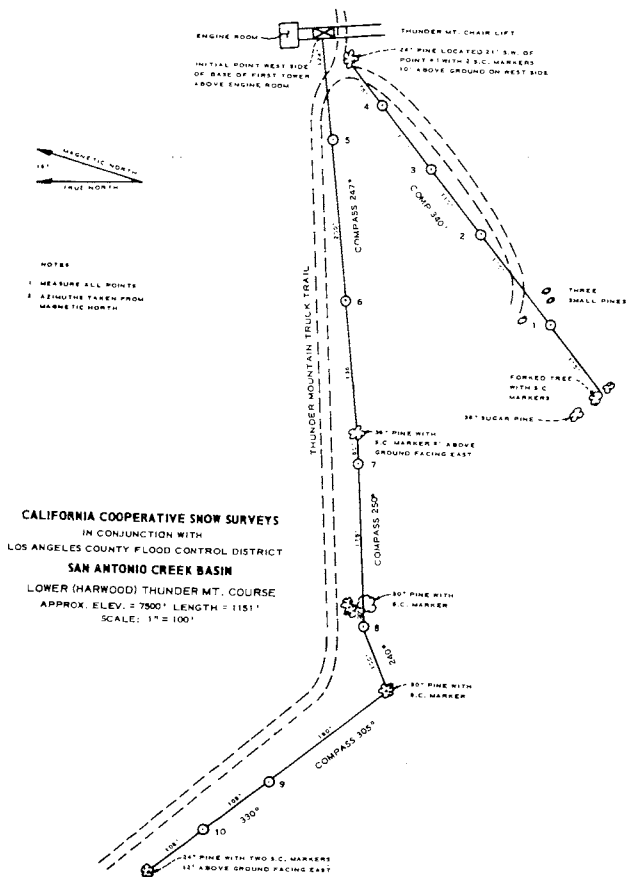
**PERIOD OF RECORD**  
 April 1, 1955, to date



## SUMMARY OF ANNUAL SNOW SURVEY DATA - LOWER THUNDER MOUNTAIN

SEASON	AVERAGE SNOW DEPTH (IN INCHES)	AVERAGE WATER CONTENT (IN INCHES)	DENSITY (PERCENT)
1954-55	1.1	0.5	45
1955-56	7.6	2.3	30
1956-57	0.3	0.1	33
1957-58	62.5	28.3	45
1958-59	1.8	0.7	39
1959-60	4.8	2.3	48
1960-61	0	0	
1961-62	25.5	11.8	46
1962-63	2.5	0.9	36
1963-64	12.2	5.2	43
1964-65	28.3	5.8	20
1965-66	1.6	0.8	50
1966-67	20.6	6.4	31
1967-68	5.9	2.7	46
1968-69	46.8	24.0	51
1969-70	9.5	3.8	40
1970-71	8.6	4.4	51
1971-72	+	+	
1972-73	90.0	38.9	43
1973-74	17.0	7.7	45
1974-75	23.4	10.0	43
1975-76	14.0	6.2	44
1976-77	14.8	5.1	34

+ = PATCHES OF SNOW





# UPPER THUNDER MTN. SNOW COURSE



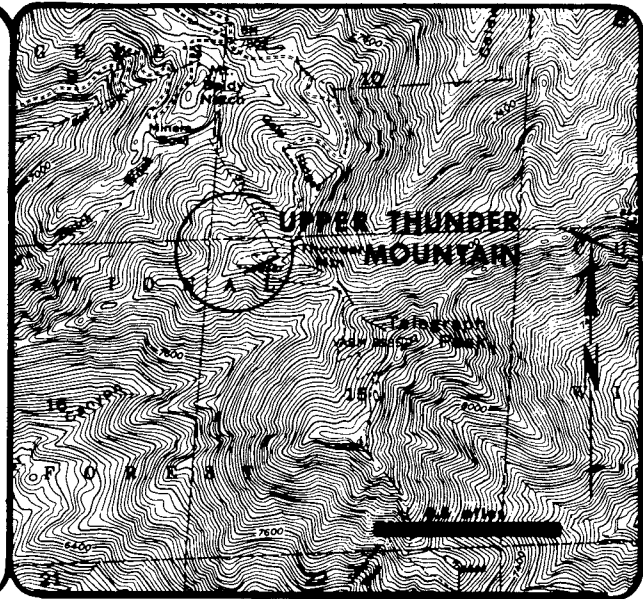
**LOCATION**  
Just west of upper end of  
Thunder Mountain Chair Lift  
Mt. Baldy  
San Gabriel Mountains  
northern exposure

**ELEVATION**  
8500'

**LENGTH OF COURSE**  
665'

**DRAINAGE AREA**  
San Antonio Creek

**PERIOD OF RECORD**  
April 1, 1955, to date

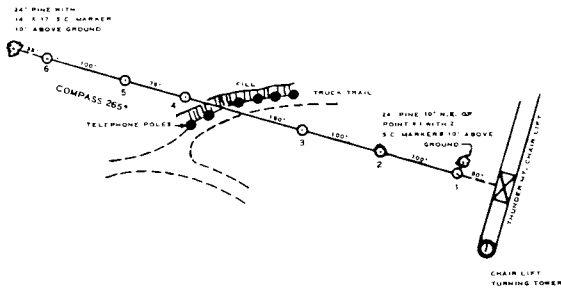


**NOTES**  
1. MEASURE ALL POINTS  
2. ALL AZIMUTHS TAKEN FROM  
MAGNETIC NORTH

## SUMMARY OF ANNUAL SNOW SURVEY DATA - UPPER THUNDER MOUNTAIN

SEASON	AVERAGE SNOW DEPTH (IN INCHES)	AVERAGE WATER CONTENT (IN INCHES)	DENSITY (PERCENT)
1954-55	13.0	5.8	45
1955-56	23.0	7.6	33
1956-57	20.1	9.5	47
1957-58	128.0	48.0	38
1958-59	29.9	14.1	47
1959-60	8.7	3.1	36
1960-61	0	0	
1961-62	82.1	40.7	50
1962-63	19.8	8.3	42
1963-64	31.3	12.7	44
1964-65	47.3	11.5	24
1965-66	22.6	12.1	54
1966-67	52.0	17.3	33
1967-68	37.6	15.5	41
1968-69	133.4	61.5	46
1969-70	34.7	13.8	40
1970-71	53.0	27.0	51
1971-72	+	+	
1972-73	96.5	37.0	39
1973-74	65.4	26.8	41
1974-75	43.6	17.4	40
1975-76	53.2	23.3	44
1976-77	10.4	4.0	38

+ = PATCHES OF SNOW



**CALIFORNIA COOPERATIVE SNOW SURVEYS**  
IN CONJUNCTION WITH  
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT  
**SAN ANTONIO CREEK BASIN**  
UPPER (HARWOOD) THUNDER MT. COURSE  
APPROX. ELEV. = 8500'; LENGTH = 665'  
SCALE: 1" = 100'

# BLUE RIDGE SNOW COURSE



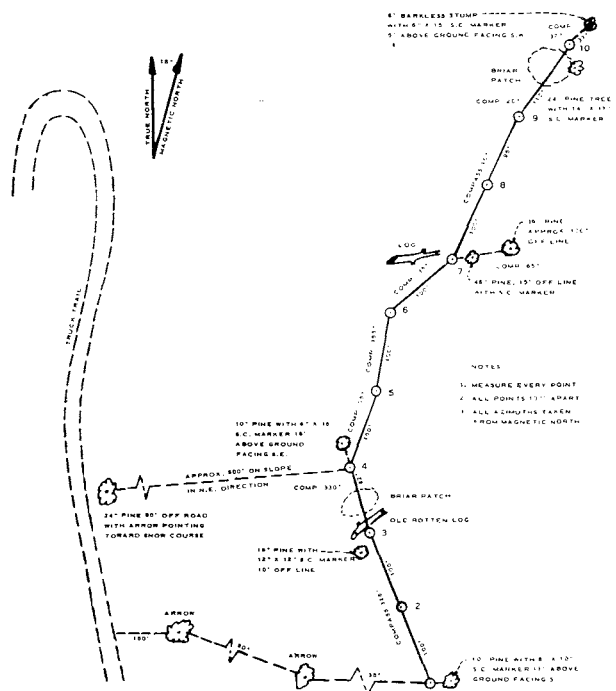
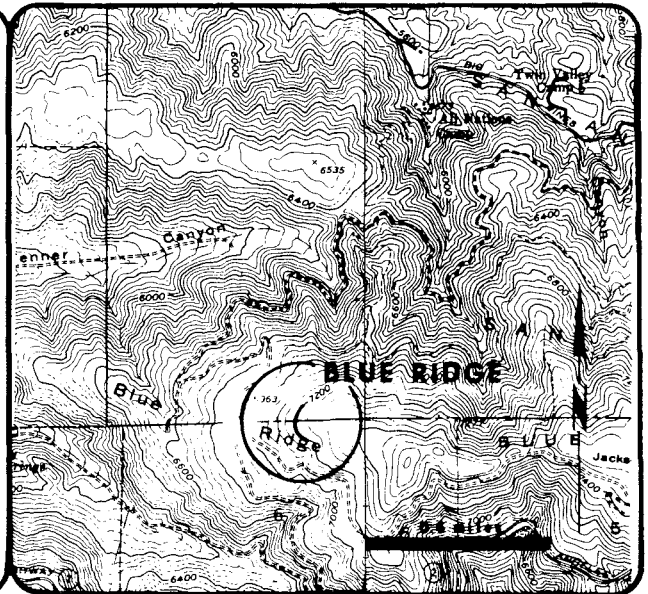
**LOCATION**  
1 mile north of Highway 2  
10 miles west of Wrightwood  
San Gabriel Mountains  
southern exposure

**ELEVATION**  
7200'

**LENGTH OF COURSE**  
900'

**DRAINAGE AREA**  
Big Rock Creek

**PERIOD OF RECORD**  
April 1, 1959 to date



**CALIFORNIA COOPERATIVE SNOW SURVEYS**  
IN CONJUNCTION WITH  
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT  
**BIG ROCK CREEK BASIN**  
**BLUE RIDGE COURSE**  
APPROX. ELEV. 7200' LENGTH 900'  
SCALE: 1" = 100'

## SUMMARY OF ANNUAL SNOW SURVEY DATA - BLUE RIDGE

SEASON	AVERAGE SNOW DEPTH (IN INCHES)	AVERAGE WATER CONTENT (IN INCHES)	DENSITY (PERCENT)
1958-59	2.4	1.1	46
1959-60	0	0	
1960-61	0	0	
1961-62	17.9	8.6	48
1962-63	+	+	
1963-64	6.9	2.5	36
1964-65	20	5.5	28
1965-66	1.1	0.4	36
1966-67	13.7	3.8	28
1967-68	0	0	
1968-69	29.4	14.8	50
1969-70	3.2	1.1	34
1970-71	1.1	0.6	55
1971-72	0	0	
1972-73	35.9	16.5	48
1973-74	6.5	2.6	40
1974-75	10.4	4.0	38
1975-76	5.7	2.6	46
1976-77	5.8	2.0	34

+ = PATCHES OF SNOW

# ISLIP NO. 2 SNOW COURSE



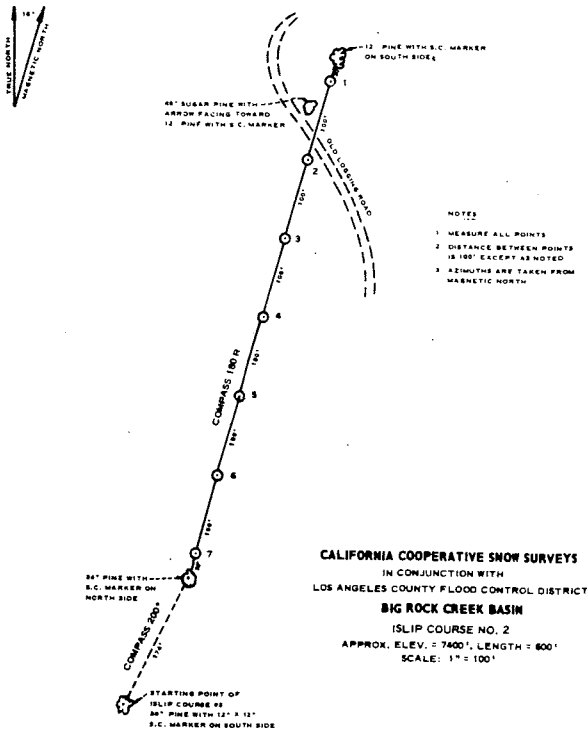
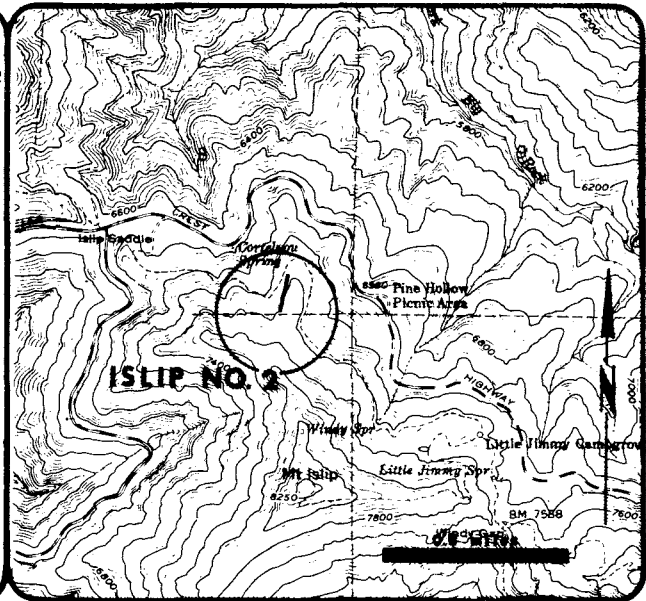
**LOCATION**  
0.50 mile southwest of Highway 2  
6 miles east of Highway 39  
San Gabriel Mountains  
northern exposure

**ELEVATION**  
7400'

**LENGTH OF COURSE**  
630'

**DRAINAGE AREA**  
Big Rock Creek

**PERIOD OF RECORD**  
April 1, 1944, to date



## SUMMARY OF ANNUAL SNOW SURVEY DATA - ISLIP NO 2

SEASON	AVERAGE SNOW DEPTH (IN INCHES)	AVERAGE WATER CONTENT (IN INCHES)	DENSITY (PERCENT)
1943-44	84.7	40.7	48
1944-45	24.8	10.9	44
1945-46	35.2	17.3	49
1946-47	+	+	
1947-48	21.3	8.8	41
1948-49	47.1	21.5	46
1949-50	+	+	
1950-51	0.7	0.3	43
1951-52	84.0	42.0	50
1952-53	6.7	3.6	54
1953-54	32.1	14.6	45
1954-55	12.5	6.2	50
1955-56	18.1	7.1	39
1956-57	0.6	0.3	50
1957-58	75.7	37.1	49
1958-59	6.8	3.6	53
1959-60	0	0	
1960-61	0	0	
1961-62	56.4	30.7	54
1962-63	5.2	2.2	42
1963-64	16.3	6.6	40
1964-65	41.6	11.1	27
1965-66	0	0	
1966-67	29.8	12.4	42
1967-68	3.9	1.6	41
1968-69	58.0	30.4	52
1969-70	19.7	11.3	57
1970-71	7.2	3.3	46
1971-72	0	0	
1972-73	86.7	39.7	46
1973-74	28.9	15.1	52
1974-75	36.0	16.0	44
1975-76	37.4	18.4	49
1976-77	15.3	6.6	43

+ = PATCHES OF SNOW

# ISLIP NO 3 SNOW COURSE

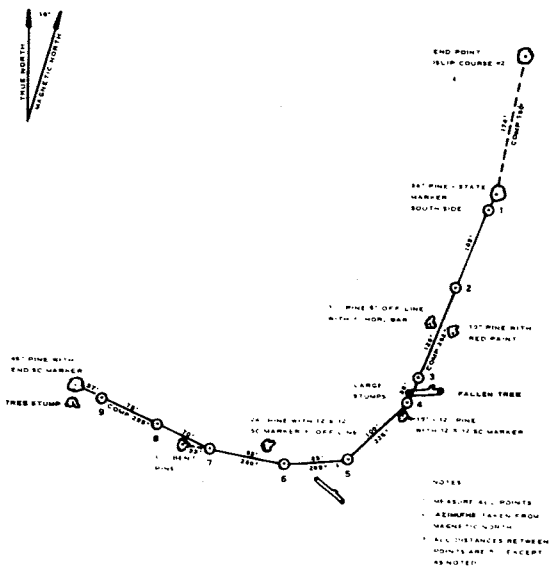
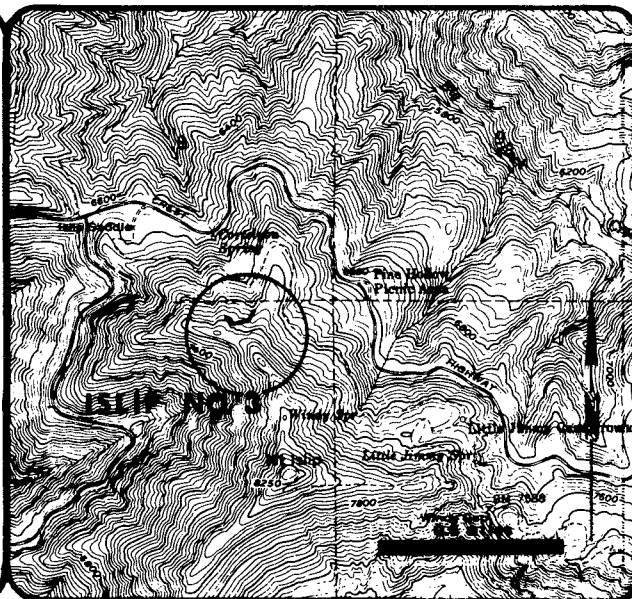
**LOCATION**  
0.50 mile southwest of Highway 2  
6 miles east of Highway 39  
San Gabriel Mountains  
northern exposure

**ELEVATION**  
7600'

**LENGTH OF COURSE**  
654'

**DRAINAGE AREA**  
Big Rock Creek

**PERIOD OF RECORD**  
April 1, 1945, to date



**CALIFORNIA COOPERATIVE SNOW SURVEYS**  
IN CONJUNCTION WITH  
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT  
**BIG ROCK CREEK BASIN**  
ISLIP COURSE NO. 3  
APPROX. ELEV. = 7600' LENGTH = 654'  
SCALE 1" = 100'

## SUMMARY OF ANNUAL SNOW SURVEY DATA - ISLIP NO 3

SEASON	AVERAGE SNOW DEPTH (IN INCHES)	AVERAGE WATER CONTENT (IN INCHES)	DENSITY (PERCENT)
1944-45	38.7	12.2	32
1945-46	49.6	20.9	42
1946-47	26.8	13.1	49
1947-48	44.5	16.3	37
1948-49	59.2	27.1	46
1949-50	4.8	2.1	44
1950-51	7.0	2.6	37
1951-52	110.5	50.5	46
1952-53	24.3	11.7	48
1953-54	57.9	22.7	39
1954-55	31.0	15.4	50
1955-56	22.8	8.1	36
1956-57	4.1	1.8	44
1957-58	89.1	44.6	50
1958-59	23.7	11.0	46
1959-60	3.7	1.2	32
1960-61	0.8	0.6	75
1961-62	71.7	33.7	47
1962-63	11.5	4.8	42
1963-64	29.2	10.4	36
1964-65	45.4	11.4	25
1965-66	11.3	4.6	41
1966-67	54.6	25.3	46
1967-68	21.8	9.3	43
1968-69	78.3	35.6	45
1969-70	35.4	15.6	44
1970-71	27.0	11.0	41
1971-72	1.4	0.6	43
1972-73	99.7	38.7	39
1973-74	51.1	26.7	52
1974-75	56.4	21.6	38
1975-76	55.2	25.9	47
1976-77	37.2	13.3	36

# ISLIP NO. 4 SNOW COURSE



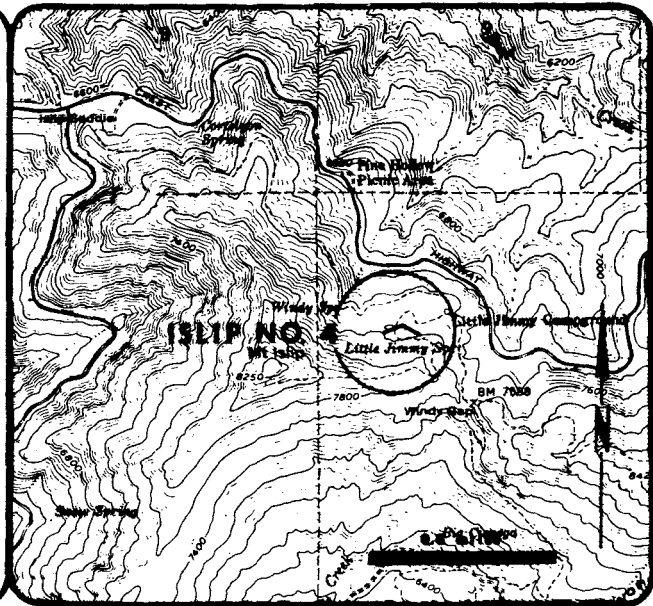
**LOCATION**  
0.50 mile southwest of Highway 2  
6.5 miles east of Highway 39  
San Gabriel Mountains  
northern exposure

**ELEVATION**  
7570'

**LENGTH OF COURSE**  
635'

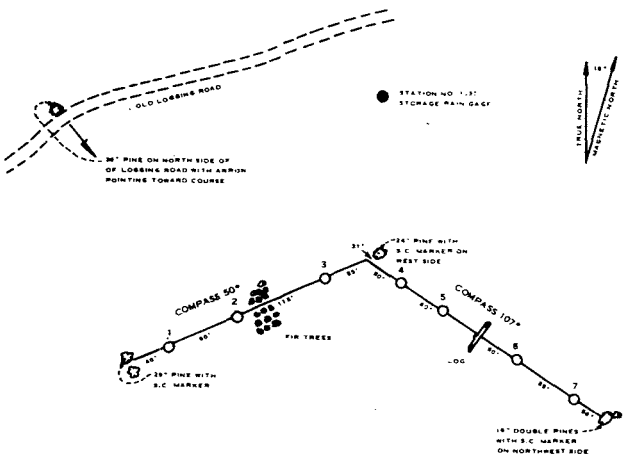
**DRAINAGE AREA**  
Big Rock Creek

**PERIOD OF RECORD**  
April 1, 1950, to date



## SUMMARY OF ANNUAL SNOW SURVEY DATA - ISLIP NO 4

SEASON	AVERAGE SNOW DEPTH (IN INCHES)	AVERAGE WATER CONTENT (IN INCHES)	DENSITY (PERCENT)
1949-50	10.0	4.9	49
1950-51	11.3	4.2	37
1951-52	114.9	54.9	48
1952-53	26.7	12.9	48
1953-54	66.7	29.3	44
1954-55	37.1	18.6	50
1955-56	20.9	6.2	30
1956-57	13.7	6.7	49
1957-58	99.8	53.5	54
1958-59	23.2	11.8	50
1959-60	4.1	1.8	44
1960-61	2.6	1.9	73
1961-62	75.6	37.6	50
1962-63	12.0	5.6	47
1963-64	38.1	14.7	39
1964-65	45.9	12.9	28
1965-66	11.5	5.0	43
1966-67	67.7	29.1	43
1967-68	34.1	14.3	42
1968-69	87.4	45.1	52
1969-70	26.7	14.0	52
1970-71	27.0	13.0	48
1971-72	0	0	
1972-73	104.0	44.6	43
1973-74	58.6	30.0	51
1974-75	55.6	23.4	42
1975-76	41.6	20.4	49
1976-77	36.5	15.1	41



**NOTES**  
1. MEASURE ALL POINTS  
2. ALL AZIMUTHS TAKEN FROM MAGNETIC NORTH

**CALIFORNIA COOPERATIVE SNOW SURVEYS**  
IN CONJUNCTION WITH  
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT  
**BIG ROCK CREEK BASIN**  
ISLIP COURSE NO. 4  
APPROX. ELEV. = 7570', LENGTH = 635'  
SCALE: 1" = 100'

# SQW CAMP SNOW COURSE

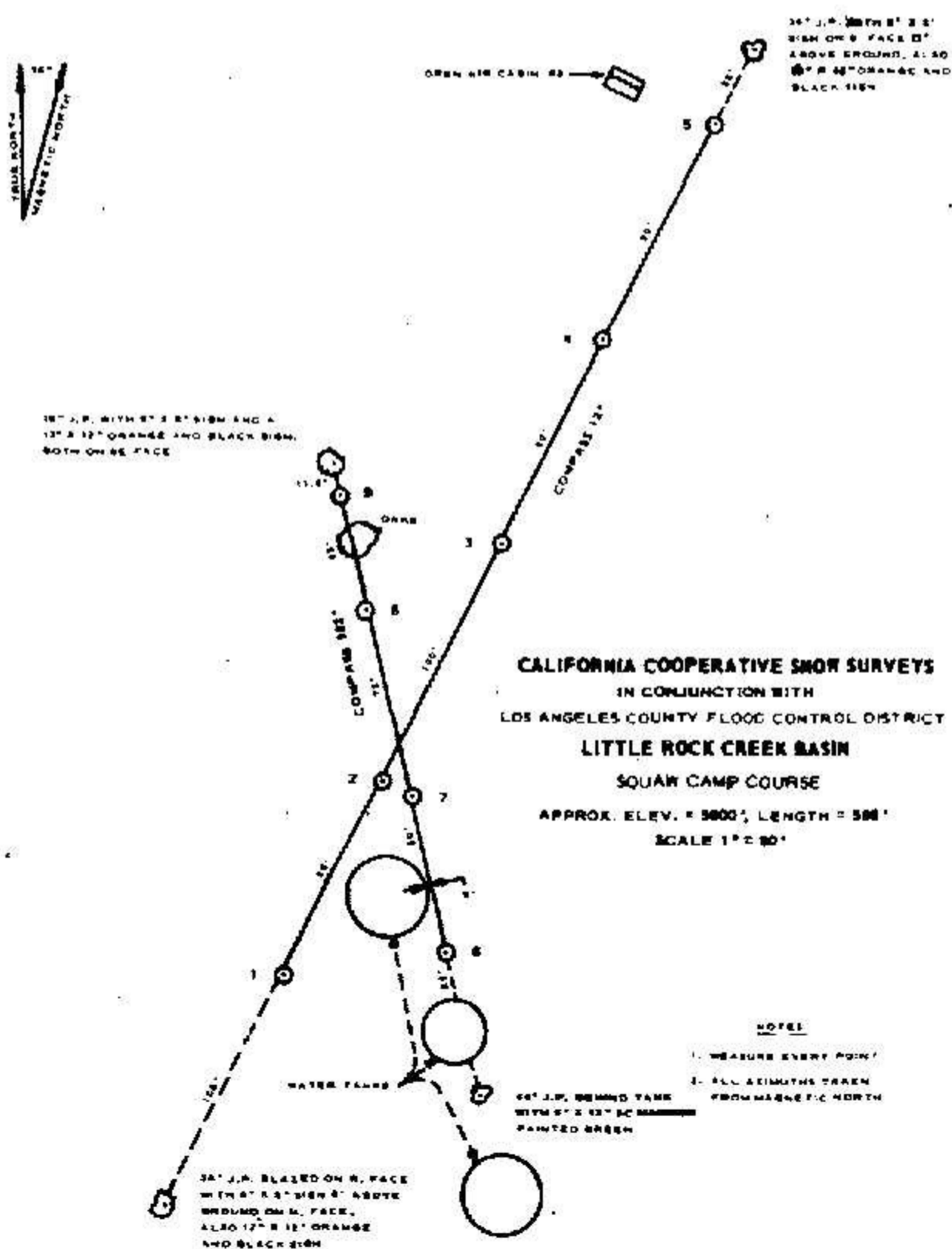
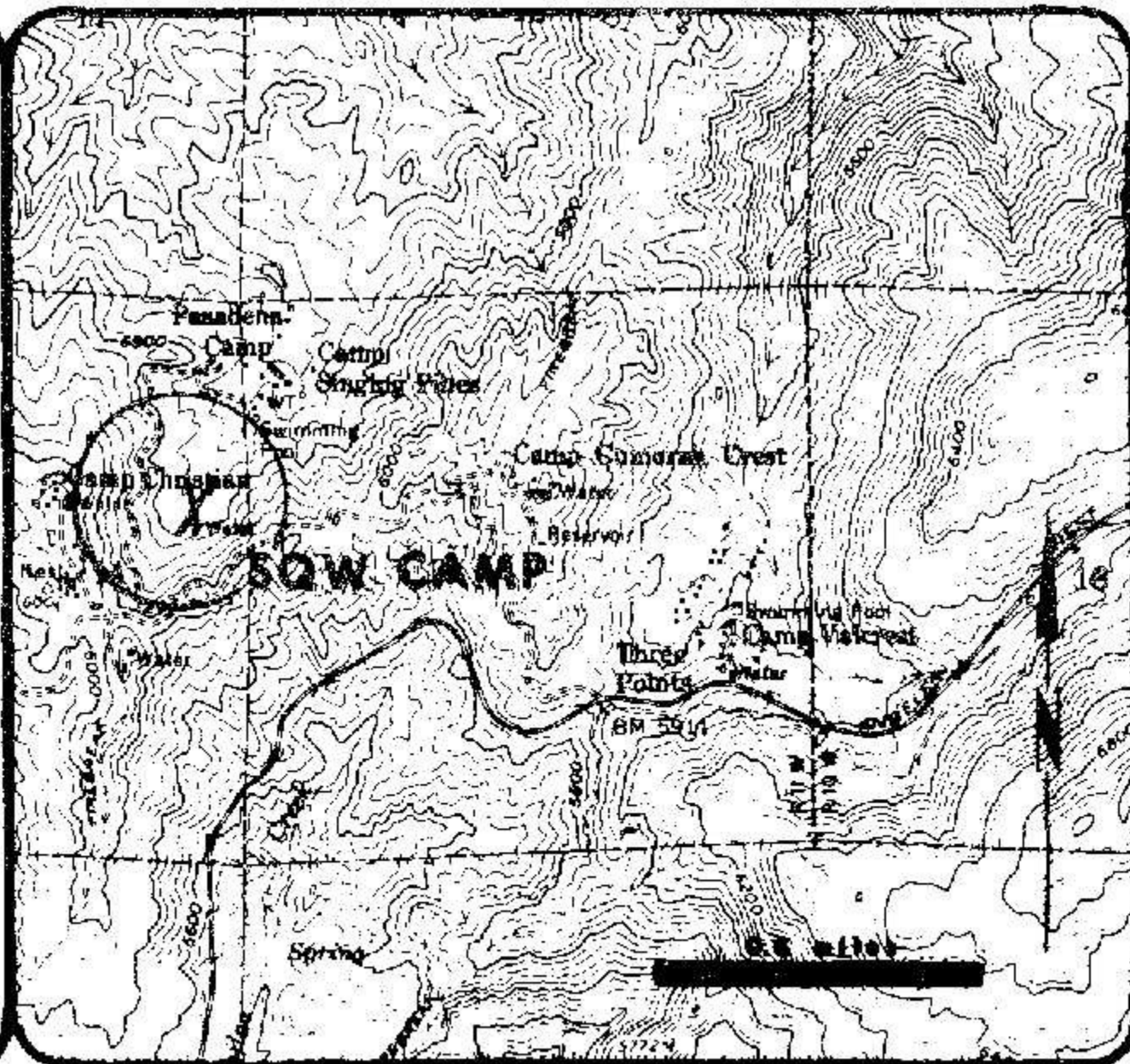
**LOCATION**  
1 mile north of Highway 2  
5 miles east of Mr. Wilson Road  
San Gabriel Mountains  
northern exposure

**ELEVATION**  
5800'

**LENGTH OF COURSE**  
596'

**DRAINAGE AREA**  
Little Rock Creek

**PERIOD OF RECORD**  
April 1, 1948  
April 1, 1954, to date



## SUMMARY OF ANNUAL SNOW SURVEY DATA - SQW CAMP

SEASON	AVERAGE SNOW DEPTH (IN INCHES)	AVERAGE WATER CONTENT (IN INCHES)	DENSITY (PERCENT)
1953-54	+	+	
1954-55	0	0	
1955-56	+	+	
1956-57	0	0	
1957-58	0	0	
1958-59	0	0	
1959-60	0	0	
1960-61	0	0	
1961-62	0	0	
1962-63	+	+	
1963-64	+	+	
1964-65	16.6	4.9	30
1965-66	0	0	
1966-67	5.4	1.7	31
1967-68	0	0	
1968-69	1.2	1.4	117
1969-70	0	0	
1970-71	0	0	
1971-72	0	0	
1972-73	4.8	2.3	23
1973-74	0.7	0.2	29
1974-75	0	0	0
1975-76	0	0	0
1976-77	0	0	0

+ = PATCHES OF SNOW



# CEDAR SPRINGS SNOW COURSE

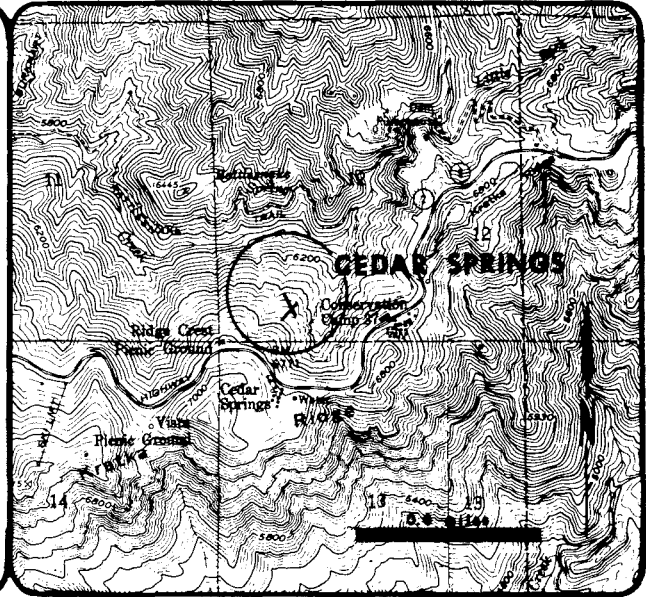
**LOCATION**  
 0.25 mile north of Highway 2  
 5 miles west of Highway 39  
 San Gabriel Mountains  
 northern exposure

**ELEVATION**  
 6500'

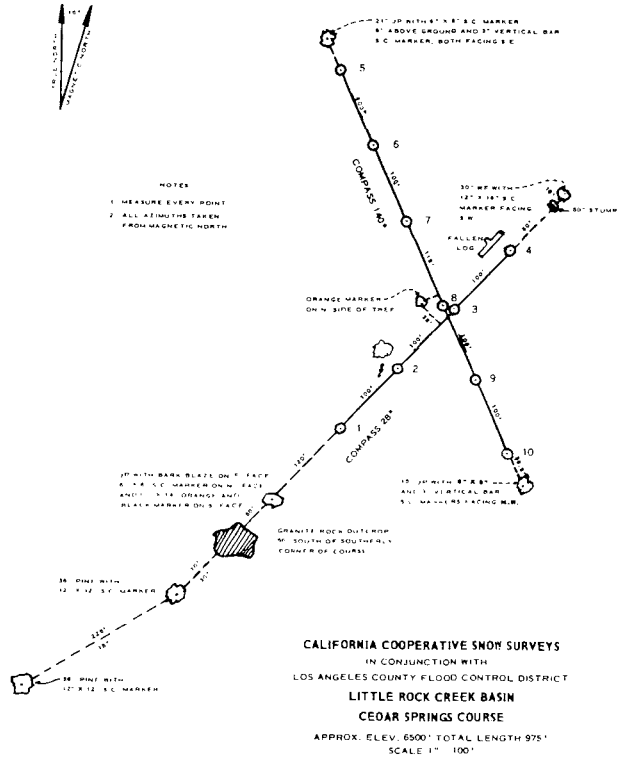
**LENGTH OF COURSE**  
 975'

**DRAINAGE AREA**  
 Little Rock Creek

**PERIOD OF RECORD**  
 April 1, 1948  
 April 1, 1954, to date



**NOTES**  
 1. MEASURE EVERY POINT  
 2. ALL AZIMUTHS TAKEN FROM MAGNETIC NORTH



**CALIFORNIA COOPERATIVE SNOW SURVEYS**  
 IN CONJUNCTION WITH  
 LOS ANGELES COUNTY FLOOD CONTROL DISTRICT  
**LITTLE ROCK CREEK BASIN**  
**CEDAR SPRINGS COURSE**  
 APPROX. ELEV. 6500' TOTAL LENGTH 975'  
 SCALE 1" = 100'

## SUMMARY OF ANNUAL SNOW SURVEY DATA - CEDAR SPRINGS

SEASON	AVERAGE SNOW DEPTH (IN INCHES)	AVERAGE WATER CONTENT (IN INCHES)	DENSITY (PERCENT)
1947-48	20.8	7.8	38
1948-49	NO RECORD		
1949-50	NO RECORD		
1950-51	NO RECORD		
1951-52	NO RECORD		
1952-53	NO RECORD		
1953-54	27.8	12.7	46
1954-55	14.0	7.0	50
1955-56	13.6	6.1	45
1956-57	0	0	
1957-58	40.5	18.8	46
1958-59	4.2	2.0	48
1959-60	0	0	
1960-61	0	0	
1961-62	26.2	12.2	47
1962-63	2.7	1.0	37
1963-64	14.4	5.9	41
1964-65	36.6	9.7	26
1965-66	0	0	
1966-67	37.9	12.7	34
1967-68	0	0	
1968-69	32.5	15.4	47
1969-70	0	0	
1970-71	1.8	0.8	44
1971-72	0	0	
1972-73	71.0	29.2	42
1973-74	29.0	14.0	48
1974-75	25.4	4.3	17
1975-76	14.2	6.5	46
1976-77	12.6	5.3	42

# DEER FLATS SNOW COURSE

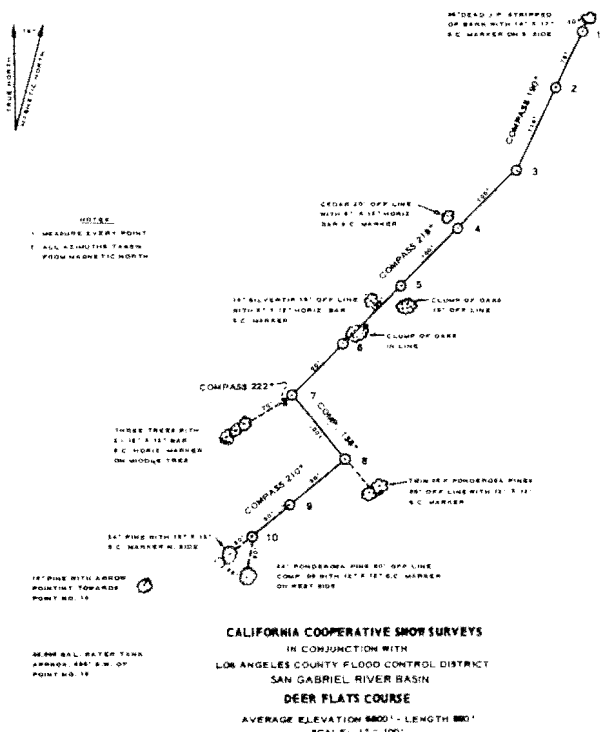
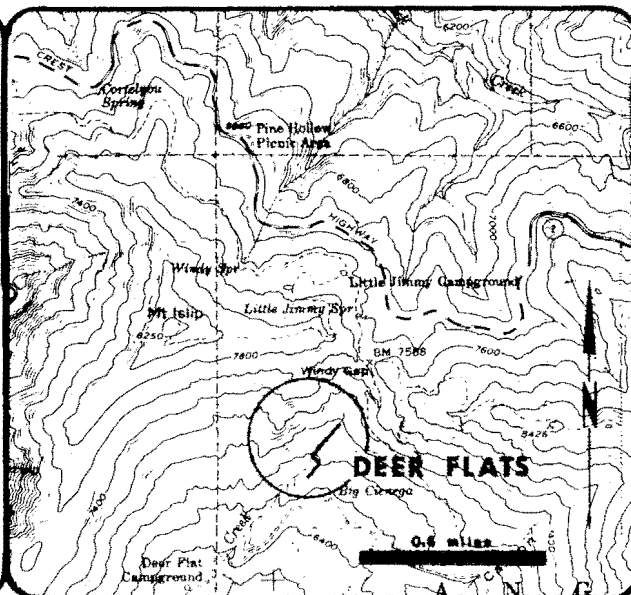
**LOCATION**  
2 miles northeast of  
Crystal Lake Ranger Station  
San Gabriel Mountains  
southern exposure

**ELEVATION**  
6800'

**LENGTH OF COURSE**  
880'

**DRAINAGE AREA**  
San Gabriel River

**PERIOD OF RECORD**  
1963 to date



## SUMMARY OF ANNUAL SNOW SURVEY DATA - DEER FLATS

SEASON	AVERAGE SNOW DEPTH (IN INCHES)	AVERAGE WATER CONTENT (IN INCHES)	DENSITY (PERCENT)
1962-63	0	0	
1963-64	10.6	4.9	46
1964-65	31.3	8.5	27
1965-66	0	0	
1966-67	12.9	4.1	32
1967-68	0	0	
1968-69	13.9	6.0	43
1969-70	0	0	
1970-71	0	0	
1971-72	0	0	
1972-73	43.2	20.0	48
1973-74	4.0	1.9	48
1974-75	8.2	4.3	52
1975-76	1.1	0.5	45
1976-77	8.7	1.9	21



# EVAPORATION

Data for 24 active evaporation stations were reported to the District during the 1975-77 seasons. Daily records of active and inactive District stations, as well as some stations of other agencies, are available in the District's files. Monthly and seasonal evaporation has been published in the District's Annual or Biennial Reports on Hydrologic Data since the 1931-32 season. Evaporation is normally measured at 5 p.m. to be consistent with rainfall measurements.

## SUMMARY OF EVAPORATION

The following tabulation indicates the maximum and minimum rates of evaporation in inches at stations within the County for the season. For comparative purposes, only the evaporation amounts from a 24-inch diameter land evaporation pan equipped with a screen were used.

### 1975-76

Maximum Seasonal Amount-	
Pacoima Dam. . . . .	87.35"
Maximum Monthly Amount-	
Palmdale. . . . . July	11.40"
Minimum Seasonal Amount-	
South Coast Botanic Gardens. . . .	46.67"
Minimum Monthly Amount-	
South Coast Botanic Gardens. .Dec.	1.34"

### 1976-77

Maximum Seasonal Amount-	
Van Norman Lake. . . . .	86.11"
Maximum Monthly Amount-	
Big Tujunga Dam. . . . . July	11.48"
Minimum Seasonal Amount-	
South Coast Botanic Gardens. . . .	43.77"
Minimum Monthly Amount-	
Camp Hi Hill (Opid's). . . . .Feb.	.79"

## COOPERATION

The District receives evaporation data from the Los Angeles City Department of Water and Power, The Metropolitan Water District, the Southern California Edison Company, the United States Forest Service, County departments, and various individuals.

## LENGTH OF RECORD

The first land pan installed by this District was at Santa Anita Dam in March of 1929. There are 30 evaporation stations which have records of 15 seasons or more in the District's files.

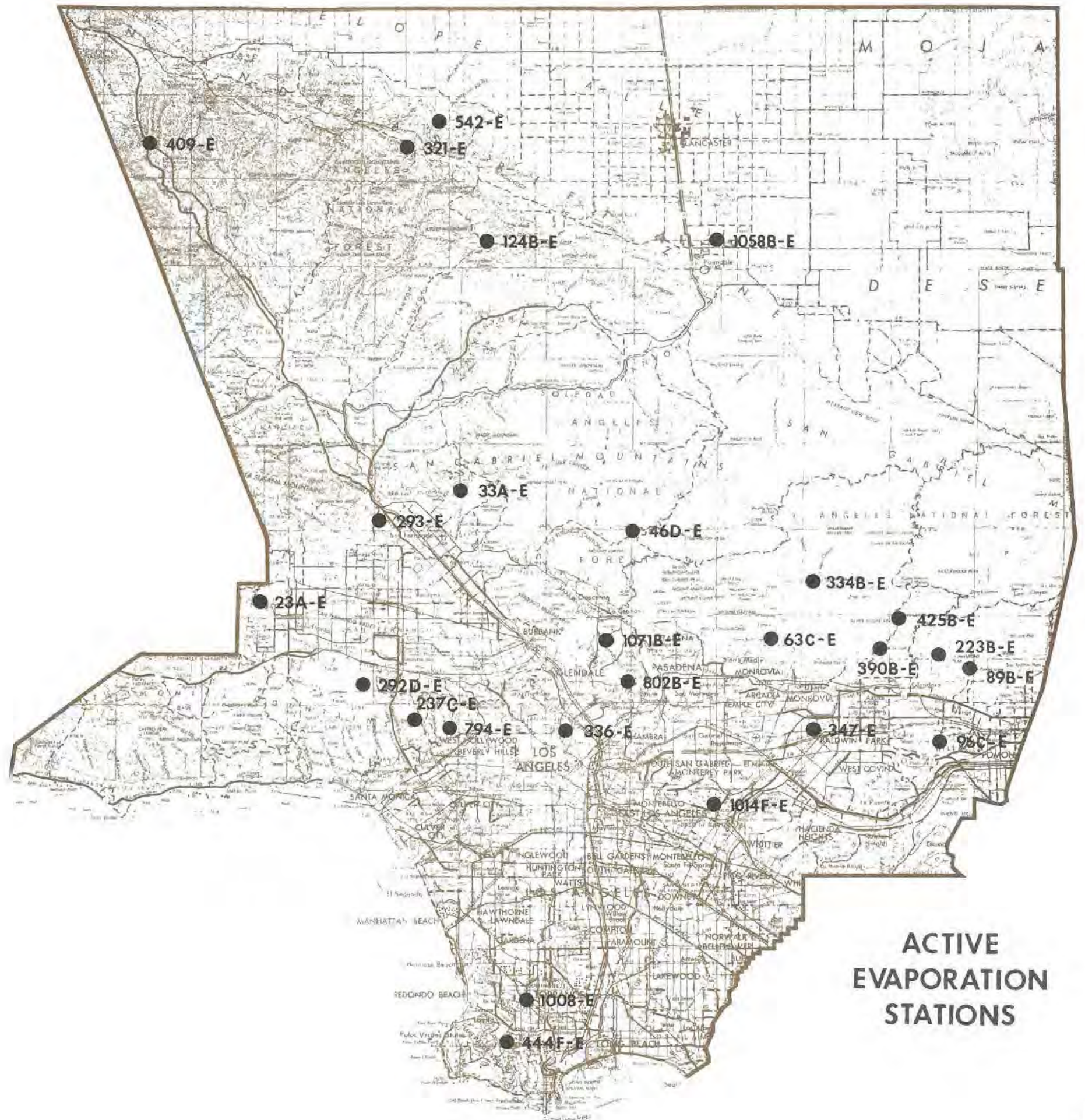
## EQUIPMENT

1. Land pan, Type L-24  
Twenty-four inches in diameter by 36 inches deep. Installed in the ground 33 inches. Water in pan maintained near ground level.
2. Land pan, Type L-24S  
Same as L-24 above, except that it is equipped with a one-fourth-inch mesh hardware cloth that rests one and one-half inches below top of pan.
3. Land pan, Type L-48A  
Forty-eight inches in diameter by 10 inches deep. Installed with water surface approximately 14 inches above ground level. Water surface in pan maintained at two to three inches below top of pan.
4. Land pan, Type L-72  
Seventy-two inches in diameter by 36 inches deep. Installed in the ground 33 inches. Water in pan maintained near ground level.
5. Land pan, Type L-36  
Thirty-six inches square by 18 inches deep. Installed in the ground 15 inches. Water in pan maintained near ground level.
6. Floating pan, Type F-36  
Thirty-six inches square by 18 inches deep. Mounted on float with the pan submerged to 15-inch depth. Water in pan maintained near lake level.



Weather Station at San Gabriel Dam which Includes Instruments for Measuring Rainfall, Temperature and Evaporation





**ACTIVE  
EVAPORATION  
STATIONS**







MONTHLY EVAPORATION SUMMARY  
STATION NO. 63C  
SANTA ANITA DAM  
24" DIAMETER SCREENED

Table with 13 columns: SEASON, OCT, NOV, DEC, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, TOTAL. Rows list monthly evaporation data from 1929-30 to 1976-77.

\* = AMOUNT ESTIMATED IS GREATER THAN 10% OF TOTAL

\*\* = AMOUNT ESTIMATED IS LESS THAN 10% OF TOTAL

# = RECORD INCOMPLETE - WATER IN PAN FROZEN

A = PREVIOUS TO THIS DATE, PAN WAS SET IN GROUND 34 INCHES AND WATER SURFACE MAINTAINED AT GROUND LEVEL (2 INCHES BELOW TOP OF PAN). AFTER THIS DATE, PAN WAS SET IN GROUND 33 INCHES AND WATER LEVEL MAINTAINED AT GROUND LEVEL (3 INCHES BELOW TOP OF PAN). THE MEASURED RATE OF EVAPORATION WAS REDUCED AS A RESULT OF THIS CHANGE.

MONTHLY EVAPORATION SUMMARY  
STATION NO. 89B  
SAN DIMAS DAM  
24" DIAMETER SCREENED

Table with 13 columns: SEASON, OCT, NOV, DEC, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, TOTAL. Rows list monthly evaporation data from 1934-35 to 1976-77.

\*\* = AMOUNT ESTIMATED IS LESS THAN 10% OF TOTAL

# = RECORD INCOMPLETE - WATER IN PAN FROZEN

INC. = RECORD INCOMPLETE

A = PREVIOUS TO THIS DATE, PAN WAS SET IN GROUND 34 INCHES AND WATER SURFACE MAINTAINED AT GROUND LEVEL (2 INCHES BELOW TOP OF PAN). AFTER THIS DATE, PAN WAS SET IN GROUND 33 INCHES AND WATER LEVEL MAINTAINED AT GROUND LEVEL (3 INCHES BELOW TOP OF PAN). THE MEASURED RATE OF EVAPORATION WAS REDUCED AS A RESULT OF THIS CHANGE.



MONTHLY EVAPORATION SUMMARY  
STATION NO. 237C  
STONE CANYON RESERVOIR  
24" DIAMETER SCREENED

SEASON	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1955-56	N.I.	N.I.	N.I.	1.55*	2.11*	3.82*	3.35*	4.78*	6.12	7.62	6.74	7.54	INC.
1956-57	5.64	9.10	8.28	3.98	2.52	5.71	4.10	4.61	6.78	7.89	7.08	6.30	72.79
1957-58	4.64	6.10	6.28	4.58	3.35	2.52	5.61	5.59	6.77	6.76	7.23	6.88	66.31
1958-59	7.24	5.14	5.25	3.66	3.18	5.77	4.41	5.24	5.97	8.53	8.12	5.90	68.41
1959-60	5.66	6.50	5.40	2.28	3.83	3.79	6.52	6.66	6.38	8.87	8.06	7.52	71.47
1960-61	6.16	3.75	4.80	5.38	4.80	4.42	5.16	6.20	6.09	8.86	8.86	6.92	70.40
1961-62	6.56	5.31	3.66	5.77	2.06	2.94	5.98	6.19	6.02	7.86	8.64	6.60	67.59
1962-63	4.85	4.46	3.74	3.55	3.51	5.11	3.90	4.50	4.99	8.12	7.85	6.88	61.46
1963-64	5.46	4.73	5.95	4.93	5.83	5.08	5.40	5.86	5.44	8.82	7.92	6.98	72.39
1964-65	5.86	5.04	3.48	3.56	3.97	3.43	3.98	6.10	5.53	7.69	8.23	5.93	62.80
1965-66	8.79	4.13	3.75	3.60	5.23	6.05	4.87	6.21	8.31	7.77	7.77	6.70	68.87
1966-67	7.27	3.14	5.02	4.14	4.77	3.98	2.89	6.43	5.78	7.69	8.38	5.74	65.23
1967-68	6.90	3.52	3.91	3.91	2.60	5.43	5.78	6.39	6.20	7.55	7.86	6.72	66.57
1968-69	5.34	5.39	4.31	3.50	2.83	4.88	6.54	5.54	5.10	7.12	8.07	6.25	64.87
1969-70	6.68	5.68	3.81	2.82	2.62	6.06	6.32	6.91	6.70	8.62	8.56	7.78	72.56
1970-71	5.73	4.08	2.98	3.69	4.38	4.82	5.86	5.80	5.68	7.50	8.42	7.16	66.10
1971-72	7.13	4.38	3.98	4.04	3.53	5.08	5.72	6.39	6.59	9.14	7.96	5.90	69.84
1972-73	4.45	4.96	5.46	5.20	2.68	3.34	5.88	5.16	6.99	6.98	6.97	6.00	64.08
1973-74	6.92	4.61	4.15	2.58	4.89	2.42	5.99	5.74	6.82	7.99	6.81	6.16	65.12
1974-75	4.18	4.90	5.10	4.13	4.80	4.05	3.60	5.53	5.57	7.18	7.28	6.38	62.70
1975-76	5.84	5.68	4.57	5.26	5.22	6.51	5.14	5.71	7.35	7.30	8.26	4.45	71.29
1976-77	5.47	5.27	5.13	8.22	4.87	6.71	5.10	4.55	5.51	7.69	7.40	5.40	71.32

\* = AMOUNT ESTIMATED IS GREATER THAN 10% OF TOTAL  
N.I. = NOT INSTALLED  
INC. = RECORD INCOMPLETE

MONTHLY EVAPORATION SUMMARY  
STATION NO. 292D  
ENCINO RESERVOIR  
24" DIAMETER UNSCREENED TO 9/30/46 AND SCREENED SUBSEQUENT TO 9/30/46

SEASON	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1931-32	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	8.77	9.73	11.51	11.77	8.14	INC.
1932-33	7.58	7.50	3.70	4.80	5.22	7.37	7.10	9.76	9.58	11.43	10.74	8.15	92.93
1933-34	7.89	7.70	3.26	5.06	3.01	7.30	9.03	11.34	7.72	12.15	10.76	10.93	96.09
1934-35	7.60	3.96	2.48	1.85	4.63	4.37	5.74	7.26	8.98	11.95	12.02	9.66	80.50
1935-36	7.84	4.41	3.97	4.26	2.57	5.98	6.47	9.86	11.80	12.19	12.42	10.58	91.75
1936-37	6.26	6.88	3.15*	1.85	3.25	4.47	8.49	7.83	9.45	13.42	11.56	10.58	87.19**
1937-38	8.24	4.45	3.20	4.45	2.60	3.56	6.80	9.32	8.52	11.70	12.03	11.12	95.99
1938-39	8.28	6.69	4.75**	3.27**	4.02	4.43	7.80	8.35	10.46	11.92	11.73	11.31	83.01**
1939-40	8.95	5.64	4.25	2.09	2.79	5.13	7.03	9.46	9.28	13.54	11.46	9.90	89.52
1940-41	7.51	5.92	3.99	2.17**	2.25**	4.15**	4.75**	9.44	8.93	10.93	9.99	8.48	78.56
1941-42	6.81	5.52	2.86	3.18	4.08	7.04	5.59	8.84	9.26	11.93	9.88	7.61	82.60
1942-43	6.11A	4.86	3.40	3.52	3.36	3.35	5.66	8.68	9.44	10.29	10.81	9.98	79.50
1943-44	6.88	5.84	2.60	2.89	2.36	5.60	6.49	6.96	7.12	8.71	10.66	7.66	73.97
1944-45	5.64	2.90	3.47	3.46	2.90	3.24	6.50	8.19	6.66	9.55	10.89	8.82	72.32
1945-46	5.48	6.35	2.59	3.57	3.01	4.04	5.04	5.43	8.94	9.60	9.43	8.80	70.28
1946-47	5.28	2.78	1.82	3.03	2.48	3.26	5.04	5.23	5.10	8.81	7.72	6.86	57.41
1947-48	4.55	3.76	2.72	3.04	2.84	3.58	4.48	6.16	6.12	8.55	7.80	7.76	61.36
1948-49	4.62	4.53	2.32	1.68	1.98	2.92	5.15	5.68	7.60	8.46	8.85	7.70	61.49
1949-50	6.09	4.76	3.04	1.86	2.16	4.44	5.24	5.67	6.76	8.88	8.42	5.07	62.99
1950-51	6.06	4.18	3.22	2.25	2.55	4.45	4.43	6.72	6.53	8.52	8.76	6.69	64.36
1951-52	6.70	3.64	1.79	1.82	2.87	3.01	3.92	7.05	6.50	8.94	9.40	8.48	64.12
1952-53	5.10	2.83	1.82	2.24	3.74	3.94	4.46	7.29	6.56	9.74	8.90	6.84	63.46
1953-54	6.85	3.98	3.87	2.06	3.48	3.06	3.99	5.75	6.72	9.62	7.75	8.02	65.15
1954-55	5.50	3.70	2.69	1.74	2.70	3.93	.18	4.88	6.16	7.74	9.16	8.73	63.11
1955-56	4.92	3.55	1.55	1.48	2.39	5.05	3.58	5.10	6.90	8.46	8.25	8.62	59.85
1956-57	4.56	5.12	4.06	1.60	1.80	4.02	4.35	5.42	7.58	9.31	8.95	6.98	63.75
1957-58	3.90	3.00	2.33	2.54	2.10	2.16	4.54	6.58	7.86	8.59	7.70	8.60	59.90
1958-59	6.10	4.10	3.66	2.91*	2.10	5.30	5.88	6.48	7.54	9.50	9.19	6.30	69.06**
1959-60	6.05	5.33	3.47	1.82	2.81	4.10	6.64	7.53	7.57	10.06	9.16	INC.	INC.
1960-61	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.
1961-62	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	5.04	5.94	8.81	8.66	7.46	65.34*
1962-63	4.58*	4.35*	3.60	3.42	3.32	5.27	4.89	6.44	6.72	9.88	8.96	7.42	74.77
1963-64	5.60	3.86	4.59	4.63	5.49	5.40	5.78	7.90	6.14	8.61	8.73	6.97	65.44
1964-65	6.22	4.14	2.79	2.93	3.97	3.73	4.21	6.00	7.71	9.84	9.11	7.31	71.28
1965-66	6.94	4.27	2.67	3.54	2.91	4.74	6.24	6.37	9.00	9.44	9.22	6.72	66.99
1966-67	6.57	3.12	3.05	3.43	4.11	4.04	4.39	7.17	7.66	9.30	8.91	8.05	72.60
1967-68	7.21	3.67	3.21	3.13	2.48	5.13	6.68	6.00	5.96	8.87	10.82	7.58	68.35
1968-69	5.42	4.99	3.27	2.52	1.92	4.48	6.52	7.70	7.90	10.15	10.13	8.99	78.21
1969-70	7.01	4.79	3.29	2.54	2.06	6.58	7.07	6.51	7.03	9.38	10.14	7.98	72.30
1970-71	6.02	4.78	2.60	2.82	4.00	5.16	5.88	7.12	6.97	9.71	8.54	6.49	71.06
1971-72	6.82	3.85	3.52	3.20	3.48	5.29	6.07	5.76	7.66	8.32	7.76	5.71	59.78
1972-73	4.88	3.20	4.04	2.62	1.47	3.01	5.35	6.04	7.69	9.10	8.04	7.13	63.39
1973-74	5.93	3.22	2.76	2.28	3.69	2.63	5.88	5.21	6.43	8.17	8.23	5.93	61.14
1974-75	4.92	4.08	3.96	3.44	2.29	3.40	4.08	6.94	8.82	8.64	8.64	4.98	69.92
1975-76	5.64	4.55	3.73	4.05	2.66	6.04	5.23	5.14	7.01	9.79	7.68	6.95	72.62
1976-77	5.70	4.79	4.08	5.93	4.26	5.32	5.97						

\* = AMOUNT ESTIMATED IS GREATER THAN 10% OF TOTAL  
\*\* = AMOUNT ESTIMATED IS LESS THAN 10% OF TOTAL  
N.I. = NOT INSTALLED  
INC. = RECORD INCOMPLETE  
A = PREVIOUS TO THIS DATE, PAN WAS SET IN GROUND 34 INCHES AND WATER SURFACE MAINTAINED AT GROUND LEVEL (2 INCHES BELOW TOP OF PAN). AFTER THIS DATE, PAN WAS SET IN GROUND 33 INCHES AND WATER LEVEL MAINTAINED AT GROUND LEVEL (3 INCHES BELOW TOP OF PAN). THE MEASURED RATE OF EVAPORATION WAS REDUCED AS A RESULT OF THIS CHANGE.

MONTHLY EVAPORATION SUMMARY  
STATION NO. 293  
VAN NORMAN LAKE  
24" DIAMETER SCREENED

SEASON	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1952-53	N.I.	N.I.	N.I.	N.I.	6.98	5.24	4.63	8.04	6.79	9.60	8.90	7.38	INC.
1953-54	8.34	6.86	9.28	4.27	8.04	4.40	4.70	5.74	6.59	9.95	8.20	8.44	84.81
1954-55	7.07	8.26	6.87	4.26	6.14	6.02	7.52	4.99	6.72	8.00	9.51	8.95	84.31
1955-56	6.32	6.50	2.91	3.00	3.78	7.62	4.22	5.86	6.96	8.73	8.07	8.96	72.93
1956-57	5.68	11.54	9.89	3.31	2.61	5.84	4.64	5.11	8.22	9.92	9.38	7.30	83.44
1957-58	5.40	6.18	6.80	6.12	1.96	2.87	7.18	6.89	7.32	8.57	8.23	10.50	78.02
1958-59	8.54	7.14	8.32	5.76	3.04	8.43	6.40	7.13	7.52	9.47	8.78	6.60	87.13
1959-60	7.96	10.50	8.37	3.07	4.02	5.14	7.75	8.90	7.52	10.64	9.04	8.62	91.73
1960-61	7.32	5.06	7.15	7.94	7.14	6.43	6.74	6.75	7.44	8.34	8.92	7.72	86.95
1961-62	7.86	5.86	5.55	7.70	3.13	3.87	6.96	6.32	6.45	8.36	9.74	7.18	78.98
1962-63	5.86	5.08	5.84	4.77	5.78	5.98	5.26	4.94	4.86	8.50	8.49	8.45	74.71
1963-64	6.31	6.12	8.20	6.36	7.58	6.05	6.20	6.68	5.82	9.06	8.14	7.44	83.96
1964-65	6.66	5.46	4.11	4.66	4.85	3.82	5.68	6.44	5.36	8.09	8.46	6.89	73.48
1965-66	8.42	4.27	5.18	5.15	3.80	5.41	6.17	5.16	6.98	9.42	8.70	7.15	75.81
1966-67	7.85	3.53	5.64	6.03	5.27	4.27	3.60	6.58	5.41	8.52	9.49	6.07	72.26
1967-68	8.62	3.82	5.18	5.38	3.12	6.39	7.37	6.92	8.94	9.11	8.73	8.73	80.88
1968-69	6.39	7.13	5.47	3.42	2.21	5.66	6.50	9.66	5.22	8.73	10.30	7.59	74.28
1969-70	8.67	7.20	5.02	4.16	2.08	7.87	7.79	8.04	6.97	9.70	9.58	9.92	86.90
1970-71	6.79	5.61	4.51	5.72	5.48	6.92	6.33	6.46	6.16	8.85	9.32	8.48	80.63
1971-72	8.40	4.80	4.41	6.21	5.12	6.54	6.55	7.27	7.41	10.34	10.20	6.75	84.00
1972-73	5.31	5.16	6.26	5.53	3.00	3.44	7.04	6.28	8.79	8.80	8.16	6.32	74.09
1973-74	7.67	3.95	3.26	3.06	5.71	3.66	7.48	5.78	8.29	9.08	7.47	6.55	71.96
1974-75	5.39	5.88	5.67	6.26	4.86	3.85	3.49	6.18	6.62	8.05	7.40	7.18	70.83
1975-76	6.45	7.37	6.03	7.31	2.82	7.65	4.27	6.59	8.80	9.12	8.13	4.31	78.85
1976-77	7.61	7.25	7.75	8.87	6.77	6.27	6.09	4.53	6.57	10.30	7.43	6.67	86.11

N.I. = NOT INSTALLED  
INC. = RECORD INCOMPLETE

MONTHLY EVAPORATION SUMMARY  
STATION NO. 321  
PINE CANYON  
24" DIAMETER UNSCREENED TO 9/30/46 SCREENED SUBSEQUENT TO 9/30/46

SEASON	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1931-32	6.40	3.84	1.42	1.78	2.64**	6.70	8.70	9.35	11.52	16.30	15.53	12.42	96.60
1932-33	8.67	6.51	2.96	1.72	3.48	5.67	6.35	7.70	9.82	12.79	12.25	10.32	98.37
1933-34	8.32	6.20	3.10	3.96	3.13	6.43	8.46	10.61	8.70	13.08	12.18	10.00	94.23
1934-35	6.51	3.53	3.19	2.80	3.39	3.71	4.85	7.20	14.08	12.45	10.52	9.84	82.16
1935-36	7.50	3.94	2.62	2.64	2.22	5.14	6.28	8.88	10.48	11.55	11.66	9.40	82.31
1936-37	6.44A	4.72	2.54	1.36*	1.68	3.10	5.60	6.72	8.48	12.05	10.78	9.08	71.95*
1937-38	5.66	2.92	3.11	2.48	1.62	2.62	4.92	6.00	8.12	9.72	9.00	7.32	53.45
1938-39	4.53	3.78	2.56	1.71	2.52	3.56	5.04	6.71	9.36	10.28	9.72	6.45	66.22
1939-40	5.00	2.68	1.62	1.34	2.04	4.05	5.24	8.33	9.42	10.14	10.22	7.70	67.78
1940-41	4.70	2.40	2.10	1.19	1.22	2.91	2.92	6.68	7.74	10.00	9.54	7.55	59.31
1941-42	4.09	2.46	1.18	2.56*	2.65	5.00	5.76	8.30	11.77	14.08	11.78	9.05	78.26
1942-43	7.24	4.62	3.18	2.76	3.04	3.84	5.52	10.45	10.15	12.20	12.00	10.10	85.10
1943-44	6.88	4.88	4.57	3.00	3.79	5.47	6.28	7.98	8.15	12.32	12.82	10.92	86.96
1944-45	7.40	3.88	3.06	3.24	3.52	2.70	7.37	9.32	9.74	12.06	11.47	9.20	82.96
1945-46	6.01	3.96	3.03	3.80	3.52	4.70	6.28	7.32	11.82	12.31	12.22	9.80	84.83
1946-47	5.40	3.20	1.96	2.60	2.50	3.89	5.46	7.81	8.38	11.08	9.80	7.85	69.94
1947-48	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
1948-49	5.40	4.42	2.02	1.56	1.68	2.87	6.70	6.87	9.17	11.10	9.91	8.10	69.11
1949-50	6.44	4.10	2.44	1.60	2.36	4.48	5.20	7.22	8.77	10.42	10.76	7.39	71.18
1950-51	5.69	3.85	3.02	2.23	2.32	4.73	5.60	8.16	9.40	12.02**	11.42	9.60	78.09**
1951-52	7.42	3.99	2.06	2.66	3.25	3.17	5.03	9.33	9.26	11.54	11.28	9.08	77.66
1952-53	7.50	5.18	3.43**	3.42	5.45	5.17	5.72	5.87	8.80	11.80	10.36	8.44	81.14**
1953-54	6.22	4.91	3.82	2.60	3.58	2.99**	5.13	8.65	9.72	11.27	10.34	9.74	79.04**
1954-55	7.40	4.71	2.78	1.83	2.89	5.03	5.78	6.08	8.12	10.82	11.55	9.00	75.29
1955-56	6.65	4.23	2.49	1.85	2.92	5.57	4.19*	4.60	9.72	10.73	10.50	9.93	74.38**
1956-57	5.20	6.18	4.65	1.93	2.55	4.87	5.50	5.99	10.83	12.55	11.03	9.80	80.13
1957-58	4.82	3.70	3.10	3.45	1.95	2.36	4.92**	8.10	10.30	11.48	11.72	9.45	75.51**
1958-59	6.97	4.74	4.88	3.45	2.38	6.15	6.95	8.65	11.92	13.58	12.75	7.68	90.10
1959-60	6.80	5.80	3.48**	1.78	3.01**	5.38**	7.08**	8.71**	12.70	13.38	12.50	9.92	90.54**
1960-61	6.95	3.08	3.02	2.98	3.50	4.30	6.85	7.35	10.82	12.85	9.92	7.88	79.50
1961-62	6.35	3.70	2.40**	2.82*	2.20*	3.05**	6.92	6.75	9.00	11.40	11.75	10.18	76.62**
1962-63	5.84	4.18	3.72	2.82*	3.12**	4.60**	3.85	6.52	8.04	10.68	10.65	6.90	70.92**
1963-64	4.61	2.92	2.68	2.47	3.64	3.37**	4.62	6.67	9.04	10.80	11.50	9.40	71.72**
1964-65	6.75	2.86**	2.11**	2.73**	3.56	3.69*	3.33**	7.23	7.52	10.07	10.32	7.24	67.11**
1965-66	7.05	3.10**	1.81**	2.42	2.71	4.48**	6.93	7.58	INC.	4.84	11.68	8.14	INC.
1966-67	5.63	2.80	2.10	2.28**	2.80	3.89**	2.78	6.03**	7.41**	10.68	9.55	6.72	62.67**
1967-68	6.75	3.45**	2.77**	2.18	2.12	3.38	5.19	6.62	9.06	9.58	9.57	8.75	69.44**
1968-69	5.39	3.73	2.24	2.30	1.80	3.99	4.09	7.38	7.35	10.22	11.58	7.90	68.97
1969-70	6.82	4.12**	2.56	2.34**	3.99	4.33	5.40	7.75	9.80	11.02	12.95	8.38	73.56**
1970-71	7.22*	4.60	2.46	2.12	3.24	4.70	5.10	5.44	7.90	10.78	10.08	9.62	72.86**
1971-72	8.02	4.66	3.15	2.26	3.43	5.75	6.00	7.34	8.15	11.04	9.20	6.55	75.59
1972-73	4.27	2.99	2.48	1.82	1.85	2.69	4.85	6.80	8.50	9.55	8.85	7.82	62.37
1973-74	5.38	2.99	1.94	1.8	3.22	3.00	4.73	7.08	9.58	9.33	9.95	8.60	INC.
1974-75	4.88	3.60	2.35	2.55	2.92	3.47	3.87	7.30	9.33	10.15	10.78	8.70	69.90
1975-76	5.69**	4.09**	3.24**	3.72	3.10	4.87	5.24**	7.98	9.78	9.85	9.36	5.70	72.62**
1976-77	4.83	3.76	3.02	1.57	2.60	3.52	5.30	4.96	6.72	11.08	8.72	6.95	65.03

\* = AMOUNT ESTIMATED IS GREATER THAN 10% OF TOTAL  
\*\* = AMOUNT ESTIMATED IS LESS THAN 10% OF TOTAL  
\* = RECORD INCOMPLETE - WATER IN PAN FROZEN  
N.R. = NO RECORD  
INC. = RECORD INCOMPLETE  
A = PREVIOUS TO THIS DATE, PAN WAS SET IN GROUND 34 INCHES AND WATER SURFACE MAINTAINED AT GROUND LEVEL (2 INCHES BELOW TOP OF PAN). AFTER THIS DATE, PAN WAS SET IN GROUND 33 INCHES AND WATER LEVEL MAINTAINED AT GROUND LEVEL (3 INCHES BELOW TOP OF PAN). THE MEASURED RATE OF EVAPORATION WAS REDUCED AS A RESULT OF THIS CHANGE.



MONTHLY EVAPORATION SUMMARY  
STATION NO. 334B  
COGSWELL DAM  
24" DIAMETER UNSCREENED

SEASON	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1935-36	7.18	4.13	3.05	2.92	1.42	4.32	4.60	6.16	9.82	11.70	11.51	10.00	76.81
1936-37	5.79	4.68	1.88	1.07	1.81	2.68	6.06	6.28	6.39	11.40	10.64	10.40	71.08
1937-38	7.92	4.95	3.64	3.17	4.92	3.08	5.46	6.88	8.98	11.86	11.74	10.66	83.26
1938-39	6.76	5.94	3.78	3.04	3.24	3.94	6.40	6.06	10.74	13.10	12.80	8.85	86.65
1939-40	7.07	4.88	3.05	1.92	2.48	4.58	4.92	7.98	10.28	12.07	12.05	9.36	80.65
1940-41	7.39	4.16	2.23	1.59	1.42	3.20	3.91	6.96	8.01	11.56	9.96	8.86	69.25
1941-42	5.11	2.78	1.56	2.15	2.88	3.98	3.56	7.08	8.98	12.42	10.88	9.22	70.60
1942-43	6.36	3.56	2.50	2.65	2.08	2.63	4.22	7.50	7.88	10.75	10.62	9.32	70.07
1943-44	6.16	4.04	1.54	1.57**	1.46	4.08	4.45	6.62	7.02	6.66	9.41	10.10	7.81
1944-45	5.78	2.23	1.93	1.86	2.08	2.27	5.27	6.24	6.44	9.95	10.40	7.90	64.23**
1945-46	4.74	2.90	1.66	3.02	2.10	2.86	4.63	5.34	8.68	10.66	9.65	7.88	63.25
1946-47	3.50	1.48	1.22	2.20	1.60	2.48	3.88	5.62	6.29	9.22	8.13	6.89	52.51
1947-48	4.67	3.20	2.06	2.99	3.52	2.66	3.56	5.36	6.23	10.10	10.00	9.10	62.45
1948-49	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#
1949-50	6.08	4.60	2.31	1.31	2.30	3.74	4.46	5.96	8.10	9.90	10.65	7.32	66.73
1950-51	6.29	3.79	2.86	1.91	2.26	4.12	3.94	6.16	7.95	10.78	11.03	9.46	70.55
1951-52	6.09	2.88	1.45	1.95	2.46	2.34	3.77	7.10	7.64	10.13	10.30	8.26	64.37
1952-53	7.04	2.72**	1.76	2.30**	3.76	3.84	4.44	6.38	7.02	10.78	10.68	8.61	69.33**
1953-54	6.23	3.22	3.29	1.46**	3.20**	2.92	5.00	6.36	7.60	9.63	9.32	8.35	66.72**
1954-55	6.22	3.76	2.24	1.22	2.04	4.00	5.82	5.00	6.50	8.76	9.83	10.14	65.53
1955-56	7.25	3.50	1.58	1.66	2.29	4.18	3.67	5.54	7.74	9.25	9.48	9.56	65.70
1956-57	5.90	6.36	3.91	1.44	1.70	3.20	4.60	4.39	7.82	10.78	10.63	8.28	69.01
1957-58	3.90	2.74	2.32	2.94	1.94	2.33	4.21	7.23	8.72	10.46	9.30	9.14	65.23
1958-59	6.82	4.24	3.68	2.66	2.19**	5.12	5.60	5.52	9.00	10.00	9.64	7.16	71.63
1959-60	6.52	4.82	3.08	1.66	2.52	4.01	5.88	6.28	9.78	11.05	10.58	9.43	75.61
1960-61	5.80	2.94	2.60	3.06	3.14	3.78	5.39	6.02	9.50	10.92	10.56	8.32	72.03
1961-62	6.42	3.48	1.89	2.53	1.22**	2.46	5.86	6.03**	8.50	11.36	11.60	9.18	70.53**
1962-63	5.74	4.26	3.28	2.68	4.08**	3.88**	4.49	5.72	6.31	10.79	9.65	7.24	67.12**
1963-64	4.48	2.87	2.57	2.44**	3.34	3.60**	4.22**	5.20	7.59	10.64	10.35	8.04	65.34**
1964-65	6.21	2.77*	1.76**	2.28	3.00**	3.35	3.83**	6.12	5.76	9.27	9.63	9.96	63.94**
1965-66	6.66	3.13*	1.96	2.60	2.29**	3.92**	5.24	6.20	8.02	10.84	9.79	7.85	68.50**
1966-67	5.65	2.86	1.95	2.16	3.15	2.89	2.40	5.81	5.93	9.80	10.11	6.97	59.68
1967-68	6.75**	3.26**	2.21**	2.18	2.23	4.27	5.70	6.44	7.66	9.18	8.86	7.80	66.54**
1968-69	4.92	3.40	2.42	1.85	1.64	3.52	4.65	5.61	5.64	8.78	10.78	8.28	61.48
1969-70	5.38	3.30	2.24	1.48	2.45**	3.25	4.50	6.26	7.29	10.31	9.80	8.40	64.96**
1970-71	5.08	3.04	1.25	1.66	2.35	3.42	4.30	4.84	6.40	9.31	9.85	8.63	60.14
1971-72	5.92	3.49	2.33	2.18	3.00	4.37	6.80	N.R.	N.R.	N.R.	INC.	6.79	INC.
1972-73	4.24	2.45	1.89	1.60	1.62	2.62	5.68	6.64	8.68	10.55	9.40	6.82	62.19
1973-74	5.28	2.77	1.84	INC.	2.75	2.48**	4.92	5.76	6.67	9.82	9.95	8.60	INC.
1974-75	4.66	2.56	2.21	1.95	2.00	3.32	2.94	6.51	7.37	9.78	9.18	6.74	59.22
1975-76	4.43	3.05	1.94	2.14	1.82	2.99	3.38	5.97	7.78	9.00	8.20	4.48	55.18
1976-77	4.17	2.68	2.10	1.40	2.24	3.34	4.40	3.26	6.77	10.0	8.58	6.65	55.59

\* = AMOUNT ESTIMATED IS GREATER THAN 10% OF TOTAL  
\*\* = AMOUNT ESTIMATED IS LESS THAN 10% OF TOTAL  
# = RECORD INCOMPLETE - WATER IN PAN FROZEN

MONTHLY EVAPORATION SUMMARY  
STATION NO. 336  
SILVER LAKE RESERVOIR  
24" DIAMETER UNSCREENED

SEASON	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1953-54	N.I.	N.I.	N.I.	N.I.	INC.	4.34	3.65	5.45	5.94	8.28	7.20	6.30	INC.
1954-55	4.43	3.43	2.51	1.95	3.24	4.14	6.96	5.13	5.00	7.06	7.52	6.32	58.19
1955-56	4.08	3.19	1.46	1.63	2.22	4.02	3.53	5.04	6.16	7.66	6.98	6.73	52.70
1956-57	4.58	4.39	3.30	1.72	1.65	4.21	4.34	5.35	6.88	8.23	7.95	6.03	58.63
1957-58	3.80	3.00	2.16	2.41	3.72	2.77	5.05	6.08	6.94	7.80	7.02	6.51	57.26
1958-59	5.10	3.82	2.58	2.27	2.60	4.06	6.70	6.62	6.39	8.14	7.56	5.81	58.01
1959-60	4.68	3.98	2.91	2.18	2.89	3.66	6.70	6.66	6.43	8.17	7.48	6.58	61.62
1960-61	5.81	2.92	3.44	3.41	4.53	5.55	6.45	7.46	7.76	9.17	8.56	6.30	71.36
1961-62	5.54	3.86	2.20	4.17	2.67	4.30	6.57	7.03	6.56	8.72	8.61	6.39	66.62
1962-63	3.94	3.20	2.40	2.60	2.39	4.43	4.36	4.60	4.94	7.42	7.03	5.67	52.98
1963-64	4.20	3.03	2.82	2.80	3.93	3.88	4.88	5.84	5.72	7.42	7.12	5.64	47.77
1964-65	4.40	3.34	1.66	2.12	3.50	3.43	4.21	5.82	5.10	7.10	7.25	4.77	57.68
1965-66	5.86	2.96	2.38	2.54	2.74	4.23	5.65	5.31	6.89	8.40	7.69	5.97	52.90
1966-67	4.89	2.31	2.52	2.48	3.26	3.81	3.74	5.64	5.40	7.46	7.82	5.51	60.62
1967-68	4.85	2.63	2.33	2.54	2.08	5.09	6.12	6.70	6.98	8.19	7.82	6.26	54.84
1968-69	4.11	3.67	2.80	1.90	2.38	4.44	5.67	5.76	4.94	8.07	8.58	6.80	61.73
1969-70	5.50	3.43	3.02	2.02	2.51	5.59	6.27	6.41	6.70	8.07	7.69	6.84	65.82
1970-71	4.93	3.08	1.66	2.22	3.48	4.37	5.54	6.62	6.70	8.76	8.56	6.84	59.12
1971-72	6.00	3.38	3.28	2.31	2.81	4.70	6.11	6.02	6.32	8.44	8.58	7.09	61.73
1972-73	4.99	4.45	3.38	2.74	3.06	4.72	6.17	5.97	6.97	8.89	8.41	6.29	65.60
1973-74	6.17	3.68	2.57	3.03	3.76	3.36	6.62	6.24	7.74	8.05	7.84	6.27	65.35
1974-75	4.69	3.78	4.05	3.21	2.64	4.05	4.53	6.69	6.35	8.39	8.14	7.09	67.61
1975-76	5.26	3.98	2.98	3.58	4.77	5.81	5.26	6.42	8.32	8.53	8.11	4.97	63.78
1976-77	5.25	3.81	3.31	5.14	4.06	5.70	5.51	7.79	6.60	8.63	7.03	6.19	67.99

N.I. = NOT INSTALLED  
INC. = RECORD INCOMPLETE

MONTHLY EVAPORATION SUMMARY  
STATION NO. 347  
BALDWIN PARK EXPERIMENTAL STATION  
24" DIAMETER UNSCREENED TO 9/30/46 SCREENED SUBSEQUENT TO 9/30/46

SEASON	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1932-33	5.63	4.80	2.44	2.21	3.14	4.88	5.82	7.75	9.08	10.10	9.41	6.59	71.85
1933-34	4.99	4.05	1.74	1.72	1.62	4.33	6.36	9.06	6.80	8.92	7.98	7.98	67.35
1934-35	4.25	2.85	2.19	1.77	2.71	3.09	4.39	6.38	8.52	10.19	9.64	7.34	63.12
1935-36	6.12	3.42	2.45	2.32	2.08	3.68	4.70	8.49	9.76	10.29	9.56	7.56	70.43
1936-37	5.11	4.04	1.96	1.41	2.06	3.84	5.82	6.04	8.32	10.17	10.21	8.21A	67.19
1937-38	5.09	2.98	2.33	2.50	1.95	3.38	4.70	6.74	7.32	8.98	8.86	7.42	62.25
1938-39	5.20	4.06	2.42	1.88	3.12	2.94**	4.61	6.50	8.57	9.06	8.46	7.14	63.96**
1939-40	4.66	2.92	2.30	1.12**	2.26**	3.46	4.52	6.59	7.04	9.21	8.37	7.01	59.46**
1940-41	5.05	2.83	2.02	1.41	1.47	2.96	3.52	7.04	6.66	8.50	7.30	6.40	55.16
1941-42	4.52	2.84	1.35	1.40	2.01	3.78	3.36	5.74	6.14	9.14	8.27	6.12	54.67
1942-43	4.82	2.90	2.06	1.76	2.00	2.38	3.97	6.56	7.44	8.93	8.38	7.08	58.18
1943-44	4.93	3.58	2.03	1.58	1.82	3.48	5.00	5.89	6.38	7.86	8.58	5.90	57.03
1944-45	3.54	2.14	1.76	1.73	1.69	2.55	4.61	5.57	5.06	7.75	6.45	6.43	57.03
1945-46	4.20	3.04	2.04	2.45	2.02	3.31	4.18	4.62	7.94	8.64	8.36	7.68	58.48
1946-47	3.64	1.73	1.19	1.37	1.43	2.50	4.09	4.30	5.78	8.06	7.11	5.24	45.80
1947-48	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
1948-49	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*
1949-50	4.27	2.33	1.43	1.28	2.99	3.88	4.68	6.16	7.21	6.32	5.14	4.63	51.37**
1950-51	4.43	3.00	1.83	1.64	2.14	3.31	2.93	5.20	5.36	6.09	6.75	5.01	47.09
1951-52	4.22	2.26	1.00	.68	1.88	2.10	5.16	5.66	7.13	7.11	5.83	45.14	
1952-53	3.78	1.83**	1.06**	1.05**	2.43**	2.63**	3.40	6.00	5.27	7.24	6.84	5.38	46.91**
1953-54	4.51	2.23	2.70	1.13**	2.10**	2.51**	3.12	4.46	5.20	7.14	6.87	5.42	47.05**
1954-55	3.91	2.22	1.40	1.17	2.36	3.38	5.36	4.02	5.67	6.97	7.94	6.26	50.66
1955-56	3.42	2.16	1.08	.99	1.86	3.55	3.15	3.57	5.93	6.78	5.15	6.09	43.73
1956-57	3.16	4.33	1.62	1.13	1.36	2.17	3.13	3.68	4.35	7.76	7.56	5.65	45.92
1957-58	2.74	1.58	1.34*	1.37**	2.56**	1.60*	3.32*	5.28	5.28	7.75	5.84	5.85	42.13**
1958-59	4.30	2.40	1.88	1.70	1.43	3.49	3.59	5.18	6.52	8.20	7.70	5.18	41.37**
1959-60	4.05	3.02	2.05	1.34	1.60	2.68	4.25	5.88	6.36	6.74	6.27	6.35	50.57
1960-61	3.94	1.58	1.52	1.65	1.95	2.82	4.68	5.66	6.35	7.88	7.17	4.56	49.76
1961-62	4.19	2.00	1.19	1.58	1.22**	2.32	4.35	5.02	4.82	7.45	7.82	5.62	47.58**
1962-63	3.38	2.26	1.48	1.60	1.66**	3.27	3.39	4.60*	4.11	7.61	7.48	5.06	45.90**
1963-64	3.84	2.18**	1.68	1.68	2.62	3.52	4.06	5.18	5.45	7.51	6.78	5.79	48.61**
1964-65	4.09	2.90**	1.11*	1.35	2.03	3.23**	3.60	5.10	4.30	6.81	7.44	4.74	47.44
1965-66	4.80	2.11*	1.17*	1.58**	1.73	3.08	4.52	4.94	6.31	7.40	4.94	5.53	51.16
1966-67	4.12	1.86	1.28**	1.28**	2.30	3.31	2.49	5.36	5.22	8.06	8.60	8.71	52.57**
1967-68	N.R.	INC.	1.83	1.65	1.58	3.32	4.82	5.00	8.31	8.77	5.53	INC.	INC.
1968-69	3.26	1.97	1.46	INC.	INC.	INC.	3.95	4.31	3.47	6.00	8.44	5.46	INC.
1969-70	4.12	2.38	1.67	1.09	2.38**	7.92	4.42	5.78	6.21	8.04	7.54	4.98	52.53**
1970-71	4.38	2.14**	1.10	1.30	2.00	3.21	3.88	2.84	5.92	8.12	8.25	5.99	47.13
1971-72	5.28	2.44	INC.	1.89	2.62	4.36	4.42	6.28	7.17	9.31	7.37	6.26	INC.
1972-73	3.10	2.11	1.74	1.52	1.46	2.10	4.44	4.52	6.98	7.74	7.05	4.40	47.16
1973-74	4.33	1.93	1.42	0.93*	2.31	2.26	4.52	4.71	6.30	7.84	6.90	5.60	49.10**
1974-75	3.98	3.95	1.81	2.13	1.87	3.48	3.33	6.97	6.64	9.55	8.74	6.79	58.34
1975-76	3.89	2.58	1.88	2.28	2.13	3.52	4.02	5.11	6.76	6.73	6.68	3.89	49.57
1976-77	3.95	2.89	1.94	1.42	2.39	3.76	4.34	3.83	5.68	7.51	5.65	5.29	49.65

\* = AMOUNT ESTIMATED IS GREATER THAN 10% OF TOTAL  
 \*\* = AMOUNT ESTIMATED IS LESS THAN 10% OF TOTAL  
 \* = RECORD INCOMPLETE - WATER IN PAN FROZEN  
 N.R. = NO RECORD  
 INC. = RECORD INCOMPLETE  
 A = PREVIOUS TO THIS DATE, PAN WAS SET IN GROUND 34 INCHES AND WATER SURFACE MAINTAINED AT GROUND LEVEL (2 INCHES BELOW TOP OF PAN). AFTER THIS DATE, PAN WAS SET IN GROUND 33 INCHES AND WATER LEVEL MAINTAINED AT GROUND LEVEL (3 INCHES BELOW TOP OF PAN). THE MEASURED RATE OF EVAPORATION WAS REDUCED AS A RESULT OF THIS CHANGE.

MONTHLY EVAPORATION SUMMARY  
STATION NO. 390B  
MOPRIS DAM  
72" DIAMETER

SEASON	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1930-31	5.14	4.15	2.76	2.21	2.39	4.97	4.49	5.46	6.26	8.80	7.68	6.30	60.61
1931-32	4.33*	2.77	1.34	1.54	1.78	3.89	5.03	6.26	6.20	7.64	7.46	5.44	52.08
1932-33	5.02	4.28	1.90	1.92	3.07	4.21	3.77	5.62	7.36	8.53	8.11	6.17	59.96
1933-34	5.69	4.90	1.90**	2.80	2.17	4.45	5.33	7.32	5.72	8.72	8.08	7.04	64.12**
1934-35	4.52	2.76	1.96	1.62	2.60	2.59	3.46	4.50	6.58	8.12	7.94	6.34	52.99
1935-36	5.23	3.05	2.52	2.50	1.44	3.40	3.97	6.68	7.43	8.21	9.14	7.04	59.61
1936-37	4.82	4.27	2.06	1.00*	1.56	2.71	4.75	4.72	6.11	8.30	7.94	7.10	55.34*
1937-38	5.20	2.88	2.39	2.14	1.48	2.65	3.97	4.03	6.01	7.68	7.61	6.84	53.88
1938-39	4.49	3.92	2.12	1.75	2.20	2.46	4.10	5.26	7.32	8.10	8.00	6.22	50.25
1939-40	4.66	3.32	2.58	1.36	1.80	3.20	3.70	6.04	6.58	8.99	7.97	6.58	50.84
1940-41	5.46	3.32	2.08	1.42	1.13	2.63	2.90	5.51	5.71	7.83	6.47	5.60	50.11
1941-42	3.91	2.89	1.44	1.67	2.26	3.98	3.10	5.90	6.35	7.82	7.69	6.37	53.39
1942-43	4.27	2.78	2.04	2.11	1.91	2.04	3.46	6.20	6.34	8.00	7.88	6.83	53.65
1943-44	4.79	3.40	1.54	1.58	1.42	3.25	3.73	5.10	4.73	7.32	7.96	6.86	50.94
1944-45	4.18	2.03	1.93	1.79	1.66	2.17	4.32	5.60	4.54	7.30	7.26	6.05	48.83
1945-46	3.85	2.90	1.67	2.63	2.20	2.88	4.14	3.91	7.24	7.96	9.48	6.71	54.37
1946-47	3.88	2.24	1.56	2.17	1.92	2.64	4.42	5.22	5.99	9.52	7.93	9.94	54.23
1947-48	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
1948-49	4.26	3.86	1.86	1.70	1.54	2.66	4.48	5.04	7.27	8.28	8.40	7.74	56.85
1949-50	5.09	3.95	2.40	1.37	1.98	3.32	4.04	4.94	7.71	8.24	8.33	5.72	56.39
1950-51	5.48	3.79	3.11	1.97	2.16	4.06	3.41	5.84	6.50	8.60	8.48	6.85	60.31
1951-52	5.56	3.11	1.73	1.30	2.42	2.36	3.22	6.37	6.24	8.68	8.63	7.02	50.64
1952-53	5.11	2.39	1.48	2.16	3.36	3.64	3.82	6.20	6.26	8.82	8.38	6.82	58.04
1953-54	6.16	3.26	3.61	1.92	3.13	2.78	4.07	4.92**	6.17	8.56	7.62	7.31	59.51**
1954-55	5.51	3.47	2.34	1.70	2.62	3.80	4.08	4.44	6.22	7.94	8.63	6.86	59.72
1955-56	4.84	3.40	1.84	1.80	2.39	4.31	3.53	4.94	7.43	8.22	6.52	6.84	55.66
1956-57	3.60	5.17	3.95	2.32	1.66	3.08	4.03	4.45	6.88	9.29	9.00	8.85	60.34
1957-58	3.35	3.19	3.44	2.48	1.66	2.09	3.79	6.18	7.64	8.35	7.84	7.74	57.75
1958-59	5.96	3.95	3.74	4.33	1.78	4.64	4.88	5.22	7.12	9.00	8.46	5.78	64.92
1959-60	5.35	4.31	2.92	1.70	2.50	3.50	5.46	6.36	7.49	9.38	8.74	8.08	65.78
1960-61	5.21	2.44	2.90	2.84	2.95	3.52	5.39	5.98	7.54	8.86	8.33	6.96	62.87
1961-62	5.68	3.43	1.81	2.53	1.19	2.50	5.40	5.42	6.12	8.27	8.72	6.96	58.07
1962-63	4.62	3.37	2.86	2.11	2.62**	3.62**	4.76	4.90	5.74	8.65	8.40	5.54	57.05**
1963-64	4.52	2.64	3.01	2.48	3.64	3.58	4.34	5.70	6.34	7.73	9.26	8.70	58.94
1964-65	5.42	2.71	1.76*	2.09	2.83	3.14	3.65	4.54	4.95	6.41	8.56	5.75	54.71**
1965-66	6.28	2.28	1.66	2.35	2.33	3.80	5.18	4.52	7.32	9.38	8.62	6.70	61.47
1966-67	5.28	2.47	1.88	1.99	3.18	3.04	2.51	5.30	5.11	8.62	8.56	5.57	53.51
1967-68	6.13	2.87	2.16	2.09	1.81	4.02	5.14	5.62	6.36	8.39	7.82	6.80	59.21
1968-69	4.75	3.62	2.30	1.24	.83	3.49	4.22	5.99	4.73	8.59	9.72	7.43	60.71
1969-70	5.42	3.30	2.62	1.69	2.87	3.64	5.28	5.20	6.74	9.38	9.40	8.15	64.59
1970-71	5.02	2.94	1.25	2.27	2.71	3.89	4.98	4.87	6.73	9.17	9.40	7.42	60.65
1971-72	5.82	3.17	2.30	2.66	3.02	4.83	6.07						

MONTHLY EVAPORATION SUMMARY  
 STATION NO. 425B  
 SAN GABRIEL DAM  
 24" DIAMETER SCREENED

SEASON	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1946-47	4.96	2.51	2.17	3.18	2.42	3.10	4.86	5.90	6.24	10.95	8.90	8.42	63.61
1947-48	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
1948-49	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
1949-50	6.22	5.42	3.38	1.74	2.64	3.94	4.66	5.29	7.14	8.85	9.24	6.29	64.81
1950-51	6.78	4.82	3.90	2.50	2.87	4.48	3.34	6.06	6.62	9.07	9.13	7.62	67.19
1951-52	6.51	3.84	1.96	1.64	2.96	2.60	3.54	6.72	6.94	9.62	9.48	8.74	64.53
1952-53	6.87	3.34**	1.96**	2.54**	4.24	4.12**	4.12	6.90**	6.79	9.28	9.04	7.63	66.83**
1953-54	6.78	4.30	4.22	2.20**	3.78**	3.00	4.27	5.30	6.21	8.78	7.82	8.78	65.14**
1954-55	6.44	4.04	2.85	1.78	3.03	3.88	5.74	4.27	5.92	8.00	8.84	8.98	63.77
1955-56	5.67	3.47	1.92	2.04	2.30	5.00	3.67	4.74	7.16	8.10	8.78	9.40	62.25
1956-57	4.85	5.66	4.20	1.75	1.77	2.84	4.30	4.40	6.64	9.38	9.82	7.40	63.01
1957-58	3.73	3.18	2.74	2.84	1.78	2.24	4.16	6.48	7.54	8.97	7.94	8.92	60.52
1958-59	6.78	4.62	4.48	3.12	2.25**	5.44	5.30	5.38	7.38	9.00	9.04	6.74	69.53**
1959-60	6.80	5.82	4.18	2.52	2.90	4.06	6.16	7.03	8.33	10.49	9.30	9.34	76.93
1960-61	6.70	3.76	4.19	4.64	3.86	4.52	6.18	6.26	7.66	9.20	9.08	8.30	74.35
1961-62	7.64	4.76	2.58	3.46	1.96*	3.06	6.20	6.08	6.74	9.12	10.63	8.97	71.20**
1962-63	6.48	4.74	4.62	3.46	3.39**	4.37	4.66	5.32	5.28	9.45	9.39	8.52	69.68**
1963-64	5.46	3.80	4.90	4.06	5.32	5.17	4.94	5.91	6.96	10.30	9.18	8.20	74.20
1964-65	7.78	4.17	2.63**	3.00**	4.27	4.12	4.72**	6.46	5.29	9.52	10.03	7.47	69.46**
1965-66	9.34	4.20**	2.95**	3.73**	3.15**	4.88	6.34	5.90	8.02	10.29	8.80	7.85	75.45**
1966-67	7.28	4.17**	3.34	3.68	4.78	4.07	3.77	6.53	5.99	9.43	9.70	6.38	69.10**
1967-68	8.16	4.62	3.35	3.80	2.78	5.19	5.96	5.97	7.00	8.72	8.43	8.27	72.25
1968-69	7.01	5.42	4.42	2.79	2.25	4.31	4.98	5.76	5.00	8.61	10.22	9.45*	70.22*
1969-70	N.I.	4.96	4.00	2.54	3.98	4.24**	5.42	7.36	6.89	9.48	9.33	9.18	INC.
1970-71	6.55	4.88**	2.36**	3.28	3.82	4.48	5.62	5.20	6.90	9.05	9.48	8.24	70.18
1971-72	7.22	4.37	3.16	3.14	3.50	4.48	5.99	6.30	6.82	9.83	8.37	6.40	69.58
1972-73	4.84	3.63	3.30	2.74	2.02	3.12	5.23	5.44	7.24	8.14	7.85	6.13	59.68
1973-74	6.59	3.50**	2.90	2.38*	3.81	2.94**	5.64	5.49	7.56	8.58	8.35	7.71	65.61**
1974-75	5.26	4.38	3.72	3.43	2.70	3.72	3.38	5.54	6.36	8.35	9.10	7.52	63.46
1975-76	5.93	4.98	4.05	5.34	3.71	4.49	4.53	5.91	8.37	8.09	8.90	5.20	69.50
1976-77	6.22	5.09	4.32	2.80	4.40	4.66	5.30	4.54	6.51	9.59	7.95	6.86	68.3

\* = AMOUNT ESTIMATED IS GREATER THAN 10% OF TOTAL  
 \*\* = AMOUNT ESTIMATED IS LESS THAN 10% OF TOTAL  
 N.I. = NOT INSTALLED  
 INC. = RECORD INCOMPLETE

MONTHLY EVAPORATION SUMMARY  
 STATION NO. 444F  
 SOUTH COAST BOTANIC GARDENS  
 24" DIAMETER SCREENED

SEASON	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1964-65	N.I.	N.I.	N.I.	N.I.	N.I.	INC.	3.95*	5.99	INC.	INC.	INC.	INC.	INC.
1965-66	5.05	2.24*	1.82*	2.60*	2.19	3.72*	5.90	5.50	5.15	6.45	7.05	5.08	52.75
1966-67	5.53	2.38	1.78**	1.90	2.15	3.05	3.44	5.77**	5.10	6.60	7.37	5.02	50.09**
1967-68	4.53	2.66	1.74	1.65	1.63	3.93	5.36	5.71	5.32	6.26	7.06	5.61	51.46
1968-69	3.55	2.60	1.69	1.30	1.49	3.21	4.77	4.70	4.22	6.11	7.12	5.18	45.94
1969-70	4.45	3.31**	1.94	1.29	1.60	3.14	5.76	5.58	5.92	7.27	7.14	5.72	53.12**
1970-71	3.80	2.90	1.40	1.65	2.36	3.28	4.55	5.12	5.15	6.82	7.48	5.98	50.55
1971-72	4.94	2.30	1.79	1.42	1.50	3.12	4.55	5.37	4.96	7.10	6.39	4.45	INC.
1972-73	3.46	2.12	2.22	3.59	1.84	3.06	4.62	4.30	5.32	5.40	5.05	4.22	45.20
1973-74	3.98**	2.16**	1.58	1.38*	1.92	2.10	4.37	4.02	5.15	8.00	8.50	6.40**	49.56**
1974-75	4.33	2.62	3.34	2.90	3.40	4.05	4.64	7.25	6.60	7.88	7.60	5.28	59.89
1975-76	3.35	2.44	1.34	3.05	1.60	3.46	3.50	5.42	7.00	5.88	6.73	3.10	46.67
1976-77	3.68	2.72	1.75	1.01	1.88	3.25	3.86	4.96	4.47	6.24	5.62	4.33	43.77

\* = AMOUNT ESTIMATED IS GREATER THAN 10% OF TOTAL  
 \*\* = AMOUNT ESTIMATED IS LESS THAN 10% OF TOTAL  
 N.I. = NOT INSTALLED  
 INC. = RECORD INCOMPLETE

MONTHLY EVAPORATION SUMMARY  
STATION NO. 794  
LOWER FRANKLIN RESERVOIR  
24" DIAMETER SCREENED

SEASON	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1953-54	N.I.	N.I.	N.I.	N.I.	N.I.	3.66	3.53	5.45	6.10	8.83	7.78	7.11	INC.
1954-55	5.25	2.85	3.81	2.57	3.08	4.68	7.02	5.27	5.35	7.50	8.56	7.87	63.81
1955-56	4.56	4.91	2.24	1.92	2.94	4.96	4.01	4.76	6.70	8.14	7.78	7.61	60.53
1956-57	5.39	6.52	4.60	3.76	1.95	4.24	4.38	4.98	6.70	8.34	8.94	6.43	66.23
1957-58	5.18	3.76	2.53	3.14	2.25	2.48	4.97	6.61	7.91	8.40	8.52	6.94	62.29
1958-59	6.81	5.00	4.42	3.71	4.88	6.12	6.04	6.96	7.42	9.82	8.90	6.96	77.04
1959-60	6.03	5.73	4.26	3.30	4.15	3.62	7.22	7.32	6.82	8.88	8.52	7.62	73.47
1960-61	6.52	4.00	4.10	4.60	4.64	5.44	6.24	7.04	6.78	8.56	8.34	6.86	73.12
1961-62	6.23	4.97	2.68	4.17	2.35	3.70	5.98	6.12	6.12	7.78	8.54	6.67	65.31
1962-63	4.92	4.20	3.41	3.38	3.32	5.06	5.23	5.02	5.90	8.40	8.27	7.21	63.92
1963-64	5.82	4.42	4.89	4.31	5.42	5.45	6.08	6.56	6.22	8.86	8.00	6.95	72.98
1964-65	5.92	4.74	2.29	3.49	4.12	4.38	5.14	6.92	5.57	8.22	8.61	6.89	66.39
1965-66	7.79	3.74	3.55	4.01	3.91	5.08	6.40	5.77	7.41	9.16	8.58	7.34	72.74
1966-67	6.79	3.61	3.78	3.77	4.37	4.50	4.28	6.40	6.50	8.23	9.04	6.66	67.93
1967-68	6.92	4.12	3.57	3.71	2.73	5.54	6.39	6.84	6.94	8.40	8.49	7.29	70.94
1968-69	5.34	4.73	3.94	2.66	3.53	3.93	5.18	5.18	4.86	7.30	8.10	6.45	61.20
1969-70	6.47	4.78	3.74	2.82	3.34	5.70	7.05	7.37	7.13	9.06	9.11	8.10	74.67
1970-71	5.80	4.16	3.06	3.24	4.36	4.92	6.06	6.24	6.36	8.67	9.17	7.86	63.90
1971-72	7.46	4.56	3.91	3.74	3.74	5.66	6.29	6.98	7.46	9.81	8.60	6.80	74.84
1972-73	5.37	4.70	4.44	6.15	3.62	3.89	6.04	5.69	7.52	7.83	8.24	6.09	69.58
1973-74	6.46	4.12	5.54	2.34	4.38	3.20	6.35	5.99	7.27	8.36	8.11	6.98	69.11
1974-75	4.90	5.18	4.94	4.58	3.90	3.97	4.18	5.90	5.61	7.58	7.58	7.23	65.55
1975-76	6.31	5.42	4.40	4.97	3.40	6.47	5.45	8.05	7.80	7.87	7.89	4.82	72.85
1976-77	5.98	5.43	4.60	6.69	4.85	5.94	5.56	N.R.	N.R.	N.R.	N.P.	N.R.	INC.

N.I. = NOT INSTALLED  
INC. = RECORD INCOMPLETE

MONTHLY EVAPORATION SUMMARY  
STATION NO. 802B  
EAGLE ROCK RESERVOIR  
48" DIAMETER U.S.W.B. TYPE A

SEASON	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1955-56	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	7.84	7.05	8.18	INC.
1956-57	4.41	5.73	4.44	2.31	2.88	4.55	4.42	5.53	7.52	9.29	9.21	5.62	60.91
1957-58	4.11	3.65	3.40	1.77	3.25	2.95	5.96	6.80	7.84	8.28	7.55	7.19	64.75
1958-59	6.34	4.59	4.00	3.93	2.93	6.81	5.71	6.00	7.24	9.74	8.31	6.15	71.76
1959-60	5.57	5.70	3.75	2.56	3.43	4.54	6.73	7.40	7.13	9.01	7.70	8.29	71.41
1960-61	5.83	3.50	3.93	4.34	4.31	4.90	5.86	6.12	7.73	8.37	7.99	6.50	63.80
1961-62	5.38	3.43	2.93	5.71	2.62	3.91	6.35	5.56	5.56	7.66	8.79	6.62	69.52
1962-63	4.61	3.84	3.38	3.26	3.65	4.86	5.22	4.72	4.01	8.43	8.71	7.60	62.50
1963-64	4.63	3.73	4.60	3.77	5.24	5.47	5.62	6.48	5.96	9.27	7.68	6.81	69.52
1964-65	5.87	4.27	1.91	3.61	4.23	4.14	5.88	5.74	4.94	8.14	8.70	5.82	62.85
1965-66	7.54	4.42	3.10	3.88	3.76	5.05	5.78	5.07	7.39	4.03	9.12	6.58	68.02
1966-67	6.05	3.55	3.74	3.82	4.54	4.44	4.00	6.36	5.46	8.70	9.25	5.64	69.74
1967-68	6.68	3.70	3.15	3.68	3.17	5.93	6.61	6.36	6.38	8.60	8.21	7.10	59.63
1968-69	4.97	4.49	3.51	2.18	2.55	5.25	5.71	5.84	4.15	8.53	9.44	6.60	63.38
1969-70	6.31	5.13	3.37	2.50	2.75	6.85	6.59	6.82	5.53	9.25	9.32	8.29	73.87
1970-71	5.16	3.74	2.56	3.11	3.81	4.91	5.58	5.46	6.58	9.14	9.62	8.77	67.70
1971-72	6.93	3.84	3.70	3.40	3.78	4.91	6.48	6.55	6.75	17.01	8.27	6.18	70.86
1972-73	4.72	4.10	3.83	3.53	4.08	4.24	6.05	5.94	7.83	7.59	7.68	5.41	65.00
1973-74	5.41	3.52	3.30	3.21	3.84	3.45	6.75	5.23	7.60	8.77	7.26	6.98	65.22
1974-75	4.37	4.15	4.02	3.84	7.20	6.42	3.88	6.10	5.22	7.43	9.14	7.58	53.41
1975-76	4.78	4.48	3.54	4.19	3.25	5.32	4.73	5.37	7.73	6.77	7.30	4.37	61.83
1976-77	5.22	4.95	3.83	6.08	4.13	4.67	5.43	3.87	6.52	8.17	6.44	5.86	65.17

N.I. = NOT INSTALLED  
INC. = RECORD INCOMPLETE

MONTHLY EVAPORATION SUMMARY  
 STATION NO. 1008  
 LA FRESA - S.C. EOlSON CO. SUBSTATION  
 24" DIAMETER SCREENED

SEASON	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1946-47	3.66	2.02	1.12	2.58	1.07	2.12	4.24	4.42	4.96	6.44	5.94	4.26	42.83
1947-48	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	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
1949-50	3.60	2.52	1.65	1.35	1.07	2.02	3.24	4.12	4.48	5.22	5.11	3.60	37.98
1950-51	3.12	2.12	1.81	1.54	1.95	2.96	2.64	4.69	4.24	5.45	5.32	3.80	39.64
1951-52	3.51	2.16	1.63	1.38	1.97	2.45	2.72	4.56**	4.89**	5.03**	4.96	3.98	39.24**
1952-53	2.90	2.02	1.24	1.51**	2.66	3.00**	3.38*	6.14**	4.61	5.80	4.70	3.52	41.48**
1953-54	3.70	2.54	2.13	1.34	2.36	2.52	2.80	3.78	4.58	5.28	4.80	3.96	39.79
1954-55	3.20	2.18	1.66	1.67	2.18	3.12	4.48	3.93	4.20	5.47	5.19	4.70	41.98
1955-56	2.83	2.02	1.02	1.22	1.94	2.99	2.60	4.07	4.70	5.80	5.21	4.07	38.47
1956-57	3.18	3.16	1.96	1.40	1.16	2.52	3.34	4.63	4.86	5.72	5.59	4.30	41.82
1957-58	2.86	2.10**	1.66	1.67**	1.58**	2.54**	3.92	4.62	5.84	6.18	5.32	5.62	43.91**
1958-59	4.22	3.18	2.10	1.75	2.19	3.60	4.28	5.40	5.85	6.54	5.62	4.12	48.85
1959-60	3.02	2.34	2.11	1.73	1.76**	2.55	4.93	6.00	5.03	7.00	7.32	5.13	48.92**
1960-61	3.65	2.01**	1.90*	1.88**	2.30	2.44	3.57	4.18	4.02	5.78	5.48	4.18	41.39**
1961-62	3.32	1.98**	2.03*	1.72	2.82**	2.48	3.98	4.94	4.58	5.64	6.10	4.96	44.55
1962-63	3.51	2.08	1.76	1.76	1.76	3.29	4.08	4.56	4.92	5.93	5.75	4.78	44.18
1963-64	3.78	2.54	2.00	2.60**	3.20	2.80	4.61	5.12	4.92	6.05	6.02	4.02	47.66**
1964-65	3.32**	2.46*	1.36*	1.59**	1.90**	2.46**	3.13**	3.97	3.26**	3.98	5.80	4.67	37.90**
1965-66	INC.	2.46**	1.80*	2.49*	1.95**	2.99	3.98	4.49	5.41	5.98	6.01	4.74	INC.
1966-67	3.69	2.04	1.52**	1.72	2.09	2.73	3.41	4.90	4.70	6.20	5.83	4.69	43.52**
1967-68	3.98	2.29	2.07	1.36	1.30	3.57	5.20	5.95	5.98	6.35	6.03	6.03	50.11
1968-69	3.48	3.03	2.86	2.02	1.77	3.46	4.88	5.02**	4.39	6.80	9.75	4.98	51.26**
1969-70	4.45	2.52	2.12	1.96**	2.78	3.42	5.52	6.14	5.82	8.04	7.22	6.15	56.14
1970-71	4.61**	INC.	2.01	1.82	2.05	2.65	4.74	4.20	5.22	6.76	7.25	5.38	INC.
1971-72	4.35	2.50	2.05	1.60	1.92	2.98	4.52	5.52	5.20	6.88	7.10	5.84	50.46
1972-73	3.28	2.49	2.74	2.35	1.94	2.62	5.32	4.60	5.00	5.82	5.68	4.25	46.00*
1973-74	3.73	2.15*	2.00*	1.60*	2.54	2.40	5.18	5.12	6.28	7.32	7.18	5.84	51.34**
1974-75	3.45	2.38	2.12	2.34	1.92	2.46	3.50	5.20	5.72	7.32	7.70	6.25	50.36**
1975-76	4.71	2.63	2.43	2.34	2.97	3.62	3.46	5.70	5.15	6.18	5.86	4.10	49.13
1976-77	4.42	3.43	2.65	1.95	3.38	2.80	5.00	5.39	5.15	8.78	5.88	5.35	54.18

\* = AMOUNT ESTIMATED IS GREATER THAN 10% OF TOTAL  
 \*\* = AMOUNT ESTIMATED IS LESS THAN 10% OF TOTAL  
 INC. = RECORD INCOMPLETE

MONTHLY EVAPORATION SUMMARY  
 STATION NO. 1014F  
 RIO HONCO SPREADING GROUNDS  
 24" DIAMETER SCREENED

SEASON	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1951-52	3.51*	2.16*	1.48	1.33	2.38	1.69	1.92	4.85	4.50	6.23**	6.08	4.55	40.98**
1952-53	3.10	1.98	1.22	1.16	2.55	2.90	3.38**	6.56	5.31	7.24	6.08	4.34	45.82**
1953-54	4.12	3.55	2.79	1.39**	1.86	2.10	2.17	5.68**	5.00	6.33	5.86	5.30	46.15**
1954-55	3.79	3.10	2.22	1.98	2.02**	3.76**	4.84	3.88	4.38	5.58	6.66	5.66	47.78**
1955-56	3.61	3.15	1.59	1.82	1.76	3.30	2.65	4.12	5.05	5.83	5.60	5.38	43.86
1956-57	3.34	4.18	2.96	1.31	1.46	2.50	3.28	3.30	4.45	6.48	6.10	4.35	43.71
1957-58	2.88	1.85	1.80	1.84	1.28**	1.68	3.02	3.80	5.78	5.28	4.89	5.15	39.25**
1958-59	4.03	2.72	2.15	1.60**	1.66	3.35	3.82	4.35	5.20	7.00	6.35	4.58	46.81**
1959-60	3.98	2.98	2.16	1.18	1.98	2.44	4.28**	4.70	4.98	6.73	5.90	5.20	46.11**
1960-61	3.50	1.88	1.76	2.18**	2.30	3.24	4.08	4.90	5.22	6.25	5.83	4.45	45.59**
1961-62	3.88	2.25**	1.26	1.66	.84	2.14	3.82	4.24	3.96	5.78	6.02	4.42	40.27
1962-63	3.10	2.30	1.94	2.28**	1.64*	2.98	3.12	3.58	4.60	6.63	6.10	5.39	43.06**
1963-64	3.52**	2.11**	2.28	2.26	3.10	3.93	4.58	5.36	4.92	7.12	6.45	5.00	50.63**
1964-65	3.61	2.47**	1.38*	1.91	2.48*	2.85	2.92	4.70	4.80	6.47	6.49	4.60	44.68**
1965-66	4.73	1.85**	1.54**	1.52	1.84**	3.27	4.33	4.57	5.70	6.80	6.20	5.30	47.55**
1966-67	4.18	N.R.	INC.	2.45	2.88	3.65	1.53	5.60	4.84**	6.58	7.65	5.18	INC.
1967-68	5.20	3.14	2.44	3.12	2.29	4.40	5.00	5.98	6.20	7.54	6.90	5.90	58.11
1968-69	3.99	3.07	2.64	2.20	1.56	3.42	4.84	5.36	4.30	7.38	7.98	5.45	52.19
1969-70	5.28	3.77	2.91	1.92**	3.05**	3.52	5.68	5.65	5.62	7.42	7.40	6.18	58.40**
1970-71	4.20	2.83	1.84	1.92	2.48	3.59	5.00	5.22	5.48	7.55	7.80	6.05	53.96
1971-72	5.52	2.48	2.41	2.18	2.48	3.62	5.26	6.05	6.16	8.00	7.79	5.30	57.25
1972-73	4.25	2.59	3.13	2.58	2.14	2.97	5.40	5.20	6.38	7.20	6.52	4.38	52.74
1973-74	4.76	2.81	2.52	1.73*	3.52	2.50	5.42	5.30	6.68	8.22	7.00	5.68	56.14**
1974-75	4.28	3.64	2.38	2.89	2.12	3.36	3.66	5.58	5.35	7.28	7.02	5.40	52.96
1975-76	3.97	3.10	2.34	3.40	2.58	4.17	4.05	6.69	7.44	7.33	7.03	4.18	56.58
1976-77	4.77	3.98	3.64	1.98	3.36	4.41	5.52	5.08	6.50	8.29	7.30	6.04	60.87

\* = AMOUNT ESTIMATED IS GREATER THAN 10% OF TOTAL  
 \*\* = AMOUNT ESTIMATED IS LESS THAN 10% OF TOTAL  
 N.R. = NO RECORD  
 INC. = RECORD INCOMPLETE

MONTHLY EVAPORATION SUMMARY  
STATION NO. 10588  
PALMDALE  
24" DIAMETER SCREENED

SEASON	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1967-68	7.07	6.34	2.49	2.25	2.58	5.02	9.45*	12.68	16.73	18.20	13.81	12.00	108.60**
1968-69	7.53	4.79	3.51	2.34	2.34	4.44	6.69	7.48	11.35	13.66	15.33	10.30	91.76
1969-70	7.40	3.80	2.86	2.74	3.37	4.87	6.75	9.55	11.01	13.48	12.00	9.35	87.18
1970-71	6.22	3.35	1.32	2.03	3.54	5.22	6.81	7.94	12.92	12.98	11.28	8.15	83.76
1971-72	5.97	3.58	2.49	2.02	3.02	4.98	4.68	6.95	7.70	11.12	8.82	5.08	66.41
1972-73	3.76	3.06	2.50	2.17	2.13	3.64	4.90	6.42	9.40	13.20	10.42	8.75	70.35
1973-74	5.02	3.30	2.57	1.68*	2.85	3.53	5.36	7.23	9.58	9.74	11.92*	8.70	71.48**
1974-75	4.95	3.40	2.62	2.42	2.68	3.88	4.90	8.72	11.65	11.88	12.28	9.22	78.6*
1975-76	5.48	3.53	2.87	2.72	3.14	5.82	5.82	8.98	9.78	11.40	10.02	4.99	74.55
1976-77	4.65	2.65	2.36	1.28	2.62	4.12	6.36	5.82	8.67	10.0	8.27	6.33	63.13

\* = AMOUNT ESTIMATED IS GREATER THAN 10% OF TOTAL  
\*\* = AMOUNT ESTIMATED IS LESS THAN 10% OF TOTAL

MONTHLY EVAPORATION SUMMARY  
STATION NO. 10718  
DESCANSO GARDENS  
24" DIAMETER SCREENED

SEASON	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1953-54	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	INC.	4.46	6.55	5.22	5.12	INC.
1954-55	3.84	2.64	1.95	1.60	2.16	2.39	3.46	3.22	4.34	5.53	6.44	5.60	43.17
1955-56	3.58	2.66	1.48	1.84	2.51	4.59	2.89	4.55	6.59	7.25	6.38	6.74	51.06
1956-57	4.23	5.18	3.96	1.97	1.84	3.04	3.92	4.20	6.22	8.48	8.18	6.92	57.94
1957-58	3.73	3.08	2.56	2.78*	1.37*	2.30**	3.82**	5.05	6.28	7.68	7.44	7.45	53.54**
1958-59	6.00*	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.	N.R.	8.44	7.33	5.26	INC.
1959-60	5.12	4.64	3.24	1.89	2.51	3.50	5.45	6.22	7.36	9.45	8.41	7.85	65.64
1960-61	5.40	5.00**	3.78	3.91**	3.56	3.78	4.42	5.34	6.10**	7.48*	7.46	6.28	62.51**
1961-62	5.74	3.63	2.03	2.82**	1.38	2.32	4.57	4.11	4.71	7.10	7.42	6.20	52.03**
1962-63	4.10	3.54	3.02	2.64	2.87**	8.83	3.49	3.57	3.54	7.03	7.42	5.93	55.98**
1963-64	3.96	2.77	2.96	2.76	3.69	3.89	3.73	4.41	4.04	6.95	4.89	7.87	48.16
1964-65	4.97	2.70	1.69	2.05	2.57	2.79	3.23	3.91	6.10	8.39	8.90	6.47	57.21
1965-66	6.16	2.72	1.78	2.48	2.22	3.37	4.71	3.91	6.10	8.39	8.90	6.47	57.21
1966-67	5.21	2.76	2.10	2.11	3.17	2.90	2.45**	5.02**	4.44	7.41	7.26	5.12	49.95**
1967-68	5.71	2.75**	2.12	2.29	1.53	4.10	5.43	4.96	5.58	6.75	6.39	5.72	53.28**
1968-69	4.28	3.39	2.41	1.56	.98	3.30	3.71	4.52	3.20	6.02	7.42	5.77	46.56
1969-70	4.77	3.46	2.56	1.75	3.07	3.57	4.76	5.45	5.37	7.50	7.73	6.76	56.75
1970-71	4.36	2.91	1.70	1.89	2.64	3.50	4.13	4.00	4.78	6.74	7.36	6.15	50.16
1971-72	5.10	2.56	2.54	1.94	2.32	3.86	4.44	4.96	5.28	8.09	6.92	4.82	52.83
1972-73	3.54	3.13	2.62	2.04	2.37	2.46	4.24	4.30	6.42	6.77	6.46	4.90	49.25
1973-74	5.02	2.92*	2.12	1.54**	3.12	2.20	4.82	4.06	6.26	7.20	6.46	6.42	51.94**
1974-75	3.82	2.83	2.92	2.90	2.28	3.23	3.20	4.76	4.80	6.62	7.53	6.28	51.17
1975-76	4.59	3.95	3.01	3.40	2.50	4.08	3.84	4.77	6.74	7.05	7.26	3.71	54.90
1976-77	4.44	4.06	3.42	1.79	3.31	3.78	4.61	3.60	5.18	7.46	6.10	5.28	53.03

\* = AMOUNT ESTIMATED IS GREATER THAN 10% OF TOTAL  
\*\* = AMOUNT ESTIMATED IS LESS THAN 10% OF TOTAL  
N.I. = NDT INSTALLED  
N.R. = NO RECORD  
INC. = RECORD INCOMPLETE

# RUNOFF

The District operated or received data from 88 water-stage recording stations during the 1975-77 seasons. Data from 64 of those stations are summarized and published in this volume.

Of those stations published herein, two are operated by the United States Geological Survey and four by The Metropolitan Water District. The latter show the monthly quantities of imported water delivered for spreading under several cooperative agreements.

A map showing the location of all gaging stations currently operated by the District plus those which are the responsibility of the United States Geological Survey, the United States Corps of Engineers, and the Metropolitan Water District is included herein.

## RECORDS OF STREAMFLOW

Records published give the following information:

1. Station description which presents location, drainage area, type of channel, control, regulations, diversions, and available records.

2. Daily discharge tabulation which shows the mean daily runoff in second-feet and total monthly and yearly runoff in acre-feet.
3. Summary of total flows, and extremes of discharge for all years of record.

## COOPERATION

The District receives streamflow data from other agencies and publishes, or has access to, the records for local stations. District hydrographers also make periodic streamflow measurements and observations at installations belonging to these organizations. Data from 25 of the District's stations are reviewed and published in the Geological Survey's annual water supply papers.

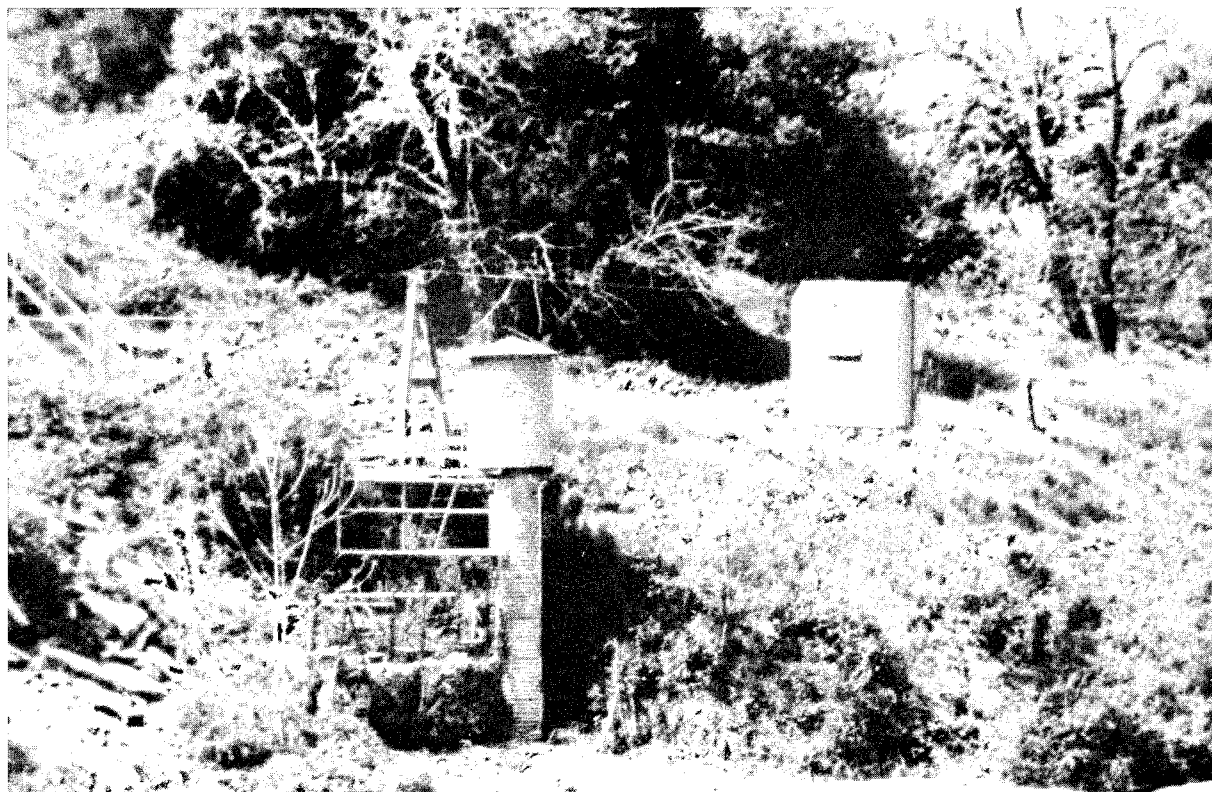
Agencies with which the District exchanges data are:

United States Geological Survey, Water Resources Division

United States Corps of Engineers

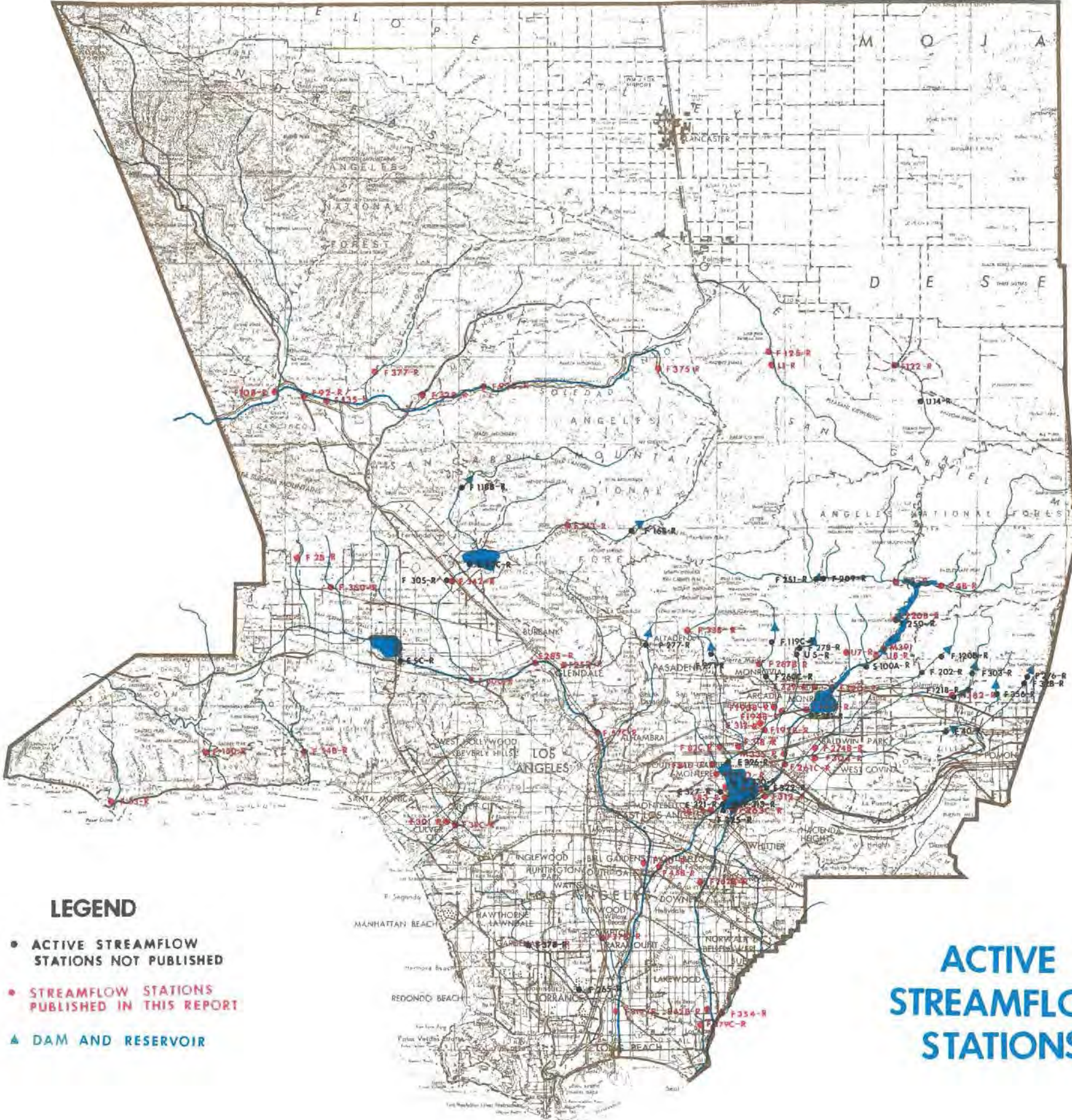
The Metropolitan Water District

San Gabriel River Water Committee



Streamflow Gaging Station No. F64-R on Rio Hondo Upstream of Mission Bridge





**LEGEND**

- ACTIVE STREAMFLOW STATIONS NOT PUBLISHED
- STREAMFLOW STATIONS PUBLISHED IN THIS REPORT
- ▲ DAM AND RESERVOIR

**ACTIVE STREAMFLOW STATIONS**



## LEGEND

Stations are designated by letters and numbers which indicate ownership, operation agency, and type of station. The letters used have the following connotations:

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

Prefix B - indicates a station owned by the San Bernardino County Flood Control District and operated by the Los Angeles County Flood Control District.

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

Prefix U - indicates station owned and operated by the United States Geological Survey, Water Resources Division. However, Stations U8-R and U7-R have been operated by the District since October 1, 1966, and October 1, 1971, respectively.

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

Prefix L - indicates station owned and operated by the District, formerly operated in cooperation with the Little Rock-Palmdale Irrigation District.

Prefix M - indicates station owned and operated by The Metropolitan Water District.

Prefix S - indicates station owned and operated by the San Gabriel River Water committee.

Prefix V - indicates station owned and operated by the Ventura County Water Resources Division.

Suffix R - indicates a recorder station.

Suffix S - indicates a staff gage station.

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

The following legend is used for indicating estimates on the daily discharge data sheets:

"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.

"e" - Other types of estimates.

"f" - Gage height record partly estimated. (Estimated part represents less than 75 per cent of the flow; otherwise, a, b, c, or d is used.)

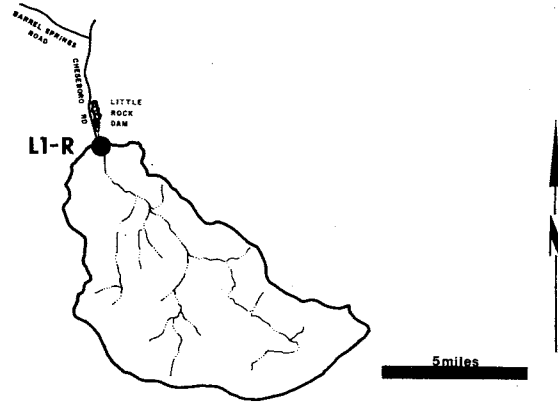
"v" - Gage height-discharge relation failed due to extreme and undetermined shift or unusual drawdown is stilling well.

These letters are placed in the discharge column; letters are not used if the estimated portion of the record represents less than ten per cent of the mean daily flow or if the total flow is estimated at .05 cfs or less.

**STATION NO. LI-R  
LITTLE ROCK CREEK  
above Little Rock Dam**

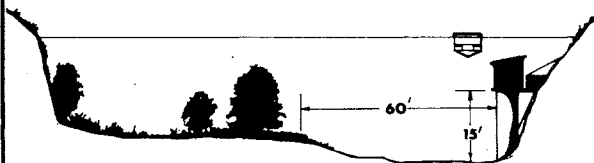


**drainage area**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from cable car  
 DRAINAGE AREA - 49.2 square miles  
 LOCATION - 2.0 miles above Little Rock Dam, 5.0 miles south of Little Rock  
 REGULATION - none  
 CHANNEL - sand, gravel, and boulders, natural in section  
 CONTROL - channel forms control  
 LENGTH OF RECORD - October 1, 1930, to date

**cross-section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. LI-R

DAILY DISCHARGE in second-feet of LITTLE ROCK CREEK ABOVE LITTLE ROCK DAM FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	0	1.0	0.9	38	20	15	2.7	B 0.2	A 0	A 0
2	0	0	0.5	1.0	0.9	49	19	16	2.2	B 0.2	A 0	A 0
3	0	0	0.9	1.0	0.9	34	19	16	2.0	B 0.2	A 0	A 0
4	0	0	1.0	1.0	1.0	24	20	15	2.1	B 0.2	A 0	A 0
5	0	0	1.0	1.0	1.2	21	18	14	2.0	B 0.2	A 0	A 0
6	0	0	1.0	1.0	2.3	19	17	14	2.0	B 0.2	A 0	A 0
7	0	0	1.0	1.0	3.1	18	16	14	1.8	0.1	A 0	A 0
8	0	0	1.0	1.0	14.7	18	17	12	1.8	0.1	A 0	A 0
9	0	0	1.0	1.0	270	17	15	11	2.1	0.1	A 0	A 0
10	0	0	1.0	1.0	74	19	15	10	2.3	0.1	A 0	A 5.0
11	0	0	1.0	1.0	45	19	15	9.5	2.0	+	A 0	A 133
12	0	0	1.0	1.0	34	19	16	8.7	2.0	+	A 0	A 46
13	0	0	1.0	1.0	28	18	16	7.4	2.0	+	A 0	A 16
14	0	0	1.0	1.0	27	18	16	7.0	2.1	+	A 0	A 13
15	0	0	1.0	1.0	25	19	16	6.4	1.8	+	A 0	A 11
16	0	0	1.2	1.0	20	22	15	6.1	1.2	0	A 0	A 7.8
17	0	0	1.2	1.0	17	24	14	5.7	1.0	0	A 0	A 5.1
18	0	0	1.2	1.0	19	30	14	5.4	0.7	0	A 0	A 4.4
19	0	0	1.2	1.0	20	32	14	5.2	0.6	0	A 0	A 3.7
20	0	0	1.2	0.9	20	28	15	5.2	0.5	0	A 0	A 3.0
21	0	0	1.2	0.9	17	25	16	5.2	0.6	0	A 0	A 2.3
22	0	0	1.2	0.9	15	24	19	4.9	0.5	0	A 0	A 2.3
23	0	0	1.2	0.9	14	24	20	4.6	0.4	0	A 0	A 2.0
24	0	0	1.2	0.9	12	26	21	4.4	0.3	0	A 0	A 4.9
25	0	0	1.2	0.9	11	28	22	4.4	0.2	0	A 0	A 4.2
26	0	0	1.2	0.9	14	26	21	4.2	0.2	0	A 0	A 3.6
27	0	0	1.2	0.9	16	25	19	3.9	0.2	0	A 0	A 2.9
28	0	0	1.2	0.9	17	24	18	3.6	0.2	0	A 0	A 5.5
29	0	0	1.2	0.9	19	22	17	3.5	0.2	0	A 0	A 2.1
30	0	0	1.2	0.9		20	15	3.0	0.2	0	A 0	A 2.1
31	0	0	1.0	0.9		20		2.9	0.2	0	A 0	A 0
MEAN	0	0	1.0	1.0	30.7	24.2	17.2	8.0	1.4	0.1	0	3.2
ACR-FT	0	0	64.3	59.1	1,770	1,490	1,020	492	81.5	2.2	0	549

YEAR OR PERIOD \_\_\_\_\_ MEAN ACRE-FEET \_\_\_\_\_ 7.6  
 5,520

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. L1-R

DAILY DISCHARGE in second-feet of LITTLE ROCK CREEK ABOVE LITTLE ROCK DAM FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	2.3	1.6	2.0	2.9	7.7	7.0	10	4.4	22	2.7	0.2	0.4
2	2.3	1.6	2.0	2.9	7.4	6.7	9.8	4.6	21	2.7	0.1	0.3
3	2.3	1.6	2.0	9.4	7.0	6.4	9.8	4.4	19	2.7	0.1	0.3
4	2.1	1.4	2.0	7.4	7.0	6.1	9.5	4.4	16	2.7	+	0.2
5	2.0	1.2	2.0	6.1	6.7	5.7	10	4.4	14	2.7	+	0.2
6	1.8	1.2	2.0	6.7	6.4	5.4	12	4.4	14	2.7	+	0.2
7	1.6	1.2	2.0	7.7	6.4	5.4	12	4.4	14	2.3	+	0.2
8	1.4	1.4	2.0	6.7	6.4	5.2	14	34	12	2.1	0	0.2
9	1.2	1.4	2.0	6.4	6.4	4.9	14	70	11	2.0	0	0.2
10	1.2	1.4	2.0	6.4	6.1	4.9	14	48	9.1	1.8	0	0.2
11	1.2	1.4	2.0	6.1	6.1	4.6	13	53	9.5	1.8	0	0.2
12	1.0	2.5	2.0	6.4	6.4	4.6	12	47	8.4	1.6	0	0.1
13	1.0	2.5	2.0	6.4	6.7	4.6	12	38	7.7	1.2	0	0.1
14	1.0	2.1	2.0	6.4	7.4	4.6	12	45	7.0	0.9	0	0.1
15	1.0	2.0	2.0	6.7	7.7	4.6	12	65	6.7	0.8	0	0.1
16	1.0	1.8	2.0	7.0	7.7	4.6	12	70	6.4	0.7	0	0.1
17	1.0	1.6	2.0	7.0	7.7	5.2	12	56	6.1	0.5	0	0.1
18	1.0	1.6	2.0	7.7	8.0	5.2	12	53	5.7	0.7	0	0.1
19	1.2	1.6	2.1	9.8	7.7	4.9	11	58	5.7	0.6	0	+
20	1.4	1.6	2.1	9.5	7.7	5.2	11	62	5.2	0.6	0.7	+
21	1.8	1.6	2.3	14	8.0	4.9	9.1	70	4.9	0.7	0.7	+
22	2.1	1.8	2.3	16	9.1	5.2	8.0	74	4.6	0.7	0.5	+
23	2.5	1.8	2.1	14	9.1	5.2	7.7	70	4.4	0.4	0.4	0
24	2.3	1.8	2.1	12	9.5	5.2	7.0	58	4.2	0.5	0.4	0
25	2.0	1.8	2.1	11	9.5	5.7	6.4	46	3.4	0.4	0.3	0
26	1.8	1.8	2.1	10	8.7	7.0	6.1	41	3.2	0.4	0.3	0
27	1.6	1.6	2.3	9.5	7.7	8.7	5.4	39	3.2	0.3	0.3	0
28	1.4	1.6	2.3	8.7	7.4	10	5.4	35	3.2	0.1	0.3	0
29	1.4	1.6	2.3	8.4		11	5.2	30	2.9	0.2	0.3	0
30	1.6	1.8	2.7	8.0		11	4.9	27	2.9	0.2	0.3	0
31	1.6		2.9	7.7		11		24		0.2	0.3	

MEAN	1.6	1.7	2.1	8.2	7.5	6.2	10	40.1	8.6	1.2	0.2	0.1
ACRE- FEET	97.4	99.4	130	506	417	378	594	2,470	511	76.4	10.3	6.5

YEAR OR PERIOD MEAN ACRE-FEET 7.3 5,300

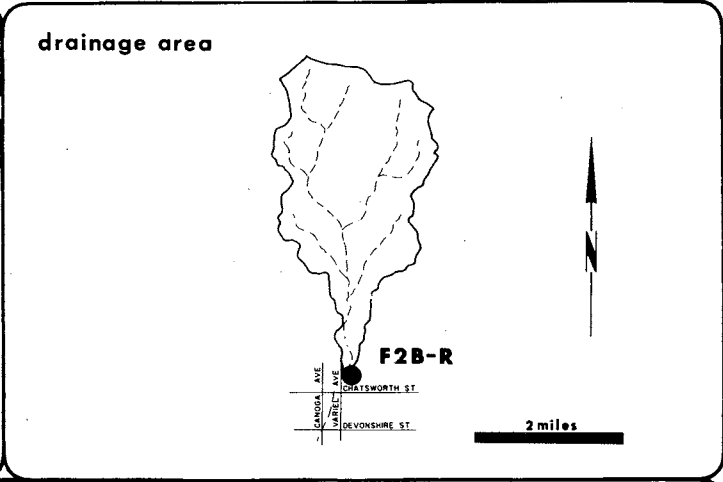
STATION DATA SUMMARY

STA. NO. L1-R  
LITTLE ROCK CREEK ABOVE LITTLE ROCK DAM

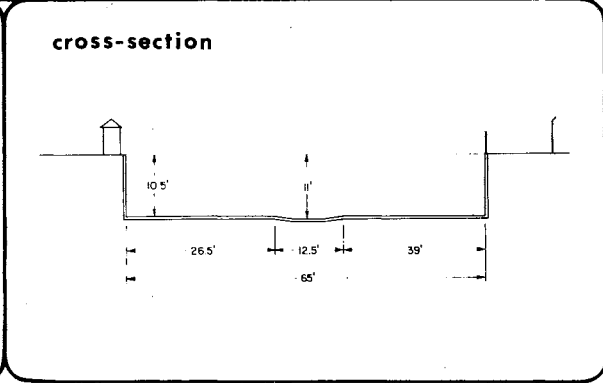
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW		
					MON	OAY	CFS
1930-31	195	0	5.0	3610	4	26	430
1931-32	830	0	*	16730*	2	8	2200
1932-33	56	0	5.8	4180	3	9	66
1933-34	455	0	5.2	3770			N.O.
1934-35	716	0	24.4	17640	2	5	925
1935-36	127	0	4.6	3320	2	23	261
1936-37	679	0	30.3	21950	2	6	1550
1937-38	N.O.	0	N.O.	N.O.	3	2	17000
1938-39	NO RECORD						
1939-40	183	0	9.6	7000	1	8	555
1940-41	1730	0	71.3	51620	2	20	2240
1941-42	55	*	7.1	5140	4	14	92
1942-43	2730 E	0	49.5	35870	1	23	5700
1943-44	736	0.8	49.6	35940	2	22	902
1944-45	323	0.1	12.8	9250	11	11	1080
1945-46	604	0	16.7	12150	12	21	1100
1946-47	1740	0	21.9	15840	12	26	3180
1947-48	62	0	3.4	2450	4	29	122
1948-49	33	0	4.4	3170	4	14	37
1949-50	114	0	3.4	2470	5	6	212
1950-51	4.7	0	0.6	432	5	4	5.0
1951-52	311	0	31.6	22890	12	30	502
1952-53	33	0	4.2	3020	1	9	36
1953-54	328	0	11.6	8430	1	25	655
1954-55	116	0	10.1	7310	11	11	236
1955-56	424	0	7.5	5470	1	26	1050
1956-57	399	0	6.3	4560	1	13	1040
1957-58	521	0	40.7	29500	12	15	1070
1958-59	163	0	5.7	4150	2	16	598
1959-60	15	0	2.4	1750	1	26	17
1960-61	25	0	1.8	1290	11	6	37
1961-62	2060	0	25.8	18640	2	11	3180
1962-63	112	0	3.0	2200	2	10	314
1963-64	38	0	4.8	2800	4	1	69
1964-65	115	0	7.1	5150	4	19	155
1965-66	1700	0	33.9	24500	12	29	5240
1966-67	1330	0	29.2	21230	12	6	1970
1967-68	264	+	11.6	8390	11	21	444
1968-69	1810	+	57.2	41430	1	25	5900
1969-70	175	0	9.5	6850	2	10	287
1970-71	453	0	10.6	7700	11	29	1490
1971-72	382	0	6.0	4320	12	24	801
1972-73	556	0	16.1	11680	2	11	1880
1973-74	70	0	10.4	7540	3	2	87
1974-75	124	0	7.8	5640	3	8	230
1975-76	270	0	7.6	5530	2	8	643
1976-77	74	0	7.3	5296	5	8	181

N.O. = NOT DETERMINED  
E = ESTIMATE  
\* = RECORD INCOMPLETE  
+ = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0.

**STATION NO. F2B-R  
BROWNS CREEK  
at Variel Avenue**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading  
 DRAINAGE AREA - 13.5 square miles  
 LOCATION - 100.0 feet upstream from Variel Avenue,  
 1.0 mile northeast of Chatsworth  
 REGULATION - none  
 CHANNEL - sand and gravel with pipe and wire revetments,  
 temporarily improved section  
 CONTROL - concrete stabilizer  
 LENGTH OF RECORD -  
 at Station F2B-R, December 11, 1928, to August 27, 1932  
 October 2, 1935, to October 31, 1939  
 at Station F2B-R, October 12, 1961, to date



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F2B-R

DAILY DISCHARGE in second-feet of BROWNS CREEK AT VARIEL AVE.

FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	0	0	0	0.8	+	0	+	0	0	+
2	+	0	0	+	0	0.6	+	0	+	+	+	0
3	+	0	0	+	0	0.6	0.1	0	+	0	0	0.1
4	0	0	0	0	+	0.3	0.3	0	0	0	+	+
5	0	0	0	0	0.2	0.3	0.2	0	0	0	+	+
6	+	0	0	0	0.6	0.2	0.2	+	0	+	+	+
7	0	0	0	0	0.8	0.2	0.1	0.1	0	+	+	+
8	0	0	0	0	0.8	0.2	0.3	+	0	0	0	+
9	+	0	0	0	2.3	0.2	0.2	0	+	0	+	0.2
10	0	0	0	0	0.8	0.3	0.1	+	+	0	+	0.8
11	+	0	0	0	0.4	0.3	0.2	+	+	0	+	0.3
12	0	0	+	0	0.3	0.2	0.3	0.1	+	0	+	0
13	0	0	0	0	0.3	0.2	0.3	0.2	0	0	0	0
14	0	0	+	0	0.3	0.2	0.2	+	0	0	0	0
15	0	0	+	0	0.3	0.1	0.2	0	0	0	+	0
16	+	0	+	0	0.2	0.1	0.2	0	+	0	+	0
17	0	0	0	0	0.2	0.1	0.1	+	0	0	+	0
18	0	0	0	0	0.2	0.1	0.1	+	0	0	0	0
19	0	0	0	0	0.2	0.1	0.1	0	0	0	0	0
20	+	+	0	0	0.2	+	0.1	0	0	0	+	0
21	0	+	0	0	0.1	+	0.1	+	0	0	+	0
22	0	0	0	0	0.1	+	0.1	+	+	0	0	+
23	0	0	+	0	0.1	+	0	+	0	0.2	0	+
24	0	0	+	0	0.2	+	+	0	0	+	0	+
25	0	0	0	0	0.2	+	0	0	0	0	0	+
26	0	0	0	0	0.2	+	0	+	0	0	+	+
27	0	0	0	0	0.1	+	0	+	0	+	0	0
28	0	0	0	0	0.1	0	0	+	+	+	0	0
29	0	0	0	0	0.2	0	0	+	+	+	0	+
30	+	0	0	0	0	+	+	0	0	+	0	0
31	0	0	0	0	0	+	0	0	0	+	0	0
MEAN	+	+	+	+	0.3	0.2	0.1	+	+	+	+	+
ACRE- FEET	+	+	+	+	18.6	10.1	6.9	0.8	+	0.4	+	2.8

YEAR OR PERIOD \_\_\_\_\_ MEAN ACRE-FEET \_\_\_\_\_  
 \_\_\_\_\_ 39.6

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F2B-R

DAILY DISCHARGE in second-feet of BROWNS CREEK AT VARIEL AVE.

FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	+	+	0.1	0.1	+	0.1	0	0	0	0	+
2	0	0	0	2.2	+	+	0.1	0	0	0	0	+
3	0	0	0	4.4	+	+	0.1	0	0	0	0	0
4	0	0	0	0.6	+	0.1	+	0	0	0	0	0
5	0	0	0	0.6	+	+	+	0	0	0	0	0
6	0	0	0	1.9	+	0	+	0	0	0	0	0
7	+	0	0	1.6	+	0	+	+	+	0	0	0
8	+	0	0	0.6	+	+	+	1.9	+	0	0	0
9	0	0	+	0.4	+	+	+	1.2	0	0	0	0
10	0	0	+	0.3	+	+	+	0.6	0	0	0	0
11	0	+	+	0.3	+	+	+	0.4	0	0	+	+
12	0	+	0	0.3	+	0	+	0.3	0	0	+	+
13	+	+	+	0.3	+	0	+	0.2	0	0	0	+
14	0	0	+	0.2	+	0	+	0.2	0	0	0	0
15	+	0	+	0.2	+	0	+	0.2	0	0	0	0
16	0	0	+	0.1	+	0.4	+	0.1	0	0	0	0
17	0	+	0.1	+	+	0.3	+	+	0	0	1.0	0
18	+	0	0.1	+	+	0.2	+	+	0	0	0.1	0
19	0	+	0.1	0.1	+	0.1	0	+	0	0	+	0
20	0	+	0.1	0.1	+	0.1	+	+	0	0	+	0
21	0	0.2	+	0.2	+	+	0	+	0	0	+	0
22	+	0.2	+	0.2	+	+	0	0	0	0	0	0
23	+	+	0.2	0.2	0.3	0.1	0	+	+	0	0	0
24	0	+	0.2	0.1	0.3	0.3	0	0.2	+	0	0	0
25	+	+	0.1	0.1	0.2	1.0	0	0.1	0	0	0	0
26	0	0.2	+	0.1	0.1	0.4	0	0.1	0	0	+	0
27	0	0.2	+	0.1	0.1	0.3	0	+	0	0	0	0
28	0	+	0.1	0.1	0.1	0.2	0	0.1	0	0	0	0
29	+	+	0.1	0.1		0.1	0	+	0	0	0	0
30	0	+	0.4	+		0.1	0	+	0	0	0	0
31	0		0.1	+		0.1		+		0	0	

MEAN	+	+	+	0.5	+	0.1	+	0.2	+	0	+	+
MEAS. FEET	+	1.6	3.2	31	2.4	7.5	0.6	11.1	+	0	2.2	+

YEAR OR PERIOD \_\_\_\_\_ MEAN ACRE-FEET \_\_\_\_\_ 0.1 59.6

STATION DATA SUMMARY

STA. NO. F2B-R  
BROWNS CREEK AT VARIEL AVENUE

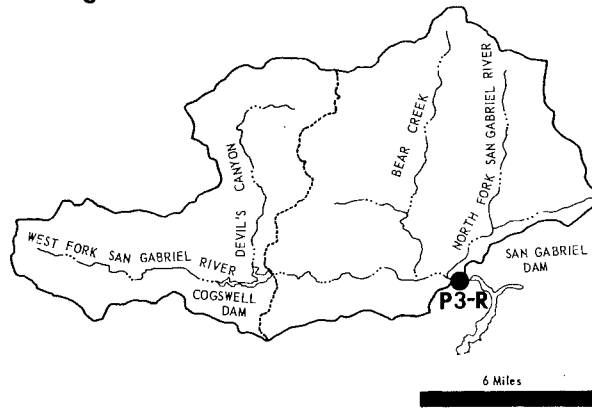
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW		
					MON	DAY	CFS
1961-62B	336	0	2.7	1960	2	11	782
1962-63	6.9	0	+	32	3	16	55
1963-64	1.4	0	+	3.8	1	22	21
1964-65	14	0	0.1	87	4	8	47
1965-66	202	0	2.4	1700	11	17	2020
1966-67	110	0	1.4	980	12	6	379
1967-68	38	0	0.3	211	11	21	67
1968-69	539	0	6.4	4670	2	25	1720
1969-70	53	0	0.5	378	3	1	227
1970-71	370	0	2.5	1820	11	29	4290
1971-72	24	0	0.2	170	12	24	93
1972-73	68	0	1.4	1010	2	11	778
1973-74	NO RECORD						
1974-75	*	0	*	*			*
1975-76	2.3	0	0.1	39.6	9	10	31
1976-77	4.4	0	0.08	60	1	3	36

B = RECORD BEGAN AT B LOCATION 10-12-61.  
+ = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0.  
\* = RECORD INCOMPLETE

**STATION NO. P3-R  
SAN GABRIEL RIVER  
West Fork above Forks**

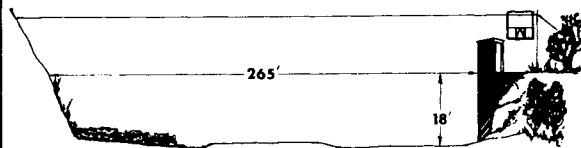


**drainage area**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from cable car  
 DRAINAGE AREA - 102.0 square miles  
 LOCATION - 1.5 miles above confluence with East Fork  
 REGULATION - partially regulated by Cogswell Dam  
 CHANNEL - natural, sand, gravel, and boulders  
 CONTROL - subject to shifts in natural bottom  
 LENGTH OF RECORD -  
 at Station P3-R, December 3, 1930, to July 12, 1938  
 September 27, 1938, to date  
 at Station P3B-R, July 12, 1938, to September 27, 1938  
 REMARKS - for records prior to December 3, 1930, refer to  
 Station P1-R

**cross-section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. P3-R

DAILY DISCHARGE in second-feet of SAN GABRIEL RIVER - WEST FORK FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	33.2	10	10.4	12.5	10.4	99.2	27.6	21	13	9.2	15.6	13.5
2	33.2	10	10.4	12.5	10.9	91	26.7	21	13	9.2	15.6	13.5
3	33.2	9.7	10.4	12	11.4	79.5	26.7	19.7	13	9.2	15.6	15.1
4	33.2	9.7	10.4	12	14	66.8	29.4	19.7	14	9.2	15.1	15.6
5	33.2	9.7	11.2	12	21.7	61.9	26.7	20.4	15.1	9.2	14.6	14.6
6	31.0	9.7	11.2	12.5	63.5	57	25	21	15.1	8.4	13.5	15.1
7	33.2	9.7	10.8	12	75.7	54.1	25	20.4	14	8.1	13.5	15.6
8	33.2	9.7	10.8	11.4	226	51.4	25.9	19	14.6	8.1	13	14.6
9	33.2	9.7	10.4	10.9	506	48.7	25.9	18.3	14.6	8.4	13	15.1
10	33.2	10	10.4	10.9	223	47.5	25	17.6	15.1	8.8	13.5	56.6
11	30	10	10.4	10.4	95.7	44.7	25.9	17	14.6	8.8	13	27.9
12	34.6	10	11.2	10.4	70.1	43.3	27.6	16.3	14	8.8	13	51.4
13	34.6	9.7	11.6	10	58.7	42	36.5	15.6	13	9.6	13	34.4
14	33.2	9.4	11.2	9.6	55.4	39.8	29.4	15.6	12.5	9.6	13.5	20.5
15	31.0	9.4	10.8	9.6	51.4	37.6	29.4	15.6	12	9.6	14.6	30.2
16	31.8	9.1	10.8	9.2	46	36.5	28.5	14.6	12	9.6	15.1	46
17	30.4	9.1	10.8	9.2	43.3	36.5	26.7	14.6	12	9.2	15.1	44.7
18	29	9.7	10.8	8.8	43.3	36.5	26.7	14	11.4	8.8	15.1	44.7
19	29	9.7	10.8	8.8	43.3	36.5	25.9	14	10.9	8.4	15.1	43.3
20	29	9.7	10.8	8.8	40.9	35.5	25.9	14.6	10.9	8.1	15.6	42
21	29	9.7	11.2	8.8	38.7	33.3	25	14.6	10.4	7.7	15.1	42
22	23.4	9.7	11.2	3.4	36.5	33.3	25.9	15.1	10.4	9.2	15.1	42
23	11.2	9.7	11.6	3.4	35.5	32.2	25.9	14.6	9.6	15.6	14.6	40.9
24	10.4	9.1	11.6	8.8	34.4	32.2	25	15.1	9.6	15.1	14.6	42
25	10.4	9.1	11.6	8.8	33.3	32.2	23.3	15.1	9.6	15.1	14.6	42
26	10	9.7	11.2	8.4	32.2	31.1	23.3	15.1	9.6	15.1	14.6	40.9
27	9.7	10.4	11.2	8.4	32.2	30.2	24.1	14	9.2	15.1	14.6	39.8
28	10	11.6	11.2	3.4	31.1	30.2	24.1	14.6	9.2	15.1	14	39.8
29	10	11.2	10.8	8.8	31.1	30.2	23.3	15.1	9.2	15.1	13.5	39.8
30	10	10.8	11.2	9.6		29.4	21.7	14.6	8.8	15.6	13	39.8
31	10		12	10		30.2		13.5		15.6	13	

MEAN	25.6	9.8	11	10	69.7	44.5	26.3	16.5	12	10.7	14.3	40.1
MEAN FEET	1.586	584	675	615	4.010	2.740	1.560	1.010	715	660	878	2.320

YEAR OR PERIOD MEAN ACRE-FEET 24.2  
17.420

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. P3-R

DAILY DISCHARGE in second-feet of SAN GABRIEL RIVER - WEST FORK FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	39.8	9.6	9.2	12	19.7	15.5	17.6	A 11.4	26.7	13	8.8	21.7
2	40.9	9.6	9.6	13.4	19.7	15.6	17	A 11	25.9	13.5	10.9	21
3	40.9	9.6	9.6	116	19.7	15.1	15.6	A 10.7	25	14	23.3	20.4
4	39.8	9.6	9.6	26.7	19	14.6	15.6	A 11	24.1	14	21	20.4
5	40.9	9.6	9.6	28.4	19	14	15.1	A 11.2	24.1	13.5	22.4	19
6	39.8	10	9.2	65.2	18.3	13.5	14.6	11.4	23.3	13	22.4	19
7	38.7	10	9.2	138	17	13.5	A 14.8	11.4	22.4	12.5	20.4	19
8	38.7	10	9.2	60.3	17	13	A 15	161	22.4	12	19.7	19
9	37.6	10.4	9.2	39.8	17	12.5	A 15.2	217	23.3	12	19.7	19
10	36.5	10.9	9.6	33.3	17	12	A 15.4	116	22.4	11.4	20.4	18.3
11	36.5	11.4	9.2	29.4	16.3	12	A 15.6	75.6	21	12.5	19.7	19
12	35.5	18.3	9.2	27.6	16.3	12	A 15.8	63.5	20.4	12	19.7	19
13	35.5	13.5	9.2	26.7	15.1	12	A 15.6	52.7	20.4	11.4	19.7	19
14	34.4	12	9.2	25.9	15.1	12	A 15.4	48.7	19.7	10.9	19.7	19
15	34.4	10.9	9.6	25	15.1	12	A 15.1	47.4	19.7	10	19.7	19.7
16	34.4	10.4	10	23.3	15.1	18.3	A 14.9	48.7	19	10	21	20.4
17	33.3	10.4	9.6	22.4	15.1	18.3	A 14.7	43.3	18.3	10	35.5	20.4
18	34.4	10	9.6	22.4	15.1	15.6	A 14.4	42	18.3	10	32.2	20.4
19	33.3	10	9.2	25	14.6	15.1	A 14.1	43.3	18.3	10	25.9	19.7
20	33.3	10.4	9.2	25	14.6	15.1	A 13.9	42	17.6	10.4	22.4	19.7
21	33.3	10.4	9.2	28.5	14.6	14.6	A 13.7	44.7	17	10.4	21	19
22	37.6	9.6	9.2	25.9	15.1	14	A 13.6	44.7	16.3	10	19.7	19
23	36.5	9.6	9.2	24.1	15.6	14	A 13.4	44.7	16.3	9.6	20.4	19
24	34.4	9.2	9.6	24.1	16.3	15.1	A 13.3	46	15.6	9.6	21	18.3
25	33.3	8.8	9.6	22.4	16.3	28.5	A 13.1	42	15.6	9.2	21	18.3
26	26.7	9.6	9.2	21.7	15.6	22.4	A 13	39.8	14.6	8.8	22.4	17.6
27	10.9	10	9.2	21.7	15.6	20.4	A 12.8	37.6	14	8.8	22.4	18.3
28	9.6	10.4	9.2	21	15.6	21	A 12.4	35.5	14	8.4	22.4	18.3
29	10	10	9.2	21	15.6	19	A 12.1	34.4	13.5	8.1	21.7	18.3
30	10	9.6	15.6	20.4	15.6	19	A 11.8	31.1	13.5	8.4	21.7	18.3
31	10	10	13.5	19.7	15.6	18.3		28.5	13.5	8.4	21.7	18.3

MIN	32	10.5	9.7	33.4	16.4	15.7	14.5	48.7	19.4	10.8	21.3	19.2
ACRE- FEET	1,270	622	596	2,060	913	968	862	2,930	1,160	666	1,310	1,150

YEAR OR PERIOD MEAN ACRE-FEET 21 15,270

STATION DATA SUMMARY

STA. NO. P3-R  
SAN GABRIEL RIVER - WEST FORK ABOVE FORKS

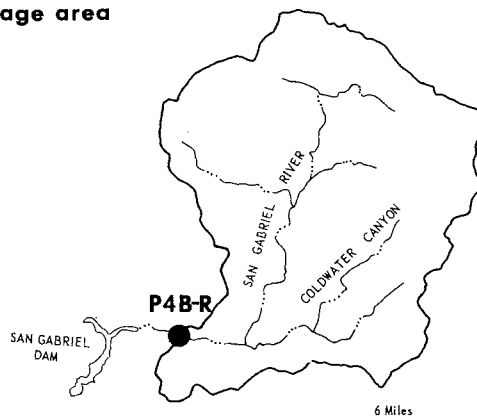
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW CFS			SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW CFS		
					MON	DAY	CFS						MON	DAY	CFS
1927-28	704	1.6	17.9	15180	2	4	1620	1964-65	228	1.7	21.1	15270	4	9	534
1928-29	422	0	20.7	14960	4	4	775	1965-66	4000	2.7	160	115600	12	29	13000
1929-30	225	1.9	25.5	18470	3	15	301	1966-67	2320	7.0	143	103600	12	6	4700
1930-31	676	1.2	20.2	14630	4	26	1530	1967-68	559	12	47.5	34460	11	19	1400
1931-32	598	1.4	76.3	55360	2	9	3790	1968-69	4370	11	363	262900	2	25	26000
1932-33	1360	2.5	33.1	23990	1	19	3460	1969-70	788	12	49.7	35840	2	29	2370
1933-34	3340	1.5	34.5	24990	1	1	5320	1970-71	1590	12	46.7	33810	11	29	6230
1934-35	1180	1.9	77.5	56110	4	8	1840	1971-72	453	5.5	20.3	14740	12	24	791
1935-36	312	2.5	31.8	23070	2	12	752	1972-73	3760	5.1	76.2	55190	2	11	15200
1936-37	1640	2.7	133	96590	2	14	2000	1973-74	679	13.2	50.4	36500	1	7	1880
1937-38	*	13	237	171900E	3	2	34000E	1974-75	175	11	30.7	22230	3	6	523
1938-39	1140	7.5	46.5	33660	9	25	2530	1975-76	506	7.1	24.2	17420	2	9	757
1939-40	369	6.5	38.2	27720	1	3	1220	1976-77	217	8.1	21.1	15270	5	8	465
1940-41	2870E	7.0	237	171400	2	20	3000E								
1941-42	183	6.5	32.9	23810	12	29	288								
1942-43	11300E	6.5	211	153000	1	23	20000E								
1943-44	4000	19	144	104500	2	22	5760								
1944-45	719	14	51.5	37260	11	11	3950								
1945-46	1830	8.0	65.3	47330	3	30	2620								
1946-47	2270	7.6	83.0	60120	12	26	4150								
1947-48	135	3.0	17.1	12450	4	29	329								
1948-49	55	2.3	14.5	10510	1	20	78								
1949-50	122	2.2	15.6	11260	12	18	280								
1950-51	21	0.7	4.8	3460	4	29	28								
1951-52	2690	1.1	115	83590	1	16	7520								
1952-53	380	2.0	32.1	23210	12	1	475								
1953-54	514	2.2	32.0	23190	1	25	953								
1954-55	83	3.8	17.8	12850	4	30	165								
1955-56	504	2.8	17.0	12350	1	26	1230								
1956-57	597	3.5	18.5	13350	1	13	1670								
1957-58	1780	5.4	145	104700	4	3	3570								
1958-59	664	6.5	29.2	21150	1	6	2380								
1959-60	48	2.7	11.5	9350	1	10	128								
1960-61	79	1.2	7.1	5160	11	5	447								
1961-62	3800	1.5	83.9	60730	2	11	7830								
1962-63	276	2.5	18.9	13720	2	9	2010								
1963-64	195	1.9	13.7	9970	6	24	414								

E \* ESTIMATE  
\* RECORD INCOMPLETE

**STATION NO. P4B-R  
SAN GABRIEL RIVER  
East Fork above Forks**

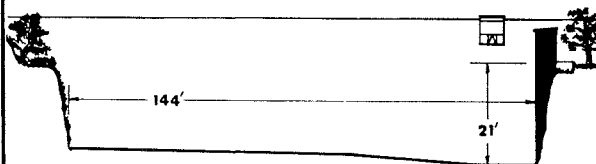


**drainage area**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from cable car  
 DRAINAGE AREA - 88.2 square miles  
 LOCATION - 2.5 miles above the West Fork, 12.0 miles north of Azusa  
 REGULATION - none  
 CHANNEL - sand, gravels, and boulders, natural section  
 CONTROL - concrete, stabilizer with a 20-foot-wide low flow notch (constructed in November 1947)  
 LENGTH OF RECORD -  
 at Station P4-R, November 30, 1932, to December 10, 1938  
 at Station P4B-R, December 10, 1938, to date  
 REMARKS - the control height was increased 2.0 feet in September, 1955.

**cross-section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. P4B-R

DAILY DISCHARGE in second-feet of SAN GABRIEL RIVER - EAST FORK FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	10.6	10.3	14.8	12.8	A 11.2	88.2	53.5	50.6	28.8	1.9	12.4	9.0
2	10.3	10.6	13.6	13.6	A 11.2	128	53.5	51.6	28.1	1.9	12	9.0
3	9.3	11.6	13.6	13.2	A 11.2	91.2	53.5	51.6	28.1	18.6	11.6	9.6
4	9.3	12.8	13.6	13.2	A 12.8	96	55.4	51.6	27.5	17.6	11.6	9.6
5	9.0	12.4	13.6	12.8	A 14.4	88.5	52.5	52.5	27.5	17.1	11.6	8.7
6	9.3	11.2	13.6	12.4	A 28.6	70.1	51.6	51.6	26.8	17.6	11.6	10
7	9.3	10.6	13.6	12.4	37.6	69	48.7	50.6	26.2	17.1	12	11.2
8	9.6	10.6	14	12.4	159	69	47.8	48.7	26.2	16.6	12	11.6
9	9.6	10.6	14	12.4	311	69	47	47.8	26.2	16.6	12	12.8
10	10	10.3	14.4	12.8	131	69	45.2	47	26.2	16.6	12.4	239
11	10.3	10	14.8	12.8	92.2	67.9	44.3	45.2	26.8	15.7	11.6	389
12	9.3	9.6	17.1	12.8	98.6	65.8	43.5	44.3	26.2	16.2	11.2	92
13	9.6	9.6	16.6	12.8	97.3	64.7	47.8	43.5	26.8	17.1	11.6	52.5
14	10	9.6	15.7	13.2	94.8	64.7	43.5	42.6	26.8	15.7	12	46.1
15	10.3	9.6	16.2	12.8	94.8	62.6	45.2	40.9	24.4	15.2	12.4	42.6
16	10.9	10.6	16.2	12.4	66.9	62.6	44.3	38.4	24.4	15.2	12.4	37.6
17	11.2	10.9	15.2	12.4	56.4	61.5	42.6	36.8	23.3	15.2	12.4	34.5
18	12	11.6	14.4	11.6	50.6	62.6	42.6	35.3	22.7	14.4	12	32.9
19	11.2	12	14.4	10.6	48.7	61.5	42.6	34.5	22.2	14	12	33.7
20	12	12	14.8	10.3	47	60.4	43.5	34.5	19.5	14	11.6	30.8
21	11.2	12	15.2	10	43.5	59.4	44.3	34.5	20.5	13.6	11.2	31.4
22	12.4	11.6	14.4	10.3	40.9	59.4	47	35.3	20.5	14	10.6	30.1
23	12.4	11.2	14.8	10.3	40.9	60.4	48.7	34.5	20.5	14.4	10.3	28.8
24	12	11.6	14	A 10.9	40	60.4	43.7	33.7	20.5	14	10	28.1
25	11.6	12.4	13.2	A 10.9	38.4	60.4	50.6	33.7	20	14.4	9.6	28.8
26	11.6	13.6	12.8	A 10.6	36.8	59.4	50.6	32.9	20	14.8	9.6	28.8
27	11.2	15.2	12	A 10.9	37.6	59.4	50.6	32.1	19.5	14.4	9.6	28.1
28	10.9	16.2	11.6	A 10.9	37.6	57.3	50.6	32.1	19.5	14.8	9.6	26.8
29	10.3	14.8	12	A 10.9	39.2	56.4	50.6	32.1	18.6	14.4	10	24.9
30	10.3	14.8	12.8	A 11.2		54.5	50.6	30.8	18.1	14	8.7	25.5
31	10.6		12.8	A 11.2		53.5		29.5		12.8	8.7	

MEAN	10.6	11.7	14.2	11.9	63.1	68.1	48.1	40.7	23.7	15.6	11.2	46.8	
ACRE- FEET	650	694	872	729	3,630	4,190	2,860	2,500	1,410	960	687	2,780	
YEAR OR PERIOD												MEAN ACRE-FEET	30.5 21,960



LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. P4B-R

DAILY DISCHARGE in second-feet of SAN GABRIEL RIVER - EAST FORK FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	25.5	15.7	18.6	15.2	29.5	24.4	26.8	24.4	70.1	30.1	18.6	16.6
2	24.9	15.7	18.6	18.7	28.8	24.4	26.2	23.8	65.8	31.4	18.6	16.6
3	23.8	15.2	18.1	101	28.1	23.8	25.5	22.7	62.6	32.1	17.6	16.2
4	22.2	15.2	17.1	27.5	28.1	23.3	24.9	23.8	60.4	32.1	17.6	14
5	21.6	15.7	16.6	29.8	27.5	22.7	25.5	24.9	59.4	30.1	17.1	13.2
6	20.5	15.2	16.6	69.1	27.5	21.1	26.2	24.4	58.3	27.5	17.6	14.4
7	20.5	14.8	16.2	98.9	27.5	20.5	26.8	24.4	58.3	27.5	19.5	14.4
8	20	15.2	16.2	62.6	26.8	20	28.1	95.1	57.3	27.5	18.6	14.4
9	19.5	15.2	15.7	50.6	27.5	20	28.8	130	57.3	27.5	18.1	14.8
10	19	15.2	15.2	37.6	26.8	19	28.8	91.8	54.5	27.5	17.6	15.2
11	20	16.2	15.2	35.3	26.2	19	28.1	75.8	52.5	24.9	17.1	15.2
12	19.5	38.6	14.8	31.4	26.2	19	27.5	61.5	49.7	24.4	16.2	15.2
13	19.5	19	14.4	31.4	26.8	A	19	26.8	55.4	48.7	23.8	17.1
14	19	B	17.1	14.8	33.7	A	19.5	27.5	62.6	46.1	23.3	16.6
15	18.1	B	17.6	14.8	35.3	A	19.5	27.5	64.7	43.5	23.3	15.7
16	17.6	B	17.6	14.8	36	A	27.3	27.5	62.6	41.7	23.3	17.1
17	17.1	17.1	15.2	39.2	25.5	24.4	27.5	62.6	40.9	23.3	45.3	15.2
18	16.6	16.6	14.8	40	25.5	23.3	27.5	66.9	41.7	23.8	35.3	14.8
19	16.2	16.6	14.8	32.1	24.9	22.7	27.5	70.1	41.7	23.3	26.2	14.4
20	16.2	16.2	14.8	32.9	23.8	21.6	26.8	71.3	40.9	22.7	21.6	14.8
21	19.8	15.7	14.8	34.5	23.8	20.5	26.2	86.2	39.2	22.7	19.5	14.4
22	32.2	15.2	14.4	30.8	23.8	20.5	25.5	104	37.6	21.6	19.5	14
23	36.8	15.7	14	31.4	26.2	20.5	25.5	106	36	20.5	19.5	14
24	32.9	16.6	14	32.1	27.5	22.2	25.5	97.3	35.3	19.5	19	13.6
25	27.5	17.1	13.6	30.8	26.2	36	25.5	85.1	34.5	19	18.1	13.6
26	23.3	17.6	13.2	32.1	25.5	30.8	25.5	79.2	33.7	19	17.6	13.6
27	20	18.1	13.2	33.7	24.9	28.1	25.5	76.9	33.7	19	18.1	13.6
28	18.6	19	12.8	32.9	24.4	28.8	24.9	79.2	32.1	18.1	17.6	13.6
29	19	19.5	13.2	31.4		28.8	24.4	78	30.8	18.6	16.6	14
30	19	19	17.8	30.8		28.1	24.9	75.8	29.5	18.6	16.6	14
31	18.6		16.2	31.4		27.5		73.5		18.1	16.6	

MEAN	21.4	17.3	15.3	39	26.3	23.4	26.5	67.1	46.5	24	19.6	14.6
ACRE- FEET	1,320	1,030	941	2,400	1,460	1,440	1,580	4,130	2,760	1,480	1,210	870

YEAR  
OR  
PERIOD      MEAN      28.4  
ACRE-FEET      20,620

STATION DATA SUMMARY

STA. NO. P4B-R  
SAN GABRIEL RIVER - EAST FORK ABOVE FORKS

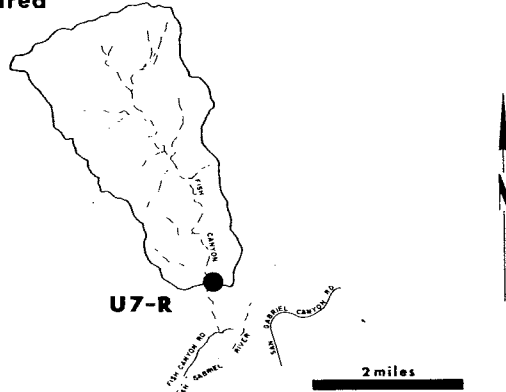
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW		
					MON	DAY	CFS
1932-33	*	*	*	18990*	1	19	835
1933-34	6210	4.5	47.3	34320	1	1	8500
1934-35	638	4.5	85.4	61840	4	8	1080
1935-36	428	8.0	40.7	29590	2	11	1290
1936-37	1440	9.0	148	107400	2	14	2180
1937-38	10000E	20	208	150800	3	2	46000E
1938-39	303	14	43.6	31590	12	18	716
1939-40	430	14	42	30500	1	8	1360
1940-41	1110	12	183	132400	2	20	1870
1941-42	130	12	34.9	25230	8	10	349
1942-43	5800E	11	160	116100	1	23	25000
1943-44	1290	21	113	81900	2	22	2410
1944-45	693	20	72.9	52750	11	11	2810
1945-46	1520	19	71.8	52090	12	21	2760
1946-47	1160	13	66.6	48300	12	26	1900
1947-48	133	6.9	21.3	15490	4	29	210
1948-49	64	6.3	20.3	14700	4	24	70
1949-50	168	5.4	21.5	15540	2	6	248
1950-51	22	1.7	8.5	6140	4	28	39
1951-52	833	2.4	109	79300	1	16	1110
1952-53	61	5.2	20.2	14640	12	2	116
1953-54	660	5.2	51.6	37320	1	25	1690
1954-55	105	12	36.0	26090	11	11	203
1955-56	476	11	30.6	22210	1	26	1020
1956-57	479	8.0	32.6	23630	1	13	1060
1957-58	1530	13	156	112700	4	3	2720
1958-59	345	8.0	29.5	21360	2	16	947
1959-60	62	4.4	15.9	11400	4	28	94
1960-61	57	1.7	9.7	7060	11	12	112
1961-62	1760	2.3	72.7	52610	2	11	3600
1962-63	186	4.7	17.5	12680	2	9	607
1963-64	102	5.0	19.7	14290	1	22	202
1964-65	184	5.4	29.2	21170	4	9	274
1965-66	2530	8.4	131	94660	12	29	9760
1966-67	3190	14	153	110900	12	6	6200
1967-68	239	14	44.8	31090	11	19	693
1968-69	8070	13	290	209900	1	25	21900
1969-70	346	13	38.0	27560	3	1	590
1970-71	474	9.9	31.5	22740	11	29	1490
1971-72	380	8.0	24.3	17650	12	24	759
1972-73	1830	8.2	78.9	57090	2	11	3790
1973-74	224	10.4	43.3	31350	1	7	416
1974-75	119	8.4	24.7	17890	3	6	269
1975-76	389	8.7	30.5	21960	9	10	5120
1976-77	130	13.2	28.5	20620	1	3	507

E = ESTIMATE  
\* = RECORD INCOMPLETE

**STATION NO. U 7 - R  
FISH CREEK  
above Mouth of Canyon**

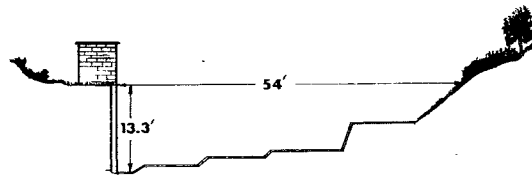


**drainage area**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading  
 DRAINAGE AREA - 6.36 square miles  
 LOCATION - 0.8 miles upstream of mouth of canyon  
 and 3.0 miles northeast of Duarte  
 REGULATION - none  
 CHANNEL - natural, rock and gravel  
 CONTROL - concrete control  
 LENGTH OF RECORD - July to September 1916  
 July 1917 to date  
 REMARKS - operated and maintained by USGS until  
 October 1, 1971; records for 1969-70 and 1970-71  
 seasons were furnished by USGS

**cross-section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. U7-R

DAILY DISCHARGE in second-feet of FISH CREEK ABOVE MOUTH OF CANYON

FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.5	0.7	0.9	1.0	1.2	37.4	1.2	0.8	0.4	0.1	0.2	0.1
2	0.4	0.7	0.8	1.0	1.4	18.9	1.2	1.1	0.4	0.1	0.2	0.1
3	0.4	0.7	0.8	1.0	1.4	22.4	1.3	1.3	0.4	0.1	0.2	0.1
4	0.3	0.7	0.8	1.0	6.5	11.8	1.8	1.3	0.5	0.1	0.2	0.1
5	0.3	0.7	0.9	1.0	15.1	7.8	1.4	1.5	0.5	0.1	0.2	0.1
6	0.3	0.7	0.9	1.1	16.5	5.4	1.3	1.6	0.4	0.1	0.2	0.1
7	0.5	0.8	0.7	1.0	8.7	4.4	1.3	1.7	0.3	0.1	0.2	0.1
8	0.5	0.8	0.7	0.9	14	4.0	1.3	1.4	0.3	0.1	0.2	0.1
9	0.5	0.9	0.8	0.8	41.2	3.4	1.3	1.3	0.4	0.1	0.2	0.1
10	0.5	0.9	0.8	0.9	15.9	3.0	1.2	1.0	0.5	0.1	0.2	6.1
11	1.0	0.9	0.9	0.9	4.8	2.8	1.1	0.9	0.4	0.2	0.2	18
12	0.7	0.8	1.3	0.9	2.0	2.5	1.2	0.8	0.5	0.2	0.1	2.0
13	0.6	0.7	1.1	0.9	1.7	2.1	2.2	0.6	0.7	0.2	0.1	1.6
14	0.6	0.7	1.0	0.9	1.6	2.0	1.4	0.5	0.9	0.2	0.1	1.1
15	0.5	0.7	0.9	0.9	1.4	1.8	1.7	0.5	0.5	0.2	0.1	1.2
16	0.4	0.7	0.9	0.9	1.4	1.7	1.5	0.5	0.4	0.4	0.2	1.0
17	0.4	0.9	0.9	0.9	1.5	1.6	1.3	0.5	0.4	0.4	0.2	0.9
18	0.5	0.9	0.9	0.9	1.6	1.6	1.3	0.5	0.5	0.4	0.2	0.8
19	0.6	0.9	0.9	0.8	1.6	1.6	1.4	0.4	0.4	0.3	0.2	0.8
20	0.6	0.8	0.8	0.8	1.7	1.6	1.3	0.4	0.3	0.3	0.2	0.7
21	0.7	0.9	0.8	0.8	1.6	1.5	1.3	0.5	0.2	0.2	0.2	0.7
22	0.7	0.8	0.8	0.9	1.5	1.4	1.3	0.5	0.2	0.3	0.2	0.7
23	0.6	0.8	0.9	0.9	1.5	1.3	1.2	0.4	0.2	0.3	0.2	0.6
24	0.6	0.7	0.9	1.0	1.5	1.4	0.9	0.4	0.1	0.2	0.2	0.6
25	0.6	0.7	0.9	1.1	1.6	1.5	0.8	0.5	0.1	0.2	0.2	0.7
26	0.6	0.7	0.9	1.0	1.6	1.3	0.7	0.5	0.1	0.2	0.2	0.6
27	0.6	1.1	0.8	1.0	1.6	1.3	0.7	0.3	0.1	0.2	0.2	0.6
28	0.7	1.3	0.9	0.9	1.6	1.3	0.8	0.5	0.1	0.2	0.2	0.6
29	0.6	1.3	1.0	1.1	1.6	1.3	0.8	0.6	0.1	0.2	0.2	0.6
30	0.7	1.3	1.0	1.2		1.2	0.7	0.6	0.1	0.2	0.2	0.5
31	0.9		1.0	1.2		1.2		0.5		0.2	0.1	
MEAN	0.6	0.8	0.9	1.0	5.3	4.9	1.2	0.8	0.3	0.2	0.2	1.4
ACRE- FEET	34.5	50	54.7	58.7	308	302	73.2	47.4	20.6	12.3	11.3	81.2

YEAR OR PERIOD \_\_\_\_\_ MEAN \_\_\_\_\_ 1.5  
 ACRE-FEET \_\_\_\_\_ 1,050

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. U7-R

DAILY DISCHARGE in second-feet of FISH CREEK ABOVE MOUTH OF CANYON FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER				
1			0.5	1.0	0.9	A	0.8	A	0.9	A	0.6	A	0.2	0	0.2	
2	0.5	0.5	0.5	1.2	0.8	A	0.8	A	0.9	A	0.6	A	0.2	0	0.2	
3	0.6	0.4	0.4	20.6	0.7	A	0.7	A	0.9	A	0.6	A	0.2	0	0.2	
4	0.6	0.4	0.4	1.3	0.7	A	0.7	A	0.9	A	0.6	A	0.2	0	0.2	
5	0.5	0.4	0.5	3.6	0.6	A	0.7	A	0.9	A	0.6	A	0.2	0	0.2	
6	0.5	0.4	0.5	10.2	0.6	A	0.7	A	0.8	A	0.6	A	0.2	0	0.1	
7	0.5	0.5	0.5	13.8	0.7	A	0.7	A	0.8	A	0.6	A	0.2	0	0.1	
8	0.5	0.5	0.4	5.8	0.6	A	0.6	A	0.8	A	30	A	0.2	0	0.1	
9	0.5	0.5	0.4	1.9	0.6	A	0.6	A	0.8	A	45	A	0.2	0	0.1	
10	0.4	0.5	0.4	1.3	0.6	A	0.6	A	0.8	A	15	A	0.2	0	0.1	
11	0.5	0.5	0.4	1.1	0.6	A	0.6	A	0.8	A	8.0	A	0.1	0	0.1	
12	0.5	1.7	0.4	1.3	0.6	A	0.6	A	0.7	A	4.0	A	0.1	0	0.1	
13	0.5	0.9	0.4	1.3	0.5	A	0.5	A	0.7	A	2.8	A	0.1	0	0.1	
14	0.6	0.6	0.4	1.3	0.5	A	0.5	A	0.7	A	2.2	A	0.1	0	0.1	
15	0.7	0.5	0.4	1.2	0.5	A	0.5	A	0.7	A	1.8	A	0.1	0	0.1	
16	0.6	0.5	0.4	1.1	0.5	A	1.0	A	0.7	A	1.6	A	0.5	A	0.1	
17	0.5	0.6	0.4	1.1	0.5	A	3.0	A	0.7	A	1.6	A	0.5	A	0.1	
18	0.5	0.6	0.4	1.0	0.5	A	1.0	A	0.7	A	1.5	A	0.5	A	0.1	
19	0.6	0.6	0.4	1.0	0.5	A	0.8	A	0.7	A	1.4	A	0.5	A	0.1	
20	0.5	0.6	0.4	1.0	A	0.5	A	0.6	A	0.7	A	1.4	A	0.5	A	0.1
21	0.5	0.6	0.4	1.2	A	0.5	A	0.5	A	0.7	A	1.3	A	0.4	A	0.1
22	7.4	0.5	0.4	1.1	A	0.5	A	0.5	A	0.7	A	1.2	A	0.4	A	0.1
23	1.5	0.5	0.4	0.9	A	0.5	A	0.5	A	0.7	A	1.8	A	0.4	A	0.1
24	0.9	0.5	0.5	0.8	A	1.0	A	1.0	A	0.7	A	1.5	A	0.4	A	0.1
25	0.6	0.5	0.4	0.8	A	1.0	A	1.0	A	0.7	A	1.4	A	0.4	A	0.1
26	0.5	0.5	0.4	0.8	A	0.9	A	5.0	A	0.7	A	1.3	A	0.3	A	0.1
27	0.5	0.5	0.4	0.8	A	0.9	A	3.0	A	0.6	A	1.2	A	0.3	A	0.1
28	0.5	0.5	0.4	0.8	A	0.8	A	1.0	A	0.6	A	1.1	A	0.3	A	0.1
29	0.5	0.5	0.4	0.8			A	1.0	A	0.6	A	1.1	A	0.3	A	0.1
30	0.5	0.5	1.5	0.9			A	1.0	A	0.6	A	1.0	A	0.3	A	0.1
31	0.5		1.2	0.8			A	1.0	A		A	1.0	A	0	A	0.1

MEAN	0.8	0.5	0.5	2.6	0.6	1.3	0.7	4.3	0.6	0.1	0.2	0.2
ACRE- FEET	48.8	33.1	29.5	162	35.9	80.3	44	267	33.9	6.7	9.5	9.1

YEAR OR PERIOD \_\_\_\_\_ MEAN ACRE-FEET \_\_\_\_\_ 1.0  
760

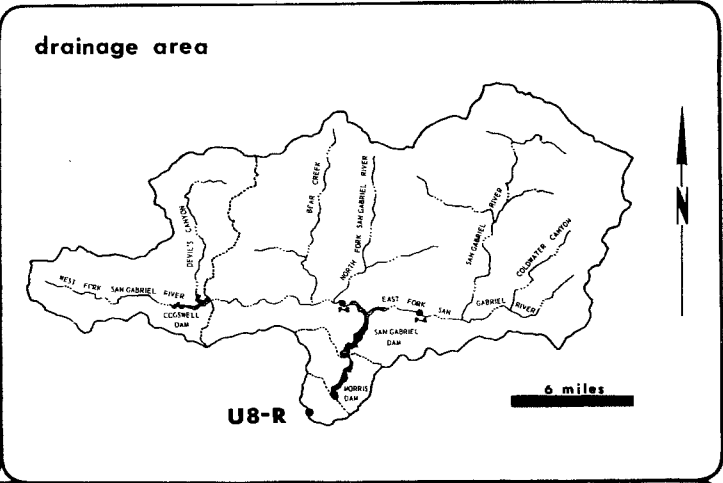
STATION DATA SUMMARY

STA. NO. U7-R  
FISH CREEK ABOVE MOUTH OF CANYON

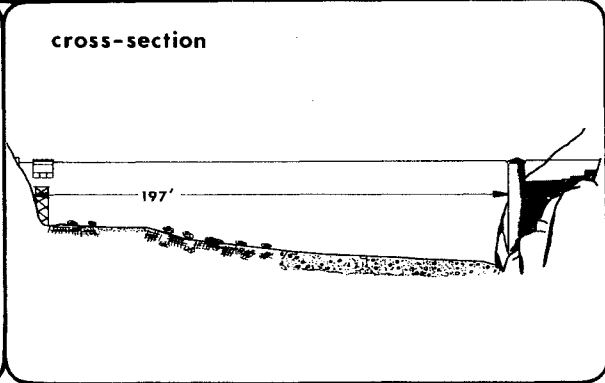
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK MON	FLOW DAY	CFS	SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK MON	FLOW DAY	CFS
1917-18	193	0.1	4.1	2960	3	10	330	1968-69	5540	0.7	55.2	39980	1	25	13000
1918-19	10	0	0.9	648	2	11	21	1969-70	99	0.9	4.2	3010	2	28	898
1919-20	83	+	3.0	2160	3	2	255	1970-71	93	0.6	3.3	2400	11	29	259
1920-21	120	0	2.3	1670	3	13	286	1971-72	23	0.1	1.0	742	12	24	62
1921-22	290	0.1	12.4	8980	2	9	505	1972-73	480	0.2	7.4	5390	2	11	1600
1922-23	64	0.1	2.1	1510	12	12	186	1973-74	234	0.4	4.4	3210	1	7	376
1923-24	14	0	0.5	344	3	26	58	1974-75	30	0.2	2.5	909	12	4	56
1924-25	132	0	1.7	1230	4	4	N.D.	1975-76	41	0.1	1.5	1050	3	1	143
1925-26	410	0.1	7.2	5170	4	7	N.D.	1976-77	45	0	1.0	760	-	-	N.D.
1926-27	482	0.4	7.0	5070	2	16	945								
1927-28	30	N.D.	1.2	860	2	4	97								
1928-29	41	0	1.4	1040	3	10	71								
1929-30	42	0	1.5	1070	1	15	72								
1930-31	26	N.D.	1.2	888	4	26	70								
1931-32	213	N.D.	4.9	3560	12	28	415								
1932-33	167	N.D.	1.8	1340	1	19	299								
1933-34	360	N.D.	3.4	2440	1	1	640								
1934-35	150	N.D.	4.2	3080	4	8	420								
1935-36	80	0.3	4.5	3280	2	2	676								
1936-37	142	0.4	9.3	6770	12	30	252								
1937-38	752	1.0	13.2	9520	3	2	2100								
1938-39	90	0.2	2.4	1750	12	19	172								
1939-40	43	0.1	2.2	1570	1	8	225								
1940-41	255	0.1	12.9	9340	3	4	443								
1941-42	23	0.1	1.4	1030	12	10	44								
1942-43	874	0.1	14.8	10720	1	23	2100								
1943-44	325	0.5	5.8	4200	2	22	680								
1944-45	106	0.2	3.6	2580	11	11	400								
1945-46	156	0.1	3.2	2310	12	23	540								
1946-47	140	0.1	4.0	2910	12	26	400								
1947-48	8.8	N.D.	0.7	536	4	28	28								
1948-49	18	N.D.	0.8	610	1	20	35								
1949-50	37	0	1.2	888	12	18	157								
1950-51	5.6	0	0.3	237	4	28	16								
1951-52	348	0	8.3	6060	1	16	1360								
1952-53	18	0	1.1	813	12	1	252								
1953-54	110	0	2.1	1510	1	25	376								
1954-55	15	0	0.8	567	1	18	39								
1955-56	155	0	1.5	1100	1	26	544								
1956-57	33	0	0.9	674	1	13	108								
1957-58	212	0	7.8	5680	4	3	608								
1958-59	200	0.1	2.2	1590	12	6	2000E								
1959-60	16	0	1.1	794	4	27	84								
1960-61	23	0	0.6	443	11	12	230								
1961-62	472	0	6.2	4480	2	11	770								
1962-63	71	0	1.3	922	2	9	346								
1963-64	48	0	0.9	673	1	21	178								
1964-65	48	0	1.3	930	4	9	163								
1965-66	523	0	8.6	6200	12	29	1670								
1966-67	688	0.6	13.5	9740	12	6	2250								
1967-68	32	0.4	2.3	1640	11	19	282								

N.D. = NOT DETERMINED  
E = ESTIMATE

**STATION NO. U 8-R  
SAN GABRIEL RIVER  
below Morris Dam**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from cable car  
 DRAINAGE AREA - 212.4 square miles  
 LOCATION - 1.1 miles downstream of Morris Dam, 2.7 miles northeast of Azusa  
 REGULATION - all flows regulated by Cogswell, San Gabriel, and Morris Dams  
 CHANNEL - gravel and boulders, natural section  
 CONTROL - concrete control  
 LENGTH OF RECORD - May 1894 to date  
 REMARKS - flows up to 90 cfs are at times diverted past the station through the Azusa Conduit; flows at station may include imported water from the MWD outlet below Morris Dam



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. U8-R

DAILY DISCHARGE in second-feet of SAN GABRIEL RIVER BELOW MORRIS DAM FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	90.8	0	0	0	0	0	27	0	0	0
2	0	0	92.1	0	0	0	0	0	84.3	0	0	0
3	0	0	92.1	0	0	0	0	0	92.1	0	0	0
4	0	0	121	0	0	76	0	0	56.4	0	0	0
5	0	0	146	0	0	154	0	0	0	0	0	0
6	0	0	146	0	0	154	0	0	0	0	0	0
7	0	0	148	0	0	154	0	0	0	0	0	0
8	0	0	148	0	0	154	0	0	46.6	0	0	0
9	0	0	150	0	0	154	0	0	83	0	0	0
10	0	0	148	0	0	165	0	0	31.6	0	0	0
11	0	0	148	0	0	174	0	0	0	0	0	0
12	0	0	148	0	0	176	0	0	0	0	0	0
13	0	0	148	0	0	174	0	0	0	0	0	0
14	0	0	148	0	0	172	0	0	0	0	0	0
15	0	0	148	0	0	172	0	0	0	0	0	0
16	0	0	139	0	0	172	0	0	0	0	0	0
17	0	0	126	0	82.6	172	0	0	0	0	0	0
18	0	50.8	62.8	0	154	101	0	0	0	0	0	0
19	0	98.8	0	101	154	64.7	23.7	0	0	0	0	0
20	4.1	100	0	189	154	172	61.4	0	0	0	0	0
21	12.1	100	0	191	154	172	42.4	0	0	0	0	0
22	8.7	100	0	139	154	172	100	0	0	0	0	0
23	0	98.8	0	0.1	154	174	0	0	0	0	0	0
24	0	98.8	0	0	154	174	0	0	0	0	0	0
25	0	100	0	0	154	174	0	0	0	19.8	3.7	0
26	0	59.1	0	0	154	172	0	0	0	0	14.4	0
27	0	0	0	0	154	169	0	0	0	0	10.1	0
28	0	0	0	0	154	169	0	0	0	0	0	0
29	0	0	0	0	107	172	0	0	0	0	0	0
30	0	30.2	0	0	0	98.2	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0

MEAN	0.9	27.9	75.8	20	65	135	4.2	0	14	0.6	0.9	0
ACRE-FOOT	57.3	1,660	4,660	1,230	3,740	8,340	253	0	835	39.3	55.9	0

YEAR OR PERIOD MEAN ACRE-FOOT 28.7  
20,870

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. U8-R

DAILY DISCHARGE in second-feet of SAN GABRIEL RIVER BELOW MORRIS DAM FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	0	0	174	0	0	0	0	0	0	0
2	0	0	0	0	176	0	0	0	0	0	0	0
3	0	0	0	68.5	74.1	0	0	0	0	0	0	0
4	0	0	0	155	0	0	0	0	0	0	0	0
5	145	0	0	159	0	0	0	0	0	0	0	0
6	259	0	0	159	0	0	0	0	0	0	0	0
7	261	0	0	159	0	0	0	0	0	0	0	0
8	264	0	0	157	0	0	0	0	0	0	0	0
9	264	0	0	157	0	0	0	0	0	0	2.7	0
10	264	0	0	165	0	0	0	0	0	0	17.2	0
11	264	0	0	174	0	0	0	0	0	0	8.1	0
12	267	0	0	172	0	0	0	0	0	0	0	0
13	267	0	0	174	0	0	0	0	0	0	0	0
14	267	0	0	174	0	0	0	0	0	0	0	0
15	136	0	0	172	0	0	0	0	0	0	0	0
16	0	0	0	169	0	0	0	0	0	0	0	0
17	0	0	0	172	0	0	0	0	0	0	0	0
18	0	0	0	172	0	0	0	0	0	0	0	0
19	0	0	0	172	0	0	0	0	0	0	0	0
20	0	0	0	172	0	0	0	0	0	0	0	0
21	0	0	0	172	0	0	0	0	0	0	0	0
22	0	0	0	172	0	0	0	0	0	0	0	0
23	0	0	0	172	0	0	0	0	0	0	0	0
24	0	0	0	172	0	0	0	0	0	0	0	0
25	0	0	0	174	0	0	0	0	0	0	0	0
26	0	0	0	174	0	0	0	0	0	0	0	0
27	0	0	0	174	0	0	0	0	0	0	0	0
28	0	0	0	174	0	0	0	0	0	0	0	0
29	0	0	0	174	0	0	0	0	0	3.8	0	0
30	0	0	0	174	0	0	0	0	0	16.1	0	0
31	0	0	0	174	0	0	0	0	0	7.8	0	0

MEAN	85.7	0	0	155	15.1	0	0	0	0	0.9	0.9	0
ACRE- FEET	5,270	0	0	9,540	841	0	0	0	0	54.9	55.5	0

YEAR OR PERIOD MEAN ACRE-FEET 21.5  
15,760

Additional Information:

Releases of imported water are made occasionally from the Metropolitan Water District outlet below Morris Dam. These releases are published in this report as the record of Station No. M391. Releases from this outlet flow past Gaging Station No. U8-R and are included in the record of that station.

Average discharge of local water for an 82-year period is 150 second-feet (adjusted for regulations and diversions).

Normal unregulated flow adjusted for storage in reservoirs, evaporation and diversion to the Azusa Conduit.

Month	1975-76	1976-77
	A.F.	A.F.
October	1,260	2,060
November	1,180	1,710
December	1,410	1,640
January	1,320	6,080
February	10,030	2,650
March	7,720	2,640
April	4,490	2,390
May	3,350	8,850
June	1,830	3,830
July	1,110	1,750
August	880	1,530
September	4,550	1,140
Total	39,130	36,270

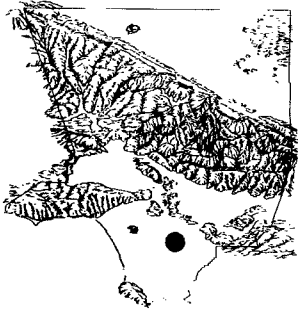
STATION DATA SUMMARY

STA. NO. U8-R  
SAN GABRIEL RIVER BELOW MORRIS DAM

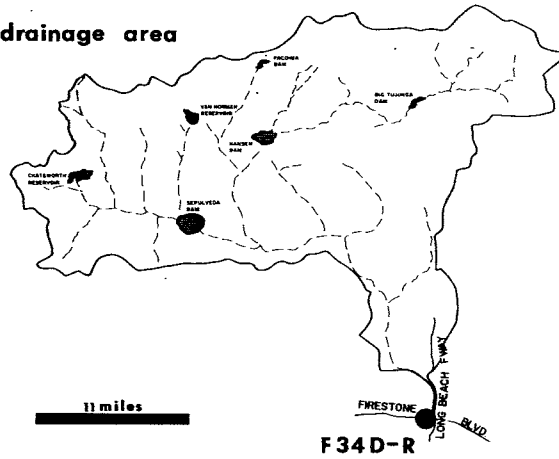
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW		
					MON	DAY	CFS
1895-96	134	0	N.D.	N.D.			N.D.
1896-97	1760	0	95.6	69200			N.D.
1897-98	1600	0	9.6	6920			N.D.
1898-99	16	0	0.1	74			N.D.
1899-00	49	0	0.4	272			N.D.
1900-01	5170	0	94.1	68100	2	5	6250
1901-02	318	0	4.3	3100			N.D.
1902-03	2940	0	104	74900			N.D.
1903-04	1070	0	9.3	6720			N.D.
1904-05	2940	0	172	124000			N.D.
1905-06	7950	0	262	190000			N.D.
1906-07	6730	0	406	293000			N.D.
1907-08	1160	0	46.4	33700			N.D.
1908-09	7030	0	197	143000			N.D.
1909-10	12400	0	137	99100	1	1	13900
1910-11	9100	0	321	231000	3	10	13500
1911-12	2950	0	55.5	40300			N.D.
1912-13	1880	0	25.6	18600			N.D.
1913-14	11800	0	359	260000	2	20	18100
1914-15	1110	0	108	77900	1	29	2770
1915-16	22300	0	315	228000	1	18	40000
1916-17	3900	0	49.3	35700			N.D.
1917-18	4940	0	123	88600	3	17	8680
1918-19	76	0	3.2	2290	2	11	230
1919-20	2400	0	94.6	68700	3	2	5000
1920-21	2050	0	40.1	29000	3	14	4000
1921-22	16000	0	505	365000	12	19	22300
1922-23	2250	0	44.0	31800	12	13	3670
1923-24	253	0	3.5	2540	3	26	510
1924-25	598	0	4.2	3030	3	4	3000
1925-26	5530	0	113	81700	4	7	14900
1926-27	11400	0	123	88900	2	16	18200
1927-28	672	0	4.1	2940	2	4	1810
1928-29	411	0	10.0	7210	3	10	895
1929-30	396	0	21.5	15600	3	15	586
1930-31	601	0	9.5	6900	4	26	1450
1931-32	5830	0	120	87200	2	9	7500
1932-33	1630	0	21.9	15900	1	19	5820
1933-34	2380	0	30.4	22000	1	1	6120
1934-35	460	0	102	74080	2	9	507
1935-36	224	0	31.6	22980	4	10	455
1936-37	1770	0	195	141100	2	20	1950
1937-38	21660	0.1	415	300200	3	2	65700
1938-39	316	6.5	53.5	38680			N.D.
1939-40	506	0	50.5	36640	6	24	506
1940-41	3870	0	317	229300	3	4	4460
1941-42	370	2.5	13.1	9480	4	20	422
1942-43	10370	2.0	334	242000	1	23	12100
1943-44	2710	3.6	184	133700	2	22	5170
1944-45	980	6.1	62.8	45490	2	6	988
1945-46	937	0.3	75.9	54930	12	23	980
1946-47	2930	0	74.9	54220	12	31	2980
1947-48	1170	0	18.1	13170	6	2	1320
1948-49	61	0	5.7	4140	10	27	79
1949-50	7.9	0	0.7	51	7	31	8.2
1950-51	47	0	8.6	6220	4	27	168
1951-52	3530	0	91.1	66120			N.D.
1952-53	1190	0	69.4	50240			N.D.
1953-54	960	0	34.6	25030	4	16	9420
1954-55	9.9	0	0.1	86	9	26	10
1955-56	43	0	0.2	176	9	30	45
1956-57	650	0	12.4	9010	4	14	656
1957-58	2470	0	241	174100	4	5	2780
1958-59	348	0	11.3	8200	2	24	364
1959-60	0	0	0	0			
1960-61	7.5	0	1.7	1250	5	6	9.1
1961-62	1520	0	102	73590	2	12	1650
1962-63	27	0	1.0	712	9	4	45
1963-64	22	0	0.2	160	8	26	50
1964-65	276	0	10.7	981	6	12	291
1965-66	7260	0	225	162900	11	23	8640
1966-67	3750	0	232	167900	12	6	5680
1967-68	236	0	31.7	23030	11	25	326
1968-69	19300	0	750	543000	2	25	29850
1969-70	1060	0	52.4	37970	2	28	1102
1970-71	434	0	31.4	22760	1	4	439
1971-72	299	0	15.3	11090	12	9	299
1972-73	849	0	131	94790	3	19	918
1973-74	310	0	60.8	44010	11	7	364
1974-75	248	0	29.7	21500	VARIOUS		248
1975-76	191	0	28.8	20870	3	25	178
1976-77	267	0	21.8	15760	10	13	273

N.D. = NOT DETERMINED

**STATION NO. F34D-R  
LOS ANGELES RIVER  
below Firestone Boulevard**

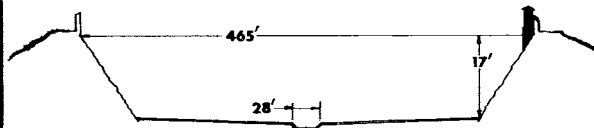


**drainage area**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from bridge  
 DRAINAGE AREA - 596.0 square miles  
 LOCATION - 472.0 feet downstream of Firestone Boulevard  
 3.0 miles west of Downey  
 REGULATION - partially regulated by Sepulveda, Pacoima,  
 Big Tujunga, Hansen, and Devil's Gate Dams; and by  
 several spreading grounds, reservoirs, and debris basins.  
 CHANNEL - concrete, with rip-rap side slopes, trapezoidal  
 in section, with trapezoidal low-flow channel  
 CONTROL - channel forms control  
 LENGTH OF RECORD -  
 at Station F34-R, March 1, 1928 to April 11, 1938  
 at Station F34B-R, April 11, 1938, to November 3, 1949  
 at Station F34C-R, November 4, 1949, to December 11, 1956  
 at Station F34D-R, December 11, 1956 to date  
 REMARKS - subject to diversions from Big Tujunga Creek,  
 Arroyo Seco, and other domestic and irrigation diversions

**cross-section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F34D-R

DAILY DISCHARGE in second-feet of LOS ANGELES RIVER BELOW FIRESTONE BLVD. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	25	15.4	9.8	11.4	14.6	1,120	9.8	21	19	14.6	13	21
2	23	13.8	11.4	11.4	14.6	D 172	9.8	21	16.2	16.2	13.8	17
3	21	15.4	11.4	9.8	15.4	D 738	12.2	19	13.8	14.6	13	30.1
4	20	20	14.6	9.8	9.8	D 97	33.5	D 559	16.2	13.8	9.8	23
5	17	15.4	20	12.2	D 671	20	D 83	14.6	17	14.6	9.8	28.2
6	28	12.2	22	14.6	2,450	17	15.4	13	16.2	16.2	9.8	890
7	22	13	18	11.4	D 533	17	15.4	44	21	21	9.8	32.2
8	21	12.2	16.2	8.4	1,340	17	D 123	21	37.4	18	11.4	28.3
9	22	12.2	14.6	8.4	2,730	29.5	D 72	16.2	38.7	13.8	11.4	25
10	19	11.4	13.8	8.4	D 207	D 189	16.2	15.4	D 233	12.2	12.2	3,390
11	15.3	11.4	14.6	8.4	38.7	27	16.2	16.2	D 152	11.4	13.8	1,330
12	41	13	142	9.8	23	22	29.2	13.8	18	13	14.6	87.1
13	16.2	11.4	133	9.8	25	16.2	D 564	12.2	12.2	13.8	16.2	23
14	19	11.4	16.2	9.8	17	14.6	67.8	14.6	13.8	15.4	15.4	15.4
15	21	12.2	13	12.2	13.8	14.6	44	12.2	15.4	15.4	100	29.6
16	22	11.4	18.6	13.8	13.8	13.4	37.4	13	28	13.4	30.7	24
17	19	12.2	18.6	13.8	14.6	13	23	13	24	15.4	20	17
18	20	13	18.6	13.8	14.6	13	22	13.8	18	13	16.2	9.8
19	17	12.2	9.8	13	20	13	19	15.4	14.6	13	12.2	12.2
20	18	10.6	18.6	14.6	13	12.2	14.6	13	12.2	12.2	10.6	13
21	17	12.2	9.8	12.2	12.2	12.2	14.6	13	11.4	11.4	7.8	13.8
22	16.2	12.2	9.8	11.4	12.2	16.2	16.2	13.8	11.4	13	8.4	16.2
23	13	12.2	9.8	12.2	13.8	34.8	16.2	17	11.4	14.6	8.4	20
24	12.2	12.2	9.8	15.4	20	24	13.8	21	13	13	6.0	206
25	14.6	13.8	18.6	14.6	13.8	14.6	13	22	13.8	13	7.2	57.2
26	19	22	9.8	13.8	13.8	13.8	13	21	13.8	13.8	9.8	17
27	21	21	9.8	14.6	12.2	13.8	12.2	21	13	18	13	13
28	19	22	12.2	11.4	12.2	13	13	23	19	16.2	11.4	14.6
29	16.2	17	13.8	13.8	12.2	13	13	22	14.6	15.4	12.2	64.4
30	33.6	11.4	18	13.8	13.8	13.8	20	22	14.6	15.4	12.2	32.2
31	87.9		14.6	15.4	11.4	11.4	19	19	14.6	13.8	15.4	
MEAN	26.9	13.9	20.9	11.9	28.9	86.9	63.2	17.9	28.9	14.9	17.2	22.5
TOTAL	1,650	825	1,200	731	16,640	5,340	3,760	1,100	1,720	894	1,060	13,400

YEAR OR PERIOD 68  
 MEAN ACRE-FEET 48,400

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F34D-R

DAILY DISCHARGE in second-feet of LOS ANGELES RIVER BELOW FIRESTONE BLVD. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	14.6	15.4	16.2	44.9	17	20	9.0	18	10.6	21	14.6	8.4
2	13	14.6	15.4	145	14.6	19	9.0	10.6	10.6	23	18	7.8
3	13.8	19	13.8	5,000	16.2	19	8.4	9.8	9.8	24	17	7.2
4	16.2	13	14.6	134	15.4	20	8.4	9.0	9.0	26	13.8	6.6
5	16.2	12.2	15.4	808	17	19	9.0	9.0	9.0	28.3	15.4	6.0
6	16.2	13	13	2,650	21	18	10.6	11.4	13.8	27	13.8	6.0
7	15.4	13.8	16.2	2,410	16.2	19	12.2	50.9	12.2	24	16.2	6.6
8	16.2	14.6	22	156	15.4	23	12.2	5,550	9.8	20	16.2	6.0
9	15.4	15.4	19	80.8	13.8	26	11.4	3,430	12.2	18	13.8	5.4
10	19	16.2	18	60	13	24	11.4	222	17	17	9.8	8.4
11	19	19	17	36.1	13.8	25	11.4	50	20	17	8.4	7.8
12	17	1,750	18	29.6	13	25	13	60	21	18	9.0	9.0
13	19	53	19	22	14.6	28.3	14.6	30.9	21	17	9.8	10.6
14	17	16.2	21	19	17	32.2	16.2	21	23	20	9.0	11.4
15	19	20	17	18	17	32.2	12.2	19	23	21	9.0	13
16	18	16.2	14.6	18	15.4	1,270	12.2	16.2	26	23	16.2	11.4
17	16.2	17	14.6	17	17	231	13	15.4	27	24	5,540	11.4
18	19	16.2	13.8	18	18	18	9.8	11.4	28.3	25	240	10.6
19	20	17	15.4	18	16.2	13	9.8	10.6	27	24	19	11.4
20	19	15.4	17	32.8	15.4	9.8	9.0	9.8	26	24	10.6	13
21	26	13.8	22	161	14.6	9.8	10.6	9.0	28.3	20	8.4	11.4
22	381	24	13.8	24	14.6	11.4	10.6	7.8	27	17	7.8	9.8
23	1,400	23	15.4	16.2	94.5	12.2	9.8	44.5	24	15.4	8.4	10.6
24	36.1	18	15.4	18	101	32.2	10.6	130	22	15.4	9.0	10.6
25	27	14.6	13	14.6	38.7	2,520	9.8	28.3	20	14.6	12.2	9.8
26	21	13.8	13.8	16.2	27	73.2	9.8	13.8	20	15.4	13.8	8.4
27	16.2	14.6	13.8	14.6	21	18	11.4	10.6	20	14.6	13.8	13.8
28	23	12.2	14.6	15.4	19	14.6	12.2	9.8	21	15.4	13	13
29	26	13	16.2	26.7		12.2	11.4	7.8	21	18	13.8	9.8
30	22	14.6	1,570			9.8	10.6	8.4	21	17	14.6	10.6
31	15.4		251	22		7.8		10.6		13.8	13.8	

MEAN	75.2	75	73.9	389	23.1	149	11	318	19.4	19.9	198	9.5
ACRE- FEET	4,630	4,460	4,540	23,930	1,280	9,150	654	19,530	1,150	1,230	12,190	567

YEAR  
OR  
PERIOD MEAN 113  
ACRE-FEET 83,310

STATION DATA SUMMARY

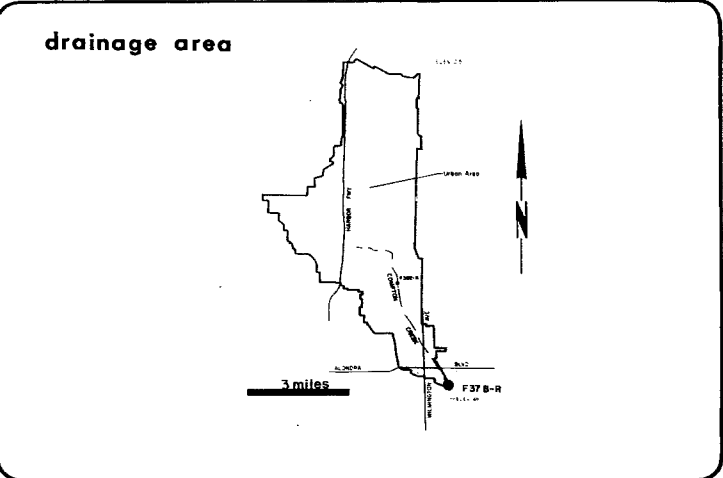
STA. NO. F34D-R  
LOS ANGELES RIVER BELOW FIRESTONE BOULEVARD

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW			SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW		
					MON	DAY	CFS						MON	DAY	CFS
1927-28	*	0	*	6990*	2	4	1120*	1960-61	2230	4.5	32.6	23600	11	5	7810
1928-29	775	0	13.6	9830	11	14	2010	1961-62	9630	5.8	170	123300	2	12	28400
1929-30	813	0	13.4	9730	3	15	2210	1962-63	4080	4.3	56.2	40690	2	9	19300
1930-31	1560	1.4	13.6	13450	2	4	4360	1963-64	2810	2.6	49.6	36030	1	21	11400
1931-32	2650	3.4	35.3	25620	2	8	4780	1964-65	3380	4.3	66.5	48110	4	9	18700
1932-33	2900	0	23.5	17020	1	19	7070	1965-66	15700	4.3	209	151200	12	29	37000
1933-34	8550	0	52.9	38330	1	1	29400	1966-67	10000	6.0	159	114800	11	7	37100
1934-35	1430	0	40.3	29170	1	5	10400	1967-68	9410	13	116	84240	3	8	37400
1935-36	1040	0	20.5	14920	2	12	5730	1968-69	31800	12	541	391800	1	25	58000
1936-37	3460	0	67.2	48630	12	30	10000F	1969-70	4250	13	90.4	65440	2	28	20900
1937-38B	40000	0	278	201300	3	2	79000	1970-71	16700	11	162	117300	11	29	49800
1938-39	5070E	0	108	78440	9	25	10800	1971-72	6980	14	86.6	62890	12	24	27400
1939-40C	2410	14E	80.5	58420	1	8	7610	1972-73	14470	13.0	221	160300	1	18	49020
1940-41	7580	10	345	249500	2	20	14800	1973-74	15690	10.6	157	113600	1	7	32300
1941-42	2030	27	97.8	70820	12	10	8210	1974-75	8480	9.0	119	86470	12	4	53950
1942-43	10700	18	268	193700	1	23	27500	1975-76	3390	6.0	68.0	48400	9	10	8160F
1943-44	13000	38	249	180900	2	22	24800	1976-77	5550	5.4	115.0	83300	1	3	30900
1944-45	1980	16	91.0	65900	2	2	6970								
1945-46	4000	8.4	95.8	69310	12	22	12500								
1946-47	2760	14	99.7	72180	12	25	14900								
1947-48	1280	10	52.8	38350	3	24	8980								
1948-49	1130	11	49.1	35550	12	17	5300								
1949-50	1770	8.5	43.9	31760	2	6	8480								
1950-51	898	7.5	35.3	25560	1	11	5840								
1951-52	12000	1.8	249	180500	1	16	32900								
1952-53	2000	1.4	57.1	41380	11	15	14100								
1953-54	4190	1.2	70.9	51330	2	13	19500								
1954-55	2470	6.2	54.3	39340	1	18	13700								
1955-56	12000	8.2	91.5	66440	1	26	28900								
1956-57D	3960	3.8	53.2	38500	2	23	24600								
1957-58	6290	4.3	191	138400	2	19	34100								
1958-59	4660	5.9	51.4	37210	1	6	24200								
1959-60	2090	4.0	43.6	31610	1	12	10700								

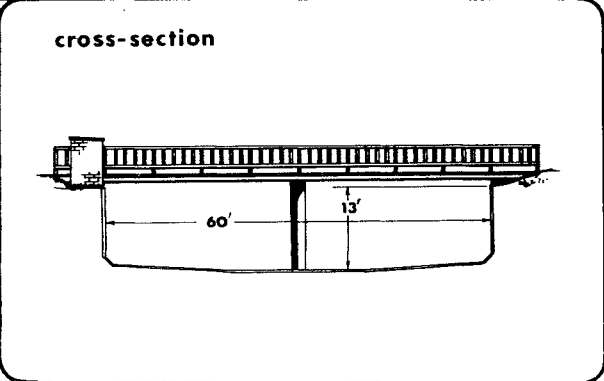
B = RECORD BEGAN AT B LOCATION 04-11-38.  
C = RECORD BEGAN AT C LOCATION 11-04-39.  
D = RECORD BEGAN AT D LOCATION 12-11-56.  
N.D. = NOT DETERMINED  
E = ESTIMATE  
\* = RECORD INCOMPLETE  
+ = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0.



**STATION NO. F 37 B-R  
COMPTON CREEK  
near Greenleaf Drive**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from bridge  
 DRAINAGE AREA - 22.6 square miles  
 LOCATION - 120.0 feet above Greenleaf Boulevard, 1.5 miles southwest of Compton  
 REGULATION - none  
 CHANNEL - concrete, rectangular in section, 60 feet wide by 13 feet deep  
 CONTROL - channel forms control  
 LENGTH OF RECORD -  
 at Station F37-R, January 22, 1928, to June 9, 1938  
 at Station F37B-R, October 3, 1938, to date



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F37B-R

DAILY DISCHARGE in second-feet of COMPTON CREEK NEAR GREENLEAF DRIVE FOR THE WATER YEAR ENDING SEPTEMBER 30, 1938

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	C 0.6	0.8	0.8	0.7	0.7	74.3	0.3	0.7	0.6	0.1	0.6	0.9
2	F 0.6	0.6	0.8	0.7	0.7	61.9	0.3	0.7	0.7	0.3	0.6	0.9
3	F 0.6	0.6	0.9	0.6	0.9	11.3	13.0	0.6	0.6	0.1	0.4	0.6
4	C 0.6	0.8	0.9	0.7	16.1	0.7	55.9	0.6	2.3	0.6	0.1	0.6
5	F 0.6	0.8	0.9	0.9	0.9	0.4	0.9	0.7	0.4	0.7	0.8	0.4
6	F 0.6	0.8	0.9	0.9	92.9	0.4	0.4	0.9	0.4	0.4	1.0	4.0
7	F 0.8	0.8	0.8	0.9	18.1	0.3	0.4	0.7	0.4	0.4	0.6	1.0
8	F 0.8	0.8	0.9	0.7	7.6	0.4	11	0.7	0.6	0.4	0.4	1.9
9	F 0.8	0.8	1.2	0.9	20.2	0.4	0.4	0.6	0.7	0.6	0.7	1.9
10	F 0.8	0.9	0.9	1.0	5.0	16.8	R 0.4	0.6	0.3	0.3	0.7	0.6
11	F 1.7	0.8	0.8	0.9	0.7	0.3	R 0.4	0.6	0.4	0.4	0.7	0.8
12	F 0.8	0.8	5.1	0.7	0.6	0.3	R 18.4	0.7	0.1	0.3	0.7	0.9
13	F 0.8	0.8	0.3	0.7	0.6	0.3	R 9.6	0.6	0.3	0.4	0.7	1.5
14	F 0.8	0.9	0.8	0.9	0.6	0.3	R 0.4	0.6	0.7	0.7	0.7	0.6
15	F 0.8	0.9	0.6	0.7	0.6	0.6	R 7.8	0.6	0.3	0.6	0.9	0.6
16	0.8	0.8	0.9	1.2	0.9	0.4	R 0.4	0.4	0.4	0.4	0.9	1.8
17	0.8	0.6	0.8	0.9	0.9	0.3	R 0.4	0.7	0.4	0.4	0.9	1.0
18	0.9	0.8	0.6	0.9	0.6	0.4	R 0.4	0.9	0.4	0.4	1.0	1.0
19	0.8	0.5	0.8	0.7	0.4	0.4	0.4	0.9	0.6	0.4	1.0	0.6
20	0.8	0.5	0.8	0.7	0.4	0.3	0.4	0.9	0.6	0.6	1.0	0.6
21	0.8	0.6	0.8	1.0	0.4	0.4	0.6	0.6	0.1	0.6	1.0	0.9
22	0.8	0.6	0.8	0.9	0.4	0.3	0.7	0.7	0.3	0.9	1.0	0.9
23	0.6	0.5	0.8	0.7	0.4	0.4	0.6	0.6	0.4	0.7	1.6	1.1
24	0.6	0.8	0.8	0.7	0.4	0.4	0.4	1.5	0.4	0.6	1.0	0.9
25	0.6	0.8	0.8	0.7	0.6	0.7	0.4	1.6	0.6	0.6	1.0	1.3
26	0.8	1.2	0.8	0.8	0.4	0.4	0.6	1.6	0.4	0.4	1.1	1.0
27	0.8	1.9	0.8	0.7	0.4	0.4	0.7	1.0	0.3	0.6	1.1	0.9
28	0.8	2.6	0.8	0.9	0.6	0.3	0.7	0.9	0.6	0.7	0.9	0.4
29	0.8	0.9	0.8	0.9	0.6	0.3	0.6	0.9	0.6	0.9	0.9	0.9
30	0.4	1.9	0.9	0.9	0.4	0.4	1.2	0.7	0.4	0.6	1.0	0.6
31	1.1		0.9	0.7		0.3		0.3		0.6	0.9	
MEAN	1.6	0.9	1.0	0.8	23.7	5.6	4.9	0.8	1.2	0.5	1.0	13.3
ACR- FEET	29	52.1	64.4	50.4	1,360	346	294	52	70.8	29.2	63.1	796

YEAR OR PERIOD \_\_\_\_\_ MEAN ACRE-FEET \_\_\_\_\_ 4.6  
 3,276

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F37B-R

DAILY DISCHARGE in second-feet of COMPTON CREEK NEAR GREENLEAF DRIVE FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.6	0.1	0.4	1.6	0.4	0	0.9	2.5	0.1	0.4	0.1	0
2	0.6	0.3	0.3	42.4	0.7	0	0.4	0.3	0.1	0.4	0	0
3	0.6	0.4	0.3	88.4	0.3	0.3	0.3	0.1	0.1	0.3	0	0
4	0.4	0.3	0.9	0.7	0.4	0.4	0.3	0.1	0	0.4	0	0
5	1.6	0.6	0.6	160	0.4	0.4	0.4	0	0.1	0.4	0.1	0
6	1.6	0.3	0.6	181	0.4	0.4	0.4	0.1	0.1	0.4	0.1	0
7	1.3	0.1	0.6	84.5	0.3	0.6	0.4	0.4	0.1	0.3	0.1	0
8	1.6	0.1	0.6	1.9	0.6	0.4	0.3	438	0.3	0.3	0.1	0
9	0.9	0.3	0.6	0.7	0.4	0.7	0.1	89.1	0.1	0.3	0.2	0
10	0.6	0.3	0.6	0.9	0.4	0	0.1	7.0	0	0.4	0	0
11	0.4	13.3	0.6	0.7	0.4	0.1	0	0.4	0	0.2	0	0
12	0.4	112	0.7	0.6	0.4	0.1	0	1.2	0	0.1	0	0
13	1.9	1.9	0.7	0.6	0.3	0.1	0.3	0.3	0	0.1	0	0
14	0.6	1.9	0.7	0.6	0.3	0.1	0.3	0.4	0	0.1	0	0
15	0.4	1.9	0.7	0.6	0.3	0.1	0.1	0.3	0.1	0.3	0	0
16	0.4	1.6	0.7	0.6	0.3	107	0.3	0.3	0.3	0	2.3	0
17	0.6	1.9	0.7	0.6	0.3	2.4	0.3	0.1	0	0	542	0
18	0.6	2.3	0.9	0.6	0.6	0.4	0.1	0.3	0.1	0.1	4.6	0
19	0.4	1.9	0.3	1.2	0.3	0.6	0.1	0.1	0.3	0	0.3	0.1
20	1.9	1.9	0.9	13	0.3	0.6	0.1	0.1	0.7	0	0	0.1
21	2.6	1.9	0.7	19.7	0.3	0.6	0.4	0.1	0.3	0.1	0	0
22	1.9	1.9	0.6	7.4	0.1	0.6	0.1	0	0.1	0.1	0	0.2
23	3.9	1.9	0.7	7.4	16.5	0.6	0.1	4.8	0.3	0.1	0	0.3
24	0.3	1.9	0.6	8.1	3.6	1.6	0.1	5.3	0.3	0	0	0.4
25	0.3	1.9	0.4	3.3	0.4	192	0	0.1	0.4	0	0	0.4
26	0.1	2.3	0.4	0.6	0	0.7	0	0	0.3	0.1	0	0.3
27	0.4	1.9	0.6	0.6	0	0.4	0.1	0	0.6	0.3	0	0.3
28	0.3	0.6	0.7	2.6	0.1	0.3	0	0.1	0.4	0.6	0	0.2
29	0.3	0.1	0.7	0.7		0.3	0	0	0.3	0.3	0	0.3
30	0.4	0	147	0.4		0.6	0	0.1	0.4	0	0	0.1
31	0.6		24.2	0.4		4.8		0		0.1	0	

MEAN	0.9	10.5	6.1	20.4	1.0	10.2	0.2	17.8	0.2	0.2	17.7	0.1
ACRE- FEET	57.7	626	376	1,250	57.1	629	11.9	1,090	11.7	12.3	1,090	5.4

YEAR OR PERIOD MEAN ACRE-FEET 7.1  
5,220

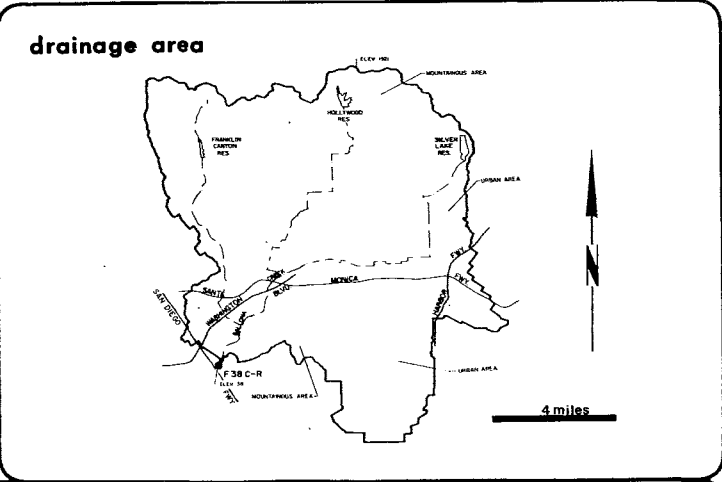
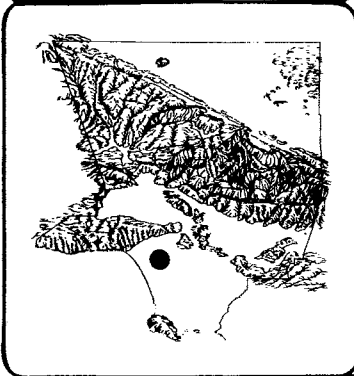
STATION DATA SUMMARY

STA. NO. F37B-R  
COMPTON CREEK NEAR GREENLEAF DRIVE

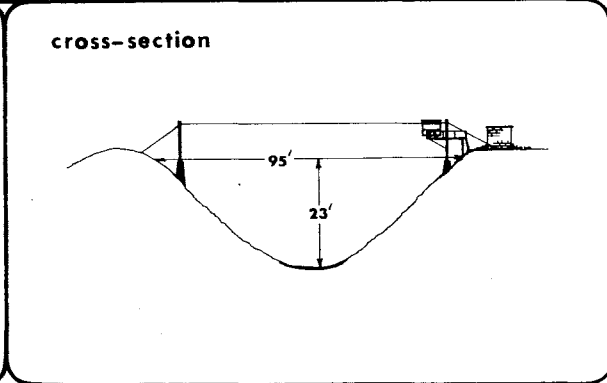
SEASON	DAILY			TOTAL RUNOFF A.F.	PEAK FLOW			SEASON	DAILY			TOTAL RUNOFF A.F.	PEAK FLOW		
	MAX CFS	MIN CFS	MEAN CFS		MON	DAY	CFS		MAX CFS	MIN CFS	MEAN CFS		MON	DAY	CFS
1927-28	*	0	*	1230*	3	5	240*	1964-65	424	0	7.4	5390	4	9	2630
1928-29	197	0	3.1	2270	3	10	924	1965-66	809	+	10.8	7800	12	29	3250
1929-30	144	0	3.5	2520	3	14	580	1966-67	755	+	11.8	8560	11	7	4650
1930-31	137	+	3.3	2400	4	26	678	1967-68	1120	+	9.4	6850	3	7	3690
1931-32	248	0	4.4	3220	1	31	757	1968-69	1040	0	16.6	12010	1	20	5890
1932-33	166	0	2.4	1780	1	19	740	1969-70	275	0.2	4.4	3150	1	16	1960
1933-34	372	0	3.5	2560	1	1	96*	1970-71	609	0.4	11.7	8500	11	29	2930
1934-35	301	0	5.7	4170	4	9	850	1971-72	622	0.4	6.8	4940	12	27	6000
1935-36	143	0	4.0	2920	2	12	624	1972-73	473	0.2	12.2	8830	11	14	4300
1936-37	559	0	*	*	2	6	1220	1973-74	810	0.3	10.0	7210	1	4	3140
1937-38	986	E	*	*	3	2	N.D.	1974-75	677	0.2	9.1	6550	12	4	8690
1938-39	837	0	7.1	5150	9	25	2150	1975-76	285	0.1	4.6	3270	2	9	2470
1939-40	256	10	7.4	5340	2	3	1630	1976-77	542	0	7.2	5220	8	17	1970
1940-41	544	1.0	22.7	16400	12	23	2660								
1941-42	236	3.0	10.1	7280	12	10	1730								
1942-43	752	0.8	11.8	8560	1	22	2050								
1943-44	739	2.3	15.6	11290	2	20	2370								
1944-45	363	4.4	12.7	9210	11	11	3010								
1945-46	362	2.6	11.0	7960	12	23	2010								
1946-47	474	4.1	13.9	10380	11	23	2930								
1947-48	170	0.6	7.9	5740	3	24	1410								
1948-49	287	0.1	5.1	3660	12	17	2710								
1949-50	433	+	6.6	4820	2	6	2830								
1950-51	209	+	4.9	3550	1	10	1790								
1951-52	661	0.1	14.7	10650	1	18	3220	E							
1952-53	220	0.1	5.6	4020	11	15	2380								
1953-54	797	0.1	7.5	5410	2	13	3600								
1954-55	374	0.1	8.4	6080	1	18	2710								
1955-56	2090	0.2	12.7	9240	1	26	4910								
1956-57	286	+	5.6	4070	5	11	1780								
1957-58	1100	+	16.0	11610	2	19	4640								
1958-59	449	0	4.6	3330	1	6	4320								
1959-60	463	0	6.3	4590	1	11	3220								
1960-61	204	+	2.7	1960	11	5	1640								
1961-62	1060	0.1	14.5	10520	2	19	4550								
1962-63	576	+	8.8	6400	2	10	3310								
1963-64	212	+	4.7	3440	11	6	2430								

B = RECORD BEGAN AT B LOCATION 10-03-38.  
\* = RECORD INCOMPLETE  
+ = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0.  
N.D. = NOT DETERMINED  
E = ESTIMATE

**STATION NO. F 38 C-R  
BALLONA CREEK  
above Sawtelle Boulevard**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from cable car  
 DRAINAGE AREA - 88.6 square miles  
 LOCATION - 530.0 feet above Sawtelle Boulevard, 1.5 miles southwest of Culver City  
 REGULATION - Stone Canyon Reservoir prior to January, 1951. Upper and Lower Franklin Canyon Reservoir, Hollywood Reservoir, and Silverlake Reservoir  
 CHANNEL - concrete rubble, trapezoidal in section  
 CONTROL - channel forms control  
 LENGTH OF RECORD -  
 at Station F38-R, February 27, 1928, to April 27, 1936  
 at Station F38B-R, May 14, 1936, to August 10, 1967  
 at Station F38C-R, August 10, 1967, to date



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F38C-R

DAILY DISCHARGE in second-feet of BALLONA CREEK ABOVE SAWTELLE BLVD. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	14	9.4	12.4	9.4	10	590	10	11.2	10.6	11.8	9.4	10
2	15	9.4	13	9.4	10	367	10.6	10.6	11.2	12.4	9.4	10
3	16	11.2	11.8	10.6	10.6	30	156	12.4	10.6	11.2	10	13
4	13	9.4	10.6	11.2	53	9.4	1,030	14	10.6	11.2	9.4	11.2
5	12.4	10	11.8	11.8	728	8.8	10	13	10	10.6	10	232
6	14	10	11.8	11.8	446	8.8	8.8	12.4	10.6	11.8	10.6	49
7	11.2	10.6	11.2	10.6	91	8.2	9.4	13	11.2	11.2	10	13
8	11.2	16	13	11.8	353	8.2	65	11.8	11.2	11.2	8.8	11.2
9	11.2	13	14	11.8	1,040	29	9.4	11.2	10.6	11.8	9.4	10.6
10	11.8	12.4	13	11.2	35	84	9.4	10.6	63	10.6	9.4	1,390
11	122	11.8	12.4	11.2	11.8	11.8	9.4	10	11.2	11.2	9.4	103
12	10.6	13	72	13	9.4	11.8	149	11.8	10.6	11.2	10	12.4
13	12.4	16	6.2	11.8	9.4	11.2	56	11.8	10.6	11.8	9.4	13
14	13	10.6	8.8	11.8	8.8	11.2	10	11.8	13	11.2	10	12.4
15	13	11.8	8.8	15	7.6	10.6	24	11.2	15	11.2	25	16
16	14	9.4	8.8	12.4	7.6	10	10	10.6	12.4	11.2	11.2	10.6
17	13	11.8	8.8	9.4	7.6	11.2	10	12.4	11.8	10	10.6	10
18	12.4	10.6	10	9.4	8.2	11.2	9.4	13	8.8	10	11.2	10.6
19	10	10.6	10	8.8	7.6	11.2	11.2	11.2	13	10	10.6	10.6
20	10	11.2	10	10.6	7.6	15	11.8	11.8	12.4	10	10.6	13
21	10	11.2	9.4	10.6	7.6	13	11.2	11.8	12.4	10	10.6	16
22	10	11.2	10.6	10	7.6	12.4	10.6	10.6	12.4	10.6	10.6	21
23	10	10.6	11.8	11.8	9.4	11.8	11.2	10.6	12.4	10.6	11.2	20
24	10.6	15	10.6	10.6	10.6	11.8	10.6	11.2	12.4	9.4	11.2	55
25	10.6	13	10	10	8.8	11.8	10	10.6	13	9.4	10.6	11.2
26	10.6	12.4	11.2	11.2	9.4	13	10.6	10	11.8	12.4	10.6	9.4
27	11.8	15	10	11.2	10.6	11.2	12.4	10	11.2	11.2	11.2	9.4
28	11.8	10.6	10	10.6	10.6	10.6	10.6	10	13	10.6	12.4	9.4
29	11.2	10.6	11.8	11.2	10.6	11.8	11.2	9.4	11.8	10.6	11.8	12.4
30	26	10.6	11.2	11.2	12.4	12.4	11.8	8.8	13	11.2	11.2	8.8
31	10.6	9.4	10.6	10.6	10	10	10	9.4	10	10	11.2	11.2

MEAN	15.9	11.6	12.7	11	102	44.8	57.7	11.2	13.5	10.9	10.9	71.2
ACRE- FEET	979	691	792	678	5,850	2,750	3,430	691	805	667	668	4,240

YEAR OR PERIOD \_\_\_\_\_ MEAN ACRE-FEET \_\_\_\_\_ 30.6  
 22,230

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F38C-R

DAILY DISCHARGE in second-feet of BALLONA CREEK ABOVE SAWTELLE BLVD. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER		
1	8.8	10.6	11.8	8.2	8.8	9.4	8.8	11.8	7.0	7.6	8.2	7.6		
2	9.4	10	11.2	416	10	10.6	6.6	7.6	6.6	7.0	8.8	7.6		
3	8.2	10	11.2	536	10	11.8	6.2	7.0	7.0	7.0	9.4	7.6		
4	9.4	10	11.2	8.8	10	9.4	7.0	7.0	7.0	7.0	8.2	7.0		
5	10.6	10	11.2	563	7.6	8.8	8.2	7.0	7.0	7.0	7.6	6.6		
6	10.6	9.4	12.4	731	8.2	8.8	8.2	7.0	7.0	7.0	6.6	6.6		
7	12.4	8.8	14	487	8.8	8.8	7.6	63	7.0	6.6	6.6	7.0		
8	10.6	10	14	11.2	8.2	9.4	8.2	1,760	7.6	6.2	6.2	7.0		
9	11.2	10.6	15	10	9.4	9.4	7.6	885	8.2	7.0	6.2	6.6		
10	11.2	10	20	10	9.4	8.8	6.6	18	8.2	6.2	5.8	6.6		
11	12.4	298	18	9.4	11.8	8.8	7.6	11.2	8.2	8.8	5.4	6.2		
12	12.4	346	16	9.4	9.4	9.4	7.0	22	7.6	7.6	4.6	5.4		
13	11.2	10	17	8.8	10	9.4	7.6	9.4	7.6	7.6	5.0	5.8		
14	11.2	8.8	17	10	10	10	8.2	7.6	7.6	8.8	5.4	6.2		
15	10.6	7.6	16	9.4	10.6	9.4	7.6	7.6	8.2	8.2	5.0	6.2		
16	10.6	7.6	11.2	8.8	11.2	501	7.0	7.0	8.2	7.6	22	7.0		
17	8.2	7.6	10.6	8.2	12.4	11.2	6.6	7.6	8.2	7.0	1,696	6.6		
18	10	8.2	10	8.2	10.6	7.6	6.6	8.8	8.2	8.2	14	7.6		
19	10	8.8	11.2	8.2	10	7.6	7.6	8.2	8.2	8.2	8.8	7.6		
20	10.6	8.8	10	41	10	7.0	6.6	8.8	8.8	8.2	7.0	7.6		
21	13	7.6	9.4	38	10.6	7.6	6.6	8.2	8.2	8.2	7.0	6.6		
22	38	8.8	8.8	7.6	11.8	9.4	7.0	8.8	7.6	8.2	8.2	6.6		
23	654	9.4	8.8	7.6	86	8.2	8.2	132	7.6	8.2	7.6	7.0		
24	7.6	9.4	9.4	10	41	19.2	8.8	277	7.6	8.2	7.0	6.6		
25	7.6	9.4	7.6	8.2	9.4	698	8.8	7.0	7.6	8.8	8.2	6.2		
26	7.6	10	7.6	8.8	8.8	12.4	8.2	7.0	7.6	8.2	8.2	6.6		
27	7.0	10	8.8	8.8	8.8	9.4	9.4	7.0	8.2	8.8	7.0	6.2		
28	8.2	10	8.8	26	8.8	8.8	12.4	6.2	7.6	8.8	6.6	6.2		
29	8.8	11.2	8.8	9.4		7.6	13	6.2	7.6	8.2	7.6	6.2		
30	8.8	11.2	583	7.6		7.6	9.4	6.6	7.6	8.2	6.6	6.2		
31	8.8		164	9.4			28	6.2		7.6	8.2			
MEAN	31.6	30.3	35.3	98.2	13.6	48.2	8.0	107	7.7	7.7	62.2	6.7		
ACRE FEET	1,940	1,800	2,170	6,040	757	2,960	474	6,630	457	476	3,830	398		
												YEAR OR PERIOD	MEAN ACRE-FEET	38.1
														27,930

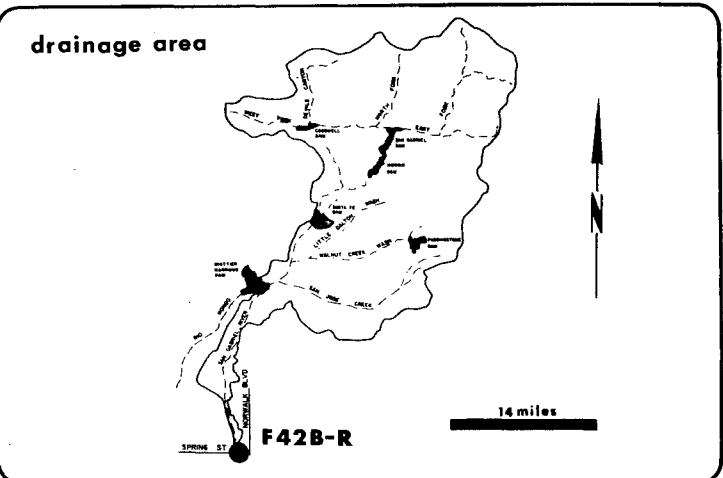
STATION DATA SUMMARY

STA. NO. F38C-R  
BALLONA CREEK ABOVE SAWTELLE BOULEVARD

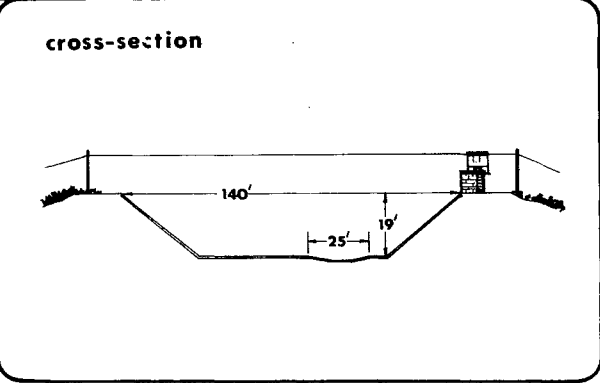
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW CFS			SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW CFS		
					MON	DAY	CFS						MON	DAY	CFS
1927-28	N.D.	0	N.C.	3930	5	8	1100	1960-61	945	4.2	17.3	12560	11	5	770C
1928-29	1150	0	20.6	14900	3	10	4990	1961-62	3490	3.2	69.2	50090	2	19	1290C
1929-30	1130	0	18.6	13480	1	11	4460	1962-63	1940	3.2	29.6	21450	3	18	1219C
1930-31	1500	0	25.6	18520	4	26	6280	1963-64	789	3.9	24.8	13000	1	22	642C
1931-32	1780	0	30.0	21750	12	28	6130	1964-65	1590	3.9	38.0	27540	4	9	1760C
1932-33	1660	0	21.8	15810	1	19	7000	1965-66	3620	5.3	61.5	44540	11	22	1800C
1933-34	4310	0	28.5	20630	1	1	11300	1966-67C	3020	6.7	62.1	45300	11	7	1390C
1934-35	2190	0	34.4	24870	4	8	11200	1967-68	6350	8.2	55.9	40570	11	21	3250C
1935-36B	929	0	19.3	13500	2	12	8070	1968-69	4840	8.2	101	73060	1	25	1700C
1936-37	2150	0	56.2	40680	12	30	8940	1969-70	1340	7.6	30.7	22230	2	28	1380
1937-38	730	3.6	72.5	52500	3	2	19000	1970-71	3170	8.8	50.8	35620	11	29	14600
1938-39	3080	1.8	39.4	29490	12	17	9900	1971-72	1900	7.6	31.3	22700	12	24	11100
1939-40	1270	1.3	29.1	21110	2	3	9730	1972-73	2590	8.8	65.9	47730	1	16	17630
1940-41	2680	3.1	93.0	67360	12	23	17300	1973-74	3510	8.8	56.8	41360	1	7	1100C
1941-42	990	2.8	23.8	17250	12	10	7500	1974-75	2490	6.2	47.8	34590	12	4	20560
1942-43	4840	2.6	47.3	34240	1	22	13200	1975-76	1390	6.2	30.6	22230	9	10	12940
1943-44	3010	3.4	45.4	33000	2	22	8800	1976-77	1760	4.6	38.6	27930	10	23	10173
1944-45	1200	3.0	33.8	24450	11	11	9380								
1945-46	1830	3.8	25.4	18380	12	22	7750								
1946-47	1960	2.8	36.3	26300	12	25	9630								
1947-48	1000	3.5	18.8	13630	3	24	12700								
1948-49	668	2.9	22.2	16090	2	7	5740								
1949-50	1620	1.4	32.1	23250	2	6	7670								
1950-51	756	0.7	26.1	18860	1	10	5460								
1951-52	2520	3.5	73.5	53350	1	16	12800								
1952-53	1140	4.8	27.5	19910	11	15	11500								
1953-54	3570	5.4	39.3	28480	2	13	18900								
1954-55	1210	5.4	29.8	21600	1	18	9370								
1955-56	6510	5.2	44.7	34590	1	26	18700								
1956-57	1790	6.3	30.7	22240	2	23	13900								
1957-58	3000	6.3	59.4	43040	2	19	15200								
1958-59	1210	4.2	19.0	13730	1	6	8170								
1959-60	1290	2.2	23.7	17190	1	11	12500								

B = RECORD BEGAN AT B LOCATION 05-14-36.  
C = RECORD BEGAN AT C LOCATION 08-10-67.  
N.D. = NOT DETERMINED

**STATION NO. F 42B-R  
SAN GABRIEL RIVER  
above Spring Street**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from cable car  
 DRAINAGE AREA - 231.0 square miles (excludes area above Santa Fe Dam)  
 LOCATION - 455.0 feet north of Spring Street, 4.0 miles east of Signal Hill, Long Beach  
 REGULATION - partially regulated by Cogswell, San Gabriel, Morris, Santa Fe, Big Dalton, San Dimas, Puddingstone Diversion, Puddingstone, Live Oak, Thompson Creek, and Whittier Narrows Dams, several debris basins, MWD outlet, and several spreading grounds.  
 CHANNEL - concrete, trapezoidal section with a low-flow channel.  
 CONTROL - channel forms control  
 LENGTH OF RECORD -  
 at Station F42-R, February 6, 1928, to May 26, 1964  
 at Station F42B-R, November 16, 1964, to date  
 REMARKS - high flows into Whittier Narrows Reservoir are partially diverted to the Rio Hondo



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F42B-R

DAILY DISCHARGE in second-feet of SAN GABRIEL RIVER ABOVE SPRING ST. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	40	41	17.4	D 22	12.6	363	60	69	40	70	55	61
2	42	31	17.9	D 22	27	105	62	65	34	56	55	62
3	45	22	18.5	D 18.5	46	188	64	70	36	58	56	58
4	44	31	40	D 19	35	67	107	70	53	39	64	62
5	24	30	34	D 22	44	65	63	62	56	28	70	87
6	21	44	27	D 21	D 260	48	66	68	31	33	64	61
7	23	46	16.3	D 21	D 34	45	58	58	27	32	65	61
8	44	45	12.2	D 21	D 160	48	69	64	36	62	62	64
9	44	29	17.7	D 21	D 240	47	66	62	59	61	63	64
10	40	19	29	D 21	D 46	40	64	66	98	50	59	650
11	42	19	25	D 21	D 32	47	62	70	46	41	62	506
12	21	34	34	D 21	D 32	48	75	70	62	31	66	59
13	21	34	28	D 21	D 32	47	88	66	41	31	65	53
14	19.5	44	25	D 21	D 32	31	61	72	32	54	63	60
15	36	47	16.3	D 28	D 32	14	64	67	63	66	61	64
16	37	31	17.4	28	D 32	19.5	59	66	62	68	64	62
17	45	19	22	27	D 32	61	62	65	64	63	66	58
18	33	15.4	21	29	D 32	61	59	59	64	A 59	65	57
19	17.9	18.5	24	31	D 32	61	E 57	64	57	A 59	66	34
20	17.4	20	24	26	D 32	60	E 59	64	50	A 59	64	39
21	14	18.5	24	19	29	39	E 62	66	31	A 59	65	50
22	31	17.4	24	23	33	27	67	66	57	A 59	61	40
23	27	19.5	24	21	35	29	70	63	64	A 59	64	41
24	38	18.5	33	17.4	40	62	68	64	59	A 59	65	42
25	33	18.5	34	16.3	27	66	66	66	68	A 59	62	29
26	17.9	19	37	21	29	61	68	66	46	A 59	63	A 40
27	19.5	17.9	38	41	31	50	68	64	29	A 59	64	A 40
28	17.4	33	37	34	29	27	67	63	27	57	63	A 40
29	17.9	16.8	35	17.9	33	28	67	59	71	56	61	A 40
30	36	16.3	D	33	13.5	29	68	57	64	57	61	A 40
31	19		D 27	12.6		31		62		54	63	

MEAN	29.9	27.2	26.2	22.5	52.1	61.7	66.5	65.2	50.9	53.4	62.8	88.1
ACRE- FEET	1,040	1,620	1,610	1,380	3,000	3,800	3,260	4,010	3,030	3,290	3,860	5,240

YEAR OR PERIOD MEAN ACRE-FEET 50.5  
36,640

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F42B-R

DAILY DISCHARGE in second-feet of SAN GABRIEL RIVER ABOVE SPRING ST. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	60	51	67	55	34	28	63	39	32	54	A 47	57
2	60	37	58	42	34	34	65	24	41	44	A 46	50
3	40	60	61	816	31	55	40	34	31	30	A 45	43
4	31	61	58	56	30	50	39	57	29	26	A 44	40
5	58	55	37	96	26	70	65	57	28	29	A 43	25
6	45	43	32	324	25	37	60	46	30	37	48	29
7	54	31	45	359	29	29	63	59	29	55	32	57
8	49	36	59	79	29	50	64	A 325	25	27	27	59
9	50	59	63	44	49	51	31	A 137	30	51	34	59
10	50	64	67	36	25	55	25	62	38	22	54	58
11	65	52	64	48	30	46	28	68	27	28	45	41
12	40	161	60	72	41	33	28	46	25	41	50	33
13	50	62	68	62	21	29	28	28	28	49	58	62
14	50	40	68	71	23	31	28	31	34	54	44	65
15	50	36	62	68	23	36	28	31	40	64	36	62
16	50	55	65	63	26	120	25	29	39	61	57	58
17	37	54	68	48	36	49	25	39	50	36	636	63
18	47	61	66	62	20	56	30	A 46	48	32	99	37
19	63	59	61	57	51	60	29	A 53	36	57	41	31
20	63	56	65	67	30	36	29	60	28	58	48	61
21	64	40	66	61	26	29	43	50	32	60	37	56
22	63	46	51	34	25	65	69	38	42	53	37	63
23	63	58	48	32	38	62	69	31	43	61	48	62
24	62	60	43	34	75	68	66	43	42	40	52	60
25	68	42	28	33	55	165	73	42	34	34	60	34
26	72	28	25	62	29	44	60	42	25	40	49	29
27	71	29	29	46	42	24	73	48	29	42	45	49
28	69	28	34	59	40	25	73	60	36	56	55	62
29	64	29	44	58		23	72	34	51	50	41	59
30	63	60	227	45		45	83	27	61	A 49	63	60
31	76		91	34		49		38		A 48	64	

MEAN	56.4	51.8	60.6	97.5	33.7	50.1	49.1	55.6	35.4	44.8	67.3	50.8
ACRE- FEET	3,470	3,080	3,730	6,000	1,870	3,080	2,920	3,410	2,110	2,750	4,130	3,020

YEAR  
OR  
PERIOD      MEAN  
ACRE-FEET      54.4  
39,570

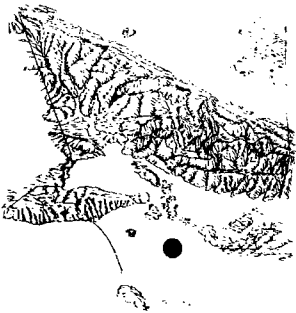
STATION DATA SUMMARY

STA. NO. F42B-R  
SAN GABRIEL RIVER ABOVE SPRING STREET

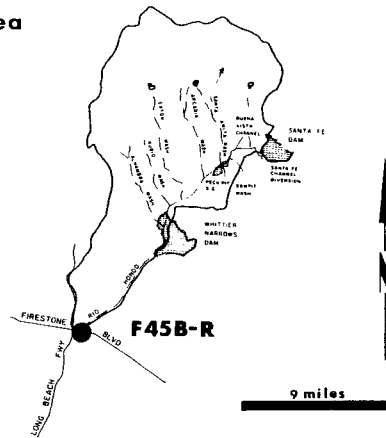
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW			SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW		
					MON	DAY	CFS						MON	DAY	CFS
1927-28	0	0	0	0				1960-61	204	0	0.6	448	1	26	1780
1928-29	0	0	0	0				1961-62	2940	0	32.0	23070	2	11	7350
1929-30	0	0	0	0				1962-63	1530	0	7.3	5290	3	17	4120
1930-31	0	0	0	0				1963-64	751	0	4.4	3160	1	22	2570
1931-32	1270	0	9.0	6560	2	9	4490	1964-65B	1070	0	12.1	8770	4	9	4540
1932-33	170	0	1.1	809	1	20	2250	1965-66	630	0	10.2	7400	2	6	1950
1933-34	4860	0	17.1	12370	1	1	15000	1966-67	1190	0	37.1	26850	1	23	4760
1934-35	463	0	3.3	2380	10	17	3390	1967-68	847	+	9.2	6720	11	21	3280
1935-36	220	0	1.6	1190	2	12	1910	1968-69	9350	+	286	207300	1	25	11700
1936-37	1850	0	18.7	13510	2	14	4560	1969-70	1760	+	24.2	17520	3	5	5550
1937-38	14500	0	122	88020	3	2	27000E	1970-71	2700	+	27.1	19610	12	19	5550
1938-39	265	0	1.5	1080	12	19	956	1971-72	1980	0.1	82.2	39900	12	24	8580
1939-40	192E	0	2.0	1460	2	3	1400	1972-73	2710	10.6	70.6	51100	1	16	5680
1940-41	1710	0	91.0	65890	3	13	4830	1973-74	3730	10.6	63.9	46220	1	4	6090
1941-42	148	0	15.0	10830	12	11	277	1974-75	2190	6.1	48.1	34850	12	4	7190
1942-43	9570	0	280	175100	1	23	14600	1975-76	660	12.6	50.5	36640	9	10	3890
1943-44	5570	0	99.4	72200	2	22	15000	1976-77	816	20	54.7	39600	1	3	4460
1944-45	742	0	30.8	22280	2	2	1910								
1945-46	1460	0	17.4	12590	12	23	3300								
1946-47	2520	0	33.3	24100	1	1	2740								
1947-48	0	0	0	0											
1948-49	0	0	0	0											
1949-50	0	0	0	0											
1950-51	0	0	0	0											
1951-52	STATION OUT			21100E											
1952-53	101	0	0.3	220	12	2	301								
1953-54	445	0	2.9	2060	2	13	3520								
1954-55	240	0	1.1	820	1	18	1640								
1955-56	4300	0	12.9	9390	1	26	12500								
1956-57	393	0	1.2	896	1	13	1760								
1957-58	1510	0	31.6	22890	4	7	5220								
1958-59	615	0	3.2	2340	1	6	2940								
1959-60	355	0	2.6	1860	1	12	2180								

B = RECORD BEGAN AT B LOCATION 11-16-64.  
+ = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0.  
E = ESTIMATE

**STATION NO. F 45B-R  
RIO HONDO  
above Stewart and Gray Road**



**drainage area**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from cable car  
 DRAINAGE AREA - 140 square miles (excludes area above Santa Fe Dam)  
 LOCATION - 0.6 mile upstream of the confluence of Rio Hondo and Los Angeles River, 1.5 miles west of Downey  
 REGULATION - partially regulated by Sierra Madre, Santa Anita, Sawpit, Eaton, Santa Fe, and Whittier Narrows Dams, several debris basins, and spreading grounds  
 CHANNEL - concrete, with rip-rap side slopes. trapezoidal in section  
 CONTROL - channel forms control  
 LENGTH OF RECORD -  
 at Station F45-R, March 1, 1928, to April 18, 1951  
 at Station F45B-R, October 31, 1951 to date  
 REMARKS - subject to diversions from Eaton Creek, Monrovia Creek, Sawpit Creek, Little Santa Anita Canyon and other locations for irrigation and spreading. High flows from San Gabriel River may flow into Rio Hondo above Whittier Narrows Dam.

**cross-section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F45B-R

DAILY DISCHARGE in second-feet of RIO HONDO ABOVE STEWART AND GRAY ROAD FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.6	0.1	0.1	+	0.1	112	0.1	0.1	0.1	0.1	0.1	0.1
2	0.6	0.1	0.1	+	0.1	385	0.1	0.1	0.1	0.1	0.1	0.1
3	0.3	0.1	0.1	+	0.1	69	7.3	+	0.1	0.1	0.1	0.1
4	0.1	0.1	0.1	+	5.7	0.1	18.9	0.1	0.1	0.1	0.1	4.6
5	0.3	0.1	0.1	+	59.1	0.1	0.1	0.1	0.1	0.1	0.1	25.4
6	3.9	0.1	0.1	0.1	143	0.1	+	0.1	0.1	0.1	0.1	2.0
7	0.8	0.1	0.1	0.1	5.7	0.1	+	0.1	0.1	0.1	0.1	0.5
8	+	0.1	0.1	0.1	39.9	0.1	1.2	0.1	0.3	0.1	0.1	0.1
9	+	0.1	0.1	0.1	920	4.1	0.1	0.1	0.1	0.1	0.1	0.1
10	+	0.1	0.1	0.1	554	12.9	+	0.1	5.1	0.1	0.1	229
11	14.7	0.1	0.1	0.1	12.1	0.1	0.1	0.1	0.1	0.1	0.1	574
12	+	0.1	8.1	0.1	0.1	+	22.8	0.1	0.1	0.1	0.1	0.1
13	+	0.1	0.1	0.1	0.1	+	15.8	0.1	0.1	0.3	0.1	0.1
14	+	0.1	+	0.1	0.1	0.1	+	0.1	0.1	0.1	0.1	0.1
15	0.1	0.1	+	0.1	0.1	+	0.3	0.1	0.1	0.1	0.3	0.1
16	0.1	0.1	+	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
17	0.1	0.1	0.1	0.1	0.1	0.1	+	0.1	0.1	0.1	0.1	0.1
18	0.1	0.1	+	0.1	0.1	0.1	+	0.1	0.1	0.1	0.1	0.1
19	0.1	0.1	0.1	0.1	0.1	+	+	0.1	0.1	0.1	0.1	0.1
20	0.1	0.1	0.1	0.1	0.1	+	+	0.1	0.1	0.1	0.1	0.1
21	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
22	0.1	0.1	0.1	0.1	0.1	+	0.1	0.1	0.3	0.1	0.1	0.1
23	+	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.1
24	+	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1	69.2
25	+	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.1	0.1	0.7
26	+	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.1	0.1
27	+	0.1	0.1	0.1	0.1	0.1	+	0.1	0.1	0.1	0.1	0.1
28	+	0.1	0.1	0.1	0.1	0.1	+	0.1	0.3	0.1	0.1	0.1
29	0.1	+	0.1	0.1	0.1	+	+	0.1	0.5	0.1	0.1	0.1
30	4.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.1
31	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

MEAN	0.9	0.1	0.3	0.1	59.7	18.9	2.3	0.1	0.3	0.1	0.1	30.2
ACRE- FEET	53	5.8	21.2	5.2	3,440	1,160	134	5.9	19.8	7.3	7.7	1,800

YEAR OR PERIOD MEAN ACRE-FEET 3.4  
6,660

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F45B-R

DAILY DISCHARGE in second-feet of RIO HONDO ABOVE STEWART AND GRAY ROAD FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.1	0.1	0	0.1	0.1	0.3	0.5	7.2	0.1	0	0.1	0.1
2	0.1	0.1	0	22.6	0.1	0.1	0.5	0.7	0.1	0	0.1	0.1
3	0.1	0.1	0	104	0.1	0.1	0.3	0.3	0.1	0.1	0.1	0.1
4	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.5	0.1	0.1	0.1	0.1
5	0.1	0.1	0.1	83.3	0.1	0.1	0.5	0.3	0.3	0.1	0.1	0.1
6	0.1	0.1	0.1	72.4	0.3	0.1	0.5	0.2	0.1	0.1	0.1	0.1
7	0.1	0.1	0	99	0.1	0.1	0.5	0.2	0.1	0	0.1	0.1
8	0.1	0.1	0	1.8	0.1	0.3	0.3	431	0.1	0.1	0	0.1
9	0.1	0.1	0.1	0.3	0.3	0.7	0.5	216	0.1	0.1	0.1	0.1
10	0.1	0.1	0.1	0.3	0.1	0.1	0.7	13.7	0.1	0	0.1	0.1
11	0.1	3.6	0	0.1	0.1	0.1	0.7	2.6	0.1	0	0.1	0.1
12	0.1	88.6	0.1	0.1	0.7	0.3	0.7	1.2	0.1	0.1	0.1	0.1
13	0.1	0.1	0.1	0.1	1.4	0.1	0.5	0.1	0.1	0.1	0.1	0.3
14	0.1	0.1	0.1	0.1	2.6	0.3	0.1	0.1	0.1	0.1	0.1	0.3
15	0.1	0	0.1	0.1	3.2	0.3	0.1	0.1	0.1	0.1	0.1	0.1
16	0.1	0.1	0	0.1	0.5	72.3	0.1	0.1	0.1	0.1	6.1	0.1
17	0.1	0.1	0	0.1	0.5	1.4	0.1	0.1	0.1	0.1	619	0.1
18	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.1	1.8	0.1
19	0.1	0.1	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.3	0.1	0.3
20	0.1	0.1	0.1	4.0	0.5	0.1	0.1	0.1	0.1	0.3	0.1	0.3
21	0.1	0.1	0.1	8.0	0.3	0.1	0.1	0.1	0.1	0.3	0.1	0.1
22	0.1	0.1	0	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.3
23	310	0.1	0.1	0.1	25.4	0.3	0.1	2.3	0.1	0.3	0.1	0.5
24	0.1	0.1	0.1	0.1	10.8	6.0	0.1	1.8	0.1	0.1	0.1	0.3
25	0.1	0.1	0	0.1	0.7	159	0.1	0.1	0.1	0.3	0.1	0.1
26	0.1	0.1	0	0.1	0.3	0.9	0.5	0.1	0.1	0.3	0.1	0.1
27	0	0	0	0.1	0.5	0.1	0.7	0.1	0.1	0.1	0.1	0.1
28	0	0	0	0.1	1.0	0.3	0.5	0.5	0.1	0.1	0.1	0.3
29	0.1	0	0.5	0.1		0.1	0.5	0.1	0.1	0.1	0.1	0.3
30	0.1	0	90.1	0.1		0.1	0.5	0.1	0	0.1	0.3	0.3
31	0.1		4.5	0.1		0.1		0.1		0.3	0.1	
MEAN	10.1	3.1	3.1	12.8	1.8	7.9	0.3	21.9	0.1	0.1	20.3	0.2
ACRE- FEET	620	187	192	789	101	484	20.6	1,350	6.1	7.9	1,250	10.3

YEAR OR PERIOD MEAN ACRE-FEET 6.8  
5.020

STATION DATA SUMMARY

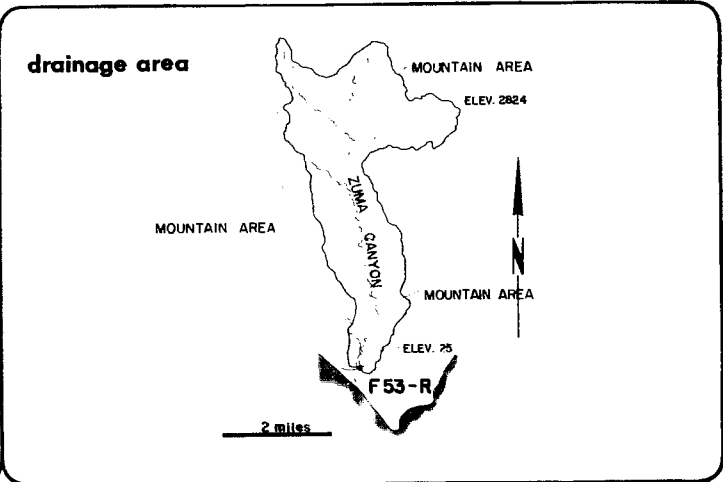
STA. NO. F45B-R  
RIO HONDO ABOVE STEWART AND GRAY ROAD

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK MON	FLCW DAY	FLOW CFS	SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK MON	FLOW DAY	FLOW CFS
1927-28	*	0	*	269*	3	6	4.0*	1960-61	115	0	1.2	831	11	26	2090
1928-29	248	0	3.4	2460	4	4	912	1961-62	2080	0	31.4	22780	2	19	7100
1929-30	235	0	2.8	2000	3	15	743	1962-63	620	0	4.5	3280	2	9	4240
1930-31	335	0	2.6	1900	2	4	841	1963-64	190	0	2.4	1730	1	22	2060
1931-32	3440	0	27.4	19920	2	9	4610	1964-65	1130	0	7.3	5310	4	9	8780
1932-33	971	0	6.2	4450	1	19	2730	1965-66	4810	*	95.8	69390	12	29	19000
1933-34	5810	0	23.5	17030	1	1	16000	1966-67	5210	*	26.6	21530	1	24	20100
1934-35	667	0	8.3	6000	4	8	3450	1967-68	4300	*	25.3	18360	3	8	17900
1935-36	472	0	5.8	4220	2	12	3160	1968-69	23100	*	42.4	307100	1	25	46900
1936-37	1460	0	37.1	26870	2	14	4800	1969-70	964	*	10.0	7220	2	28	7540
1937-38	12700	0	238	172100	3	3	24400E	1970-71	2430	*	13.1	9520	11	29	9350
1938-39	910	0	13.2	9540	12	18	5260	1971-72	2420	*	6.0	4409	12	24	11400
1939-40	442	0	6.7	4850	1	8	1930	1972-73	2550	*	21.9	15860	2	11	15180
1940-41	3690	0	129	93260	3	4	6420	1973-74	3360	*	15.4	11180	1	7	11710
1941-42	564	0	9.3	6730	12	10	4240	1974-75	303	*	9.5	6910	12	4	13250
1942-43	4660	0	57.9	41910	1	23	11860	1975-76	920	*	9.4	6660	9	11	9820
1943-44	2570E	0	36.9	26820	2	22	6670	1976-77	619	0	6.9	5320	10	23	2890
1944-45	492	0	11.7	8460	11	11	4500								
1945-46	1130	0	15.6	11280	12	22	4270								
1946-47	923	0	22.1	16030	11	13	5950								
1947-48	425	0	4.8	3510	3	24	2880								
1948-49	268	0	2.1	1490	1	20	713								
1949-50	402	0	3.9	2840	1	8	1790								
1950-51	135	0	1.1	781	1	29	1080								
1951-52	2430	0	35.9	26040	1	16	9040								
1952-53	571	0	4.8	3450	11	15	4600								
1953-54	1780	0	14.9	10760	2	13	8860								
1954-55	753	0	11.1	8300	1	18	4160								
1955-56	4910	0	20.0	14540	1	26	11600								
1956-57	967	0	6.4	4640	2	23	6560								
1957-58	2230	0	41.8	30260	2	19	10800								
1958-59	915	0	5.4	3900	1	6	11000								
1959-60	219	0	3.3	2370	1	12	3030								

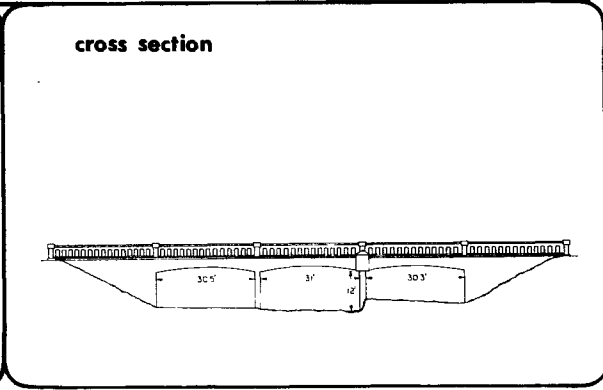
B = RECORD BEGAN AT B LOCATION 11-20-51.  
\* = RECORD INCOMPLETE  
+ = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0.  
E = ESTIMATE



**STATION NO. F53-R  
DUME CREEK  
at Pacific Coast Highway**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - low flows measured by wading. High flows measured from highway bridge.  
 DRAINAGE AREA - 8.8 square miles  
 LOCATION - on the downstream side of Pacific Coast Highway bridge near Dume Point about 0.2 mile from Pacific Ocean.  
 REGULATION - none  
 CHANNEL - sand and gravel  
 CONTROL - channel forms control  
 LENGTH OF RECORD - January 15, 1930 to November 26, 1937, November 3, 1938 to date.



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F53-R

DAILY DISCHARGE in second-feet of DUME CREEK AT PACIFIC COAST HIGHWAY FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
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	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	0.1
31	0	0	0	0	0	0	0	0	0	0	0	0

MEAN	0	0	0	0	0	0	0	0	0	0	0	+
ACRE- FEET	0	0	0	0	0	0	0	0	0	0	0	0.2

YEAR OR PERIOD \_\_\_\_\_ MEAN ACRE-FEET \_\_\_\_\_ + 0.2

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F53-R

DAILY DISCHARGE in second-feet of OLME CREEK AT PACIFIC COAST HIGHWAY FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
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	6.8	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	5.5	0	0	0	0	0	0	0	0
7	0	0	0	7.3	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	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	0	0	0
MEAN	0	0	0	0.6	0	0	0	0	0	0	0	0
MEAN	0	0	0	38.9	0	0	0	0	0	0	0	0

YEAR OR PERIOD MEAN ACRE-FEET + 38.9

STATION DATA SUMMARY

STA. NO. F53-R  
OLME CREEK AT PACIFIC COAST HIGHWAY

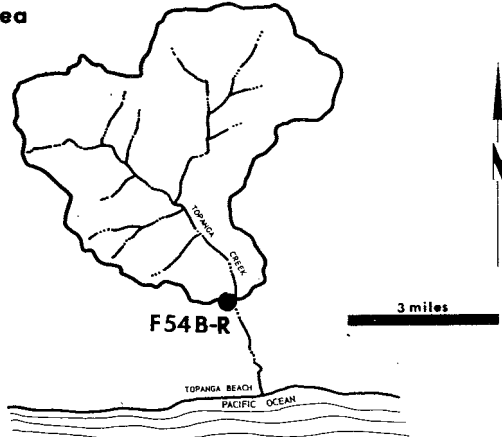
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK MON	FLCW DAY	CFS	SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK MON	FLOW DAY	CFS
1929-30	100	0	0.3	213	1	15	426	1960-61	0	0	0	0			0
1930-31	40	0	0.2	127	2	4	205	1961-62	455	0	3.8	2770	2	10	705
1931-32	94	0	1.0	726	12	28	425	1962-63	2.3	0	+	7.9	3	16	16
1932-33	15	0	0.1	81	1	19	110	1963-64	0	0	0	0			0
1933-34	R39	0	3.1	2270	12	31	2750	1964-65	20	0	0.1	72	4	9	153
1934-35	47	0	0.2	176	1	5	409	1965-66	439	0	2.9	2020	12	29	1220
1935-36	26	0	0.3	202	2	14	205	1966-67	203	0	3.2	2300	1	24	1020
1936-37	230	0	2.6	1900	2	6	624	1967-68	118	0	0.8	604	3	8	465
1937-38					3	2	N.D.	1968-69			***	1	25	2600	
1938-39	13	0	+	31	9	25	115	1969-70	31	0	0.4	266	3	5	134
1939-40	39	0	0.3	227	2	2	183	1970-71	91	0	0.9	625	10	29	315
1940-41	230	0	9.4	6850	1	24	876	1971-72	52	0	0.2	117	12	27	278
1941-42	0.4	0	+	28	12	28	2.7	1972-73	192	0	1.5	1050	2	11	528
1942-43	666	0	4.2	3020	1	22	1440	1973-74	466	0	1.8	1290	1	7	649
1943-44	163	0	2.2	1570	2	20	627	1974-75	65	0	0.3	232	12	4	235
1944-45	11	0	+	23	2	2	65	1975-76	0.1	0	+	0.2	9	29	2.4
1945-46	23	0	0.1	68.2	12	23	142	1976-77	7.3	0	0.05	39	1	3	47
1946-47	73	0	0.3	241	11	20	490								
1947-48	0	0	0	0			0								
1948-49	0	0	0	0			0								
1949-50	0	0	0	0			0								
1950-51	0	0	0	0			0								
1951-52	769	0	9.0	6540	1	15	2010								
1952-53	6.1	0	0.1	34	12	2	30								
1953-54	224	0	0.7	529	2	13	989								
1954-55	0	0	0	0			0								
1955-56	301	0	1.0	738	1	26	560								
1956-57	24	0	0.1	74	2	23	120								
1957-58	133	0	4.2	3050	2	25	466								
1958-59	24	0	0.1	55	2	16	159								
1959-60	0.6	0	+	1.2	2	1	11								

\* = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0  
 \*\* = STATION DESTROYED BY FLCCD OF 3-2-38  
 N.D. = NOT DETERMINED  
 \*\*\* = RECORD NOT COMPUTED

**STATION NO. F 54B-R  
TOPANGA CREEK  
above Mouth of Canyon**

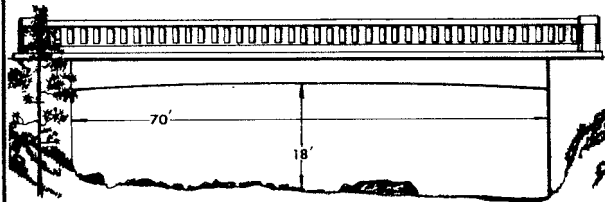


**drainage area**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading  
 DRAINAGE AREA - 18.0 square miles  
 LOCATION - downstream side of Topanga Canyon Road  
 bridge, 2.0 miles north of Topanga Beach  
 REGULATION - none  
 CHANNEL - rock and gravel, natural section  
 CONTROL - none  
 LENGTH OF RECORD -  
 at Station F54-R, January 1, 1930, to June 4, 1940  
 at Station F54B-R, June 5, 1940, to date

**cross-section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F54B-R

DAILY DISCHARGE in second-feet of TOPANGA CREEK ABOVE MOUTH OF CANYON FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.2	0.3	0.2	0.2	0.2	3.2	0.2	0.2	0.1	+	0.1	+
2	0.2	0.2	0.2	0.2	0.2	1.9	0.2	0.2	0.1	+	0.1	+
3	0.2	0.2	0.2	0.2	0.2	2.9	0.2	0.2	0.1	0.1	+	0.1
4	0.1	0.2	0.2	0.2	0.4	0.7	0.4	0.2	0.1	0.1	+	0.1
5	0.1	0.2	0.2	0.2	0.5	0.7	0.4	0.2	0.1	0.1	+	0.1
6	0.1	0.2	0.2	0.2	1.4	0.4	0.2	0.2	0.1	0.1	+	0.1
7	0.1	0.2	0.2	0.2	0.3	0.4	0.2	0.2	0.1	+	+	0.1
8	0.1	0.2	0.2	0.2	1.9	0.4	0.2	0.2	0.1	+	0.1	0.1
9	0.1	0.2	0.2	0.2	24	0.3	0.2	0.2	0.1	+	0.1	0.1
10	0.1	0.2	0.2	0.2	5.4	0.3	0.2	0.2	0.1	0.1	0.1	2.7
11	0.5	0.2	0.2	0.2	0.7	0.4	0.2	0.2	0.1	0.1	0.1	1.5
12	0.4	0.2	0.2	0.2	0.5	0.3	0.2	0.2	0.1	0.1	0.1	0.4
13	0.4	0.2	0.2	0.2	0.4	0.3	0.4	0.2	0.1	0.1	0.1	0.1
14	0.2	0.2	0.2	0.2	0.4	0.4	0.2	0.1	0.1	0.1	0.1	0.1
15	0.2	0.2	0.2	0.2	0.4	0.3	0.2	0.1	0.1	0.1	+	0.2
16	0.2	0.2	0.2	0.2	0.3	0.4	0.2	0.1	0.1	0.1	+	0.1
17	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.1	0.1	0.1	+	0.1
18	0.2	0.1	0.2	0.2	0.2	0.4	0.2	0.1	0.1	0.1	+	0.1
19	0.2	0.1	0.2	0.2	0.2	0.4	0.2	0.1	0.1	0.1	+	0.2
20	0.2	0.1	0.2	0.2	0.2	0.4	0.2	0.1	+	0.1	+	0.2
21	0.2	0.1	0.2	0.2	0.2	0.4	0.2	0.1	+	0.1	+	0.2
22	0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.1	+	0.1	+	0.2
23	0.2	0.2	0.2	0.2	0.3	0.4	0.2	0.1	+	0.1	+	0.2
24	0.1	0.2	0.2	0.2	0.3	0.4	0.2	0.1	+	0.1	+	0.2
25	0.1	0.2	0.2	0.2	0.3	0.4	0.2	0.1	+	0.1	+	0.2
26	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.1	+	0.1	+	0.2
27	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.1	+	0.1	+	0.1
28	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.1	+	0.1	+	0.1
29	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.1	+	0.1	+	0.2
30	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	+	0.1	+	0.2
31	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	+	0.2
MEAN	0.2	0.2	0.2	0.2	1.4	0.6	0.2	0.1	0.1	0.1	+	0.3
ACRE- FEET	11.5	11.7	12.3	12.3	81.7	36.1	13.3	8.7	3.6	5.0	1.9	16.3

YEAR OR PERIOD \_\_\_\_\_ MEAN ACRE-FEET \_\_\_\_\_ 0.3  
 214

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F54B-R

DAILY DISCHARGE in second-feet of TOPANGA CREEK ABOVE MOUTH OF CANYON FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.1	0.1	0.1	1.1	0.4	0.3	0.4	0.2	0.2	0.1	0.1	0.1
2	0.1	0.1	0.1	6.9	0.4	0.3	0.4	0.2	0.2	0.1	0.1	0.1
3	0.1	0.1	0.1	30	0.4	0.3	0.4	0.2	0.2	0.1	0.1	0.1
4	0.2	0.1	0.1	1.1	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.1
5	0.2	0.1	0.1	0.6	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.1
6	0.2	0.1	0.1	17.9	0.3	0.2	0.3	0.2	0.1	0.1	0.1	0.1
7	0.2	0.1	0.1	24	0.3	0.2	0.3	0.6	0.1	0.1	0.1	0.1
8	0.2	0.1	0.1	3.6	0.3	0.2	0.3	15.1	0.1	0.1	+	0.1
9	0.2	0.1	0.1	1.7	0.3	0.2	0.3	10.6	0.1	0.1	0.1	0.1
10	0.1	0.1	0.1	0.9	0.3	0.2	0.4	2.2	0.1	0.1	0.1	0.1
11	0.1	0.1	0.1	0.7	0.2	0.2	0.3	1.0	0.1	0.1	+	0.1
12	0.1	1.1	0.1	0.6	0.2	0.2	0.4	0.8	0.1	0.1	+	0.1
13	0.1	0.2	0.1	0.4	0.3	0.2	0.4	0.6	0.1	0.1	+	0.1
14	0.1	0.2	0.1	0.4	0.3	0.2	0.4	0.5	0.1	0.1	+	0.1
15	0.1	0.2	0.1	0.4	0.3	0.2	0.4	0.4	0.1	0.1	+	0.1
16	0.1	0.2	0.1	0.4	0.3	2.6	0.4	0.3	0.1	0.1	+	0.1
17	0.1	0.2	0.1	0.3	0.3	1.2	0.3	0.3	0.1	0.1	3.6	0.1
18	0.1	0.2	0.1	0.3	0.3	0.5	0.4	0.3	0.1	0.1	0.8	0.1
19	0.1	0.1	0.1	0.3	0.3	0.4	0.4	0.3	0.1	0.1	0.2	0.1
20	0.1	0.1	0.1	0.3	0.3	0.4	0.3	0.3	0.1	0.1	0.1	0.1
21	0.1	0.1	0.1	0.3	0.3	0.4	0.2	0.3	0.1	0.1	0.1	0.1
22	0.1	0.1	0.1	0.4	0.3	0.3	0.2	0.3	0.1	0.1	0.1	0.1
23	0.1	0.1	0.1	0.4	0.4	0.3	0.2	0.3	0.1	0.1	0.1	0.1
24	0.1	0.1	0.1	0.4	0.4	0.4	0.2	0.3	0.1	0.1	0.1	0.1
25	0.1	0.1	0.2	0.4	0.4	6.0	0.2	0.3	0.1	0.1	0.1	0.1
26	0.1	0.1	0.2	0.4	0.3	1.1	0.2	0.3	0.1	0.1	0.1	0.1
27	0.1	0.1	0.2	0.4	0.3	0.6	0.2	0.3	0.1	0.1	0.1	0.1
28	0.1	0.1	0.2	0.5	0.3	0.6	0.2	0.2	0.1	0.1	0.1	0.1
29	0.1	0.1	0.2	0.6		0.5	0.2	0.2	0.1	0.1	0.1	0.1
30	0.1	0.1	2.6	0.4		0.4	0.2	0.2	0.1	0.1	0.1	0.1
31	0.1		1.7	0.4		0.4		0.2		0.1	0.1	0.1
MEAN	0.1	0.2	0.2	3.1	0.3	0.6	0.3	1.2	0.1	0.1	0.2	0.1
MEAN FEET	7.3	9.1	15.3	191	17.9	39	18	74	6.9	6.2	1.3	5.9

YEAR OR PERIOD MEAN ACRE-FEET 0.5  
404

STATION DATA SUMMARY

STA. NO. F54B-R  
TOPANGA CREEK ABOVE MOUTH OF CANYON

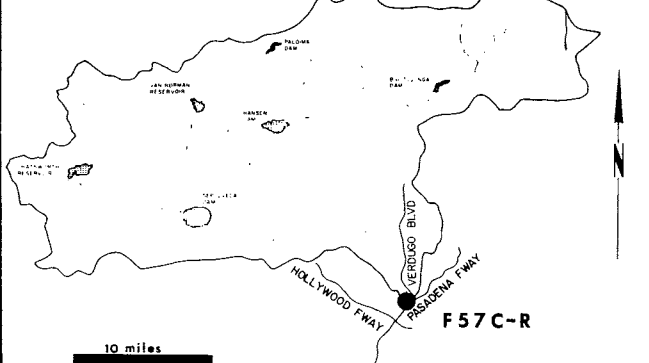
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	MON	TUE	WED	THUR	FRID	SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	MON	TUE	WED	THUR	FRID
1929-30	*	*	*	647*	3	14	340	1962-63	66	+	0.6	454	2	9	569				
1930-31	186	+	1.0	705	2	4	386	1963-64	17	+	0.2	178	1	21	196				
1931-32	409	+	4.9	3590	2	8	1250	1964-65	148	+	1.2	886	4	9	716				
1932-33	542	+	3.1	2240	1	19	1430	1965-66	1120	+	10.0	7270	12	29	3500				
1933-34	1590	0	9.9	6420	12	31	4510	1966-67	569	0.1	7.0	5070	1	24	2280				
1934-35	130	+	1.9	1360	1	5	1200	1967-68	136	0.1	2.2	1570	3	8	567				
1935-36	77	+	2.0	1490	2	22	528	1968-69	4920	0.1	40.5	29400	1	25	12200				
1936-37	413	+	9.1	6620	3	15	1130	1969-70	84	0	1.2	902	3	4	844				
1937-38	3270	+	21.2	15310	3	2	9300E	1970-71	720	+	6.3	4560	1	29	3020				
1938-39	NO RECORD							1971-72	110	0.2	1.1	809	12	27	588				
1939-40B	183	+	2.9	2080	2	1	1280	1972-73	1140	0.1	8.6	6250	2	11	3840				
1940-41	1100E	+	26.2	18940	2	20	8700E	1973-74	1060	0.1	5.7	4110	1	7	2060				
1941-42	47	+	0.8	540	12	25	385	1974-75	286	0.1	3.0	2200	3	6	1670				
1942-43	1100E	+	12.0	8720	1	22	2200	1975-76	24	+	0.3	214	2	9	72				
1943-44	1100E	0.1	9.6	6970	2	22	5070	1976-77	30	+	1.56	405	1	3	219				
1944-45	176	0.1	1.5	1090	2	2	964												
1945-46	142	+	1.9	1390	12	23	905												
1946-47	86	+	1.4	994	11	20	567												
1947-48	23	0	0.2	168	3	24	276												
1948-49	5.0	+	0.1	99	12	26	63												
1949-50	35	+	0.5	379	12	18	275												
1950-51	2.4	+	0.1	74	1	11	21												
1951-52	1990	0	23.3	16900	1	15	6050												
1952-53	52	+	1.0	725	12	1	702												
1953-54	396	0	2.5	1820	2	13	2090												
1954-55	33	+	0.5	354	1	18	151												
1955-56	337	+	1.4	1030	1	26	1540												
1956-57	69	+	0.5	374	2	23	655												
1957-58	599	+	10.4	7460	4	3	3950												
1958-59	141	+	1.1	785	1	6	1510												
1959-60	76	+	0.6	422	4	27	539												
1960-61	8.1	+	0.1	58	1	26	28												
1961-62	1150	+	10.7	7720	2	10	2790												

B = RECORD BEGAN AT B LOCATION 06-05-40.  
\* = RECORD INCOMPLETE  
+ = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0.  
E = ESTIMATE

**STATION NO. F 57C-R  
LOS ANGELES RIVER  
above Arroyo Seco**

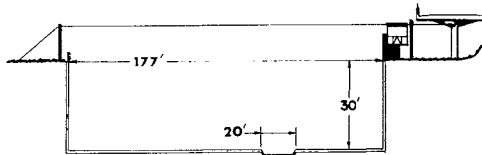


**drainage area**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from cable car  
 DRAINAGE AREA - 511 square miles  
 LOCATION - 800.0 feet above the confluence of the Arroyo Seco with the Los Angeles River, Los Angeles  
 REGULATION - partially regulated by Sepulveda, Pacoima, Big Tujunga, and Hansen Dams; and by several spreading grounds, reservoirs, and debris basins.  
 CHANNEL - concrete, rectangular in section, with a trapezoidal low-flow channel  
 CONTROL - channel forms control  
 LENGTH OF RECORD -  
 at Station F57-R, December 5, 1929, to May 26, 1938  
 at Station F57B-R, April 5, 1939, to December 8, 1939  
 at Station F57C-R, December 8, 1939, to date  
 REMARKS - subject to diversions from Big Tujunga Creek, and other diversions for domestic and irrigation uses

**cross section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F57C-R

DAILY DISCHARGE in second-feet of LOS ANGELES RIVER ABOVE ARROYO SECO FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	15	8.3	7.3	7.4	12.4	639	6.4	11.1	12.4	9.2	5.1	12.4
2	15.5	7.8	8.7	6.4	11.8	682	6.0	9.2	6.9	11.8	4.0	9.8
3	15	10.5	9.2	6.4	11.1	144	10.4	7.4	5.5	8.7	4.3	15.1
4	13	14.3	9.2	8.3	9.1	23.1	337	5.1	8.3	8.7	3.3	15
5	10.5	8.3	12.4	8.3	8.3	836	13	30.8	4.6	5.1	8.7	4.0
6	13.7	8.3	11.3	16.5	1.830	13	8.7	4.3	6.0	11.3	4.0	566
7	17.5	8.3	9.2	6.0	742	12.4	8.7	64.5	8.3	11.1	3.3	22.2
8	18.4	8.7	10.5	5.1	1.480	4.6	63.1	11.1	4.6	8.7	3.3	21.2
9	15.6	8.7	6.9	5.1	3.230	25	24.1	13	4.3	8.7	4.0	21.2
10	14.3	7.8	9.2	4.6	420	77.8	7.4	7.8	60.6	8.7	5.1	2,750
11	110	8.3	7.8	5.5	34.2	18.4	7.4	18.5	44.1	7.4	4.6	814
12	21.3	8.3	216	4.3	18.4	13.7	26.1	9.2	8.3	6.9	5.5	63.6
13	9.2	7.8	91.4	5.5	18.4	9.8	247	9.2	2.7	7.8	6.4	22.2
14	12.4	8.7	13.7	6.4	9.8	8.7	51.1	13	6.0	7.4	5.5	13.6
15	13	8.7	11.8	8.7	8.7	9.2	23.1	9.2	5.5	6.4	183	25.2
16	16.5	8.7	7.4	6.9	7.8	9.8	18.4	11.1	11.1	6.0	56.5	21.2
17	17.5	9.2	7.4	12.4	9.8	8.7	10.5	9.8	15	6.4	13.7	15
18	17.5	10.5	8.3	11.1	11.1	8.3	15.6	10.5	13	4.6	10.5	7.4
19	16.5	8.3	7.4	7.4	13	8.3	10.5	12.4	9.8	5.5	6.4	11.1
20	18.4	9.2	7.8	9.2	8.7	7.8	9.8	7.4	9.2	6.0	5.5	10.5
21	15.6	10.5	7.4	6.9	9.2	6.9	11.8	9.8	10.5	5.1	3.0	11.1
22	11.8	7.8	6.4	7.8	9.8	9.2	21.2	12.4	11.8	5.1	3.0	10.5
23	8.7	7.8	8.3	11.1	9.8	16.5	23.1	19.4	13.7	7.4	3.3	11.8
24	7.4	7.8	7.8	9.2	9.8	11.1	15.6	26.1	16.5	6.9	1.6	43.4
25	10.5	9.8	6.4	9.8	9.8	7.8	23.1	25	15.6	5.5	4.3	30.6
26	14.3	17.5	5.5	12.4	9.8	6.4	23.2	25	11.1	6.4	6.0	11.1
27	16.5	15.6	7.8	12.4	9.8	7.4	24.1	23.1	13	8.3	8.3	7.4
28	8.3	14.3	11.1	13	9.8	6.4	17.5	19.4	14.3	6.0	6.9	8.3
29	8.7	9.8	13.7	10.5	9.8	6.4	12.4	13.7	10.5	6.0	6.9	64.5
30	21.6	6.4	17.5	13	7.4	7.4	13.7	12.4	10.5	7.4	6.4	23.4
31	42.5		10.5	13		6.0		11.8		4.6	9.8	
MEAN	18.3	9.5	18.6	8.7	207	59	36.9	14.1	12.5	7.4	10.3	17.1
MEAN PERIOD	1,120	567	1,148	537	17,530	7,630	2,200	858	742	454	634	10,208

YEAR OR PERIOD MEAN ACRE-Feet 54.7  
 39,720

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F57C-R

DAILY DISCHARGE in second-feet of LOS ANGELES RIVER ABOVE ARROYO SECO FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	8.7	12.5	16.5	39.3	12.8	17.5	9.8	8.2	5.8	14.2	17.5	2.5
2	6.7	14.2	11	527	11	15.6	7.7	9.8	6.2	15.6	15.6	2.5
3	7.2	21.2	11	3,550	12.2	17.5	7.2	6.2	5.8	19.3	11.8	2.2
4	9.2	11	10.4	65.1	11	17.5	7.2	5.4	5.8	19.7	14.2	1.9
5	9.2	9.8	12.2	618	13.5	17.5	8.2	5.8	6.2	21.2	18.4	1.9
6	8.7	10.4	10.6	2,180	15.6	16.5	7.7	6.2	8.7	19.4	18.4	1.9
7	8.2	11.6	12	2,010	11.6	19.1	8.2	128	8.7	16.5	22.2	1.6
8	7.2	11.8	19.4	83.5	11	19.4	8.7	4,710	8.2	22.2	24.1	1.6
9	8.2	11.6	12.2	40.5	10.4	22.2	8.2	2,900	8.2	25	23.1	1.9
10	9.8	12.7	12.2	28.7	10.4	20.3	8.2	135	11.6	21	14.4	3.1
11	10.4	43.3	11.6	19.4	10.4	22.2	8.2	26.4	13.5	22.2	12.8	3.4
12	8.7	1,340	12.2	21.2	10.4	22.2	10.4	49.1	11.6	21.2	11.7	3.8
13	9.2	36.3	14.9	13.5	11	21.2	10.4	18.5	15.6	21.9	8.2	5.4
14	8.7	15.6	11	12.2	12.8	21.2	10.4	11.6	13.5	18.4	6.7	5.4
15	10.4	19.2	10.4	13.8	12.2	20.8	9.2	7.2	14.2	13.5	5.4	6.2
16	8.7	8.7	11	11.6	10.4	1,120	10.4	6.7	20.3	12.2	7.0	5.4
17	8.2	11	11	11	12.2	194	8.2	7.2	16.5	11	4,490	5.8
18	10.4	9.2	11.3	11	11.6	29.2	7.7	6.2	15.6	11	211	5.8
19	12.2	10.4	11.5	13.5	9.8	14.8	5.8	5.8	13.4	13.5	21.7	6.2
20	11	7.7	15.1	19.1	8.2	10.4	5.8	5.4	15.6	14.9	8.7	6.7
21	17.5	10.1	12.8	111	7.2	10.4	7.2	5.4	17.5	12.2	7.2	7.2
22	454	23.1	11.4	20.3	7.2	9.2	5.8	5.0	18.4	12.2	6.2	6.7
23	907	12.1	12.2	12.2	105	8.2	5.4	13.2	17.5	9.8	5.4	8.2
24	23.1	10.4	9.8	12.8	71.7	30.8	5.0	103	15.6	9.8	5.0	7.7
25	15.6	10.4	9.8	12.2	34	1,990	3.4	16.3	13.5	11.6	5.0	8.2
26	11.6	11	8.7	12.2	21.2	54.4	4.6	10.4	12.8	14.2	5.4	7.2
27	8.2	10.4	10.2	12.2	17.5	14.2	5.4	8.7	12.2	16.5	5.4	11.6
28	20.3	8.2	12.3	11.6	17.5	14.2	5.8	6.2	13.5	22.2	5.0	8.2
29	20.3	12.8	13.6	24.7		9.2	5.0	5.4	12.8	24.1	5.0	12.2
30	15.6	11.6	942	16.5		7.7	4.2	5.4	12.5	21.2	5.4	7.2
31	9.2		141	17.5		7.7		5.0		17.5	4.6	

YEAR	54.3	58.3	46.2	308	18.2	123	7.3	266	12.4	16.9	162	5.3
ACRE- FEET	3,340	3,470	2,840	18,950	1,010	7,570	435	16,350	738	1,040	9,960	317

YEAR OR PERIOD MEAN ACRE-FEET 89.8  
66,020

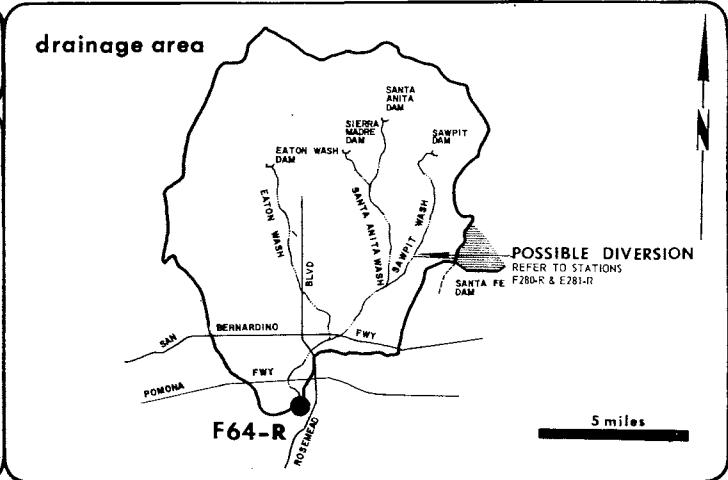
STATION DATA SUMMARY

STA. NO. F57C-R  
LOS ANGELES RIVER ABOVE ARROYO SECO

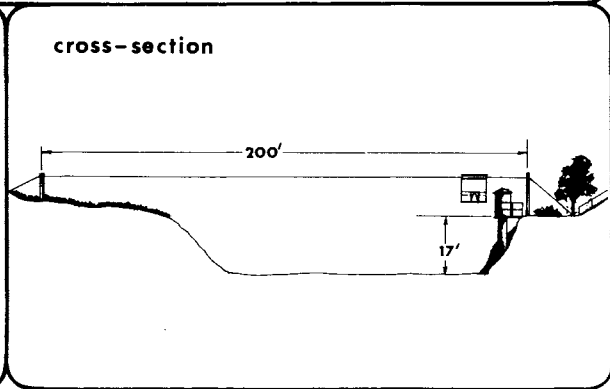
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	FLOW CFS
1929-30	312	0	2.3	1660	3	15	500
1930-31	927	0	5.5	3950	2	4	4540
1931-32	2520	0	21.0	15240	2	3	3020
1932-33	2330	0	14.7	10640	1	19	5780
1933-34	5990	0	41.2	29810	1	1	22000
1934-35	569	0.1	17.3	12550	4	8	2400E
1935-36	322	0.4	7.9	5770	3	30	2540
1936-37	1670	0.4	33.8	24470	2	6	2410
1937-38B	27900	0.6	183	132600	3	2	68000E
1938-39	1950	3.8	58.5	42360	1	5	3710
1939-40C	2070	6.0	54.5	39590	1	8	8900
1940-41	6700	4.2	22.8	165000	2	20	11900
1941-42	1170	22	75.7	54800	12	10	5260
1942-43	7120	15	172	124400	1	23	23900
1943-44	8020	25	151	109800	2	22	14600
1944-45	1160	6.5	51.1	36990	2	2	4900
1945-46	1880	3.4	49.6	35880	12	22	5240
1946-47	896	1.6	43.3	31330	12	25	5320
1947-48	498	3.6	20.5	14890	3	24	4900
1948-49	451	4.2	24.3	17600	12	17	1530
1949-50	804	0.3	14.9	10760	2	6	2840
1950-51	487	0.5	10.8	7840	1	11	3600
1951-52	8130	0.5	149	108000	1	16	25300
1952-53	1370	0.6	25.5	18480	12	20	7270
1953-54	2570	0.2	29.0	21000	2	13	9580
1954-55	1510	0.2	25.2	19270	1	18	6850
1955-56	7290	0.5	49.4	35890	1	26	15300
1956-57	2390	0.2	34.4	24890	2	23	22200
1957-58	4650	0.4	126	91020	2	19	19700
1958-59	3790	0.2	27.6	20230	1	6	17200
1959-60	1420	+	23.3	16910	1	12	8960
1960-61	1690	+	16.6	12000	11	5	7890
1961-62	8510	+	120	86910	2	12	32500
1962-63	3750	+	32.4	23440	2	9	18100
1963-64	1950	+	27.9	20320	1	22	12200
1964-65	2880	+	49.1	35580	4	9	12500
1965-66	12600	0.1	149	107500	12	29	32000
1966-67	7720	0.4	115	82210	11	7	4100
1967-68	4780	3.4	82.2	59710	3	9	30900
1968-69	23400	4.0	425	307400	1	25	41800
1969-70	2760	6.9	65.6	47520	3	4	17000
1970-71	12900	7.4	129	93310	11	29	41500
1971-72	4830	5.4	64.3	46690	12	27	15900
1972-73	9190	6.7	157	114000	1	18	28230
1973-74	12480	5.8	123	88900	1	7	24540
1974-75	5750	4.2	88.6	64120	12	4	27570
1975-76	3230	2.7	54.7	39720	2	9	13900
1976-77	4710	1.6	91.2	66020	1	3	23300

R = RECORD BEGAN AT B LOCATION 05-26-38.  
C = RECORD BEGAN AT C LOCATION 12-08-39.  
+ = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0.  
E = ESTIMATE

**STATION NO. F 64-R**  
**RIO HONDO**  
**above Mission Bridge**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from cable car  
 DRAINAGE AREA - 115 square miles (excludes area above Santa Fe Dam)  
 LOCATION - 1,000 feet above San Gabriel Boulevard, west of Rosemead Boulevard, 2.0 miles northeast of Montebella  
 REGULATION - partially regulated by Sierra Madre, Santa Anita, Sawpit, Eaton, and Santa Fe Dams and several debris basins.  
 CHANNEL - sand and silt, natural in section  
 CONTROL - none  
 LENGTH OF RECORD - July 1, 1928 to date  
 REMARKS - subject to diversions; water purchased from the MWD passes this station for spreading in the coastal basin



**LOS ANGELES COUNTY**  
**FLOOD CONTROL DISTRICT**  
 HYDRAULIC DIVISION

STATION NO. F64-R

DAILY DISCHARGE in second-feet of RIO HONDO ABOVE MISSION BRIDGE FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	
1	1.9	2.5		1.4 B	1.5 B	493	1.5 C	1.0 C	1.8 C	0.8	0.2	2.1	
2	2.1	2.3		2.1 B	1.5 B	386	2.1 C	1.0 C	1.9 C	0.7	1.0	1.5	
3	1.9	2.3		1.5 B	1.5 B	35	4.0 C	1.0 C	1.8 C	0.7	0.5	3.3	
4	1.9	2.5		1.4 B	1.5 B	56	6.3 C	1.0 C	2.0 C	0.5	1.9	6.4	
5	2.1	2.5		1.4 B	1.4 B	167	5.4 C	1.0 C	1.7 C	0.3	2.8	158	
6	14	2.6		1.5 B	1.4 B	650	4.7 B	1.0 B	1.5 C	1.2	0.7	32	
7	9.5	2.3		1.4 B	1.4 B	75	3.4 B	1.0 B	13	1.5	1.2	0.5	4.9
8	3.2	2.3		1.5 B	1.4 B	345	3.4 C	1.0 C	1.7 C	1.5	0.4	3.0	
9	2.8	2.3		1.5 B	1.3 B	592	7.8 B	2.0 C	1.0 C	1.9	0.4	2.5	
10	2.8	2.1		1.4 B	1.3 B	18	22	1.0 C	1.0 C	32	1.5	0.2	1,397
11	41	1.9		1.2 B	1.3 B	3.0 B	7.2 B	1.0 C	1.0 C	1.9	0.8	0.3	1,089
12	4.7	1.9		1.2 B	1.2 B	22.9 B	5.8 B	1.0 C	1.0 C	1.7	1.5	0.2	6.9
13	B 4.0	2.1	B 314	B 1.2	B 2.8	B 4.8	165	1.0 C	1.0 C	1.7	1.2	0.2	3.4
14	B 3.0	1.7	B 2.0	B 1.2	B 2.7	B 3.7	3.8	1.0 C	1.0 C	1.9	1.0	0.2	2.5
15	B 2.0	1.0	B 1.9	B 1.2	B 2.6	B 2.6	8.3	1.0 C	1.0 C	1.4	3.6	49	17
16	B 1.5	B 1.0	B 1.9	B 1.2	B 2.5	3.2	B 3.0	1.2 C	1.9	1.9	5.4	B 1.0	
17	B 1.8	B 1.0	B 1.8	B 1.3	B 2.5	3.0	B 2.5	1.2 C	0.8	1.5	1.2	B 1.0	
18	B 2.1	B 1.1	B 1.8	B 1.4	B 2.5	3.2	B 2.0	1.2 C	2.3	1.0	0.2	B 0.8	
19	B 2.4	B 1.1	B 1.8	B 1.4	B 2.5	3.0	B 1.5	1.2 C	2.3	0.7	0.2	B 0.8	
20	B 2.7	B 1.1	B 1.8	B 1.5	B 2.5	1.9	B 1.2	1.2 C	1.9	0.5	1.7	B 0.6	
21	B 3.0	B 1.2	B 1.8	1.4 B	2.4 B	1.9 B	1.0 C	1.4 C	1.4	2.5	0.7	B 0.6	
22	B 3.3	B 1.2	B 1.7	1.5 B	2.4 B	3.0 B	0.9 C	1.4 C	2.3	2.3	0.3	B 0.5	
23	B 3.6	B 1.2	B 1.7	1.7 B	2.3 B	3.0 B	0.9 C	1.4 C	3.8	2.1	0.3	B 0.5	
24	B 3.4	B 1.2	B 1.7	1.5 B	2.3 B	3.4 B	0.9 C	1.4 C	11	1.7	2.5	22	
25	B 3.2	B 1.2	B 1.7	1.2 B	2.2 B	3.2 B	0.9 C	1.4 C	1.4	0.8	2.6	9.2	
26	B 3.0	B 2.3	B 1.7	1.5 B	2.2 B	3.0 B	0.9 C	1.6 C	0.8	1.5	2.6	3.6	
27	B 2.8	B 0.7	B 1.6	0.7 B	2.1 B	3.0 B	0.9 C	1.6 C	0.8	3.2	2.8	2.6	
28	B 2.6	B 2.1	B 1.6	1.0 B	2.0 B	2.1 B	0.9 C	1.6 C	1.2	2.1	2.1	2.3	
29	B 2.4	B 3.0	B 1.6	0.8 B	2.0 B	2.3 B	1.5 C	1.6 C	1.9	1.0	0.3	2.6	
30	1.7	B 1.2	B 1.6	1.0 B		1.5 B	1.0 C	1.6 C	1.0	0.8	3.2	4.0	
31	6.9	B 1.6	B 0.3			1.5 B		1.6 C		0.2	4.5		

MEAN	5.1	2.0	12	1.3	67.3	33.3	12.7	1.6	3.1	1.3	2.9	93.7
ACRE- FEET	315	121	737	78.7	3,870	2,050	754	98.4	183	81.5	177	5,580

YEAR OR PERIOD      MEAN ACRE-FEET      19.7  
 14,050

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F64-R

DAILY DISCHARGE in second-feet of RIO HONDO ABOVE MISSION BRIDGE FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	2.5	E 0.5	E 0.1	E 1.0	139	E 10	0	0	0	0	0	0
2	2.1	E 0.5	E 0.1	118	139	E 17	0	0	0	0	0	0
3	2.1	E 0.5	E 0.1	731	137	E 5.0	0	0	0	0	0	0
4	1.7	E 0.5	E 0.1	6.3	137	E 3.0	0	0	0	0	0	0
5	2.5	E 0.5	E 0.2	338	137	E 2.0	0	0	0	0	0	0
6	2.1	E 0.5	E 0.1	396	133	E 1.0	0	0	0	0	0	0
7	2.3	E 0.5	E 0.1	396	131	E 0.5	0	0	0	0	0	0
8	2.6	E 0.5	E 0.1	21	131	E 0.4	0	811	0	0	0	0
9	2.4	E 0.5	E 0.1	5.0	129	E 0.3	0	640	0	0	0	0
10	2.0	E 0.5	E 0.1	40.6	129	E 0.2	0	117	0	0	0	0
11	1.6	E 4.7	E 0.1	164	129	E 0.2	0	2.3	0	0	0	0
12	1.3	E 416	E 0.1	162	127	E 0.2	0	5.9	0	0	0	0
13	1.0	E 4.0	E 0.1	153	127	E 0.2	0	4.0	0	0	0	0
14	0.8	E 1.7	E 0.1	147	127	E 0.2	0	2.0	0	0	0	0
15	0.8	E 1.5	E 0.1	147	127	E 0.2	0	1.0	0	0	0	0
16	0.7	E 1.2	E 0.1	145	127	E 232	0	0.5	0	0	0	0
17	0.7	E 0.8	E 0.3	145	127	E 11.9	0	0	0	0	753	0
18	0.6	E 0.6	E 0.1	145	127	E 5.0	0	0	0	0	10.7	0
19	0.6	E 0.5	E 0.1	145	129	E 3.0	0	0	0	0	2.6	0
20	0.6	E 0.3	E 0.1	157	129	E 2.0	0	0	0	0	1.4	0
21	0.5	E 0.2	E 0.1	240	129	E 1.0	0	0	0	0	0.5	0
22	35.4	E 0.1	E 0.1	155	129	E 0.5	0	0	0	0	0	0
23	600	E 0.1	E 0.1	153	191	E 0.2	0	36	0	0	0	0
24	4.9	E 0.1	E 0.1	147	250	E 20.4	0	31.3	0	0	0	0
25	1.9	E 0.1	E 0.1	139	196	E 448	0	2.3	0	0	0	0
26	0.5	E 0.1	E 0.1	141	196	E 25	0	0	0	0	0	0
27	0.5	E 0.1	E 0.1	141	199	E 10	0	0	0	0	0	0
28	0.5	E 0.1	E 0.1	141	146	E 5.0	0	0	0	0	0	0
29	0.5	E 0.1	E 0.1	141	141	E 2.0	0	0	0	0	0	0
30	0.5	E 0.1	180	141		E 1.0	0	0	0	0	0	0
31	0.5	E 0.1	24.1	139		E 0.5	0	0	0	0	0	0

MEAN	21.8	14.6	6.7	168	144	26.1	0	53.3	0	0	24.8	0
ACRE- FEET	1,340	868	411	10,380	8,040	1,600	0	3,280	0	0	1,520	0

YEAR OR PERIOD MEAN ACRE-FEET 38.4  
27,440

STATION DATA SUMMARY

STA. NO. F64-R  
RIO HONDO ABOVE MISSION BRIDGE

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON DAY	FLOW CFS
1928-29	586	6.6	22.0	15980	11 14	2400
1929-30	252	8.5	18.6	13430	3 15	1260
1930-31	662	4.8	22.7	16410	2 3	4040
1931-32	5090	3.3	65.6	47560	2 9	6320
1932-33	1670	7.5	27.1	19650	1 19	4410
1933-34	4690	3.3	40.0	28970	1 1	11800
1934-35	885	8.5	40.4	29230	4 8	3560
1935-36	446	10	28.6	20700	2 12	2890
1936-37	989	9.5	70.3	50900	3 15	4600
1937-38	12600E	11	289	209300	3 2	28000
1938-39	1280	14	42.4	30650	12 18	5220
1939-40	505	13	38.1	27660	1 7	2380
1940-41	3490	16	180	130600	3 4	6570
1941-42	687	17	39.8	28810	12 10	4100
1942-43	4650	20	82.2	59470	1 23	13200
1943-44	2110	25	70.8	51390	2 22	4390
1944-45	657	18	44.6	32300	11 11	4240
1945-46	1210	23	59.6	43160	12 22	3600
1946-47	866	22	66.9	48420	11 13	4950
1947-48	548	6.6	34.9	25370	3 24	4240
1948-49	269	4.8	15.3	11100	12 17	984
1949-50	808	4.6	17.0	12280	2 6	2340
1950-51	355	2.7	10.9	7880	1 11	2900
1951-52	1840	2.2	47.6	34570	1 17	6930
1952-53	699	3.0	22.2	16120	11 15	5330
1953-54	1390	3.1	32.3	23390	2 13	6360
1954-55	748	1.8	15.7	11350	1 18	6000
1955-56	4080	2.7	23.9	17360	1 26	13000
1956-57	1080	2.8	23.2	16840	2 23	8250
1957-58	1970	2.2	161	116500	2 19	12600
1958-59	1180	4.3	55.0	39800	1 6	11000
1959-60	664	5.9	69.0	50100	1 12	3900
1960-61	638	0.8	104	75350	1 26	3030
1961-62	1800	3.4	146	106000	1 20	6070
1962-63	1170	1.0	41.8	30290	3 16	4900
1963-64	794	0	73.4	53270	1 21	6200
1964-65	925	0	108	78300	4 9	6590
1965-66	2340	0.4	128	92380	12 29	7100
1966-67	2120	3.4	118	85810	1 24	8130
1967-68	1490	5.3	118	85660	3 8	7900
1968-69	8600	6.6	201	145700	1 25	20000
1969-70	1680	5.0	66.4	48100	2 28	8220
1970-71	2450	2.5	55.0	39850	11 29	8220
1971-72	1520	2.0	14.0	10150	12 24	5650
1972-73	2150	2.1	57.0	41260	2 11	10910
1973-74	2560	2.0	31.0	22450	1 7	9020
1974-75	1650	1.4	22.1	15990	12 4	12670
1975-76	1400	0.2	19.7	14050	9 11	9660
1976-77	811	0	37.9	27442	1 3	5380

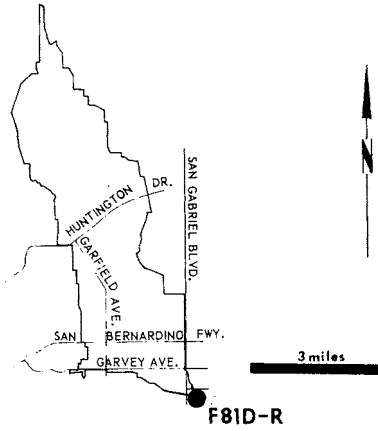
E = ESTIMATE



**STATION NO. F 81D-R  
ALHAMBRA WASH  
near Klingerman Street**

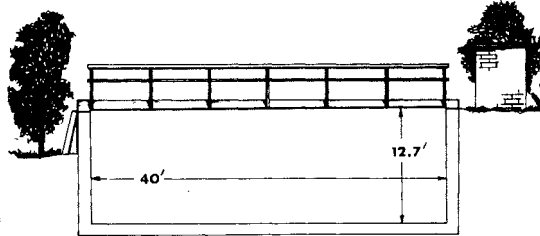


**drainage area**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from footbridge  
 DRAINAGE AREA - 15.2 square miles  
 LOCATION - 250 feet above Klingerman Street and 2,650.0 feet below Garvey Avenue, South San Gabriel  
 REGULATION - none  
 CHANNEL - concrete, rectangular in section, 40.0 feet wide by 12.7 feet deep  
 CONTROL - channel forms control  
 LENGTH OF RECORD -  
 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 date

**cross-section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F81D-R

DAILY DISCHARGE in second-feet of ALHAMBRA WASH NEAR KLINGERMAN ST. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	
1	0.9	0.4	1.8	0.9	0.9	131	1.1	0.9	0.6	0.9	1.4	1.6	
2	0.6	0.4	2.2	0.6	0.9	85	1.1	0.9	0.9	1.4	1.6	1.8	
3	0.6	0.6	1.8	0.9	0.9	6.8	12.9	0.9	0.6	1.1	1.6	12.9	
4	0.9	0.9	1.6	0.9	25.6	0.6	12.9	0.6	0.6	1.4	2.1	1.8	
5	0.6	0.9	1.4	0.9	184	0.6	0.9	0.4	0.7	1.4	2.1	2.8	
6	7.9	1.1	1.4	0.9	137	0.6	0.6	3.5	0.3	1.6	1.8	4.0	
7	1.1	0.4	0.9	0.9	32.3	0.6	0.6	4.1	0.3	1.6	1.8	2.3	
8	0.9	0.4	1.1	0.9	144	0.6	13.7	0.9	0.4	1.6	1.8	2.8	
9	0.6	0.4	1.1	0.9	188	0.9	1.1	0.9	0.4	1.6	1.8	2.3	
10	0.4	0.6	0.9	0.9	2.1	4.1	1.1	0.9	3.9	1.8	1.8	274	
11	15.2	0.6	1.1	0.9	0.9	0.6	1.1	0.9	1.1	1.6	1.4	139	
12	1.6	0.6	58.1	0.9	0.9	0.6	25.5	0.9	1.1	1.6	1.4	2.1	
13	1.8	0.6	1.4	1.1	0.6	0.6	22.1	1.1	1.4	1.6	1.4	1.8	
14	1.6	0.6	1.1	1.1	0.6	0.6	0.6	1.1	1.4	1.4	1.4	1.6	
15	1.8	0.6	1.4	0.9	0.6	0.6	0.9	1.1	1.4	1.4	1.6	2.1	
16	1.8	0.4	1.4	0.9	0.6	0.6	0.4	0.9	1.4	1.4	1.6	1.6	
17	2.1	0.4	1.1	1.1	0.6	0.6	0.6	0.9	1.4	1.4	1.6	1.6	
18	1.8	0.6	1.1	1.1	0.6	0.9	0.4	0.9	1.4	1.1	1.4	1.4	
19	1.8	0.6	1.1	1.4	0.9	0.9	0.9	1.1	1.4	1.1	1.6	1.6	
20	1.6	0.9	0.9	1.1	0.6	0.9	0.9	0.9	1.1	0.9	1.6	1.6	
21	1.6	0.6	0.9	1.1	0.6	0.9	0.9	1.1	0.9	1.4	1.4	1.6	
22	1.6	0.6	0.9	1.1	0.9	0.9	0.6	0.6	0.9	1.6	1.6	1.6	
23	1.8	0.6	0.9	0.9	0.9	0.9	0.9	0.4	0.9	1.6	1.8	1.6	
24	1.1	0.9	0.9	0.6	0.9	0.9	0.9	0.9	0.9	1.6	1.8	4.1	
25	1.1	1.4	0.9	0.6	0.6	0.9	0.9	1.1	1.1	1.6	1.6	1.6	
26	1.1	1.1	0.9	0.6	0.6	1.1	1.1	1.1	1.1	1.6	1.6	1.6	
27	1.1	1.1	0.9	0.9	0.6	0.9	0.9	1.1	1.1	1.8	1.8	1.6	
28	1.1	0.9	0.9	0.9	0.9	0.9	0.6	0.9	1.4	1.6	1.6	1.4	
29	1.1	0.9	0.9	0.9	0.6	1.1	0.9	0.4	1.4	1.8	1.6	1.4	
30	0.6	1.4	0.9	0.9	0.9	0.9	0.9	0.4	1.1	1.8	1.8	2.8	
31	0.6		0.9	0.9	0.9	0.9		0.4		1.6	1.8		
MEAN	2.1	0.7	2.7	0.9	22.4	8.2	3.9	1.0	1.1	1.5	2.1	17.1	
ACRE- FEET	131	42.6	188	56.7	1,290	502	235	63.9	63.9	91	130	1,020	
												MEAN	5.3
												YEAR OR PERIOD	1975-76

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. FB1D-R

DAILY DISCHARGE in second-feet of ALHAMBRA WASH NEAR KLINGERMAN ST. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1				1.8	1.1	0.3	0.4	4.8	0.3	0.3	0.3	0.6
2	1.8	1.1	0.9	111	1.1	0.3	0.4	0.3	0.3	0.3	0.3	0.6
3	1.8	1.4	0.9	252	1.1	0.4	0.4	0.3	0.3	0.3	0.3	0.9
4	1.6	1.8	1.1	2.3	1.1	0.4	0.4	0.3	0.3	0.3	0.4	0.9
5	1.6	1.6	1.1	83.3	1.1	0.4	0.4	0.3	0.3	0.3	0.4	0.9
6	1.6	1.4	1.1	98.9	0.9	0.4	0.3	0.3	0.3	0.3	0.3	0.9
7	1.6	1.4	1.1	167	0.9	0.4	0.4	0.3	0.4	0.3	0.3	0.9
8	1.6	1.1	1.1	2.6	0.9	0.4	0.4	218	0.3	0.3	0.3	0.9
9	1.6	1.1	1.4	1.4	0.6	0.4	0.6	139	0.4	0.3	0.3	0.6
10	1.8	0.9	1.4	1.4	0.9	0.3	0.6	1.1	0.4	0.4	0.3	0.6
11	1.6	16.1	1.4	1.1	0.6	0.4	0.6	0.4	0.3	0.4	0.3	0.6
12	1.6	102	1.4	0.9	0.6	0.4	0.4	3.3	0.3	0.4	0.3	0.6
13	1.6	1.4	1.4	0.9	0.6	0.3	0.4	0.3	0.6	0.3	0.3	0.9
14	1.6	1.4	1.6	1.4	0.9	0.3	0.4	0.3	0.4	0.4	0.3	0.9
15	1.6	1.1	1.6	0.9	1.1	0.4	0.6	0.3	0.3	0.4	0.3	0.9
16	1.4	1.1	1.6	0.9	1.1	84	0.4	0.3	0.3	0.6	6.7	0.9
17	0.9	1.1	1.6	0.6	1.1	0.9	0.4	0.3	0.3	0.3	201	0.9
18	0.9	1.1	1.6	0.4	1.1	0.4	0.6	0.3	0.3	0.3	2.3	0.6
19	0.9	1.1	1.6	0.6	1.1	0.4	0.4	0.3	0.3	0.4	0.4	0.6
20	0.9	1.4	1.6	4.6	1.1	0.4	0.4	0.3	0.3	0.4	0.3	0.9
21	0.6	1.4	1.6	1.1	1.1	0.6	0.4	0.3	0.3	0.4	0.3	0.9
22	64.7	1.1	1.4	0.9	1.4	0.4	0.4	0.3	0.3	0.4	0.4	0.9
23	130	1.1	1.4	0.9	8.8	1.3	0.4	16.7	0.3	0.4	0.4	0.9
24	1.4	1.1	1.4	0.6	3.3	10	0.6	7.0	0.4	0.3	0.4	0.9
25	0.9	0.9	1.1	0.6	1.4	130	0.4	0.3	0.3	0.3	1.4	0.9
26	0.9	0.9	1.1	0.9	1.4	1.1	0.4	0.3	1.1	0.4	2.1	0.9
27	0.9	0.9	1.1	0.6	1.1	0.4	0.3	0.3	1.1	0.4	2.3	1.1
28	0.9	0.6	1.4	0.4	1.1	0.4	0.3	0.3	0.3	0.3	2.3	0.9
29	0.9	0.6	1.4	0.6		0.4	0.3	0.3	0.3	0.4	1.8	1.1
30	0.9	0.9	55.8	0.6		0.4	0.3	0.3	0.3	0.4	0.9	0.9
31	0.6		9.0	0.9		0.3		0.3		0.4	0.6	

MEAN	7.5	5.0	3.3	23.9	1.4	7.6	0.4	12.8	0.4	0.4	7.4	0.8
ACRE- FEET	461	299	204	1,470	76.6	470	25.2	788	22.6	22	453	49.6

YEAR OR PERIOD MEAN ACRE-FEET 5.9  
4,340

STATION DATA SUMMARY

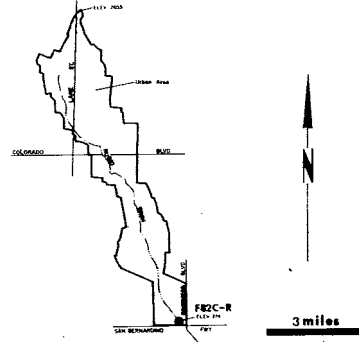
STA. NO. FB1D-R  
ALHAMBRA WASH NEAR KLINGERMAN STREET

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW			SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW		
					MON	DAY	CFS						MON	DAY	CFS
1929-30	N.D.	0	N.D.	635	3	14	1870	1966-67	652	0.4	12.2	8820	1	22	3550
1930-31	226	0	2.1	1480	2	3	1530	1967-68	398	0.4	6.5	4740	3	8	3480
1931-32	220	0	2.7	1940	1	31	1120	1968-69	939	0.4	17.0	12300	2	6	3980
1932-33	418	0	2.3	1680	1	19	1850	1969-70	486	0.3	5.3	1871	2	28	3430
1933-34	1770	0	8.0	5820	1	1	4890	1970-71	648	0.4	7.1	2601	11	29	4040
1934-35BC	219	0	3.3	2380	1	5	2280	1971-72	449	0.3	2.5	3900	12	24	2000
1935-36D	144	0	2.0	1420	2	12	1700	1972-73	555	0.3	12.6	9110	2	11	4450
1936-37	309	0	5.4	3850	3	15	2470	1973-74	813	0.3	7.9	5720	1	7	4330
1937-38	997	0	7.6	5520	3	2	5010	1974-75	429	0.3	5.6	4070	12	4	6000
1938-39	788	0	4.1	2990	1	5	2480	1975-76	274	0.3	5.3	3790	2	5	1820
1939-40	130	0	2.4	1730	2	1	1280	1976-77	252	0.3	6.0	4340	10	22	1770
1940-41	219	0	7.8	5650	3	3	2080								
1941-42	193	0	2.5	1810	12	10	2320								
1942-43	893	0	8.4	6070	3	4	4480								
1943-44	454	*	5.6	4100	2	22	1860								
1944-45	199	0.1	3.1	2250	11	11	2220								
1945-46	342	0.1	4.1	3000	12	22	1600								
1946-47	345	0.1	5.2	3800	11	13	3810								
1947-48	155	0.1	2.8	2040	3	24	2670								
1948-49	75	0.2	2.8	2020	12	17	758								
1949-50	254	0.2	4.3	3090	2	6	1630								
1950-51	106	0.2	3.3	2360	1	11	1620								
1951-52	594	0.2	12.5	9040	1	16	3810								
1952-53	228	0.1	4.5	3240	11	15	3140								
1953-54	369	0.2	5.2	3770	2	13	2410								
1954-55	185	0.2	4.2	3020	1	18	1890								
1955-56	1100	0.3	7.6	5520	1	26	4550								
1956-57	242	0.6	6.1	4440	2	23	3090								
1957-58	544	0.3	12.8	9270	2	19	4830								
1958-59	279	0.2	4.2	3020	1	6	3170								
1959-60	200	0.1	3.8	2720	1	11	1710								
1960-61	153	0.3	2.5	1790	11	5	1480								
1961-62	362	0.1	9.1	6270	2	12	2560								
1962-63	359	0.1	4.0	2880	3	16	2210								
1963-64	196	0.2	4.0	2870	1	21	2210								
1964-65	339	0.1	5.4	4610	4	9	3730								
1965-66	686	0.3	10.7	7740	11	24	3520								

BC = RECORD BEGAN AT B LOCATION 10-01-34, AT C LOCATION 02-25-35.  
D = RECORD BEGAN AT D LOCATION 09-02-36.  
\* = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0.  
N.D. = NOT DETERMINED

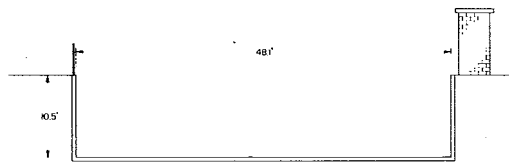
**STATION NO. F 82C-R  
RUBIO WASH  
at Glendon Wash**

drainage area



RECORDER - 15 MINUTE PUNCHED TAPE  
METHOD OF MEASUREMENT - LOW FLOWS MEASURED BY WADING, HIGH FLOWS MEASURED FROM FOOTBRIDGE AT STATION.  
DRAINAGE AREA - 10.9 SQUARE MILES  
LOCATION - ON THE EAST SIDE OF CHANNEL, 10 FEET SOUTH OF THE WESTERLY EXTENSION OF GLENDON WAY, ROSEMEAD  
REGULATION - FLOW PARTY REGULATED BY LAS FLORES AND RUBIO DEHRIS BASINS  
CHANNEL - RECTANGULAR CONCRETE  
CONTROL - CHANNEL FORMS CONTROL  
LENGTH OF RECORD - SEE STATION SUMMARY

cross section



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F82C-R

DAILY DISCHARGE in second-feet of RUBIO WASH AT GLENDON WASH FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	1.0	0.4	0.4	0.2	0.6	128	0.6	0.4	0.6	1.0	0.6	1.4
2	1.0	0.6	0.2	0.4	1.0	73.4	1.4	0.4	0.6	1.0	1.0	1.4
3	1.0	0.6	0.4	0.4	1.0	3.4	9.5	0.6	0.6	1.0	0.6	5.8
4	1.0	0.4	0.6	0.4	23.6	1.0	13.2	1.0	0.6	1.0	0.6	1.9
5	1.0	0.4	0.6	0.6	73.2	1.0	2.5	0.6	0.6	1.0	0.6	18
6	1.9	0.4	1.0	0.6	99.6	0.4	0.4	1.9	0.6	1.0	0.6	6.0
7	6.0	0.4	1.0	0.4	20.4	0.4	0.4	4.5	0.6	1.0	0.6	1.4
8	1.0	0.4	1.0	0.4	88.3	1.0	7.1	0.6	0.6	1.0	0.6	1.0
9	1.0	0.4	0.6	0.4	126	1.5	0.6	0.6	0.6	1.0	0.6	1.0
10	1.4	0.4	0.4	0.4	3.6	6.0	0.4	0.4	2.5	1.0	0.6	373
11	7.1	0.4	0.4	0.4	0.6	1.4	0.4	0.6	1.4	1.0	0.6	38.7
12	1.4	0.4	28.3	0.4	0.4	2.5	24.2	0.6	1.0	0.6	0.6	1.9
13	1.0	0.2	0.6	0.4	0.4	0.6	21.4	0.4	1.0	1.0	1.0	1.0
14	1.0	0.2	0.2	0.4	0.4	0.4	0.4	0.6	1.0	1.0	1.0	1.4
15	1.0	0.4	0.4	0.4	0.4	1.9	1.0	0.4	0.6	1.4	5.9	0.2
16	1.0	0.4	0.2	0.4	0.4	2.5	0.6	0.6	1.0	1.4	1.4	1.4
17	1.0	0.6	0.4	0.6	0.4	2.6	0.4	0.2	0.6	1.4	1.0	1.0
18	1.0	0.4	0.4	0.6	0.4	1.9	0.4	0.2	0.6	1.4	1.0	1.0
19	1.0	0.4	0.4	0.6	0.4	1.9	0.4	0.2	0.6	1.0	1.0	1.0
20	1.0	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.6	1.0	1.0	1.0
21	1.0	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.6	1.0	1.0	1.0
22	1.0	0.4	0.6	0.4	0.4	1.4	0.4	0.2	0.6	1.0	1.0	1.0
23	1.0	0.4	0.4	0.4	0.4	1.0	0.4	0.2	0.6	1.0	1.0	1.0
24	0.6	0.4	0.4	0.6	0.6	0.6	0.4	0.4	0.6	1.0	1.0	4.5
25	0.6	0.4	0.4	0.6	0.4	0.4	0.4	0.4	0.6	1.0	1.0	1.0
26	0.6	0.4	0.6	1.0	0.4	0.6	0.4	0.6	0.6	1.0	1.0	0.6
27	0.6	0.6	0.4	0.6	0.4	0.6	0.4	0.6	0.6	1.0	0.6	0.6
28	0.6	0.4	0.4	0.6	0.4	0.6	0.4	0.6	1.0	1.0	0.2	0.4
29	0.6	0.6	0.6	1.0	0.4	0.6	0.4	0.6	1.0	0.6	1.0	0.4
30	1.4	0.4	0.4	1.0	0.6	0.6	0.4	0.6	1.0	0.6	0.4	0.4
31	1.4	0.4	0.4	1.0	0.6	0.6	0.6	0.6	0.6	0.6	1.0	0.4

MEAN	1.4	0.4	1.4	0.5	15.3	7.7	3.9	0.7	0.8	1.0	1.0	15.9	
ACRE- FEET	83.7	25.4	85.1	32.5	883	475	174	43.8	46.6	61.5	60.5	942	
YEAR OR PERIOD												MEAN ACRE-FEET	4.1
													2.222

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. FB2C-R

DAILY DISCHARGE in second-feet of RUBIO WASH AT GLENDON WAY FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.4	0.4	0.6	1.0	0.6	0.4	1.0	1.4	0.1	0.2	0.2	0.2
2	0.6	0.6	0.6	76.1	0.6	1.0	0.6	0.2	0.1	0.2	0.2	0.2
3	0.6	1.0	0.6	112	0.6	0.6	1.0	0.2	0.1	0.2	0.2	0.1
4	0.6	0.4	0.6	4.8	0.6	2.8	0.6	0.2	0.1	0.2	0.2	0.1
5	0.4	0.6	0.6	80.3	0.4	0.6	0.6	0.2	0.1	0.2	0.2	0.1
6	0.6	0.6	0.6	77.9	0.4	0.6	1.0	0.1	0.1	0.2	0.2	0.2
7	0.6	0.4	0.6	106	0.6	1.4	1.0	0.2	0.1	0.2	0.2	0.2
8	0.6	0.6	0.4	1.0	0.6	3.1	0.6	180	0.1	0.2	0.2	0.2
9	0.6	0.6	0.6	0.6	0.6	1.4	0.6	114	0.2	0.2	0.2	0.2
10	0.6	0.6	0.6	0.6	0.6	1.0	0.6	1.0	0.1	0.2	0.2	0.2
11	0.6	15.8	0.6	0.6	0.6	1.0	0.6	0.2	0.1	0.2	0.2	0.2
12	0.6	66.1	0.6	0.6	0.6	1.0	0.6	3.8	0.1	0.2	0.2	0.2
13	0.6	1.0	0.6	0.6	0.6	0.6	1.0	0.4	0.1	0.2	0.2	0.2
14	1.0	0.6	0.6	1.0	0.6	1.0	1.0	0.2	0.1	0.2	0.2	0.2
15	1.0	0.6	0.6	1.0	0.6	2.4	0.6	0.2	0.1	0.2	0.2	0.2
16	1.0	1.0	0.6	0.6	1.0	70.3	1.0	0.4	0.2	0.2	5.4	0.2
17	1.0	1.4	0.6	1.0	1.0	5.3	0.6	0.1	0.1	0.2	175	0.2
18	1.0	0.6	1.0	1.0	0.6	1.4	1.0	0.1	0.2	0.2	2.5	0.2
19	0.6	0.6	1.0	1.0	0.6	0.6	1.0	0.2	0.2	0.2	0.2	0.2
20	0.6	0.6	1.0	10.6	0.6	0.6	0.6	0.4	0.2	0.2	0.1	0.2
21	0.6	0.6	1.0	5.2	0.6	3.4	0.6	0.2	0.2	0.2	0.2	0.2
22	33.9	0.6	0.6	0.6	0.6	0.6	0.6	0.2	0.2	0.2	0.2	0.2
23	131	0.6	0.6	0.6	8.4	1.0	0.6	6.3	0.2	0.2	0.2	0.2
24	0.6	0.6	1.0	0.6	4.6	8.5	0.6	4.4	0.2	0.2	0.2	0.2
25	0.6	0.6	0.6	0.6	1.0	84.8	0.6	0.1	0.2	0.2	0.2	0.2
26	0.6	0.6	0.6	0.6	0.6	1.4	0.6	0.1	0.2	0.2	0.2	0.2
27	0.6	0.6	1.0	0.6	0.6	0.6	0.6	0.1	0.2	0.2	0.4	0.2
28	0.6	0.4	1.0	0.6	0.6	1.0	0.6	0.1	0.2	0.2	0.1	0.2
29	0.4	0.4	1.0	0.6		1.0	0.2	0.1	0.6	0.2	0.1	0.2
30	0.6	0.4	36.1	0.6		0.6	0.2	0.1	0.4	0.2	0.1	0.4
31	0.6		5.9	0.6		0.6	0.6	0.1		0.2	0.2	

MEAN	5.9	3.3	2.0	15.8	1.0	6.5	0.7	10.2	0.2	0.2	6.1	0.2
ACRE- FEET	364	197	124	971	58.3	399	41.3	625	10.1	12.3	373	11.7

YEAR OR PERIOD MEAN ACRE-FEET 4.3 3,190

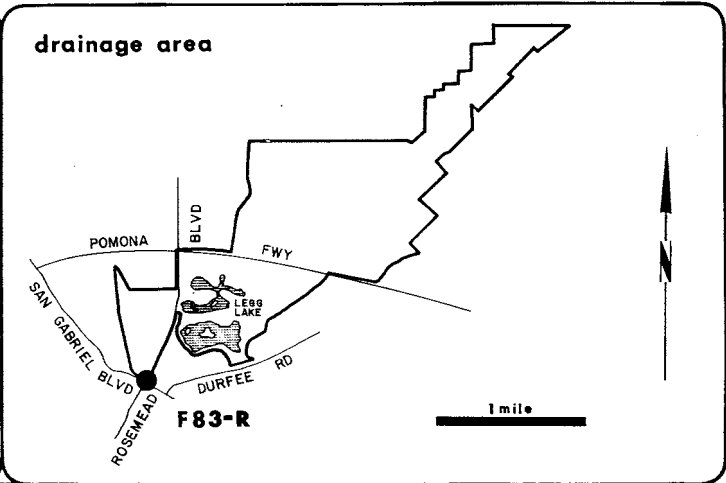
STATION DATA SUMMARY

STA. NO. FB2C-R  
RUBIO WASH AT GLENDON WAY

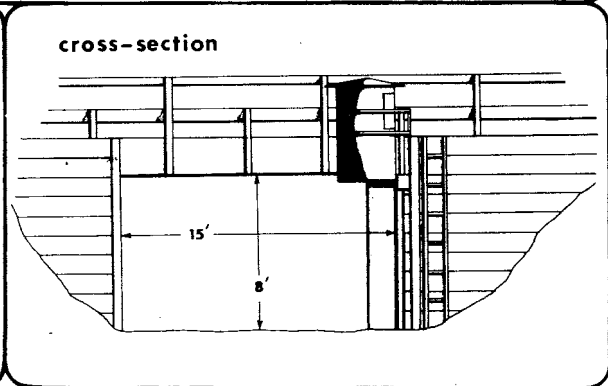
SFASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW			SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW		
					MON	DAY	CFS						MON	DAY	CFS
1929-30	81	0	1.5	1060	3	14	661	1964-65	164	0.1	2.8	2030	4	9	2040
1930-31B	107	0	1.5	1110	2	3	1690	1965-66	466	0.1	6.4	4650	11	24	2300
1931-32	124	0	2.1	1490	11	27	798	1966-67	344	0.2	7.2	5220	12	3	2040
1932-33	234	0	1.5	1110	1	16	1510	1967-68	343	0.2	4.0	2930	3	8	2460
1933-34	684	0	3.5	2580	12	31	2070	1968-69	712	0.2	11.4	8220	1	25	2890
1934-35	134	0	2.4	1770	10	17	1680	1969-70			**	**	2	28	2540
1935-36	81	0	1.8	1280	2	22	1370	1970-71			**	**	11	29	3700
1936-37C	186	0	3.9	2800	12	27	1180	1971-72			**	**	12	24	1240
1937-38	802	0	5.8	4180	3	2	2400 E	1972-73	410	0	7.0*	5041	2	11	3166
1938-39	250	0	3.3	2370	1	5	1720	1973-74	460	0.2	5.5	3950	1	7	1985
1939-40	122	0	2.4	1720	1	7	1000	1974-75	328	0.3	4.5	3240	12	4	3180
1940-41	200	0	8.1	5890	3	3	1940	1975-76	373	0.2	4.1	2920	9	10	2070
1941-42	130	0	2.1	1530	12	10	1200	1976-77	160	0.1	4.4	3187	10	23	2610
1942-43	697	0	6.2	4520	3	4	2780								
1943-44	393	0	4.4	3190	2	22	1930								
1944-45	152	0	2.1	1540	11	11	1780								
1945-46	244	0	2.5	1840	12	22	1630								
1946-47	233	0	3.2	2300	11	13	2650								
1947-48	91	0	1.5	1080	3	24	2090								
1948-49	59	0	1.5	1080	10	30	530								
1949-50	161	0	2.3	1690	2	6	1060								
1950-51	80	0	1.4	1010	1	11	2290								
1951-52	335	0	7.3	5300	1	16	3020								
1952-53	133	0	2.0	1460	11	15	2200								
1953-54	288	+	3.4	2490	1	19	2310								
1954-55	126	+	2.6	1870	1	18	1290								
1955-56	639	0	4.0	2880	1	26	1970								
1956-57	199	+	3.2	2290	2	23	2980								
1957-58	286	0.1	7.7	5610	2	19	2740								
1958-59	218	0.2	2.8	2030	1	6	2780								
1959-60	135	0.2	2.5	1820	1	11	985								
1960-61	117	0.2	1.8	1270	11	6	902								
1961-62	281	0.1	5.7	4120	1	20	1200								
1962-63	246	0.1	2.4	1760	2	9	1180								
1963-64	136	0.2	2.6	1970	1	21	1570								

\* = LESS THAN 0.05 ACRE FEET DR CFS, BUT GREATER THAN 0  
 \* = RECORD INCOMPLETE  
 E = ESTIMATE  
 \*\* = RECORD NOT COMPUTED  
 B = RECORD BEGAN AT B LOCATION OCTOBER 1, 1930  
 C = RECORD BEGAN AT C LOCATION NOVEMBER 6, 1936

**STATION NO. F 83-R  
MISSION CREEK  
at San Gabriel Boulevard**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from bridge  
 DRAINAGE AREA - 4.2 square miles  
 LOCATION - upstream of San Gabriel Boulevard, 0.2 miles northeast of Montebello  
 REGULATION - partially regulated by outflow from Legg Lake  
 CHANNEL - sand with brush and fences, natural in section  
 CONTROL - channel forms control  
 LENGTH OF RECORD - June 14, 1930, to date  
 REMARKS - nearly all flows originate in rising water



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F83-R

DAILY DISCHARGE in second-feet of MISSION CREEK AT SAN GABRIEL BLVD. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
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	1.6
12	0	0	0.2	0	0	0	0	0	0	0	0	0
13	0	0	0.3	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	0
31	0	0	0	0	0	0	0	0	0	0	0	0

MEAN	0	0	+	0	0	0	0	0	0	0	0	+
ACRE-FOOT	0	0	1.0	0	0	0	0	0	0	0	0	3.2

YEAR OR PERIOD \_\_\_\_\_ MEAN ACRE-FOOT \_\_\_\_\_  
 +  
 4.2

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F83-R

DAILY DISCHARGE in second-feet of MISSION CREEK AT SAN GABRIEL BLVD. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
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
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
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
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	0
31	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	+	0	+	0	0	0	0	0	0	0	0
ACRE FEET	0	+	0	+	0	0	0	0	0	0	0	0

YEAR OR PERIOD \_\_\_\_\_ MEAN ACRE-FEET \_\_\_\_\_ +  
O

STATION DATA SUMMARY

STA. NO. F83-R  
MISSION CREEK AT SAN GABRIEL BOULEVARD

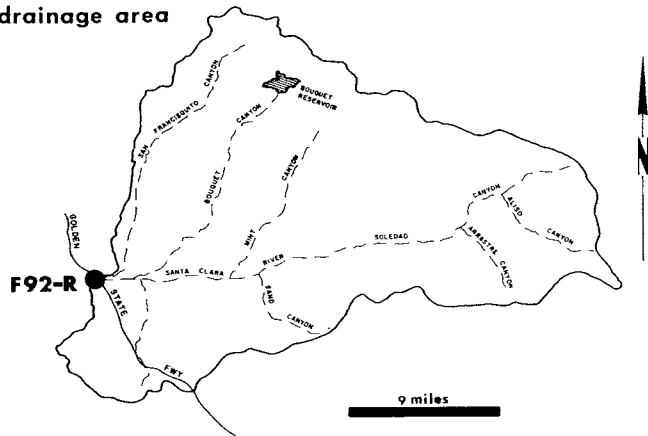
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	PEAK FLOW DAY	PEAK FLOW CFS
1929-30	20	14	17.0	12290	2	3	20
1930-31	37	12	16.3	11820	2	4	49
1931-32	37	13	16.7	12170	2	4	44
1932-33	32	11	16.2	11720	1	29	51
1933-34	94	7.5	12.5	9030	1	1	166
1934-35	13	9.0	12.4	9140	4	8	32
1935-36	26	7.5	13.5	9810	2	12	38
1936-37	51	10	15.0	10840	2	14	84
1937-38	*	15	19.6*	14220*			*
1938-39	77	19	22.5	16320	9	25	118
1939-40	52	15	22.3	16210	1	8	74
1940-41	86	17	25.1	19120	3	4	104
1941-42	43	20	25.9	18740	12	10	68
1942-43	101	19	24.0	17410	1	22	252
1943-44	176	20	26.0	19850	2	22	336
1944-45	53	18	24.9	18010	11	12	76
1945-46	52	17	21.6	15630	12	23	67
1946-47	45	15	19.7	14230	12	25	90
1947-48	33	13	17.4	12670	12	5	51
1948-49	24	10	14.7	10640	1	20	27
1949-50	19	7.5	12.1	8780	1	8	26
1950-51	13	5.3	9.3	6700	1	29	13
1951-52	35	4.1	8.4	6090	1	18	71
1952-53	13	4.6	8.5	6170	1	24	14
1953-54	8.5	2.0	4.9	3580			N.D.
1954-55	8.7	0.9	4.3	3100	1	18	12
1955-56	10	0.8	3.2	2310	1	27	10E
1956-57	9.2	*	2.5	1840	11	15	8.9
1957-58	8.0	0.1	3.7	2660	2	19	16
1958-59	12	1.5	5.4	3920	1	6	20
1959-60	5.3	0.3	3.0	2160	2	1	6.8
1960-61	2.0	0	0.8	806	2	9	2.0
1961-62	12	0	1.2	902	2	11	24
1962-63	3.5	0	1.1	788	2	9	16
1963-64	0.1	0	+	0.2	11	20	1.0
1964-65	0.2	0	+	0.6	4	9	1.9
1965-66	4.0	0	0.2	120	12	29	4.0
1966-67	13	0	3.2	2340	4	22	14
1967-68	25	0.8	4.6	3340	3	8	31
1968-69	39	2.3	7.6	5540			N.D.
1969-70	24	1.4	5.8	4230	3	4	30
1970-71	27	+	2.8	2050	11	29	34
1971-72	5.2	0	0.4	326	12	24	5.5
1972-73	5.1	0	0.1	38	2	11	12
1973-74	15	0	0.2	117	1	8	22
1974-75	0.2	0	+	0.6	2	3	2.0
1975-76	1.6	0	+	4.2	9	11	23
1976-77	+	0	+				N.D.

\* = RECORD INCOMPLETE  
+ = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0.  
N.D. = NOT DETERMINED  
E = ESTIMATE

**STATION NO. F92-R  
SANTA CLARA RIVER  
below Highway 5**

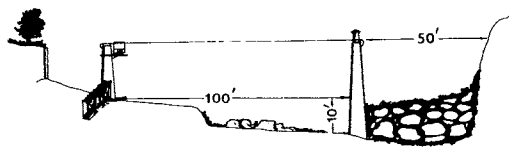


**drainage area**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from cable car  
 DRAINAGE AREA - 410.4 square miles  
 LOCATION - downstream side of Old Highway bridge,  
 3.0 miles west of Saugus  
 REGULATION - partially regulated by Bouquet Canyon and  
 Dry Canyon Reservoirs  
 CHANNEL - sand and gravel with brush, natural section  
 CONTROL - none  
 LENGTH OF RECORD -  
 at Station F92-R, January 18, 1930 to March 28, 1938  
 September 24, 1956 to date  
 at Station F92B-R, October 1, 1938 to September 24, 1956  
 REMARKS - subject to diversions for irrigation

**cross-section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F92-R

DAILY DISCHARGE in second-feet of SANTA CLARA RIVER AT OLD HIGHWAY BRIDGE FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	
1	4.4		3.3	3.6	5.8	3.6	1.5	1.3	1.8	1.3	2.8	1.0	4.4
2	6.1	3.1	2.8	5.1	3.6	3.7	1.3	2.0	1.8	2.8	0.9	3.3	
3	7.2	2.8	2.8	5.8	3.3	5.5	1.3	1.8	2.0	3.1	0.6	2.3	
4	5.5	2.5	3.1	7.5	3.1	1.5	1.0	1.5	2.5	3.1	1.2	2.3	
5	3.8	3.1	3.1	4.8	3.1	1.3	0.2	1.3	1.2	0.9	0.9	2.3	
6	4.4	2.8	3.3	67.1	67.1	0.1	0.7	1.8	3.6	1.5	0.9	2.3	
7	4.1	3.1	2.8	3.8	87.4	0	0.6	1.8	3.6	1.8	1.0	1.8	
8	5.1	3.1	4.8	3.8	29	0.3	0.7	1.8	2.3	2.0	0.7	2.5	
9	4.4	3.1	5.5	3.8	110	0.1	0.9	1.8	2.8	2.8	0.7	3.3	
10	5.1	3.8	4.8	3.8	4.1	1.8	0.6	0.9	4.6	1.2	0.4	138	
11	5.5	4.8	4.8	4.1	B	3.7	1.3	1.0	1.3	1.3	0.6	12.7	
12	5.1	4.8	5.5	4.4	B	3.3	1.3	1.3	1.5	2.0	1.5	1.2	
13	4.8	3.6	4.4	4.4	B	2.9	1.3	0.4	2.0	2.0	1.0	1.0	
14	3.8	3.6	4.1	4.8	B	2.6	1.2	0.9	1.8	2.0	2.8	1.0	
15	3.6	3.6	3.3	5.1	B	2.2	1.0	1.0	1.8	2.0	2.3	0.9	
16	4.8	3.8	2.5	5.1	B	1.8	0.9	1.2	2.3	1.2	2.5	0.9	
17	3.3	2.0	2.0	5.1	B	1.4	0.7	0.9	2.0	1.3	2.5	1.2	
18	3.6	2.0	3.3	5.1	1.2	1.0	0.7	1.0	1.8	0.7	1.5	1.5	
19	3.3	1.8	4.4	4.8	1.2	1.0	0.7	0.4	2.3	0.3	3.1	1.2	
20	3.3	2.8	5.5	4.8	0.9	0.9	0.9	0.6	2.3	1.8	1.8	0.9	
21	3.3	3.1	5.8	5.5	1.0	0.7	1.0	0.9	1.8	1.6	2.3	1.0	
22	E	3.6	5.5	5.8	0.9	39.6	1.2	0.7	2.0	0.4	1.8	2.5	
23	E	3.6	4.1	5.8	0.9	6.4	1.0	1.0	2.8	0.6	1.8	1.5	
24	E	3.1	3.6	5.5	0.9	1.5	0.9	0.9	3.6	0.6	1.2	1.3	
25	E	3.1	3.6	4.8	1.0	1.5	0.9	1.2	3.1	1.0	1.3	0.9	
26	E	3.1	3.6	4.8	1.3	1.5	0.9	1.3	3.1	2.0	1.5	0.7	
27	E	3.1	3.3	4.1	1.3	1.3	1.3	2.0	3.3	2.0	1.5	0.7	
28	E	3.1	3.3	4.1	1.3	1.3	1.3	1.9	3.3	1.0	2.0	0.6	
29	E	3.8	2.8	4.1	1.5	1.3	1.2	0.9	3.8	0.7	1.8	0.6	
30	E	3.1	3.3	3.8		1.3	1.3	1.3	3.3	0.6	2.3	0.4	
31	E	3.3	4.4	3.8		1.3	1.3	1.5		1.0	3.3		
MEAN	4.1	3.2	3.9	4.7	11.9	2.9	0.9	1.2	2.5	1.5	1.7	6.5	
ACRE- FEET	254	192	239	292	685	179	56.7	75	150	95.4	103	387	
YEAR OR PERIOD										MEAN ACRE-FEET		3.7 2,710	

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F92-R

DAILY DISCHARGE in second-feet of SANTA CLARA RIVER AT OLD HIGHWAY BRIDGE FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.6	0.3	0.4	2.3	2.0	1.5	0.7	0.7	1.2	0.4	1.5	0.9
2	1.0	0.4	0.4	26.7	2.0	1.1	0.7	0.4	1.5	0.6	1.3	0.9
3	0.6	0.4	0.4	194	2.0	1.5	0.7	0.4	0.4	1.2	1.3	0.9
4	0.7	0.4	0.6	1.2	2.0	2.0	0.7	0.4	0.4	1.3	0.6	0.9
5	0.9	0.4	0.6	6.3	2.5	2.0	0.7	0.6	1.5	0.4	0.9	0.9
6	0.9	0.6	0.6	169	2.0	2.0	0.7	0.6	2.0	1.4	1.2	0.7
7	2.6	0.6	0.7	170	1.8	2.0	0.7	0.9	1.8	1.2	1.3	0.7
8	2.9	0.6	0.7	1.3	1.5	2.3	0.7	273	1.0	1.7	1.2	0.7
9	1.8	0.4	0.6	1.2	1.3	2.0	0.7	31.2	1.0	1.2	0	0.9
10	1.2	0.6	0.6	1.2	1.3	2.0	0.9	1.8	1.3	0.3	0	0.9
11	1.2	0.7	0.6	1.3	1.2	2.0	0.9	1.0	1.5	0.1	1.2	0.9
12	1.2	71.1	0.6	1.3	1.2	2.0	0.9	1.0	0.7	0.7	1.3	0.9
13	1.2	1.2	0.6	1.3	1.0	2.0	0.9	0.9	0.6	0.7	0.7	0.9
14	1.5	1.2	0.6	1.3	1.0	2.0	0.9	0.9	0.6	0.3	2.3	0.9
15	1.0	0.9	0.6	1.3	1.0	2.0	0.9	0.9	2.7	0.1	2.3	1.0
16	0.9	0.9	0.6	1.8	1.3	2.4	0.9	0.7	2.2	0.3	1.2	0.9
17	0.7	0.7	0.7	1.8	1.8	0.9	0.7	0.7	0.4	0.5	53.8	2.5
18	0.7	0.6	0.7	1.8	2.3	1.0	0.6	0.7	0.3	0	1.8	0.9
19	0.7	0.3	0.7	1.8	1.3	1.3	0.6	0.7	1.2	0.2	1.0	1.2
20	0.7	0.3	0.7	1.8	1.0	1.0	0.6	0.7	0.9	2.3	0.9	2.6
21	0.7	0.4	0.6	1.8	1.3	0.9	0.6	0.7	0.4	2.8	0.7	4.5
22	0.7	0.4	0.6	1.8	1.9	0.9	0.6	0.9	0.9	2.3	0.4	0.9
23	2.1	0.4	0.6	1.8	1.9	0.9	0.6	1.8	1.4	1.8	0.6	2.0
24	0.6	0.6	0.7	1.8	1.4	1.0	0.6	2.3	2.0	0.3	0.4	0.7
25	0.4	0.4	0.7	2.0	1.7	9.1	0.6	0.6	0.7	0.6	1.2	0.6
26	0.4	0.4	0.7	2.0	1.5	1.2	0.6	0.6	0.8	1.1	1.2	0.6
27	0.4	0.4	0.7	2.3	1.0	1.0	0.6	0.4	0.1	1.1	1.0	0.7
28	0.4	0.4	0.9	2.5	1.3	0.7	0.4	0.4	0.8	0.5	2.3	1.0
29	0.4	0.4	0.9	2.5		0.7	0.3	0.6	2.5	1.0	1.1	1.8
30	0.6	0.4	7.4	2.0			0.7	0.6	2.5	1.6	0.7	3.6
31	0.4		1.5	2.0			0.7	0.7		1.3	0.7	

MEAN	1.0	2.9	0.9	19.7	1.6	1.7	0.7	10.6	1.2	0.9	2.8	1.2
ACRE-FEET	59.7	172	54.1	1,210	86.3	105	40.5	650	71.2	58.1	171	74.4

YEAR OR PERIOD MEAN ACRE-FEET 3.8  
2,750

STATION DATA SUMMARY

STA. NO. F92-R  
SANTA CLARA RIVER AT OLD HIGHWAY BRIDGE

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW		SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW			
					MON	DAY						CFS	MON	DAY	CFS
1929-30	83	0.2	1.1	793	3	15	193	1965-66	3200	0	22.0	15990	12	29	11600
1930-31	291	0.1	2.6	1890	2	7	2310	1966-67	820	*	9.8	7100	1	24	3000
1931-32	739	0.1	5.9	4280	2	9	2090	1967-68	475	0	4.2	3070	11	19	2810
1932-33	90	0	0.7	488	1	19	618	1968-69	N.D.	0.2	**	30170E	2	25	3180CE
1933-34	448	*	2.2	1600	1	1	3870	1969-70	164	1.0	13.3	9610	3	1	900
1934-35	82	*	1.5	1090	1	5	608	1970-71	1830	0.5	15.1	10930	11	29	9150
1935-36	113	0	2.2	1590	2	23	833	1971-72	442	0.5	9.2	6640	12	27	2200
1936-37	471	0	6.7	4850	12	27	3410	1972-73	1470	0.4	13.0	9450	2	11	4760
1937-38	6370	*	37.2	26900	3	2	24000E	1973-74	964	1.0	9.1	6600	1	7	2440
1938-39E	435E	*	14.4	10410	12	15	4620	1974-75	187	0.9	5.4	3910	12	4	1120
1939-40	79	0.3	2.2	1570	2	1	676	1975-76	138	*	3.7	2710	9	10	999
1940-41	3450	0.3	57.1	41320	3	4	5050	1976-77	273	*	3.8	2750	5	8	2510
1941-42	167	0.6	32.3	23400	12	28	443								
1942-43	5420	1.4	65.2	47170	1	23	15000								
1943-44	9360	2.0	68.6	49770	2	22	22200								
1944-45	110	2.2	15.3	11050	2	2	317								
1945-46	194	0.4	8.9	6440	3	30	500								
1946-47	371	1.0	15.4	11150	12	26	1620								
1947-48	33E	0.8	3.1	2270	3	24	350E								
1948-49	4.9	0.4	1.8	1300	3	11	9.9								
1949-50	5.2	0.1	1.2	888	2	6	8.5								
1950-51	2.0	*	0.3	217	1	29	6.2								
1951-52	1620	*	23.1	16760	1	16	7600								
1952-53	43	0.1	0.8	592	12	1	N.D.								
1953-54	104	*	1.6	1160	1	19	626								
1954-55	96	*	0.8	612	1	18	746								
1955-56	164	*	1.4	1000	1	26	344								
1956-57A	195	0	1.4	1020	2	28	1920								
1957-58	1440	0	14.7	10620	4	3	3850								
1958-59	215	0	1.3	940	1	6	1410								
1959-60	12	0	0.4	288	4	27	151								
1960-61	58	0	0.7	533	11	5	830								
1961-62	1690	0	14.5	10470	2	12	4250								
1962-63	105	0	1.3	965	3	16	1470								
1963-64	85	0	1.1	780	1	22	860								
1964-65	240	0	2.1	1550	4	8	1260								

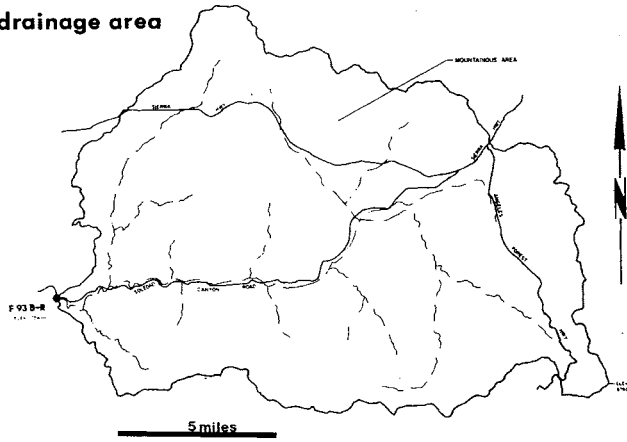
- A = RECORD BEGAN AT ORIGINAL LOCATION 10-25-29 TO 03-28-38.
- RECORD RETURNED TO ORIGINAL LOCATION 10-04-56 TO PRESENT.
- B = RECORD BEGAN AT B LOCATION 10-01-38.
- \* = LESS THAN 0.05 ACRE FEET OR LESS THAN 0.05 CFS, BUT GREATER THAN 0.
- 0 = RECORD INCOMPLETE
- N.D. = NOT DETERMINED
- E = ESTIMATE
- \*\* = STATION DESTROYED BY FLOOD OF 2-25-69.



**STATION NO. F93B-R  
SANTA CLARA RIVER  
above Lang Station at  
R.R. Bridge**

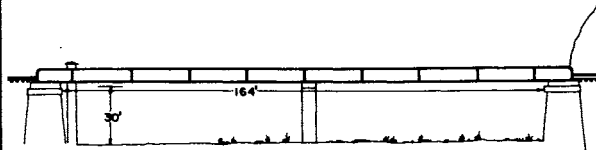


**drainage area**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading  
 DRAINAGE AREA - 157.3 square miles  
 LOCATION - 0.7 mile above Lang Railroad Station, at  
 railroad bridge, 15.0 miles northeast of Newhall  
 REGULATION - none  
 CHANNEL - sand, gravel, and rock, natural section  
 CONTROL - none  
 LENGTH OF RECORD - April 3, 1970, to date  
 REMARKS - Station F93-R, located 0.25 mile below  
 Station F93B-R, is maintained for high flows. It has  
 daily records available for the Seasons 1949-1968,  
 as shown in the summary.

**cross-section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F93B-R

DAILY DISCHARGE in second-feet of SANTA CLARA RIVER AT LANG RAILROAD BRIDGE FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	0	0	0	2.3	0.6	0.7	0.5	+	0	0
2	0	0	0	0	0	2.5	0.4	0.6	0.4	0.1	0	0
3	0	0	0	0	0	3.3	0.4	0.7	0.4	+	0	0
4	0	0	0	0	0	2.3	1.0	0.7	0.3	+	0	0
5	0	0	0	0	0	1.4	0.8	0.7	0.3	+	0	0
6	0	0	0	0	2.9	1.3	0.6	0.7	0.2	+	0	0
7	0	0	0	0	1.8	1.2	0.6	0.7	0.2	+	0	0
8	0	0	0	0	2.6	1.0	0.7	0.5	0.3	0	0	0
9	0	0	0	0	10.5	0.8	0.7	0.5	0.4	0	0	0
10	0	0	0	0	4.8	1.0	0.7	0.6	0.4	0	0	0
11	0	0	0	0	B 4.4	0.8	0.7	0.6	0.3	0	0	0
12	0	0	0	0	B 4.0	0.7	0.7	0.6	0.2	0	0	0
13	0	0	0	0	B 3.6	0.8	1.5	0.6	0.2	0	0	0
14	0	0	0	0	B 3.2	1.1	0.7	0.6	0.2	0	0	0
15	0	0	0	0	B 2.8	0.9	0.5	0.6	0.2	0	0	0
16	0	0	0	0	B 2.5	0.6	0.4	0.5	0.2	0	0	0
17	0	0	0	0	B 2.1	0.6	0.4	0.4	0.2	0	0	0
18	0	0	0	0	B 1.7	0.6	0.6	0.4	0.1	0	0	0
19	0	0	0	0	B 1.3	0.6	0.6	0.3	0.1	0	0	0
20	0	0	0	0	0.9	0.9	0.5	0.3	0.1	0	0	0
21	0	0	0	0	0.9	0.9	0.5	0.3	0.1	0	0	0
22	0	0	0	0	1.1	0.7	0.5	0.4	0.1	0	0	0
23	0	0	0	0	1.0	0.6	0.5	0.4	0.1	0	0	0
24	0	0	0	0	0.7	0.5	0.6	0.6	0.1	0	0	0.6
25	0	0	0	0	0.5	0.5	0.8	0.6	0.1	0	0	0
26	0	0	0	0	0.5	0.5	0.8	0.6	0.1	0	0	0
27	0	0	0	0	0.5	0.5	0.8	0.5	0.1	0	0	0
28	0	0	0	0	0.5	0.8	0.8	0.5	0.1	0	0	0
29	0	0	0	0	0.6	0.7	0.5	0.5	0.1	0	0	0
30	0	0	0	0	0.6	0.7	0.7	0.4	0.1	0	0	0
31	0	0	0	0	0.6	0.6	0.7	0.5	0.1	0	0	0
MEAN	0	0	0	0	1.9	1.0	0.7	0.5	0.2	+	0	+
ACRE- FEET	0	0	0	0	110	62.7	32.3	32.9	12.3	0.2	0	1.2

YEAR OR PERIOD \_\_\_\_\_ MEAN ACRE-FEET \_\_\_\_\_ 0.4  
259

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F93B-R

DAILY DISCHARGE in second-feet of SANTA CLARA RIVER AT LANG RAILROAD BRIDGE FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	0	0	0.1	0.1	0.4	0.1	0.3	+	0	0
2	0	0	0	+	0.1	0.1	0.6	0.1	0.3	+	0	0
3	0	0	0	4.2	0.1	0.1	0.8	0.1	0.2	+	0	0
4	0	0	0	+	0.1	0.1	0.8	0.1	0.2	+	0	0
5	0	0	0	+	0.1	0.1	0.7	0.1	0.2	+	0	0
6	0	0	0	3.9	0.1	0.2	0.6	0.1	0.2	+	0	0
7	0	0	0	4.1	0.1	0.3	0.5	0.1	0.2	+	0	0
8	0	0	0	1.0	0.1	0.4	0.4	9.1	0.1	+	0	0
9	0	0	0	0.4	0.1	0.4	0.4	8.8	0.1	+	0	0
10	0	0	0	0.1	0.1	0.5	0.4	3.2	0.1	0	0	0
11	0	0	0	+	0.1	0.5	0.4	1.5	0.1	0	0	0
12	0	0	0	+	0.1	0.6	0.4	1.0	0.1	0	0	0
13	0	0	0	+	0.1	1.1	0.3	0.5	0.1	0	0	0
14	0	0	0	0	0.1	0.4	0.3	0.5	0.1	0	0	0
15	0	0	0	0	0.3	0.4	0.2	0.4	0.1	0	0	0
16	0	0	0	0	0.3	1.2	0.2	0.3	0.1	0	0	0
17	0	0	0	0	0.3	0.8	0.3	0.2	+	0	0	0
18	0	0	0	0	0.2	0.5	0.3	0.1	+	0	0	0
19	0	0	0	0	0.2	0.5	0.2	0.8	+	0	0	0
20	0	0	0	0	0.2	0.7	0.2	0.1	+	0	0	0
21	0	0	0	0	0.2	0.8	0.2	0.1	+	0	0	0
22	0	0	0	0	0.1	0.4	0.2	0.2	+	0	0	0
23	0	0	0	0	0.1	0.4	0.1	0.3	+	0	0	0
24	0	0	0	0	0.1	0.4	0.1	0.3	+	0	0	0
25	0	0	0	0	0.1	0.5	0.1	0.3	+	0	0	0
26	0	0	0	0	0.1	0.4	0.1	0.3	+	0	0	0
27	0	0	0	+	0.1	0.5	0.1	0.3	+	0	0	0
28	0	0	0	+	0.1	0.4	0.1	0.3	+	0	0	0
29	0	0	0	0.1		0.4	0.1	0.3	+	0	0	0
30	0	0	0	0.1		0.4	0.1	0.3	+	0	0	0
31	0	0	0	0.1		0.4	0.1	0.3	0	0	0	0

MEAN	0	0	0	0.4	0.1	0.5	0.3	1.0	0.1	+	0	0
ACRE-FOOT		0	0	27.8	7.3	27.8	18.8	59.9	5.0	+	0	0

YEAR OR PERIOD MEAN ACRE-FOOT 0.2 147

STATION DATA SUMMARY

STA. NO. F93B-R  
SANTA CLARA RIVER AT LANG RAILROAD BRIDGE

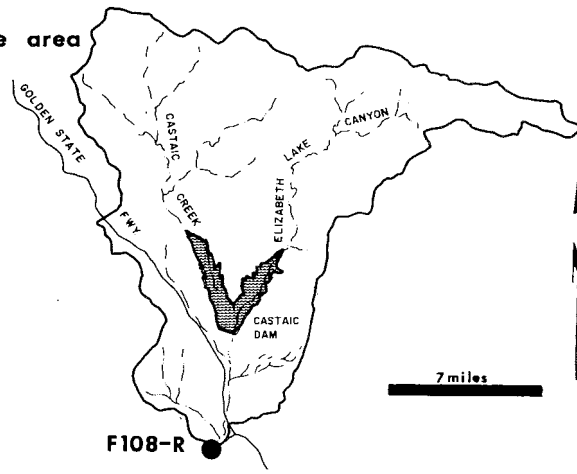
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW		
					MON	DAY	CFS
1949-50	5.2	0.3	1.5	1110	2	6	6.0
1950-51	1.7	0.6	1.1	774	4	28	2.0
1951-52	12.0	0.5	29.3	21230	1	16	4200
1952-53	9.0	1.2	3.1	2250	11	15	39
1953-54	13	1.0	2.8	2000	1	25	29
1954-55	4.8	1.0	1.8	1270	1	18	5.8
1955-56	4.0	1.0	1.5	1100	4	13	5.0
1956-57	1.6	0.9	1.3	906	1	12	1.7
1957-58	5.0	1.0	14.5	7340	4	3	1260
1958-59	21	1.1	2.5	1780	1	6	40
1959-60	1.3	0.9	1.1	807	VARIOUS		1.3
1960-61	46	0.3	1.4	980	11	6	500E
1961-62	308	0.2	5.8	4190	2	11	500
1962-63	4.6	1.1	1.6	1160	2	9	60
1963-64	1.2	0.5	1.0	697	1	22	70
1964-65	5.9	0.3	0.6	432	4	9	35
1965-66	942	0.4	12.7	9240	12	29	4040
1966-67	90	0.8	11.4	8270	1	24	265
1967-68	38	0.3	2.8	2000	11	21	200
1968-69	NO RECORD				2	25	5900E
1969-70	50	0.1	5.3	3860	3	1	200E
1970-71	195		5.2	4510	11	29	620
1971-72	33	0	2.2	1600	12	25	79
1972-73	458	0	5.1	3670	2	11	953
1973-74	70	0	2.3	1670	1	7	264
1974-75	13	0	1.1	813	12	4	59
1975-76	10	0	0.4	259	2	9	24
1976-77	9.1	0	0.2	147	5	8	38

B = RECORD BEGAN AT R LOCATION 04-03-70.  
E = ESTIMATE

**STATION NO. F 108 - R  
CASTAIC CREEK  
at Highway 126**

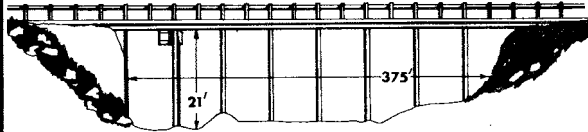


**drainage area**



F108-R

**cross-section**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from bridge  
 DRAINAGE AREA - 202.5 square miles  
 LOCATION - 1.5 miles west of junction of Highway 126  
 and Highway 5, about 6.0 miles northwest of Saugus  
 REGULATION - none  
 CHANNEL - sand and gravel, natural section  
 CONTROL - channel forms control  
 LENGTH OF RECORD - December 27, 1945, to date

**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F108-R

DAILY DISCHARGE in second-feet of CASTAIC CREEK AT HIGHWAY 126 FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0.4	0.1	0.3	0	0.6	0.6	+	0	0	0	0
2	0	0.3	0.1	0.3	0	0.6	0.5	+	0	0	0	0
3	0	0.3	0.1	0.4	0	0.6	0.6	+	0	0	0	0
4	0	0.4	0.1	0.4	0	0.6	0.6	+	0	0	0	0
5	0	0.3	0.1	0.4	+	0.6	0.5	0	0	0	0	0
6	0.1	0.3	0.1	0.4	0.3	0.6	0.4	0	0	0	0	0
7	0.1	0.3	0.1	0.5	0.8	0.6	0.5	0	0	0	0	0
8	0	0.3	0.1	0.4	2.3	0.6	0.5	0	0	0	0	0
9	0	0.3	0.2	0.4	14.7	0.6	0.4	0	0	0	0	0
10	0	0.3	0.2	0.3	7.7	0.6	0.3	+	0	0	0	0.1
11	0	0.3	0.2	0.3	1.3	0.6	0.3	0	0	0	0	1.8
12	+	0.3	0.1	0.3	0.8	0.6	0.3	0	0	0	0	0.1
13	0	0.3	0.1	0.3	0.7	0.6	0.3	0	0	0	0	0
14	0	0.3	0.1	0.2	0.6	0.6	0.3	0	0	0	0	0
15	0	0.3	0.1	0.2	0.6	0.7	0.3	0	0	0	0	0
16	0	0.3	0.2	0.2	0.6	0.7	0.3	0	0	0	0	0
17	0	0.3	0.2	0.2	0.5	0.7	0.3	0	0	0	0	0
18	+	0.3	0.2	0.2	0.5	0.8	0.3	0	0	0	0	0
19	0.1	0.2	0.2	0.1	0.5	0.8	0.2	0	0	0	0	0
20	0	0.2	0.2	0.1	0.5	0.7	0.1	0	0	0	0	0
21	0	0.1	0.2	0.1	0.5	0.7	+	0	0	0	0	0
22	0	0.1	0.3	0.1	0.5	0.7	+	0	0	0	0	0
23	0	0.1	0.3	0.1	0.6	0.8	+	0	0	0	0	0
24	0	0.2	0.4	+	0.6	0.8	+	0	0	0	0	0
25	0	0.4	0.3	+	0.5	0.7	+	0	0	0	0	0
26	0	0.1	0.3	+	0.6	0.6	+	0	0	0	0	0
27	0	0.1	0.3	+	0.5	0.6	0.1	0	0	0	0	0
28	0.1	0.1	0.3	+	0.5	0.7	0.1	0	0	0	0	0
29	0.2	0.1	0.3	0	0.5	0.7	0.1	0	0	0	0	0
30	0.3	0.1	0.3	0		0.8	+	0	0	0	0	0
31	0.4		0.3	+		0.7		0	0	0	0	

MEAN	+	0.2	0.2	0.2	1.3	0.7	0.3	0	0	0	0	0.1
ACRE- FEET	2.6	14.7	12.1	12.3	73.8	41.2	15.7	0	0	0	0	4.0

YEAR OR PERIOD \_\_\_\_\_ MEAN ACRE-FEET 0.2  
176

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F 108-R

DAILY DISCHARGE IN SECOND-FOOT OF Castaic Creek at Highway 126 FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 77

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	+	0	0	0.2	0.4	0.4	0	+	0.2		
2	0	+	0	0.1	0.2	0.3	0.4	0	+	0.1		
3	0	+	0	59.3	0.2	0.3	0.3	0	0.1	0		
4	0	+	0	0.9	0.2	0.3	0.3	0	0.2	0		
5	0	+	0	0.5	0.2	0.3	0.4	0	0.1	0		
6	0	+	0	20.7	0.3	0.3	0.4	0	0.1	0		
7	0	0.1	0	21.6	0.2	0.3	0.3	0	0.1	0		
8	0	+	0	1.5	0.3	0.3	0.3	20.2	0.1	0		
9	+	+	0	0.4	0.3	0.2	0.3	3.3	0.1	0		
10	0.1	+	0	0.3	0.3	0.2	0.2	1.0	0.2	0		
11	0.1	0.2	0	0.2	0.3	0.1	0.2	0.5	0.2	+		
12	+	0.3	0	0.2	0.3	0.1	0.3	0.5	0.1	0.1		
13	0	0.2	0	0.2	0.4	0.1	0.3	0.4	+	0.2		
14	0	0	0	0.2	0.4	0.1	0.3	0.4	0.1	+		
15	0.1	0.1	0	0.2	0.4	+	0.2	0.3	0.2	+		
16	0.3	0.2	0	0.2	0.4	0.2	0.2	0.3	0.2	+		
17	0.3	0.1	0	0.2	0.4	0.2	0.2	0.2	0.1	+		
18	0.3	0.4	0	0.2	0.4	0.2	0.1	0.2	0.1		NO RECORD	NO RECORD
19	0.1	0.2	0	0.2	0.4	0.2	+	0.2	+			
20	0.1	0	0	0.2	0.3	0.2	0	0.2	0.1			
21	0.1	+	0	0.2	0.3	0.2	0	0.2	0.1			
22	+	0	0	0.2	0.3	0.2	0	0.2	0.1			
23	0	+	0	0.1	0.3	0.2	0	0.3	+			
24	0	+	0	0.1	0.3	0.2	0	0.3	0			
25	0	0	0	0.1	0.3	1.3	0	0.2	0.1			
26	0.1	0	0	+	0.3	0.7	0	0.2	0.1		NO RECORD	
27	0.4	0	0	+	0.3	0.5	0	0.1	0.1			
28	0.5	0	0	+	0.4	0.4	0	0.1	0.1			
29	0.2	0	0	+		0.3	0	0.2	0.3			
30	+	0	0	0.1		0.3	0	0.3	0.3			
31	+		0	0.1		0.4		0.1				

MEAN	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
ACRE FEET	5.3	3.6	0	215.0	17.1	17.9	10.1	59.3	6.5	1.2	N.R.	N.R.

YEAR OR PERIOD MEAN ACRE-FEET Incomplete  
Incomplete

STATION DATA SUMMARY

STA. NO. F108-R  
CASTAIC CREEK AT HIGHWAY 126

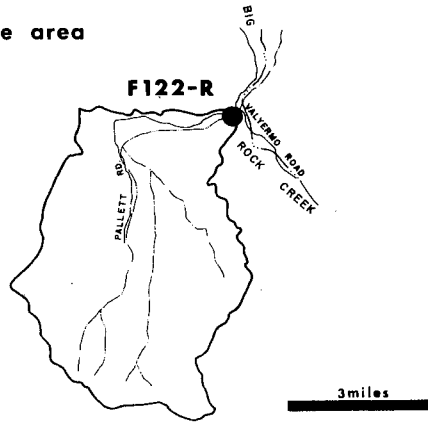
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW CFS		
					MON	DAY	CFS
1946-47	435	0	4.2	3080	12	26	1440
1947-48	24	0	0.1	77	3	24	243
1948-49	0	0	0	0			0
1949-50	0	0	0	0			0
1950-51	0	0	0	0			0
1951-52	1450	0	26.6	19330	1	15	4200
1952-53	31	0	0.2	133	12	2	377
1953-54	270	0	1.4	977	2	19	1480
1954-55	27	0	0.2	134	4	30	82
1955-56	123	0	0.4	311	1	26	281
1956-57	63	0	0.2	184	1	13	237
1957-58	1450	0	33.4	24180	4	3	2690
1958-59	170	0	0.6	472	2	16	466 E
1959-60	0	0	0	0			0
1960-61	0.4	0	+	08	11	6	3.1
1961-62	2190	0	20.5	14850	2	11	3170
1962-63	8.1	0	+	32	3	16	76
1963-64	0.2	0	+	0.4	1	22	1.5E
1964-65	24	0	0.1	78	4	9	96
1965-66	2350	0	18.5	13420	12	29	9900 ✓
1966-67	829	0	37.8	27420	1	24	4250
1967-68	236	0	9.1	6610	11	30	1820
1968-69	6980	0	137	99400	2	25	19300 ✓
1969-70	112	0.4	8.6	6270	2	10	212
1970-71	153	0	5.1	3690	11	29	355
1971-72	17	0	2.0	1490	12	24	35
1972-73	1910	0	23.9	17280	2	11	4630
1973-74	474	0	9.5	6900	1	8	695
1974-75	88	0	3.3	2400	12	4	232
1975-76	15	0	0.2	176	2	9	40
1976-77	*	*	*	*	1	3	362

+ = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0.  
E = ESTIMATE  
\* = RECORD INCOMPLETE

**STATION NO. F 122-R  
PALLETT CREEK  
at Valyermo Highway**

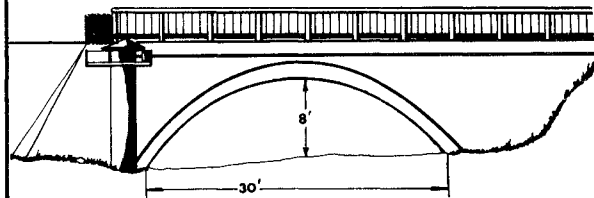


**drainage area**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from bridge  
 DRAINAGE AREA - 15.8 square miles  
 LOCATION - upstream side of Valyermo Highway bridge,  
 5.0 miles southeast of Pearblossom  
 REGULATION - none  
 CHANNEL - sand and gravel, natural section  
 CONTROL - channel farms control for low flows; bridge  
 culvert farms control for high flows  
 LENGTH OF RECORD -  
 at Station F122-S, December 29, 1930, to October 31, 1961  
 at Station F122-R, October 31, 1961, to date

**cross-section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F122-R

DAILY DISCHARGE in second-feet of PALLETT CREEK AT VALYERMO HWY. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	0.1	0.2	0.2	0.4	0.3	0.1	0.1	0	0	0
2	0	0	0.1	0.2	0.2	0.4	0.3	0.1	0.1	0	0	0
3	0	0	0.1	0.2	0.2	0.4	0.3	0.1	0.1	0	0	0
4	0	0	0.1	0.2	0.2	0.4	0.3	0.1	0.1	0	0	0
5	0	0	0.1	0.2	0.2	0.4	0.3	0.1	0.1	0	0	0
6	0	0	0.1	0.2	0.2	0.4	0.3	0.1	+	0	0	0
7	0	0	0.1	0.2	0.2	0.4	0.2	0.1	+	0	0	0
8	0	0	0.1	0.2	0.4	0.4	0.2	0.1	+	0	0	0
9	0	0	0.1	0.2	0.8	0.4	0.2	0.1	+	0	0	0
10	0	0	0.1	0.2	0.3	0.4	0.2	0.1	+	0	0	0
11	0	0	0.1	0.2	0.3	0.4	0.2	0.1	+	0	0	0
12	0	0	0.1	0.2	0.3	0.3	0.2	0.1	+	0	0	0
13	0	+	0.1	0.2	0.3	0.3	0.2	0.1	+	0	0	0
14	0	+	0.1	0.2	0.3	0.3	0.2	0.1	0	0	0	0
15	0	+	0.1	0.2	0.3	0.3	0.2	0.1	0	0	0	0
16	0	+	0.1	0.2	0.3	0.3	0.2	0.1	0	0	0	0
17	0	+	0.1	0.2	0.3	0.3	0.2	0.1	0	0	0	0
18	0	+	0.2	0.2	0.3	0.3	0.2	0.1	0	0	0	0
19	0	+	0.2	0.2	0.3	0.3	0.2	0.1	0	0	0	0
20	0	+	0.2	0.2	0.3	0.3	0.2	0.1	0	0	0	0
21	0	0.1	0.2	0.2	0.3	0.3	0.2	0.1	0	0	0	0
22	0	0.1	0.2	0.2	0.3	0.3	0.2	0.1	0	0	0	0
23	0	0.1	0.2	0.2	0.3	0.3	0.2	0.1	0	0	0	0
24	0	0.1	0.2	0.2	0.3	0.3	0.2	0.1	0	0	0	2.5
25	0	0.1	0.2	0.2	0.3	0.4	0.2	0.1	0	0	0	0
26	0	0.1	0.2	0.2	0.3	0.4	0.2	0.1	0	0	0	0
27	0	0.1	0.2	0.2	0.3	0.4	0.2	0.1	0	0	0	0
28	0	0.1	0.2	0.2	0.3	0.4	0.2	0.1	0	0	0	0
29	0	0.1	0.2	0.2	0.3	0.4	0.1	0.1	0	0	0	0
30	0	0.1	0.2	0.2	0.3	0.4	0.1	0.1	0	0	0	0
31	0	0	0.2	0.2	0.3	0.3	0.1	0.1	0	0	0	0

MEAN	0	+	0.1	0.2	0.3	0.4	0.2	0.1	+	0	0	0.1
ACRE- FEET	0	2.0	8.9	12.3	17.1	21.8	12.7	6.1	1.0	0	0	4.2

YEAR OR PERIOD MEAN ACRE-FEET 0.1  
86.8

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F122-R

DAILY DISCHARGE in second-feet of PALLETT CREEK AT VALYERMO HWY.

FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0
2	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0
3	0	0	0	0.5	0.1	0.1	+	0.1	+	0	0	0
4	0	0	0	0.1	0.1	0.1	+	0.1	+	0	0	0
5	0	0	0	0.1	0.1	0.1	+	0.1	+	0	0	0
6	0	0	0	0.1	0.1	0.1	0.1	0.1	+	0	0	0
7	0	0	0	0.1	0.1	0.1	0.1	0.1	+	0	0	0
8	0	0	0	0.1	+	0.1	0.1	0.1	2.5	0.1	0	0
9	0	0	0	0.1	0.1	0.1	0.1	0.5	+	0	0	0
10	0	0	0	0.1	+	0.1	0.1	0.1	0.3	0	0	0
11	0	0	0	0.1	+	+	0.1	0.3	0	0	0	0
12	0	0	0	0.1	+	0.1	0.1	0.3	0	0	0	0
13	0	0	0	0.1	+	0.1	0.1	0.2	0	0	0	0
14	0	0	0	0.1	0.1	+	0.1	0.2	0	0	0	0
15	0	0	+	0.1	0.1	+	0.1	0.2	0	0	0	0
16	0	0	+	0.1	0.1	0.1	0.1	0.2	0	0	0	0
17	0	0	+	0.1	0.1	0.1	0.1	0.2	0	0	+	0
18	0	0	+	0.1	0.1	0.1	0.1	0.3	0	0	0	0
19	0	0	+	0.1	0.1	0.1	0.1	0.2	0	0	0	0
20	0	0	+	0.1	0.1	0.1	0.1	0.2	0	0	0	0
21	0	0	+	0.1	0.1	0.1	0.1	0.2	0	0	0	0
22	0	0	+	0.1	0.1	0.1	0.1	0.2	0	0	0	0
23	0	0	+	0.1	0.1	+	0.1	0.2	0	0	0	0
24	0	0	+	0.1	0.1	0.1	0.1	0.2	0	0	0	0
25	0	0	+	0.1	0.1	0.1	0.1	0.2	0	0	0	0
26	0	0	+	0.1	0.1	0.1	0.1	0.2	+	0	0	0
27	0	0	+	0.1	0.1	0.1	0.1	0.1	0	0	0	0
28	0	0	+	0.1	0.1	0.1	0.1	0.1	0	0	0	0
29	0	0	+	0.1	0.1	0.1	0.1	0.1	0	0	0	0
30	0	0	+	0.1	0.1	0.1	0.1	0.1	0	0	0	0
31	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0

MEAN	0	0	+	0.1	0.1	0.1	0.1	0.3	+	0	+	0
ACRE- FEET	0	0	0.2	6.9	4.6	5.4	5.4	15.9	0.6	0	+	0

YEAR  
OR  
PERIOD MEAN 0.1  
ACRE-FEET 39

STATION DATA SUMMARY

STA. NO. F122-R  
PALLETT CREEK AT VALYERMO HIGHWAY

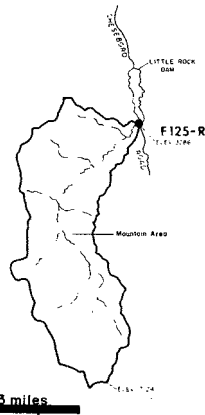
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW		
					MON	DAY	CFS
1961-62	92	0	0.4	311	2	11	259
1962-63	0.7	0	0.3	190	2	9	3.0
1963-64	0	0	0	0			
1964-65	0.3	0	+	0.6	8	12	16
1965-66	53	0	1.5	1110	12	29	176
1966-67	3.8	0.3	0.8	618	12	6	6.6
1967-68	5.0	0.3	0.8	615	11	21	9.6
1968-69	770	0.3	7.8	5640	2	25	1480
1969-70	37	0.6	1.2	846	2	28	161
1970-71	183	0.1	1.0	744	11	29	839
1971-72	56	0.1	0.6	452	12	25	282
1972-73	6.5	+	0.2	156	2	11	24
1973-74	0.6	0.1	0.3	213	12	11	0.5
1974-75	1.6	0	0.2	140	12	4	10
1975-76	2.5	0	0.1	86.8	9	24	51
1976-77	2.5	0	0.6	39	5	8	10

\* = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0.

**STATION NO. F125 - R  
SANTIAGO CREEK  
above Little Rock Creek**

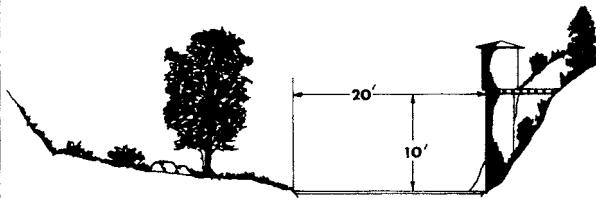


**drainage area**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading  
 DRAINAGE AREA - 11.2 square miles  
 LOCATION - 1,000 feet above Little Rock Creek and  
 4.5 miles south of Little Rock  
 REGULATION - none  
 CHANNEL - sand, gravel and boulders  
 CONTROL - concrete and rubble wall  
 LENGTH OF RECORD - September 29, 1953 to date  
 REMARKS - no high flow measurements

**cross-section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F125-R

DAILY DISCHARGE in second-feet of SANTIAGO CREEK ABOVE LITTLE ROCK CREEK FOR THE WATER YEAR ENDING SEPTEMBER 30, 1956

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	0	0	0	0.3	0.1	+	0	0	0	0
2	0	0	0	0	0	0.4	0.1	+	0	0	0	0
3	0	0	0	0	0	0.1	0.1	+	0	0	0	0
4	0	0	0	0	0	0.1	0.2	+	0	0	0	0
5	0	0	0	0	0	0.1	0.1	+	0	0	0	0
6	0	0	0	0	0	0.1	0.1	0.1	0	0	0	0
7	0	0	0	0	0	0.1	0.1	0.2	0	0	0	0
8	0	0	0	0	0	0.1	0.2	+	0	0	0	0
9	0	0	0	0	3.1	0.1	0.2	+	0	0	0	0
10	0	0	0	0	1.3	0.2	0.2	+	0	0	0	0
11	0	0	0	0	0.1	0.2	0.2	+	0	0	0	0
12	0	0	0	0	0.1	0.2	0.2	+	0	0	0	0
13	0	0	0	0	0	0.2	0.2	0	0	0	0	0
14	0	0	0	0	0	0.1	0.3	0	0	0	0	0
15	0	0	0	0	0	0.1	0.4	0	0	0	0	0
16	0	0	0	0	0	0.1	0.3	0	0	0	0	0
17	0	0	0	0	0	0.2	0.2	0	0	0	0	0
18	0	0	0	0	0	0.2	0.2	0	0	0	0	0
19	0	0	0	0	0	0.2	0.2	0	0	0	0	0
20	0	0	0	0	0	0.2	0.1	0	0	0	0	0
21	0	0	0	0	0	0.2	0.1	0	0	0	0	0
22	0	0	0	0	0	0.1	0.1	0	0	0	0	0
23	0	0	0	0	0	0.2	+	0	0	0	0	0
24	0	0	0	0	0	0.2	+	0	0	0	0	1.4
25	0	0	0	0	0	0.2	+	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	0	0	0	0
28	0	0	0	0	0	0.1	+	0	0	0	0	0
29	0	0	0	0	0	0.1	+	0	0	0	0	0
30	0	0	0	0	0	0.1	+	0	0	0	0	0
31	0	0	0	0	0	0.1	0	0	0	0	0	0

MEAN	0	0	0	0	0.2	0.2	0.1	+	0	0	0	0.5
ACRE- FEET	0	0	0	0	9.1	9.9	7.9	0.6	0	0	0	37

YEAR OR PERIOD \_\_\_\_\_ MEAN ACRE-FEET \_\_\_\_\_ 0.1 54.5

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F125-R

DAILY DISCHARGE in second-feet of SANTIAGO CREEK ABOVE LITTLE ROCK CREEK FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	0	0	+	0.1	0.1	+	+	0	0	0
2	0	0	0	0	0.1	0.1	0.1	+	+	0	0	0
3	0	0	0	0	+	0.1	+	+	+	0	0	0
4	0	0	0	0	+	0.2	+	+	0	0	0	0
5	0	0	0	0	+	0.1	+	+	0	0	0	0
6	0	0	0	0	+	0.1	+	+	0	0	0	0
7	0	0	0	0	+	0.1	+	+	0	0	0	0
8	0	0	0	0	+	0.1	+	2.8	0	0	0	0
9	0	0	0	0	+	0.1	+	5.5	0	0	0	0
10	0	0	0	0	+	0.1	+	3.4	0	0	0	0
11	0	0	0	0	+	0.1	+	B 2.9	0	0	0	0
12	0	0	0	0	+	0.1	+	B 2.4	0	0	0	0
13	0	0	0	0	+	0.1	+	1.9	0	0	0	0
14	0	0	0	0	+	0.1	+	2.1	0	0	0	0
15	0	0	0	0	+	0.1	+	1.7	0	0	0	0
16	0	0	0	0	+	0.2	+	2.1	0	0	0	0
17	0	0	0	0	+	0.2	+	1.9	0	0	0	0
18	0	0	0	0	+	0.1	+	B 1.7	0	0	0	0
19	0	0	0	0	+	0.1	+	B 1.6	0	0	0	0
20	0	0	0	0	+	0.1	+	B 1.4	0	0	0	0
21	0	0	0	0.5	+	0.1	+	B 1.2	0	0	0	0
22	0	0	0	0.2	+	0.1	+	B 1.0	0	0	0	0
23	0	0	0	0.2	0.1	0.1	+	B 0.8	0	0	0	0
24	0	0	0	0.1	0.2	0.2	+	B 0.7	0	0	0	0
25	0	0	0	0.1	0.2	0.2	+	B 0.5	0	0	0	0
26	0	0	0	+	0.1	0.1	+	0.4	0	0	0	0
27	0	0	0	+	0.1	0.1	+	0.1	0	0	0	0
28	0	0	0	+	0.1	0.1	+	+	0	0	0	0
29	0	0	0	+	0.1	0.1	+	+	0	0	0	0
30	0	0	0	+	0.1	0.1	+	+	0	0	0	0
31	0	0	0	+	0.1	0.1	+	+	0	0	0	0

MEAN	0	0	0	+	+	0.1	+	1.2	+	0	0	0
ACRE- FEET	0	0	0	2.2	1.8	7.1	0.4	72	+	0	0	0

YEAR OR PERIOD MEAN ACRE-FEET 0.1  
83.5

STATION DATA SUMMARY

STA. NO. F125-R  
SANTIAGO CREEK ABOVE LITTLE ROCK CREEK

SEASON	MAX	MIN	MEAN	TOTAL	PEAK		FLCW CFS
	DAILY CFS	DAILY CFS	DAILY CFS	RUNOFF A.F.	MON	TAY	
1953-54	24	0	0.9	631	1	25	44
1954-55	13	0	0.8	602	2	17	16
1955-56	41	0	0.6	406	1	26	87
1956-57	6.8	0	0.3	199	1	13	15
1957-58	58	0	3.2	2280	4	3	107
1958-59	10	0	0.5	386	2	16	21
1959-60	1.3	0	0.1	75	2	2	1.6
1960-61	*	0	+	+	3	5	0.5
1961-62	118	0	1.3	945	2	11	199
1962-63	0.9	0	+	19	4	21	1.0
1963-64	0.4	0	+	10	4	2	0.6
1964-65	3.5	0	0.1	87	4	20	4.0
1965-66	78	0	1.3	926	12	29	269
1966-67	38	0	1.4	982	12	6	66
1967-68	9.5	0	0.5	380	11	21	17
1968-69	34.5	0	5.3	4170	1	25	1140
1969-70	14	0	0.6	455	3	1	21
1970-71	7.2	0	0.4	290	11	29	22
1971-72	3.2	0	0.1	75	12	24	5.0
1972-73	72	0	0.9	640	2	11	175
1973-74	4.3	0	0.2	144	1	17	6.3
1974-75	3.8	0	0.2	121	3	6	6.0
1975-76	14	0	0.1	54.5	9	24	1060
1976-77	5.5	0	0.11	83	5	9	9

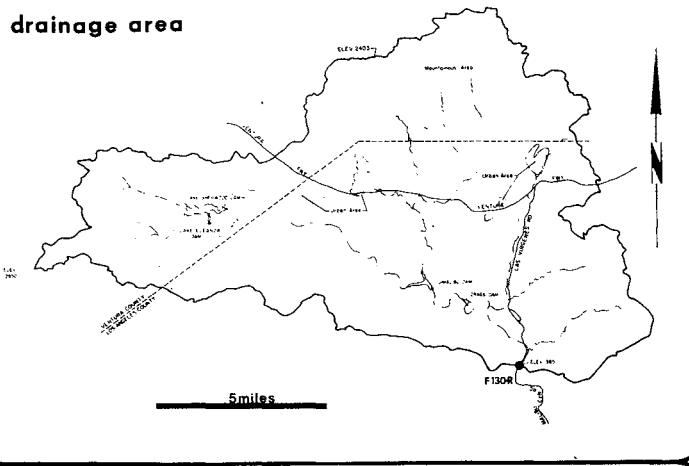
\* = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0.



**STATION NO. F 130 - R  
MALIBU CREEK  
below Cold Creek**

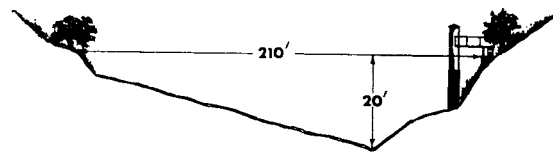


**drainage area**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from cable car  
 DRAINAGE AREA - 103.0 square miles  
 LOCATION - 0.2± mile downstream of Cold Creek, 6.0 miles southwest of Calabasas  
 REGULATION - Lake Sherwood Dam, Lake Eleanor Dam, Malibu Lake Dam, and Crog's Dam. Other small recreational dams affect low summer flows.  
 CHANNEL - coarse sand and gravel, lined with trees and brush, natural in section  
 CONTROL - concrete stabilizer  
 LENGTH OF RECORD - January 17, 1931, to date  
 REMARKS - cableway washed out on January 25, 1969; no high flow measurements since that date

**cross-section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F130-R

DAILY DISCHARGE in second-feet of MALIBU CREEK BELOW COLD CREEK FOR THE WATER YEAR ENDING SEPTEMBER 30, 1926

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	4.2	5.3	7.7	3.8	3.1	12.7	4.6	4.6	3.1	1.7	1.5	1.1
2	3.8	5.1	7.4	3.5	3.1	21.2	4.6	4.4	4.2	1.5	1.5	1.2
3	4.2	4.6	4.4	3.5	3.1	43.5	4.4	4.2	2.2	1.4	1.7	1.4
4	4.2	4.4	4.2	3.3	5.1	15.7	4.6	4.4	2.0	1.7	1.5	1.4
5	4.4	5.8	8.4	3.8	10.9	14.1	8.1	4.4	2.0	1.4	1.5	1.4
6	6.4	5.8	5.7	3.5	11.4	11.8	11.4	4.8	1.9	1.7	1.4	1.9
7	7.1	6.1	9.0	3.3	16.5	11	5.3	5.6	1.9	1.9	1.2	1.7
8	8.0	5.1	8.6	8.2	16.3	11	9.1	5.3	2.0	1.5	1.1	1.4
9	6.6	4.4	6.6	10.6	16.3	11	11.2	4.4	2.2	1.4	1.1	1.7
10	5.1	4.2	5.9	9.2	89.5	10.6	4.4	4.0	2.3	1.4	1.1	6.8
11	3.3	4.4	5.2	3.8	24.8	10.2	3.8	3.3	2.3	1.2	1.1	12.7
12	3.1	5.1	9.6	3.1	16.8	12.4	5.0	2.9	2.5	1.1	1.2	6.3
13	3.3	4.6	8.6	3.3	10.6	14.8	13.5	2.7	2.5	1.4	1.4	6.1
14	2.7	3.8	8.3	4.8	8.0	10.6	8.3	2.5	2.3	1.4	1.4	4.0
15	3.3	5.2	8.3	4.6	6.1	9.3	5.0	2.3	1.9	1.7	1.4	2.2
16	4.0	3.5	7.4	4.2	5.6	6.1	4.2	2.2	1.5	1.7	1.2	2.0
17	2.9	5.3	3.3	3.5	6.3	4.4	3.0	2.0	1.5	1.2	1.5	1.9
18	2.3	7.4	8.6	3.1	10.8	4.8	4.0	2.2	1.5	1.5	1.5	1.7
19	3.8	6.8	6.8	2.9	15.8	4.8	3.8	2.3	1.9	1.5	1.7	1.7
20	3.1	9.5	3.8	3.1	14.4	4.6	4.2	2.5	2.5	1.9	1.5	1.7
21	4.0	10.2	3.1	4.8	10.2	3.5	4.2	2.3	2.2	2.0	1.7	1.9
22	4.2	9.7	2.7	6.0	9.4	3.5	4.4	2.2	1.5	2.2	1.9	1.9
23	3.3	9.3	3.1	10.2	9.7	4.4	4.6	2.5	1.2	2.2	1.9	2.0
24	2.7	9.3	4.2	4.0	8.4	4.4	4.4	2.7	1.7	2.0	1.9	2.0
25	4.0	9.3	3.8	3.1	7.7	3.8	4.2	2.5	1.7	1.7	1.9	2.0
26	3.3	9.8	4.4	3.1	7.4	4.2	4.0	2.0	1.7	1.5	1.7	2.0
27	2.9	8.3	5.8	2.9	7.4	5.0	4.4	1.9	1.5	1.4	1.5	2.2
28	4.2	5.7	7.7	4.0	9.7	3.8	4.6	1.7	1.2	1.4	1.5	2.2
29	3.6	7.3	5.8	6.0	10.6	4.4	4.6	1.9	1.2	1.2	1.5	2.7
30	4.6	7.4	2.5	12		4.2	4.6	1.9	1.7	1.4	1.5	4.2
31	4.6		2.3	6.5		4.0		2.3		1.5	1.2	
MEAN	4.1	6.4	5.9	4.9	18	9.4	5.6	3.1	2.0	1.6	1.5	2.8
TOTAL FEET	254	381	363	301	1,040	577	332	188	119	96.6	90.6	165
YEAR OR PERIOD												
MEAN ACRE-FEET												5.4
												3,910

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F130-R

DAILY DISCHARGE in second-feet of MALIBU CREEK BELOW COLD CREEK FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	5.1	2.5	5.6	8.6	8.3	6.1	4.0	2.7	3.1	1.7	1.1	2.2
2	5.8	2.5	4.4	13.5	5.3	6.6	4.0	2.3	3.3	1.7	1.1	2.2
3	2.3	2.5	5.1	15.3	6.7	8.5	4.0	2.3	3.3	1.9	1.1	2.2
4	2.0	2.7	6.3	19.4	9.9	4.6	3.8	2.2	3.3	1.9	1.2	2.0
5	1.7	2.5	7.4	12.6	9.3	6.7	3.8	2.3	3.1	1.9	1.5	1.5
6	1.5	2.5	7.7	93.5	9.3	5.1	3.3	2.5	3.1	1.9	1.7	1.5
7	1.7	2.3	5.3	31.5	6.1	5.8	3.3	4.0	3.5	2.0	1.4	1.4
8	1.9	2.5	2.5	55.6	5.1	5.3	3.3	37.1	3.5	2.0	1.2	1.5
9	1.7	3.1	5.9	24.8	4.2	2.9	3.1	84.4	3.5	2.0	1.2	1.7
10	1.5	2.9	7.7	17.9	7.7	3.1	3.1	43.7	3.3	1.9	1.4	1.9
11	1.2	3.1	7.4	13.5	7.7	4.8	2.7	14.8	3.1	1.9	1.2	1.7
12	1.2	5.6	7.1	9.6	5.3	7.7	2.7	13.9	2.5	1.9	1.2	1.7
13	1.1	8.4	5.5	7.4	5.8	4.8	3.1	11.8	2.3	1.9	1.1	1.7
14	1.2	4.2	4.7	10.4	8.0	10.5	2.7	9.9	2.5	2.0	1.4	1.9
15	1.4	4.0	2.7	11.4	4.6	10.9	2.7	8.6	2.5	1.9	1.5	2.0
16	1.4	9.3	3.3	11.4	4.2	9.7	2.5	5.3	2.2	1.9	1.4	2.3
17	1.5	9.0	6.3	11.8	5.7	20.3	2.5	4.8	2.2	1.7	2.5	2.0
18	1.7	8.0	6.8	11.8	3.3	12.3	2.3	4.6	2.2	1.5	10.3	1.7
19	1.7	6.6	7.1	12.2	3.5	8.0	2.3	4.6	2.0	1.7	4.0	1.5
20	1.5	6.8	7.4	12.2	5.4	7.4	2.7	4.6	2.2	1.7	2.7	1.5
21	1.5	7.4	6.1	9.6	7.2	5.8	2.7	4.8	2.2	1.7	2.3	1.4
22	1.9	8.3	3.3	9.4	8.3	6.1	2.7	4.6	2.2	1.5	2.2	1.5
23	2.0	8.6	3.1	11.8	7.7	5.1	2.7	4.6	2.3	1.7	2.2	1.9
24	1.9	7.7	3.3	12.2	8.6	4.0	2.9	7.4	2.3	1.9	1.9	1.9
25	1.9	7.1	4.6	13.9	7.1	51.2	2.9	9.0	2.2	1.7	2.2	1.5
26	1.7	7.1	6.8	13.1	7.7	24.9	3.1	5.3	2.2	1.7	2.2	1.5
27	1.7	3.3	7.7	10.6	6.3	9.6	3.3	4.8	2.0	1.5	2.5	1.9
28	1.7	6.5	7.4	10.4	6.6	7.1	3.1	4.6	1.9	1.5	2.5	1.9
29	2.0	8.3	6.8	12.2		6.3	2.9	4.0	1.9	1.4	2.5	1.9
30	3.1	8.0	8.0	13.1		5.6	2.7	3.3	1.7	1.2	2.3	2.0
31	2.5		9.3	12.2		4.6		2.9		1.1	2.3	

MEAN ACRE- FEET	2.0	5.4	5.9	30.8	5.6	9.1	3.0	10.4	2.6	1.7	2.8	1.8
	121	324	362	1,890	367	558	180	638	154	107	174	106

YEAR  
OR  
PERIOD MEAN  
ACRE-FEET 6.8  
4,980

STATION DATA SUMMARY

STA. NO. F130-R  
MALIBU CREEK BELOW COLD CREEK

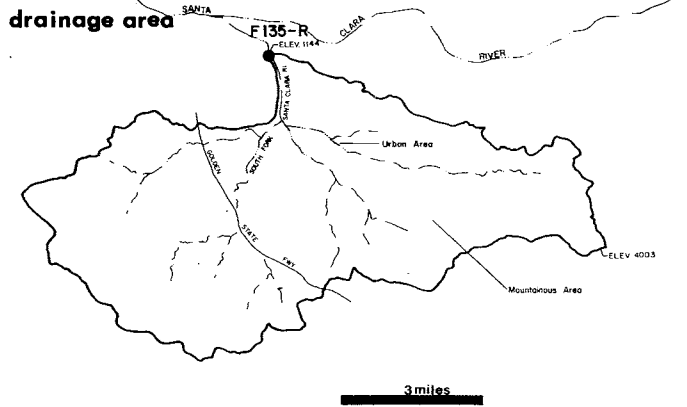
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK MON	FLCH DAY	CFS
1930-31	*	*	*	1920*	2	4	723
1931-32	1770	+	20.2	14670	2	9	3100
1932-33	1100	0.1	12.7	9190	1	19	4460
1933-34	3160	0.1	17.1	12370	1	1	9650
1934-35	511	+	6.6	6220			N.C.
1935-36	92	0	3.2	2310	2	23	147
1936-37	1680	0	33.1	23940	2	14	2760
1937-38	5090E	0.2	47.1	34100	3	2	10000E
1938-39	139	0	6.4	4630	12	20	331
1939-40	335	+	3.4	6100	2	2	690
1940-41	2200	0.1	10.1	73220	2	20	3620
1941-42	37	0.1	2.5	1820	12	28	140
1942-43	5370	0.1E	65.8	47600	1	22	12200
1943-44	3400	0.7E	41.6	30170	2	22	7700
1944-45	210	0.2	5.3	4240	2	2	516
1945-46	267	0.1	5.2	3800	3	30	506
1946-47	142	0.1	5.3	3820	11	13	980
1947-48	15	+	0.2	177	3	24	113
1948-49	0.6	+	0.1	90	5	18	0.6
1949-50	64	0	0.7	477	2	6	674
1950-51	0.3	0	0.1	56	1	11	2.9
1951-52	6720	0	80.2	58200	3	15	13600
1952-53	31	+	4.0	2940	11	15	322
1953-54	655	0.1	6.9	4990	2	13	2250
1954-55	16	0.1	1.0	758	1	18	45
1955-56	1260	0.1	6.5	4680	1	26	3600
1956-57	12	+	0.6	444	2	23	46
1957-58	1630	+	43.7	31660	4	3	4260
1958-59	114	0.1	2.1	1510	1	6	3180
1959-60	17	+	0.7	504	4	27	84
1960-61	2.C	+	0.1	99	1	26	8.0
1961-62	3920	+	36.3	26150	2	10	7060
1962-63	24	+	1.3	701	3	16	104
1963-64	17	+	0.5	384	1	22	65
1964-65	148	+	2.2	1560	4	9	521
1965-66	7060	0.2	51.8	37520	12	29	20600
1966-67	2710	0.9	35.5	25700	1	24	10200
1967-68	1350	1.0	18.5	13430	3	8	3830
1968-69	24200	1.4	166	119900	1	25	33800
1969-70	368	0.5	9.9	7200	3	4	1150
1970-71	1480	1.2	23.7	17300	12	19	7390
1971-72	582	0.9	6.0	4340	12	27	2120
1972-73	3340	0.8	35.1	25400	2	11	7480
1973-74	2240	2.7	22.0	15910	1	7	5100
1974-75	519	2.3	15.2	11020	12	4	2670
1975-76	163	1.1	5.4	3910	2	9	339
1976-77	315	1.1	6.9	4980	1	7	597

\* = RECORD INCOMPLETE  
+ = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0.  
N.C. = NOT DETERMINED  
E = ESTIMATE

**STATION NO. F 135-R  
SANTA CLARA RIVER-SO.FORK  
at Magic Mountain Parkway**

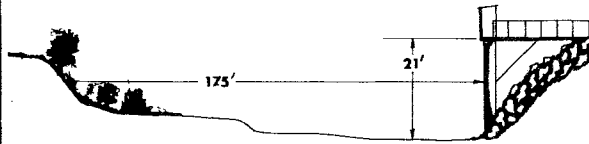


**drainage area**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from cable car  
 DRAINAGE AREA - 40.9 square miles  
 LOCATION - upstream side of Magic Mountain Parkway  
 800.0 feet west of San Fernando Road, Saugus  
 REGULATION - none  
 CHANNEL - natural, sand, and gravel  
 CONTROL - grouted rubble control under railroad bridge  
 LENGTH OF RECORD - September 9, 1947 to date  
 REMARKS - for measurements prior to September 9, 1947,  
 see Station F135-S

**cross-section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F135-R

DAILY DISCHARGE in second-feet of SANTA CLARA RIVER - SO. FORK AT MAGIC MTN. PKWY. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	0	0	0	+	0	0	0	0	2.0	0.1
2	0	0	0	0	0	10.3	0	0	0	0	1.8	+
3	0	0	0	0	0	1.3	0	0	0	0	1.8	0
4	0	0	0	0	0	0	0	0	0	0	1.8	0
5	0	0	0	0	0	0	0	0	0	0	2.0	2.0
6	0	0	0	0	24.7	0	0	0	0	0	1.3	1.5
7	0	0	0	0	40.5	0	0	0	0	0	0	0
8	0	0	0	0	35.1	0	0	0	0	0	0	0
9	0	0	0	0	105	0	0	0	0	0	0	0
10	0	0	0	0	3.5	0	0	0	+	0	0.4	52
11	0	0	0	0	0	0	0	0	0	0	1.5	1.2
12	0	0	0	0	0	0	0	0	0	0	0.8	0
13	0	0	0	0	0	0	0	0	0	0	1.3	0
14	0	0	0	0	0	0	0	0	0	0	2.0	0
15	0	0	0	0	0	0	0	0	0	0	1.2	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	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	+	0
22	0	0	0	0	0	4.5	0	0	0	0	+	0
23	0	0	0	0	0	0	0	0	0	0	+	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	+	0	0
27	0	0	0	0	0	0	0	0	0	0.6	0	0
28	0	0	0	0	0	0	0	0	0	1.2	0	0
29	0	0	0	0	0	0	0	0	0	0.5	0	0
30	0	0	0	0	0	0	0	0	0	0.9	0	0
31	0	0	0	0	0	0	0	0	0	1.2	+	0

MEAN	0	0	0	0	7.2	0.5	0	0	+	0.1	0.6	1.9
ACRE- FEET	0	0	0	0	414	31.9	0	0	+	8.7	25.5	113

YEAR OR PERIOD MEAN ACRE-FEET 0.9  
602

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F135-R

DAILY DISCHARGE in second-feet of SANTA CLARA RIVER - SO. FORK AT MAGIC MTN. PKWY. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	56.9	0	0	0	0	0	0	0	0
3	0	0	0	78.2	0	0	0	0	0	0	0	0
4	0	0	0	+	0	0	0	0	0	0	0	0
5	0	0	0	13.2	0	0	0	0	0	0	0	0
6	0	0	0	102	0	0	0	0	0	0	0	0
7	0	0	0	74	0	0	0	0	0	0	0	0
8	0	0	0	0.3	0	0	0	157	0	0	0	0
9	0	0	0	0	0	0	0	19.6	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	43.9	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	4.8	0	0	0	0	0	0
17	0	0	0	0	0	+	0	0	0	0	55.6	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	1.6	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	10.2	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	5.5	0	0	0	0	0	0	0	0	0
31	0	0	0.1	0	0	0	0	0	0	0	0	0

YEAR	+	1.5	0.2	10.5	0	0.5	0	5.7	0	0	1.8	0
ACRE- FEET	3.2	87.1	11.1	644	0	29.8	0	350	0	0	110	0

YEAR OR PERIOD MEAN ACRE-FEET 1.7  
1,240

STATION DATA SUMMARY

STA. NO. F135-R  
SANTA CLARA RIVER - SOUTH FORK AT MAGIC MOUNTAIN PARKWAY

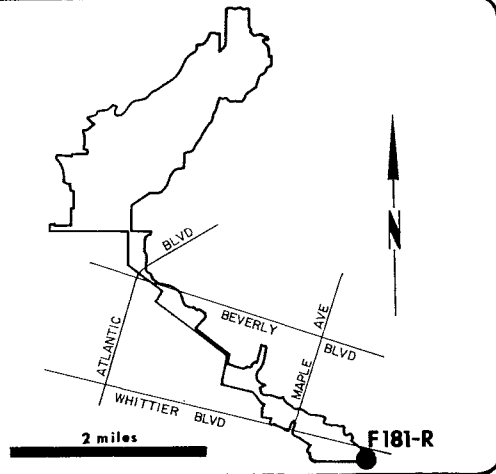
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW		
					MON	DAY	CFS
1947-48	19	0	0.1	84	3	24	82
1948-49	8.5	0	0.1	94	12	26	37
1949-50	12	0	0.1	101	1	9	71
1950-51	0.2	0	+	0.5	4	29	6.3
1951-52	1410	0	16.7	12100	1	15	6800
1952-53	71	0	0.5	390	12	1	1050
1953-54	129	0	1.4	1600	1	19	1100
1954-55	56	0	0.3	200	1	13	460
1955-56	278	0	1.0	753	1	26	573
1956-57	228	0	1.0	756	2	23	2030
1957-58	746	0	10.7	7750	4	3	3640
1958-59	137	0	0.8	605	1	6	2410
1959-60	13	0	0.2	109	1	11	120
1960-61	21	0	0.2	132	11	5	196
1961-62	1040	0	7.4	6790	2	12	3410
1962-63	176	0	1.1	799	3	16	1750
1963-64	93	0	1.2	846	1	22	870
1964-65	146	0	1.6	1160	4	9	960
1965-66	632	0	10.6	7700	11	17	5630
1966-67	594	0	7.2	5250	12	6	1820
1967-68	208	0	1.7	1200	11	19	1650
1968-69	2080	0	24.9	18050	2	25	7570
1969-70	164	0	2.0	1410	3	4	838
1970-71	1460	0	7.3	5300	11	29	6260
1971-72	341	0	2.3	1690	12	27	1490
1972-73	681	0	6.2	4520	2	11	4520
1973-74	626	0	3.0	2140	1	7	1180
1974-75	164	0	1.6	1120	12	4	1290
1975-76	105	0	0.9	603	2	9	586
1976-77	157	0	1.7	1235	5	8	1750

\* = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0.

**STATION NO. F 181- R  
MONTEBELLO STORM DRAIN  
above Rio Hondo**

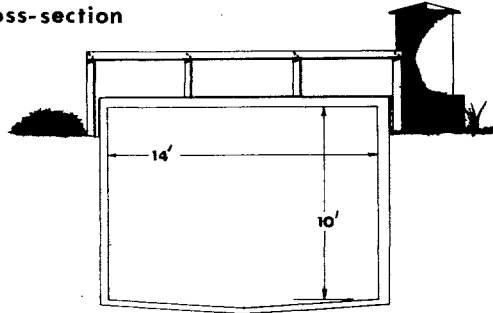


**drainage area**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from footbridge  
 DRAINAGE AREA - 9.6 square miles  
 LOCATION - 150.0 feet east of Mines Avenue and 500.0 feet west of Rio Hondo  
 REGULATION - None  
 CHANNEL - 14.0-foot by 10.0-foot concrete, box section  
 CONTROL - channel forms control  
 LENGTH OF RECORD - January 12, 1932, to date  
 REMARKS - may be affected by backwater during flood flows

**cross-section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. **F181-R**

DAILY DISCHARGE in second-feet of **MONTEBELLO STORM DRAIN ABOVE RIO HONDO** FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.2	+	+	+	+	7.6	+	0.1	0.1	0.1	0.1	0.1
2	0.3	+	0.1	+	+	26.5	+	+	0.1	0.1	0.1	0.1
3	0.2	+	+	+	0.1	4.8	0.2	+	0.2	0.1	0.1	0.1
4	0.1	+	+	+	2.2	0.1	0.9	+	0.2	0.1	0.2	+
5	0.1	+	+	+	0.5	0.1	+	0.1	0.1	0.1	0.1	4.4
6	2.4	+	0.1	+	9.5	0.1	+	+	0.2	0.1	0.3	0.1
7	0.2	+	0.2	+	18.2	0.1	+	0.2	0.2	0.1	0.2	0.1
8	+	+	0.1	+	14.9	0.1	0.4	+	0.2	0.2	0.1	0.1
9	+	+	0.2	+	63	0.1	+	+	0.1	0.2	0.1	+
10	+	+	0.1	+	37.9	7.2	0.1	+	2.9	0.1	0.2	39
11	4.4	+	+	+	0.8	0.1	+	0.1	+	0.1	0.2	17.4
12	+	+	1.7	+	0.1	0.1	0.9	0.1	0.1	0.1	0.1	+
13	+	+	+	+	+	0.1	0.6	0.1	+	0.2	0.3	+
14	+	+	+	0.1	+	0.1	+	0.1	0.1	0.2	0.1	+
15	0.1	+	+	+	+	0.1	0.1	0.1	0.1	0.2	0.8	+
16	0.1	+	+	0.2	+	0.1	+	+	0.1	0.1	0.2	+
17	0.1	+	+	0.1	+	0.1	+	+	0.1	0.1	0.1	+
18	+	+	+	+	+	0.1	+	0.1	0.1	0.1	0.1	+
19	+	0.3	0.3	+	+	0.1	+	0.1	0.1	0.1	0.1	+
20	+	0.2	+	+	+	0.1	+	0.1	+	0.1	0.1	+
21	+	0.2	+	0.1	+	0.1	+	0.4	0.1	0.2	0.1	+
22	+	0.2	+	+	+	0.1	+	0.3	0.1	0.2	0.1	+
23	+	0.2	+	+	+	0.2	+	0.2	+	0.3	0.2	+
24	+	0.2	+	+	+	0.3	+	0.1	0.1	0.2	0.1	8.7
25	+	0.2	+	+	+	+	0.1	0.1	0.1	0.1	0.1	0.4
26	+	0.1	+	+	0.1	+	+	0.2	0.2	0.2	0.1	+
27	+	0.1	+	+	0.1	+	+	0.1	0.2	0.1	0.1	+
28	+	+	+	0.2	0.1	+	+	0.1	0.2	0.2	+	+
29	+	+	+	0.1	0.1	+	+	0.2	0.2	0.1	0.1	+
30	1.4	+	+	0.1	+	+	0.1	0.1	0.2	0.2	0.1	+
31	+	+	+	0.1	+	+	+	0.1	0.1	0.1	0.1	+

MEAN	0.3	0.1	0.1	+	5.1	1.6	0.1	0.1	0.2	0.1	0.1	2.3
ACRE- FEET	19	3.4	5.6	2.0	293	36	6.7	6.1	12.7	8.7	9.3	149

YEAR OR PERIOD **MEAN ACRE-FEET**  
**603**

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F181-R

DAILY DISCHARGE in second-feet of MONTEBELLO STORM DRAIN ABOVE RIO HONDO FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.1	0	0.1	0	+	+	0.1	2.2	0	+	+	0
2	0.1	0.1	0.1	7.0	0.1	+	+	+	+	+	+	+
3	0	0	0.1	12.3	0.1	+	+	+	0	0	0	+
4	0.2	0.1	+	0	+	+	+	+	0	0	+	+
5	0	+	0.1	14.4	+	+	0.1	+	0	+	+	+
6	0	0	0.1	18	+	+	0.1	+	+	+	+	+
7	0	0	0.1	16.9	+	+	+	+	+	+	0	+
8	+	0	0.1	+	+	+	+	36.1	0.4	+	+	+
9	0	0	0.1	+	+	+	+	14.3	0	+	+	0
10	+	0	+	+	+	+	+	+	+	+	0	+
11	0	2.5	+	+	+	0.1	+	+	0	+	0	+
12	+	13	+	+	+	0.1	0.1	0.3	+	+	0	+
13	0.1	0	+	+	+	+	0.1	+	0	+	0	+
14	+	0	+	+	+	+	+	+	+	+	0	0
15	+	0	+	+	+	0	+	+	0	+	+	0
16	+	0	+	+	+	11.8	+	+	0	0	1.3	+
17	0	0	+	+	+	+	0	+	+	0	38.4	+
18	0	0	+	+	0.1	+	+	+	0	0	0.1	+
19	0	0	+	+	0.1	+	+	+	0	+	+	0
20	0	0.3	+	3.1	+	+	+	+	+	+	+	+
21	0.1	0	+	0.1	+	+	+	0.1	+	+	0	0
22	+	0	+	+	+	+	+	+	+	0.1	+	0
23	3.7	0	+	0	1.5	+	+	1.7	+	+	+	+
24	0	+	+	0	0.2	1.8	+	1.0	+	+	+	0.2
25	0	0	+	0	+	23.8	+	+	+	+	+	+
26	0	0	+	+	+	+	0.1	+	0	+	+	+
27	0.1	0	+	0.1	+	+	0.1	0.7	+	+	+	+
28	0	0	0.1	+	+	+	0.1	+	+	+	0	+
29	0.1	0	+	+	+	+	0.1	+	+	+	+	0
30	0.1	+	14.9	+	+	+	+	+	+	+	+	+
31	+		1.1	+	+	+	+	+	+	+	+	+

MEAN ACRE- FEET	0.1	0.5	0.5	2.3	0.1	1.2	+	1.8	+	+	1.3	+
	9.1	31.7	33.5	143	4.2	74.6	1.8	112	0.8	0.2	78.9	0.4

YEAR OR PERIOD MEAN ACRE-FEET 0.6  
490

STATION DATA SUMMARY

STA. NO. F181-R  
MONTEBELLO STORM DRAIN ABOVE RIO HONDO

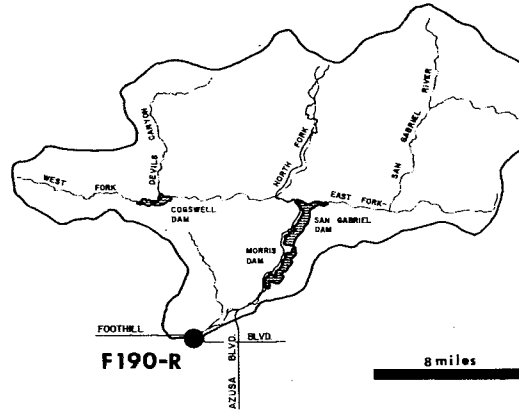
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON DAY	CFS
1931-32	*	0	*	1120*	1	31 531
1932-33	125	0	0.8	529	1	19 713
1933-34	391	0	2.5	1910	1	1 1360
1934-35	114	0	2.3	1650	1	5 1140
1935-36	55	0	1.2	889	2	14 374
1936-37	NO RECORD					
1937-38	N.D.	N.D.	N.D.	N.D.	3	2 1400 E
1938-39	147	0	1.4	981	9	25 688
1939-40	77	0.1	1.2	685	2	1 729
1940-41	204	0.1	5.6	4090	3	3 936
1941-42	102	0.1	1.3	962	12	10 521
1942-43	300 E	0.1 E	3.6	2580		N.D.
1943-44	323 E	0.1	3.3	2390	2	22 1040
1944-45	64	0.1 E	0.8	768	11	11 506
1945-46	92	0	1.2	865	12	22 384
1946-47	144	0.1	1.9	1350	11	13 1240
1947-48	86	0.1	1.3	913	12	5 1220
1948-49	41	0.1	1.2	861	12	17 347
1949-50	95	0.1	1.7	1240	1	8 790
1950-51	50	0.1	1.2	888	1	10 333
1951-52	302	0.1	4.6	3330	3	7 1010
1952-53	97	0.1	2.0	1430	11	15 770
1953-54	232	0.1	3.0	2190	2	13 1010
1954-55	*	*	*	1210*	1	18 759
1955-56	463	+	2.9	2110	1	26 856
1956-57	65	+	1.6	1120	2	28 570
1957-58	199	+	4.5	3250	2	19 865
1958-59	109	0.1	1.7	1230	1	6 869
1959-60	96	0.1	2.1	1530	1	12 784
1960-61	65	0.1	1.2	884	11	26 478
1961-62	225	0.1	4.6	3370	2	12 783
1962-63	129	0.3	2.1	1530	3	16 851
1963-64	77	0.2	1.8	1280	11	19 553
1964-65	124	+	2.7	1970	4	9 844
1965-66	281	0.1	4.4	3200	12	29 904
1966-67	288	0.2	4.9	3560	1	24 1060
1967-68	198	0.2	2.9	2130	3	8 923
1968-69	424	0.2	8.5	6165	1	25 1600E
1969-70	135	+	2.4	1740	2	10 792
1970-71	169	+	2.8	2000	11	29 833
1971-72	142	0.2	1.6	1160	12	24 637
1972-73	140	0.1	3.8	2740	2	27 811
1973-74	128	+	1.4	988	1	7 546
1974-75	61	+	1.0	748	12	4 608
1975-76	39	+	0.8	603	9	11 240
1976-77	36.1	0	0.7	490	5	8 226

\* = RECORD INCOMPLETE  
+ = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0.  
N.D. = NOT DETERMINED  
E = ESTIMATE

**STATION NO. F 190 - R  
SAN GABRIEL RIVER  
at Foothill Boulevard**

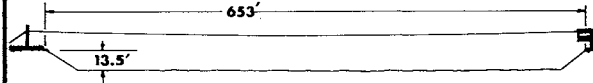


**drainage area**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from cable car  
 DRAINAGE AREA - 230.0 square miles  
 LOCATION - downstream side of Foothill Boulevard bridge, 2.0 miles west of Azusa  
 REGULATION - partially regulated by Coggswell, San Gabriel, and Morris Dams  
 CHANNEL - sand, gravel and rock, trapezoidal section with soft bottom  
 CONTROL - gunited rock stabilizers  
 LENGTH OF RECORD - February 22, 1932, to date  
 REMARKS - flows may include imported water originating at the Metropolitan Water District outlet below Morris Dam.

**cross-section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F190-R

DAILY DISCHARGE in second-feet of SAN GABRIEL RIVER AT FOOHILL BLVD. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1926

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	42	0	45.3	0	0	78.5	10.5	0	4.3	0	0	0
2	42	0	87.8	0	0	49	9.9	0	16	0	0	0
3	18.3	15	87.8	0	0	52.1	9.2	0	42	0	0	0
4	0	46.9	107	0	0	61.4	9.9	0	35.6	0	0	0
5	0	46.9	115	0	0	137	8.6	0	0.1	0	0	0
6	11.5	46.9	84.4	0	2.1	141	8.0	0	0	0	0	0
7	39.6	27.2	81	0	0	137	8.0	0	4.3	0	0	0
8	39.6	0	98	0	4.6	141	8.0	0	13.9	0	0	0
9	39.6	0	132	0	34.3	146	7.3	0	44.5	0	0	0
10	24.9	0	137	0	11.4	152	7.3	0	30.9	0	0	3.5
11	0	0	115	0	0	168	6.7	0	0.4	0	0	28.7
12	0	0	87.8	0	4.3	168	6.7	0	0.2	0	0	0
13	13	0	84.4	0	5.0	168	8.0	0	+	0	0	0
14	42	0	81	0	5.0	168	6.7	0	11	0	0	0
15	42	0	98	0	8.0	152	5.4	0	22.4	0	0	0
16	42	0	128	0	8.6	174	4.7	0	11	0	5.8	0
17	18.8	0	115	0	35.9	174	4.3	0	0	0	18.2	0
18	0	0	84.4	0	141	138	4.0	0	0	0	18.2	0
19	0	1.1	22.3	3.7	146	47.5	3.6	0	0	0	18.2	0
20	0	19.2	0	81	128	163	5.5	0	0	2.9	18.2	5.2
21	0	27.6	0	102	98	163	23	0	0	19.2	17.1	19.2
22	0	29.3	0	90	102	168	2.5	0	0	19.2	17.1	17.1
23	0	31	0	0.4	128	174	1.8	0	0	19.2	17.1	17.1
24	0	51.9	0	0	168	179	1.7	0	0	19.2	17.1	10.2
25	0	87.8	0	0	168	179	1.5	0	0	18.2	17.1	0
26	0	58.7	0	0	168	179	1.2	0	0	18.2	9.9	0
27	0	+	0	0	144	174	1.1	0	0	19.2	0	0
28	13.4	0	0	0	182	174	0.7	0	0	18.2	0	0
29	42	0	0	0	92	174	0.4	0	0	10.7	0	9.1
30	44.5	0	0	0		132		0	0	0	0	12.2
31	29.2	0	0	0		11.8		0	0	0	0	
MEAN	17.6	16.3	57.8	8.9	58.8	139	5.9	0	7.9	5.3	5.6	4.0
ACRE- FEET	1,080	971	3,550	549	3,380	8,570	349	0	469	326	345	241

YEAR OR PERIOD \_\_\_\_\_ MEAN ACRE-FEET \_\_\_\_\_ 27.3  
 19,830

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F190-R

DAILY DISCHARGE in second-feet of SAN GABRIEL RIVER AT FOOTHILL BLVD. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	19.2	+	0	0	128	+	0	0	0	0	21.3	0
2	19.2	0	0	0	128	2.5	0	11.6	15.3	0	21.3	0
3	19.2	0	0	35.1	78.3	0.9	0	22.4	29.3	0	21.3	0
4	19.2	0	0	67.4	4.7	0.3	0	22.4	31	0	21.3	0
5	47.6	0	0	98	3.6	0	0	22.4	32.7	0.3	21.3	0
6	203	0	0	119	3.2	0	0	22.4	32.7	0	21.3	0
7	226	0	0	132	17.8	0	0	22.4	32.7	0	21.3	0
8	226	9.3	11	111	31	20.3	0	31	32.7	0	21.3	0
9	226	12.6	22.4	102	31	14.7	0	38.7	32.7	0	21.3	0
10	226	+	22.4	119	31	+	0	32.7	32.7	0	21.3	0
11	203	+	22.4	141	31	11.3	0	29.3	31	11.1	22.4	0
12	185	0.7	22.4	137	31	24.1	9.2	29.3	31	24.1	22.4	0
13	185	+	10.7	141	31	25.8	22.4	27.6	29.3	24.1	22.4	0
14	190	+	0	141	31	24.1	22.4	25.8	29.3	24.1	22.4	0
15	127	9.6	0	141	13.7	22.4	21.3	25.8	29.3	24.1	21.3	0
16	1.0	20.3	0	137	0	18.1	21.3	25.8	25.8	24.1	24.1	0
17	0.2	20.3	0	137	0	0.1	21.3	25.8	22.4	24.1	34.3	0
18	+	20.3	0	141	0	0	21.3	24.1	21.3	24.1	27.6	0
19	+	13.1	0	128	0	0	21.3	24.1	21.3	22.4	24.1	0
20	0	+	0	119	0	0	9.9	24.1	21.3	22.4	22.4	0
21	0	+	0	119	0	0	0	24.1	7.2	22.4	21.3	0
22	5.5	+	0	119	0	0	0	24.1	0	22.4	22.4	0
23	2.0	+	0	124	0.2	0	0	17.3	0	22.4	9.8	0
24	0	0	0	124	1.5	0	0	0	0	22.4	0	0
25	0	0	0	124	0.5	1.9	0	0	0	22.4	0	0
26	11.8	0	0	128	0	0	0	0	0	22.4	0	0
27	21.3	0	0	128	0	0	0	0	0	21.3	0	0
28	21.3	0	0	128	0	0	0	0	0	21.3	0	0
29	21.3	0	0	124	0	0	0	0	0	21.3	0	0
30	21.3	0	0	124	0	0	0	0	0	21.3	0	0
31	13.5	0	0	124	0	0	0	0	0	21.3	0	0

MEAN	72.3	2.9	3.6	113	21.3	5.7	5.7	17.8	18	15	16.4	0
ACRE-FEET	4,440	170	221	6,970	1,180	349	338	1,100	1,070	924	1,010	0

YEAR OR PERIOD MEAN ACRE-FEET 24.3 17,770

STATION DATA SUMMARY

STA. NO. F190-R  
SAN GABRIEL RIVER AT FOOTHILL BOULEVARD

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW		
					MON	DAY	CFS
1931-32	N.D.	0	N.D.	76220*			N.D.
1932-33	2530	0	15.7	11400	1	19	10000
1933-34	3150	0	20.3	14690	1	1	5550
1934-35	448	0	81.7	59220	4	8	1080
1935-36	169	0	21.1	15300	2	2	572
1936-37	1610	0	162	117400	2	19	2050
1937-38	22200	0	387.2	280300*	3	2	62000*
1938-39	220	0	15.0	10850	1	5	267
1939-40	388	0	13.7	9980	6	25	400
1940-41	4090	0	304	220100	3	4	5280
1941-42	312	0	5.5	3990	4	20	345
1942-43	10400E	0	318	230200	1	23	11400
1943-44	2750	0	163	118300	2	22	4840
1944-45	844	0	22.9	16620	2	2	1080
1945-46	1190	0	58.1	42060	12	23	1670
1946-47	3000	0	65.6	47520	12	28	3200
1947-48	1010	0	14.3	10370	6	2	1120
1948-49	0	0	0	0			0
1949-50	20	0	0.1	67	12	18	192
1950-51	0	0	0	0			0
1951-52	3860	0	98.1	71210	1	19	4670
1952-53	1030	0	56.9	41180	10	28	1080
1953-54	844	0	30.3	21920	4	16	2160
1954-55	3.8	0	+	38	1	18	12
1955-56	215	0	2.0	1430	1	24	800
1956-57	573	0	7.4	5320	4	17	585
1957-58	2270	0	229	165600	4	5	2520
1958-59	380	0	18.8	13590	1	6	3390
1959-60	13	0	0.7	499	4	27	90
1960-61	26	0	0.2	147	1	26	48
1961-62	1750	0	103	74270	2	12	2260
1962-63	47	0	0.3	237	2	9	301
1963-64	13	0	0.1	66	1	22	56
1964-65	293	0	11.0	7940	9	6	881
1965-66	8680	0	240	173700	11	23	9420
1966-67	2090	0	249	180000	12	6	9830
1967-68	232	0	33.0	23940	11	25	326
1968-69	22700	0	794	575300	1	26	N.D.
1969-70	378	0	32.9	23810	12	21	411
1970-71	1300	0	44.0	31850	3	1	1400
1971-72	254	0	13.3	9560	12	8	254
1972-73	803	0	129	93260	2	11	1010
1973-74	374	0	56.2	40640	1	7	670
1974-75	256	0	37.3	27040	VARIOUS		256
1975-76	179	0	27.3	19833	3	1	10002
1976-77	226	0	24.6	17770	10	14	248

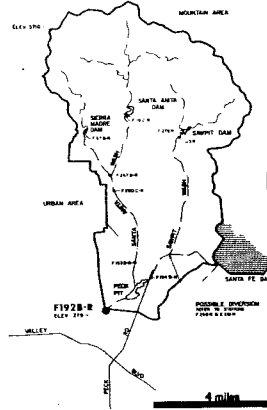
\* = RECORD INCOMPLETE  
+ = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0.  
N.D. = NOT DETERMINED  
E = ESTIMATE



**STATION NO. F 192B - R  
RIO HONDO  
below Lower Azusa Road**

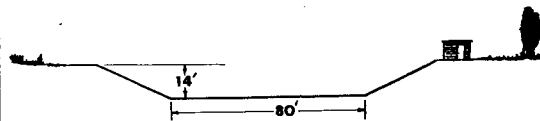


**drainage area**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading  
 DRAINAGE AREA - 40.9 square miles (excludes area above Santa Fe Dam)  
 LOCATION - 300.0 feet downstream from Lower Azusa Road, 1.5 miles north of El Monte  
 REGULATION - partially regulated by Sierra Madre Dam, Santa Anita Dam, Sawpit Dam, Santa Fe Dam, Peck Pit, Buena Vista Pit, and several debris basins.  
 CHANNEL - concrete, trapezoidal in section  
 CONTROL - channel forms control  
 LENGTH OF RECORD -  
 at Station F192-R, February 22, 1932, to May 7, 1958  
 at Station F192B-R, May 7, 1958, to date  
 REMARKS - subject to diversions from Monrovia, Sawpit, and Little Santa Anita Creeks. Also from the San Gabriel River below Santa Fe Dam; and for irrigation and spreading.

**cross-section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F192B-R

DAILY DISCHARGE in second-feet of RIO HONDO BELOW LOWER AZUSA ROAD FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	+	0.3	0.1	+	+	13.3	+	+	0	+	+	+
2	+	0.2	0.1	+	+	10.2	0.1	+	+	+	0	+
3	+	0.3	0.1	0.1	+	0.4	1.7	+	0	+	0	1.6
4	+	0.3	0.1	+	+	2.8	+	2.0	+	+	+	+
5	+	0.2	0.1	+	+	2.9	0.1	0.1	+	0.1	0	1.4
6	0.4	0.2	0.1	+	3.9	0.1	0.1	0	0	+	0	0.9
7	0.8	0.1	0.1	+	2.8	0.1	+	0.7	0	+	0	+
8	+	+	0.1	+	3.8	0.1	0.6	0	0	+	0	+
9	0.2	+	0.1	+	12.2	0.1	0.1	0.1	0.1	+	0	+
10	+	0.1	0.1	0.1	0.1	0.4	0.1	0.1	0.8	+	+	33.9
11	2.4	+	0.1	0.1	+	0.1	0.5	+	+	0.1	+	28.3
12	0.1	+	2.3	+	0.1	0.1	5.5	+	+	+	+	+
13	0.1	+	0.1	+	0	+	1.5	0	+	0	+	+
14	+	+	0.1	0.1	0	+	0.1	+	+	+	+	+
15	+	0.1	0.1	0.1	+	+	0.3	+	+	0	0.1	+
16	+	+	+	+	0	+	0.1	+	+	+	+	+
17	+	+	+	0.1	0	+	0.1	+	+	+	0.1	+
18	+	+	+	+	+	+	0.1	0	+	+	+	+
19	+	0.1	+	+	0	+	0.1	0	+	+	+	0
20	0.1	0.2	+	+	0	+	0.1	0	+	+	+	+
21	+	+	0.1	+	0.1	+	0	+	+	+	+	+
22	0.1	+	0.1	+	0.1	+	+	+	0	+	+	+
23	0.1	0.2	0.1	+	0.1	+	+	+	+	+	+	+
24	0.4	+	+	+	0.1	+	+	+	+	+	+	0.1
25	0.2	+	+	+	0.1	+	+	+	+	+	+	+
26	0.2	0.2	+	+	0.1	+	+	+	+	+	+	+
27	0.1	0.9	+	+	0.1	+	+	+	+	+	+	+
28	0.2	0.4	+	+	0.1	+	+	+	+	+	+	0
29	0.2	0.1	0.1	0	0.1	+	+	+	+	+	+	0
30	0.8	+	+	0	+	+	0.1	+	+	0	+	0
31	0.4	+	+	+	+	+	+	+	0	+	+	+

MEAN	0.2	0.1	0.1	+	1.4	0.8	0.4	+	+	+	+	2.6
INCH PER FEET	13.5	7.7	8.1	1.2	82.3	49.6	26.4	1.8	1.6	0.4	0.4	152

YEAR OR PERIOD \_\_\_\_\_ MEAN ACRE-FEET \_\_\_\_\_ 0.5 345

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F192B-R

DAILY DISCHARGE in second-feet of RIO HONDO BELOW LOWER AZUSA ROAD

FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	+	0	0.1	+	0	0	+	0	+	0	1.2
2	+	+	0	11.4	+	+	0	0	+	+	0	0.4
3	+	+	0	13.6	+	0	0	0	0	0	+	0.1
4	+	+	0	11.4	+	0	0	0	0	0	+	1.6
5	+	+	0	11.4	+	0	0	0	0	+	0.1	+
6	+	+	0	13.6	+	0	0	0	0	+	+	+
7	+	+	0	11.9	+	+	+	0	0	+	+	+
8	+	+	0	+	+	0	+	19.6	+	+	+	+
9	+	+	0	+	+	0.1	+	22.5	0	+	+	0
10	+	+	0	+	+	+	+	0.1	0	0	+	0
11	+	0.9	0	0	+	+	0	0	0	0	+	0
12	+	9.1	0	0	+	+	+	0	0	+	0	0.4
13	+	+	0	0	0	+	+	0	0	+	0	0.4
14	0	+	0	0	+	+	+	0	+	0	0	+
15	+	+	0	0	0	+	0	0	0	+	0	+
16	+	+	0	+	0	6.5	0	0	0	0	1.2	0.2
17	+	+	0	+	0	+	+	0	+	+	18.2	1.9
18	+	+	0	+	0	0	0	+	+	+	0.1	1.9
19	0	+	0	0	0	0	0	+	0	+	+	+
20	+	+	0	0.9	0	0	0	+	0	+	0	+
21	+	+	0	0.7	0	0	0	0	0	0	0	0
22	3.2	+	0	+	0	0	0	0	0	0	0	0.2
23	3.8	+	0	+	1.3	0	+	1.7	0	0	+	1.6
24	+	+	0	0.1	5.3	0.7	+	0.6	0	0	+	1.6
25	+	0	0	+	+	8.6	0	0	0	0	+	0.1
26	+	0	0	+	0	0.1	0	0	0	0	+	+
27	+	0	0	+	+	+	0	0	0	0	0	+
28	+	0	0	+	+	+	0	0	0	0	0	0
29	+	0	0	+	+	0	0	0	0	0	0	0
30	+	0	6.9	+	+	0	0	0	0	0	0	0
31	+	0	0.1	+	+	0	0	0	0	0	0.3	0

MEAN	0.2	0.3	0.2	2.4	0.2	0.5	+	1.4	+	+	0.6	0.4
ACRE- FEET	13.9	19.6	13.9	149	13.1	31.7	+	88.3	+	+	39.7	23.2

YEAR OR PERIOD MEAN ACRE-FEET 0.5  
393

STATION DATA SUMMARY

STA. NO. F192B-R  
RIO HONDO BELOW LOWER AZUSA ROAD

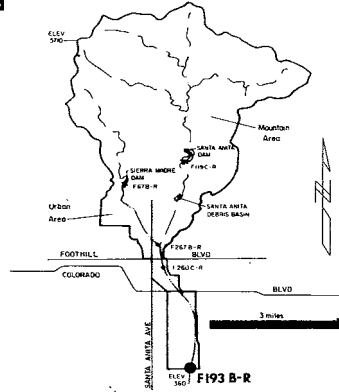
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK MON	FLOW DAY	CFS
1931-32	*	0	*	12710*			N.O.
1932-33	937	0	5.2	3800	1	20	5160
1933-34	2700	0	11.2	8110	1	1	5860
1934-35	324	0	11.3	8160	4	8	604
1935-36	114	0	4.7	3400	2	11	391
1936-37	904	0	39.6	27960	2	20	1030E
1937-38	10530	0	241	174300	3	2	31000E
1938-39	191	0	2.2	1570	1	5	680
1939-40	224	0	5.0	3640	1	7	288
1940-41	2220	0	11.3	81450	3	4	4000
1941-42	214	0.1	2.7	1980	12	10	254
1942-43	1300E	0	14.7	10680	1	23	3500
1943-44	502	0.3	15.9	11600	2	22	1080
1944-45	112	0.1	1.9	1380	11	11	1060
1945-46	267	0	18.0	13030	12	23	483
1946-47	279	0	11.8	8560	11	27	283
1947-48	570	0	7.2	5250	6	7	584
1948-49	4.9	0	0.1	71	2	27	50
1949-50	24	0	0.3	203	12	18	124
1950-51	24	0	0.3	234	1	11	636
1951-52	753	0	8.7	6340	1	16	2180
1952-53	795	0	9.0	6550	11	15	944
1953-54	654	0	14.9	10800	2	13	1740
1954-55	184	0	2.0	1460	1	18	2340
1955-56	1020	0	4.0	2940	1	26	3030
1956-57	390	0	5.9	4280	2	23	2270
1957-58	735	0	32.6	23610*	2	19	1530
1958-59B	218	0	1.8	1290*	1	6	1530
1959-60	30	0	0.4	303	1	12	185
1960-61	16	0	0.2	131	11	5	132
1961-62	630	0	13.1	9460	2	12	856
1962-63	28	0	0.3	221	3	16	182
1963-64	22	0	0.3	187	1	21	296
1964-65	32	0	0.5	340	4	9	397
1965-66	261	0	7.7	5570	11	24	1440
1966-67	175	0	14.7	10620	1	22	438
1967-68	61	0	6.8	576	3	8	714
1968-69	4380	0	100	72550	1	25	10600
1969-70	251	0	5.0	3580	3	4	1160
1970-71	95	0	4.2	3060	11	29	446
1971-72	5.0	0	0.3	210	12	24	266
1972-73	270	0	14.5	10520	2	27	2390
1973-74	144	0	5.1	3720	1	7	196
1974-75	54	+	0.7	538	12	4	643
1975-76	34	0	0.5	345	9	11	635
1976-77	22.5	0	0.5	393	5	9	230

B = RECORD BEGAN AT P LOCATION 12-18-58.

**STATION NO. F 193 B-R  
SANTA ANITA WASH  
at Longden Avenue**

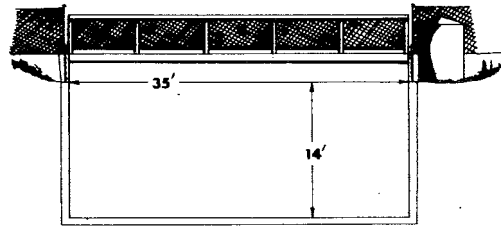


**drainage area**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from bridge  
 DRAINAGE AREA - 18.8 square miles  
 LOCATION - 30.0 feet above Longden Avenue, 1.5 miles south of Arcadia  
 REGULATION - regulated by Santa Anita and Sierra Madre Dams, and Santa Anita Debris Basin  
 CHANNEL - concrete, rectangular section  
 CONTROL - channel forms control  
 LENGTH OF RECORD -  
 at Station F193-R, April 25, 1932, to March 1, 1938  
 at Station F193B-R, January 5, 1960, to date

**cross-section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F193B-R

DAILY DISCHARGE in second-feet of SANTA ANITA WASH AT LONGDEN AVE. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	1.4	1.0	0.7	+	0.2	50	0.1	0.1	0.1	0.2	0.1	0.1
2	2.0	1.0	1.0	+	0.1	26.5	0.1	0.1	0.2	0.2	0.1	0.1
3	1.0	1.0	1.0	+	0.1	4.6	0.1	0.1	0.1	0.1	0.1	5.7
4	0.2	1.0	1.0	0.1	6.8	0.3	1.4	0.1	0.1	0.2	0.1	0.3
5	0.2	1.0	0.1	+	5.7	0.1	0.1	0.3	0.1	0.2	0.1	7.6
6	0.2	1.0	0.2	+	21.6	0.1	0.1	0.1	0.2	0.1	0.1	5.1
7	0.2	0.7	0.2	+	3.6	+	0.1	0.2	0.1	0.1	0.1	4.1
8	0.3	1.0	0.1	0.1	20.3	+	0.1	0.1	0.1	0.2	0.1	0.2
9	0.3	1.0	0.1	+	78.4	0.1	+	0.1	0.4	0.2	0.1	0.2
10	3.0	2.0	0.1	0.1	6.8	0.1	+	0.3	0.1	0.1	0.1	82.1
11	0.2	1.4	0.1	0.1	1.0	+	0.1	0.1	0.1	0.1	0.1	59.7
12	0.3	1.0	5.6	0.1	0.7	+	5.9	0.1	0.1	0.1	0.1	4.6
13	0.3	1.0	0.1	0.1	0.7	+	3.0	0.1	0.1	0.1	0.1	2.5
14	0.1	1.0	0.1	1.0	0.7	+	0.1	0.2	0.1	0.1	0.1	2.0
15	0.1	1.0	+	2.5	0.7	+	0.1	0.2	0.1	0.1	0.3	2.0
16	0.1	1.0	+	0.3	0.7	0.1	+	0.1	0.1	0.1	0.1	1.4
17	0.2	1.0	+	0.3	0.7	0.1	+	0.1	0.1	0.1	0.1	1.4
18	0.1	2.0	+	0.3	1.0	0.1	+	+	0.1	0.1	0.1	1.4
19	0.3	2.5	0.1	0.2	0.7	0.1	0	0.1	0.1	0.1	0.1	1.0
20	0.3	0.7	0.1	0.1	0.7	0.2	+	0.1	0.1	0.1	0.1	1.0
21	0.1	0.7	0.1	0.2	0.7	0.1	+	+	0.1	0.1	0.3	1.0
22	0.2	0.7	0.1	0.2	0.7	0.1	+	0.2	0.1	0.1	0.1	1.0
23	0.3	0.7	0.1	0.2	0.7	0.1	+	0.1	0.1	0.1	0.1	1.0
24	1.0	0.7	0.1	0.2	2.0	0.1	+	0.1	0.1	0.1	0.1	0.7
25	0.7	0.7	0.1	0.2	2.0	0.1	+	0.1	0.2	0.1	0.1	0.7
26	0.7	0.7	0.1	0.2	1.4	0.1	+	0.1	0.2	0.1	0.1	0.7
27	0.7	0.7	0.1	0.1	1.0	0.1	+	0.2	0.2	0.1	0.1	0.7
28	1.0	0.7	0.1	0.1	1.0	0.1	0	0.3	0.2	0.1	0.1	0.7
29	1.0	0.7	0.1	0.1	1.0	+	0	0.2	0.2	0.1	0.1	0.7
30	1.4	0.7	0.1	0.1		+	+	0.1	0.2	0.1	0.1	0.7
31	2.5		0.1	0.2		+		0.1		0.1	0.1	

MEAN	0.7	1.0	0.4	0.2	5.5	2.7	0.5	0.1	0.1	0.1	0.1	6.3
ACRE- FEET	41.6	60.1	23.2	14.1	317	165	29.9	8.1	8.1	7.3	6.9	370

YEAR OR PERIOD \_\_\_\_\_ MEAN ACRE-FEET 1.5  
1.060

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F193B-R

DAILY DISCHARGE in second-feet of SANTA ANITA WASH AT LONGDEN AVE.

FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.7	0.7	0.1	0.1	0.1	0.1	+	0.7	0	0	0.1	0.3
2	0.7	0.7	0.1	18.4	+	0.1	+	0.1	0	0	0	0.1
3	0.7	0.3	0.1	34.3	+	0.1	+	+	0	0	0	+
4	0.7	0.1	0.1	1.0	+	0.2	+	+	0	0	+	+
5	0.7	0.1	0.1	18.7	0.1	0.2	0.1	0	0	0	+	+
6	0.7	0.1	0.1	12.6	0.1	0.1	0.1	+	0	0	0	+
7	0.7	0.1	0.1	12.2	0.1	0.1	0.1	+	0	0	0	+
8	0.7	0.1	0.1	0.1	0.1	0.1	0.1	46	0	0	0.1	0
9	0.7	0.1	0.1	0.1	+	0.1	0.1	29.4	+	0	+	0
10	0.7	0.1	0.1	+	+	0.1	0.1	1.4	0	0	0	+
11	0.3	1.0	0.1	+	+	0.1	+	0.2	0	0	0	+
12	0.3	16.1	0.1	0.1	0.1	+	+	0.2	0	0	0.1	0
13	0.3	0.1	0.1	0.1	0.1	0.1	9.4	0.1	0	0	+	+
14	0.3	0.1	0.1	+	0.1	0.1	+	0.1	0	+	0	0
15	0.3	0.1	0.1	+	1.0	0.1	+	0.1	0	0	0.1	+
16	0.3	0.1	0.1	+	0.1	11.8	0	0.1	0	0	1.7	0.1
17	0.3	0.2	0.1	+	0.1	0.2	0	+	0	0	41.4	0
18	0.3	0.1	0.1	0.2	0.1	0.1	0	0	0	0	0.1	0
19	0.3	0.1	0.2	1.4	0.1	+	0.1	0	0	+	0.1	0
20	0.3	0.1	0.1	1.3	0.1	0.1	+	0	0	0	0	0
21	0.3	0.1	0.1	1.0	0.1	0.1	0	0	0	+	0	+
22	9.6	0.1	0.1	0.1	0.1	1.0	0	0	+	+	0.2	0.1
23	35.5	0.1	0.1	0.1	1.0	1.4	0	2.7	0	0.1	+	0.1
24	1.4	0.1	0.1	0.1	5.1	2.5	0	0.3	0	+	0	0
25	1.0	0.1	0.1	0.1	0.1	16	0	0.1	0	+	+	0
26	1.0	0.1	0.1	+	0.1	0.2	0	+	0	0	+	0.1
27	1.0	+	0.1	+	0.1	0.1	0	0	0	0.1	0	0.1
28	1.0	0.1	0.1	+	0.1	0.1	0	0	0	0.1	0	0
29	0.7	0.1	0.1	+	0.1	0.1	0	0	+	0.1	+	+
30	0.7	0.1	7.4	+	0.1	0.1	0.2	0	0	0.1	+	+
31	0.7		0.2	0.1		0.1		0		0.1	0	

MEAN	2.0	0.7	0.3	3.3	0.3	1.1	0.3	2.6	+	+	1.4	+
ACRE- FEET	125	42.2	21	203	17.9	70.4	20.4	162	+	1.2	87.1	1.8

YEAR OR PERIOD MEAN ACRE-FEET 1.0 752

STATION DATA SUMMARY

STA. NO. F193B-R  
SANTA ANITA WASH AT LONGDEN AVENUE

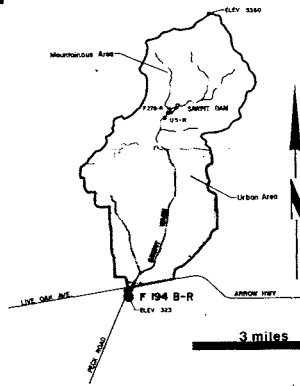
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK MGN	FLOW DAY	CFS
1959-60B	55	*	0.5	465	4	27	534
1960-61	33	0	0.3	216	11	12	314
1961-62	693	0	8.2	5910	2	11	1780
1962-63	101	0	1.0	709	2	9	621
1963-64	47	0	0.9	650	11	20	581
1964-65	63	0	1.4	985	4	9	518
1965-66	541	*	12.0	3730	12	29	1380
1966-67	613	*	16.0	11570	12	6	1180
1967-68	111	+	1.7	1230	11	19	816
1968-69	2760	+	46.9	33930	1	25	6850
1969-70	150	+	3.2	2300	3	2	1290
1970-71	350	+	3.4	2440	12	21	590
1971-72	71	0	0.4	320	12	24	324
1972-73	595	0	5.9	4270	2	27	1630
1973-74	158	+	2.9	2590	1	7	518
1974-75	95	0	1.2	875	12	4	943
1975-76	82	0	1.5	1060	9	11	766
1976-77	46	0	1.04	752	10	23	694

B = RECORD BEGAN AT B LOCATION 01-05-60.  
\* = RECORD INCOMPLETE  
N.D. = NOT DETERMINED  
E = ESTIMATE

**STATION NO. F 194 B-R  
SAWPIT WASH  
below Live Oak Avenue**

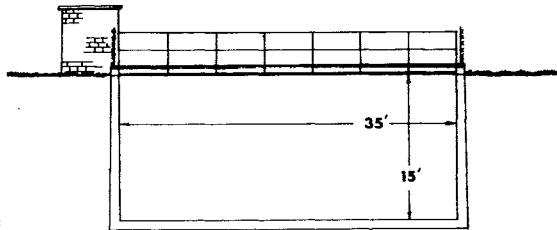


**drainage area**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from footbridge  
 DRAINAGE AREA - 16.1 square miles  
 LOCATION - 1,500 feet below Arrow Highway, 3.0 miles south of Monrovia  
 REGULATION - partially regulated by Sawpit and Santa Fe Dams, and by several debris basins  
 CHANNEL - concrete, rectangular section  
 CONTROL - channel forms control  
 LENGTH OF RECORD -  
 at Station F194-R, February 22, 1932 to September 1, 1935  
 at Station F194B-R, December 5, 1960, to date

**cross-section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F194B-R

DAILY DISCHARGE in second-feet of SAWPIT WASH BELOW LIVE OAK AVE.

FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.4	0.2	0.2	0.2	0.2	62.3	0.2	0.2	0.2	0.2	0.2	0.3
2	0.4	0.2	0.2	0.2	0.4	39.3	0.2	0.2	0.2	0.2	0.2	0.2
3	0.4	0.2	0.2	0.2	0.2	0.8	5.7	0.2	0.2	0.2	0.2	8.1
4	0.4	0.2	0.2	0.2	10.2	0.1	5.6	0.4	0.2	0.2	0.2	0.2
5	0.4	0.2	0.2	0.2	2.2	1.5	0.2	0.2	0.2	0.2	0.2	2.6
6	0.4	0.2	0.2	0.2	36.2	2.2	0.2	0.9	0.2	0.2	0.2	0.4
7	1.0	0.2	0.2	0.2	13.8	1.8	0.2	1.9	0.2	0.2	0.2	1.8
8	0.4	0.2	0.2	0.2	40.2	1.3	1.1	0.4	0.2	0.2	0.2	0.3
9	0.2	0.2	0.2	0.2	56.1	0.9	0.6	0.4	0.2	0.2	0.2	0.3
10	0.2	0.2	0.2	0.2	2.8	1.1	0.6	0.2	0.2	0.2	0.2	10.1
11	7.1	0.3	0.2	0.2	1.5	0.6	2.4	0.2	0.2	0.2	0.2	78.3
12	0.2	0.2	13.9	0.2	1.3	0.2	15.3	0.2	0.2	0.2	0.2	2.4
13	0.2	0.2	0.3	0.2	0.2	0.2	10.5	0.2	0.2	0.2	0.2	1.5
14	0.2	0.2	0.3	1.0	0.4	0.2	0.9	0.2	0.2	0.2	0.2	1.1
15	0.2	0.2	0.3	0.4	0.4	0.2	2.4	0.2	0.2	0.2	1.3	0.6
16	0.2	0.2	0.3	0.2	0.2	0.6	0.2	0.2	0.2	0.2	0.4	0.9
17	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
18	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.4	0.2	0.2	0.2	0.3
19	0.2	1.1	0.3	0.2	0.2	0.2	0.1	1.1	0.2	0.2	0.2	0.2
20	0.2	0.2	0.3	0.2	0.2	0.2	0.1	1.5	0.2	0.2	0.2	0.2
21	0.2	0.2	0.4	0.2	1.1	0.2	0.2	0.4	0.2	0.2	0.2	0.2
22	0.2	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23	0.2	0.1	0.4	1.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
24	0.2	0.2	0.4	1.0	0.6	0.2	0.2	0.2	0.2	0.2	0.2	0.6
25	0.2	0.2	0.4	1.0	0.2	0.2	0.2	0.4	0.4	0.2	0.2	0.3
26	0.2	0.2	0.4	1.0	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2
27	0.2	2.5	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
28	0.2	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
29	0.1	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
30	1.2	0.2	0.6	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
31	0.2	0.2	0.6	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

MEAN	0.6	0.3	0.7	0.5	6.2	3.7	1.6	0.4	0.4	0.2	0.3	6.9
ACRE- FEET	37.1	18.4	46.4	30.5	352	231	37.2	26.5	22.2	14.1	16.5	419

YEAR OR PERIOD MEAN ACRE-FEET 1.8  
1,310

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F194B-R

DAILY DISCHARGE in second-feet of SAWPIT WASH BELOW LIVE OAK AVE. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.2	0.3	0.2	0.3	0.3	0.1	0.4	0.5	0.3	0.3	8.1	0.4
2	0.2	0.3	0.3	31.3	0.2	0.1	0.4	0.2	0.2	0.1	8.1	0.1
3	0.2	0.3	0.3	41.2	0.2	0.1	1.1	0.3	10.5	0.2	8.1	0.1
4	0.2	0.3	0.2	0.3	0.2	0.3	0.4	0.3	12.2	0.1	8.1	0.1
5	0.3	0.3	0.3	43.4	0.3	0.1	0.4	0.2	12.2	0.1	8.9	0.1
6	0.3	0.3	0.2	28.2	0.2	0.2	0.3	0.2	12.2	0.1	8.9	0.1
7	0.3	0.3	0.2	29.4	0.3	1.6	0.3	0.3	12.2	0.1	8.9	0.1
8	0.2	0.3	0.2	4.5	0.3	0.2	0.4	69.3	12.2	0.1	8.9	0.1
9	0.2	0.2	0.2	3.2	0.2	0.2	0.4	58.2	12.2	0.1	9.7	0.2
10	0.2	0.2	0.3	2.0	1.4	0.2	0.3	0.4	13	0.1	9.7	0.1
11	0.3	3.7	0.3	1.3	0.2	0.1	0.4	0.3	11.3	0.1	9.7	0.1
12	0.2	32.3	0.3	1.1	0.2	0.2	0.3	0.4	10.5	5.4	9.7	0.1
13	0.2	0.2	0.3	0.9	0.2	0.2	0.3	1.3	11.3	9.7	9.7	0.1
14	0.3	0.3	0.3	0.6	0.3	0.2	0.3	0.9	10.5	10.5	9.7	0.1
15	0.3	0.2	0.3	0.3	1.1	0.2	0.3	1.5	9.7	10.5	9.7	0.2
16	0.7	0.2	0.2	0.2	0.9	25.1	0.4	0.9	9.7	10.5	15.8	0.1
17	0.3	0.2	0.2	0.2	0.4	0.4	0.3	0.3	8.9	10.5	118	0.1
18	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	8.9	10.5	13.8	0.1
19	0.3	0.2	0.3	0.2	0.1	0.2	0.3	0.3	8.9	9.7	12.2	0.1
20	0.3	0.2	0.3	2.0	0.2	0.2	0.3	0.3	9.7	9.7	12.2	0.1
21	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.3	6.6	9.7	11.3	0.1
22	27.7	0.2	0.2	0.2	0.3	0.2	0.8	0.3	0.8	8.9	10.5	0.1
23	46.3	0.2	0.3	0.2	5.1	0.4	0.6	8.0	0.1	8.9	7.9	0.1
24	2.0	0.2	0.3	0.2	11.9	3.7	0.2	5.6	0.2	8.1	0.2	0.1
25	1.5	0.2	0.3	0.2	0.6	34.1	0.3	2.5	0.1	8.9	0.2	0.1
26	1.1	0.2	0.2	0.2	0.4	1.3	0.2	1.1	0.1	8.1	0.2	0.1
27	1.1	0.2	0.3	0.3	0.2	0.6	0.3	0.2	0.1	8.1	0.2	0.2
28	1.1	0.2	0.4	0.2	0.3	1.3	0.3	0.1	0.1	8.1	0.2	0.1
29	0.6	0.2	1.3	0.2		1.1	0.3	0.1	0.1	7.3	0.2	0.1
30	0.5	0.2	17.4	0.3		1.1	0.2	0.1	1.4	7.3	1.1	0.1
31	0.2		1.1	0.2		0.9		0.1		7.3	1.8	

MEAN ACRE- FEET	2.8	1.4	0.9	7.2	0.9	2.4	0.4	5.0	6.9	5.8	11	0.1
	174	84.5	54.1	442	50.6	149	22	307	409	355	678	7.1

YEAR  
OR  
PERIOD      MEAN  
ACRE-FEET      3.7  
2,730

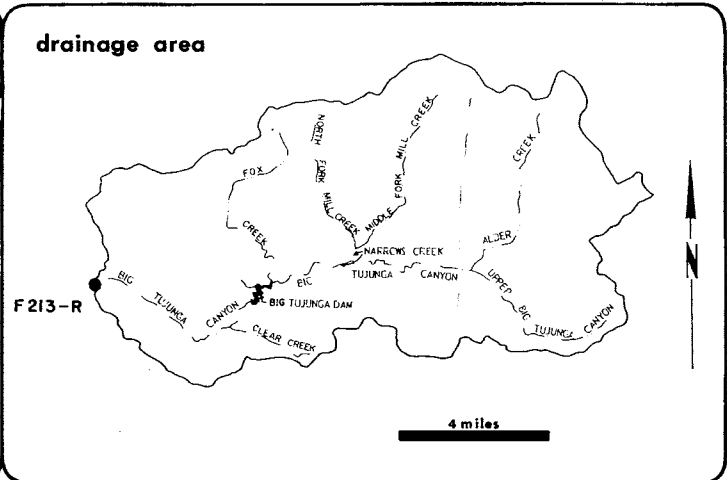
STATION DATA SUMMARY

STA. NO. F194B-R  
SAWPIT WASH BELOW LIVE OAK AVENUE

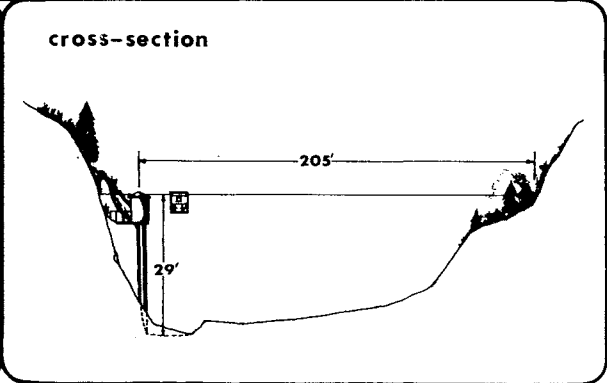
SEASON	MAX	MIN	MEAN	TOTAL	PEAK FLOW		
	DAILY	DAILY	DAILY	RUNOFF	MON	DAY	CFS
	CFS	CFS	CFS	A.F.			
1960-61B	50	+	*	263*	1	26	420
1961-62	573	+	16.6	11980	2	11	1300
1962-63	137	+	1.6	1180	2	9	690
1963-64	83	+	1.6	1190	1	22	682
1964-65	95	+	2.1	1503	4	9	1290
1965-66	243	+	7.3	9240	12	29	1470
1966-67	298	+	22.0	16020	12	3	1120
1967-68	130	+	2.1	1520	11	19	1870
1968-69	1270	+	53.7	38870	1	25	3960
1969-70	773	0	6.7	4830	2	28	2800
1970-71	196	+	5.8	4190	11	29	1350
1971-72	142	0.1	2.0	1450	12	24	519
1972-73	381	0	16.8	12130	2	27	2860
1973-74	265	0.1	9.0	6490	1	7	652
1974-75	180	+	2.8	2010	12	4	2140
1975-76	101	0.1	1.8	1310	9	11	1790
1976-77	118	0.1	3.8	2732	10	23	1090

± = RECORD BEGAN AT R LOCATION 12-05-60.  
\* = RECORD INCOMPLETE  
+ = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0.

**STATION NO. F 213-R  
BIG TUJUNGA CREEK  
above Gold Canyon**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from cable car  
 DRAINAGE AREA - 106 square miles (82.3 square miles controlled by Big Tujunga Dam)  
 LOCATION - 2.0 miles above mouth of canyon, 7.0 miles below Big Tujunga Dam, 4.0 miles northeast of Sunland  
 REGULATION - flow regulated by Big Tujunga Dam  
 CHANNEL - gravel and boulders, natural section  
 CONTROL - concrete  
 LENGTH OF RECORD - October 1, 1932, to date  
 REMARKS - Record from October 1, 1916, to September 30, 1932, are available in Water Supply Papers published by USGS



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F213-R

DAILY DISCHARGE in second-feet of **BIG TUJUNGA CREEK ABOVE GOLD CANYON** FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	12.1		1.7	0.9	1.0	46.6	F 16	A 18.1	V 2.8	V 1.2	V 1.8	V 1.7
2	11.9	1.4	1.7	0.9	1.0	21.9	F 21.2	A 18.1	V 1.9	V 1.4	V 1.8	V 1.7
3	1.6	1.4	1.6	0.9	1.1	17.4	F 21.2	A 6.3	V 1.9	V 1.5	V 2.4	V 4.9
4	1.8	1.4	1.6	0.9	1.2	9.8	F 20.2	V 3.4	V 2.0	V 1.6	V 1.9	V 7.2
5	2.4	1.4	1.6	0.9	9.9	F 2.6	F 19.1	V 2.1	V 2.2	V 1.6	V 1.8	V 5.6
6	1.8	1.4	1.5	1.0	52.4	F 2.2	F 19.1	V 2.2	V 2.7	V 1.7	V 1.7	V 3.0
7	1.3	1.4	1.5	1.0	11.4	F 2.1	F 19.1	V 4.6	V 3.0	V 1.8	V 1.6	V 5.5
8	1.3	1.4	1.4	0.9	17.7	F 2.9	F 19.1	V 4.0	V 4.0	V 1.9	V 1.6	V 5.5
9	1.3	1.4	1.4	0.9	106	F 4.0	F 21.2	V 3.0	V 4.0	V 1.8	V 1.5	V 5.5
10	1.8	1.4	1.4	0.9	48.1	F 9.8	F 21.2	V 6.1	V 5.6	V 1.8	V 1.8	V 5.5
11	1.8	1.4	1.4	0.9	2.3	F 11.3	F 21.2	V 18.1	V 0.6	V 1.8	V 1.4	V 151
12	1.3	1.4	1.4	0.9	2.1	F 12.1	F 21.2	V 18.1	V 0.9	V 1.8	V 1.3	V 73.1
13	1.7	1.4	1.3	0.9	1.4	F 12.9	F 20.9	V 17.1	V 0.9	V 1.8	V 1.4	V 22.3
14	1.7	1.4	1.3	0.9	1.1	F 16	F 22.3	V 20.2	V 7.7	V 1.8	V 1.4	V 15.3
15	1.7	1.4	1.2	0.9	1.2	F 17	F 21.2	V 15.1	V 2.6	V 1.8	V 1.6	V 16
16	1.7	1.5	1.2	0.9	1.4	F 17	F 15.5	V 1.7	V 2.7	V 1.8	V 2.1	V 18.1
17	1.7	1.5	1.2	0.9	9.9	F 19.1	F 21.6	V 16	V 2.5	V 1.8	V 2.0	V 22.2
18	1.6	1.5	1.2	0.9	40	F 15.2	F 37.3	V 10.5	V 1.9	V 1.8	V 1.9	V 24.4
19	1.6	1.5	1.1	1.0	23.6	F 7.2	F 25.4	V 2.1	V 1.6	V 1.8	V 1.9	V 25.4
20	1.6	1.5	1.0	1.0	30.1	F 6.1	V 28.9	V 2.2	V 1.4	V 1.8	V 1.8	V 30.1
21	1.6	1.4	1.0	1.0	36.1	F 7.2	V 39.2	V 2.2	V 1.3	V 1.8	V 1.8	V 25.4
22	1.6	1.5	1.0	1.0	37.7	F 7.2	V 19.1	V 2.1	V 1.3	V 1.8	V 1.7	V 20.2
23	1.5	1.5	1.0	1.0	30.1	F 7.7	V 22.1	V 2.0	V 1.2	V 1.8	V 1.6	V 17
24	1.5	1.5	1.0	1.0	31.1	F 5.6	V 26.5	V 1.2	V 1.2	V 1.8	V 1.5	V 20.2
25	1.5	1.6	1.0	1.0	30.1	F 9.8	V 27.7	V 7.7	V 1.2	V 1.8	V 1.4	V 23.3
26	1.5	1.6	1.0	0.9	49.8	F 14.4	V 28.1	V 5.6	V 1.2	V 1.8	V 1.4	V 25.4
27	1.5	1.6	1.0	0.9	86.7	F 14.4	V 28.9	V 3.0	V 1.1	V 1.8	V 1.3	V 31.3
28	1.5	1.7	1.0	1.0	76.2	F 14.4	V 13.7	V 3.5	V 1.1	V 1.8	V 1.3	V 18.7
29	1.4	1.7	1.0	1.0	24.1	F 15.2	A 14.4	V 4.0	V 1.1	V 1.8	V 1.2	V 2.6
30	1.4	1.7	0.9	1.0		F 25.4	A 16	V 3.5	V 1.1	V 1.8	V 1.2	V 2.6
31	1.4		0.9	1.0		F 21.6	V	V 4.0	V	V 1.8	V 1.1	V

MEAN	2.0	1.5	1.2	0.9	26.1	12.8	22.4	8.0	2.2	1.7	1.6	21.7
ACRE-FEET	123	87.8	76.3	57.9	1,500	785	1,330	493	133	107	101	1,290

YEAR OR PERIOD MEAN ACRE-FEET 8.5  
6,088

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F213-R

DAILY DISCHARGE in second-feet of BIG TUJUNGA CREEK ABOVE GOLD CANYON FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	7.5	6.0	2.6	4.1	12.2	3.7	9.9	4.5	5.5	2.1	+	2.7
2	7.3	6.1	2.5	9.0	12.2	3.7	8.7	4.5	6.9	2.1	+	2.7
3	7.1	6.1	2.5	49.3	9.3	3.4	7.0	4.9	6.9	1.6	+	2.6
4	6.7	5.4	2.5	17.6	9.9	3.4	7.5	5.1	7.2	1.2	0.8	2.5
5	6.4	5.9	2.5	21.2	9.6	3.3	7.3	5.2	7.3	1.2	1.0	2.5
6	6.4	6.5	2.4	28.8	9.0	3.4	6.9	5.2	7.2	1.4	1.0	2.4
7	6.3	5.6	2.3	55.2	9.9	3.4	6.4	6.1	8.1	1.6	1.2	2.4
8	6.3	5.3	2.2	37.2	9.9	4.0	8.1	57.2	8.7	1.8	1.2	2.4
9	6.2	4.8	2.1	26.4	9.6	3.6	9.6	106	7.8	2.0	1.6	2.4
10	6.1	5.2	2.1	20.1	9.6	4.0	11.9	202	9.0	2.1	1.8	2.4
11	5.9	5.0	2.0	16.2	8.7	4.5	18	176	9.0	2.2	1.6	2.4
12	5.8	5.7	2.0	14.9	7.5	4.9	16.7	150	9.0	2.3	1.8	2.4
13	5.8	5.7	2.1	13.6	6.9	5.1	11.7	119	9.6	2.4	1.8	2.4
14	5.7	5.3	2.1	12.6	6.6	5.8	4.8	97.9	10.2	2.3	1.8	2.4
15	5.8	5.2	2.1	11.9	6.0	6.3	4.8	46.4	11.2	2.3	1.6	2.5
16	5.8	4.0	2.0	10.8	5.2	7.4	4.8	28.8	10.5	2.3	3.3	2.5
17	5.9	3.6	2.1	10.2	4.6	7.2	4.6	20.7	10.2	2.2	7.1	2.5
18	6.0	3.6	2.2	9.9	4.3	8.1	4.6	21.2	11.9	2.1	3.0	2.3
19	6.0	3.5	2.2	10.5	4.6	7.3	4.5	20.1	12.2	2.1	2.9	2.2
20	6.1	3.5	2.2	9.4	5.1	6.7	4.3	18	10.9	2.1	2.7	2.1
21	6.0	3.5	2.0	6.7	5.4	5.7	4.3	17.6	2.0	2.1	2.6	2.3
22	6.9	3.4	1.9	7.5	4.6	6.1	4.8	18	2.3	2.0	2.5	3.0
23	7.7	3.3	1.8	11.5	4.9	6.4	4.8	21.8	2.3	2.0	2.4	3.0
24	5.9	3.3	1.7	12.6	4.9	7.0	4.8	22.3	1.8	2.0	2.3	2.9
25	5.3	3.2	1.8	12.2	4.2	12.9	4.8	15.3	1.8	1.8	2.5	2.8
26	5.5	3.0	1.9	12.9	4.3	12.2	4.8	8.1	1.8	1.8	2.1	2.8
27	5.2	3.1	1.8	12.2	3.4	12.6	4.8	6.9	1.8	1.8	2.1	2.8
28	5.7	3.0	1.8	12.2	3.6	11.9	4.6	7.5	1.6	1.8	2.0	2.6
29	5.9	2.8	1.8	12.2		11.9	4.5	7.5	2.0	1.6	1.4	2.7
30	5.5	2.7	5.8	12.2		13.3	4.5	6.9	2.0	1.6	1.6	2.4
31	5.9		7.7	12.2		12.6		5.8		1.6	1.6	

MEAN	6.1	4.4	2.4	16.6	7.0	6.8	7.0	39.9	6.6	1.9	1.9	2.5
ACRE- FEET	378	264	148	1,020	389	420	414	2,450	394	118	118	151

YEAR OR PERIOD MEAN ACRE-FEET 8.6  
6,260

STATION DATA SUMMARY

STA. NO. F213-R  
BIG TUJUNGA CREEK ABOVE GOLD CANYON

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK MON	FLOW DAY	CFS
1932-33	438	1.1	10.5	7590	1	19	1399
1933-34	634	0.9	10.6	7700	1	1	1450
1934-35	354	2.6	20.5	14840	4	8	671
1935-36	150	2.4	10.5	7640	2	2	494
1936-37	423	1.0	50.1	36260	12	27	495
1937-38	13000 E	2.5	116	83960	3	2	50000 E
1938-39	316	3.5	18.8	13640	12	20	380
1939-40	359 E	1.6	15.1	10990			N.D.
1940-41	1260	1.2	10.9	78840	2	21	1650
1941-42	62	4.4	14.8	10670	12	28	165
1942-43	8000 E	1.2	10.5	76020	1	23	23000
1943-44	3320	2.3	79.9	57990	2	22	4760
1944-45	320	4.8	24.0	17370	2	2	897
1945-46	698	4.9	23.7	17160	3	30	1300
1946-47	644	4.0	26.2	18960	12	25	745
1947-48	25	0.7	6.4	4640	2	5	53
1948-49	13	0.6	3.4	2460	1	20	20
1949-50	30	1.7	4.1	2960	11	10	73
1950-51	7.1	0.2	2.1	1510	11	13	10
1951-52	1740	1.3	56.9	41320	1	18	2960
1952-53	59	1.8	9.0	6510	11	15	138
1953-54	227	0.6	11.4	8240	1	25	387
1954-55	33	1.1	5.0	3590	1	19	73
1955-56	214	0.3	6.5	4700	1	27	301
1956-57	25	0.2	3.2	2290	1	13	60
1957-58	1190	0.8	53.7	38910	4	3	1670
1958-59	133	1.8	6.3	4570	2	11	245
1959-60	12	0.1	2.7	1950	1	12	22
1960-61	16	0.2	1.3	926	11	5	86
1961-62	1850	0.6	29.8	21540	2	11	4770
1962-63	94	0.6	3.3	2370	2	9	412
1963-64	44	0.2	3.7	2690	1	22	166
1964-65	77	0.1	3.9	2790	4	9	220
1965-66	2850	1.0	63.9	46250	12	30	5220
1966-67	906	10	62.9	45540	12	6	1900
1967-68	275	1.9	21.0	15260	11	21	410
1968-69	9250	0.5	21.3	148100	2	25	21300
1969-70	208	N.D.	21.9	15830	2	28	560
1970-71	290	N.D.	22.8	16520	11	29	1320
1971-72	121	0.9	6.4	4670	1	4	121 E
1972-73	970	0.3	28.3	20480	2	11	1840
1973-74	235	1.0	13.6	9820	1	7	336
1974-75	94	1.0	15.1	10900	3	6	232
1975-76	151	0.9	8.5	6080	2	9	378
1976-77	202	*	6.7	6264	1	3	444

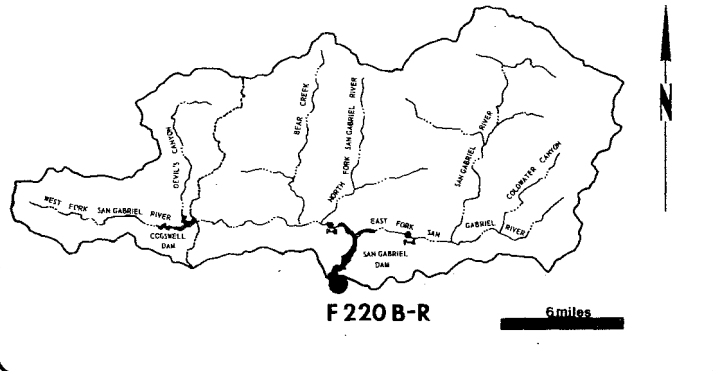
N.D. = NOT DETERMINED  
E = ESTIMATE



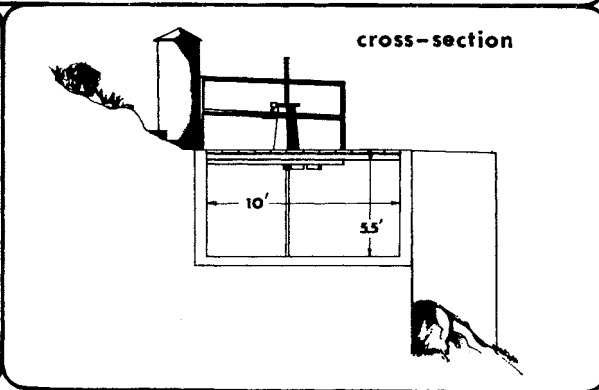
**STATION NO. F 220B - R  
SAN GABRIEL-AZUSA CONDUIT  
at 10 ft. Weir below San Gab. Dam**



**drainage area**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - weir formula with gage height observation  
 DRAINAGE AREA - none  
 LOCATION - on the concrete conduit which diverts from San Gabriel Dam, 160 feet below the dam  
 REGULATION - regulated by San Gabriel dam  
 CHANNEL - rectangular in section  
 CONTROL - 10-foot concrete weir  
 LENGTH - February 26, 1933, to date  
 REMARKS - approximate capacity 95 second-feet



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F220B-R

DAILY DISCHARGE in second-feet of AZUSA CONDUIT 10 FT. WEIR BELOW SAN GABRIEL DAM FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	69.5	69.5	18.8	23.7	23.7	53.4	77.7	49.1	49.9	46.9	50.2	51.3
2	69.5	69.5	18.8	23.7	23.7	18.2	77.7	50.2	49.9	46.9	51.3	51.3
3	69.5	70.4	10.9	23.7	23.5	0.9	78.4	50.2	49.9	45.9	50.2	51.3
4	69.5	70.4	18.8	23.7	22.9	0.9	76.4	50.2	49.9	45.9	50.2	50.2
5	69.5	69.5	18.8	23.7	26.3	27.5	75.7	50.2	49.1	45.9	51.3	50.2
6	69.5	39.1	18.8	23.7	29.8	54.5	75.7	50.2	49.1	44.9	51.3	50.2
7	69.5	21.2	18.8	23.7	29.8	54.5	75.7	50.2	50.2	45.9	51.3	49.1
8	69.5	21.2	18.8	23.7	29.8	63.6	60.6	50.2	49.1	45.9	51.3	49.1
9	69.5	21.2	18.8	23.7	31.6	73.2	51.6	50.2	50.2	45.9	53.2	49.1
10	69.5	21.2	18.8	23.7	16.5	74.5	51	50.2	50.2	45.9	50.2	49.1
11	69.5	21.2	18.8	24	13.8	74.5	50.4	50.2	50.2	45.9	49.1	50.2
12	69.5	21.2	18.8	24	30.1	74.5	49.3	49.9	49.1	45.8	52.3	50.2
13	69.5	19.5	18.8	23.7	30.6	74.5	49.3	50.2	50.2	45.9	51.3	25.9
14	69.5	18.8	18.8	23.7	30.6	74.5	49.3	50.2	50.2	44.9	52.3	1.1
15	69.5	18.8	21.2	23.7	31.1	74.5	49.3	50.2	49.9	44.9	51.3	1.1
16	69.5	18.8	23.6	23.7	30.6	74.5	49.3	50	50.2	44.9	50.2	36.1
17	69.5	18.8	23.6	23.7	30.6	74.5	51.6	50.2	49.9	45.3	52.3	70.7
18	69.5	18.8	23.6	23.7	30.6	74.5	49.9	50.2	49.9	45.3	50.2	70.7
19	69.5	18.8	23.6	23.7	43	74.5	49.1	50.2	49.9	45.3	49.1	70.7
20	69.5	18.8	23.6	23.7	51	74.5	48.7	50.2	49.1	45.3	48	70.7
21	69.5	18.8	23.6	22.9	51	75.7	48.7	50.2	48	44.7	49.1	70.7
22	69.5	18.8	23.6	22.9	51	75.7	48.7	50.2	48	44.7	50.2	70.7
23	69.5	18.8	23.6	22.9	50.2	75.7	48.7	50.2	48	44.7	49.1	70.7
24	69.5	18.8	23.6	23.7	51	75.7	48.7	50.2	48	44.7	49.1	70.7
25	69.5	18.8	23.6	23.7	51	75.7	49.3	50.2	48	44.7	49.1	70.7
26	69.5	18.8	23.6	23.7	51.3	75.7	49.9	50.2	48	49.9	49.1	72
27	69.5	18.8	23.6	23.7	51.3	75.7	49.9	50.2	48	52.2	48	70.7
28	69.5	18.8	23.6	23.7	51.3	75.7	49.3	50.2	46.9	51.6	51.3	69.5
29	69.5	18.8	23.6	23.7	52.3	75.7	49.1	50.2	46.9	51.6	51.3	69.5
30	69.5	18.8	23.6	23.7		76.9	49.3	50.2	46.9	51.6	51.3	70.8
31	69.5		23.6	23.7		76.9		50.2		50.2	51.3	

MEAN	69.6	28.5	21.4	23.6	35.9	64.6	56.3	50.1	49.1	46.6	50.5	55.1
MEAN FEET	4,270	1,700	1,310	1,450	2,060	3,970	3,350	3,080	2,920	2,860	3,100	3,280

YEAR OR PERIOD MEAN ACRE-FEET 45.9  
33,350

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F220B-R

DAILY DISCHARGE in second-feet of AZUSA CONDUIT 10 FT. WEIR BELOW SAN GABRIEL DAM FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	70.7	56.7	25.5	25.5	50.2	38.8	25.5	24.6	35.9	44.9	44.7	55.2
2	70.7	50.2	25.5	25.5	50.2	33.3	25.5	25.5	41.8	44.9	44.7	55.2
3	69.5	50.2	25.5	25.5	50.2	29	24.6	25.5	44.9	44.9	44.7	55.2
4	69.5	50.2	25.5	25.5	50.2	29	24.6	25.5	44.9	44.9	48.1	55.2
5	69.5	50.2	25.5	25.5	50.2	29	24.6	24.6	44.9	44.9	50.4	55.2
6	69.5	50.2	24.9	26.3	50.2	29.8	24.6	24.6	44.9	42.9	50.4	55.2
7	68.3	50.2	25.5	27.2	50.2	30.7	24.6	25.5	44.9	43.9	50.4	55.2
8	68.3	34.9	25.5	27.2	49.1	30.7	24.6	25.5	41.8	45.9	51	55.2
9	67.2	25.5	25.5	27.2	49.1	30.7	24.6	25.5	44.9	45.9	50.4	54.6
10	67.2	25.5	24.6	40.9	50.2	30.7	24.6	25.5	45.9	45.9	50.4	54.6
11	69.5	25.5	25.5	52.3	50.2	29.8	24.6	25.5	44.9	45.9	50.4	54.6
12	69.5	25.5	25.5	51.3	50.2	29.8	24.6	25.5	44.9	45.9	50.4	54.6
13	69.5	26.3	25.5	51.3	50.2	29.8	24.6	25.5	44.9	45.9	50.4	54.6
14	68.3	26.3	25.5	50.3	42.9	29.8	24.6	25.5	44.9	45.9	50.4	54.6
15	69.5	25.5	25.5	49.1	39.8	29.8	24.6	25.5	44.9	45.9	49.9	54.6
16	69.5	24.6	25.5	49.1	40.8	27.2	24.6	25.5	44.9	44.9	49.9	54.6
17	69.5	25.5	25.5	49.1	41.8	25.5	24.6	25.5	44.9	44.9	49.9	54.6
18	69.5	25.5	25.5	49.1	41.8	25.5	24.6	26.4	44.9	44.9	49.9	54.6
19	69.5	25.5	25.5	49.2	40.8	25.5	24.6	26.4	45.9	44.9	49.9	54.6
20	70.7	25.5	25.5	49.1	40.8	25.5	24.6	26.4	45.9	44.9	49.9	54.6
21	70.7	25.5	25.5	50.2	40.8	25.5	24.6	26.4	45.9	45.9	49.9	54.6
22	70.7	25.5	25.5	50.2	40.8	25.5	24.6	27.2	45.9	44.9	49.9	54.6
23	70.7	25.5	24.6	50.2	39.8	25.5	24.6	27.2	45.9	44.9	49.9	54.6
24	69.5	25.5	24.6	50.2	39.8	25.5	24.6	25.6	45.9	45.9	53.4	54.6
25	68.3	25.5	25.5	50.2	39.8	25.5	24.6	35.9	45.9	44.9	55.7	54.6
26	69.5	25.5	25.5	49.5	38.8	25.5	24.6	35.9	45.9	44.9	55.8	54.6
27	69.5	25.5	25.5	50.2	39.8	25.5	24.6	35.9	45.9	44.9	55.8	54.6
28	69.5	25.5	25.5	50.2	38.8	25.5	24.6	35.1	45.9	44.9	55.8	55.2
29	69.5	25.5	25.5	50.2		9.3	24.6	35.1	44.9	44.9	55.8	55.2
30	69.5	25.5	25.5	50.2		1.1	24.6	35.1	44.9	44.9	55.8	54.6
31	69.5		25.5	50.2		15.8		35.1		44.9	55.2	

MEAN ACRE- FEET	69.4	31.8	25.4	42.8	44.3	26.5	24.7	27.9	44.8	45.1	50.9	54.8
	4,270	1,890	1,560	2,630	2,430	1,630	1,470	1,710	2,660	2,770	3,130	3,260

YEAR  
OR  
PERIOD MEAN \_\_\_\_\_ 40.7  
ACRE-FEET \_\_\_\_\_ 29,470

STATION DATA SUMMARY

STA. NO. F220B-R  
SAN GABRIEL - AZUSA CONDUIT 10-FOOT WEIR BELOW SAN GABRIEL DAM

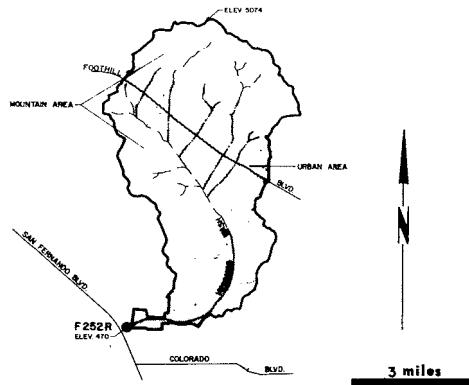
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.
1933-34	86	0	27.3	19770
1934-35	94	6.2	64.3	46570
1935-36	86	9.1	40.7	29500
1936-37	93	+	29.0	21030
1937-38	94	+	16.4	11910
1938-39	0	0	0	0
1939-40	90	+	32.7	23760
1940-41	89	+	23.2	16820
1941-42	91	+	53.0	38360
1942-43	94	0.1	36.6	26510
1943-44	94	+	56.9	41310
1944-45	96	+	59.2	42910
1945-46	92	+	55.0	39820
1946-47	92	0.1	64.7	46900
1947-48	60	+	34.4	24960
1948-49	70	0.1	24.0	17380
1949-50	82	19	37.5	27140
1950-51	70	0	11.5	8310
1951-52	91	0	65.2	47300
1952-53	89	+	43.7	31680
1953-54	89	+	38.8	28090
1954-55	85	30	50.6	36600
1955-56	86	14.8	49.0	35580
1956-57	86	0	36.8	26670
1957-58	87	0	27.8	20140
1958-59	89	12.4	49.4	35730
1959-60	50	5.3	24.6	17850
1960-61	45	0	12.2	8820
1961-62	86	0	57.4	41570
1962-63	83	0	33.0	23930
1963-64D	48	8.0	31.0	22490
1964-65C	81	0.1	35.8	25900
1965-66D	83	0	35.7	25840
1966-67B	84	0	41.8	30250
1967-68	82	+	50.3	36480
1968-69	54	0	1.1	777
1969-70	61	0	5.4	3920
1970-71	75	0	42.4	30710
1971-72	70	0	25.6	18590
1972-73	76	0	18.9	13660
1973-74	82	0	62.1	44950
1974-75	78	0	54.4	39390
1975-76	77	0.9	45.9	33350
1976-77	70.7	1.1	40.7	29472

S = RECORD BEGAN AT P LOCATION 10-23-63  
D = RECORD IS AT STA F250-R - 25 FOOT WEIR  
+ = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0.

**STATION NO. F252-R  
VERDUGO WASH  
at Estelle Avenue**

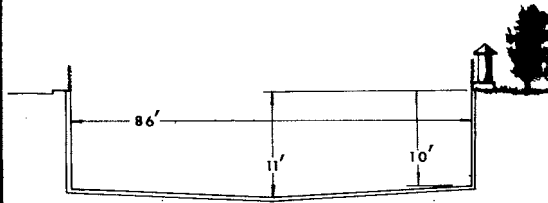


**drainage area**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from Concord Street bridge  
 DRAINAGE AREA - 26.8 square miles  
 LOCATION - 800.0 feet east of San Fernando Road, 2.0 miles northwest of Glendale  
 REGULATION - partially regulated by several debris basins  
 CHANNEL - concrete, rectangular in section  
 CONTROL - channel forms control  
 LENGTH OF RECORD - December 2, 1935 to date

**cross section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F252-R

DAILY DISCHARGE in second-feet of VERDUGO WASH AT ESTELLE AVE.

FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.7	1.0	1.8	1.0	3.9	154	1.0	3.9	8.4	2.8	6.2	2.5
2	1.0	1.2	1.8	1.0	3.9	82.5	1.0	5.0	8.4	3.9	5.0	2.8
3	1.0	1.5	2.0	1.0	3.9	12	1.0	3.9	9.5	3.9	6.2	2.8
4	1.0	1.5	1.8	1.2	32.7	1.0	12.8	6.2	10.6	2.8	5.0	2.5
5	1.0	1.8	1.8	1.2	167	1.0	1.5	6.2	12.9	2.8	5.0	41.9
6	1.0	1.5	1.5	1.2	99	0.7	1.8	8.8	12.9	2.8	5.0	1.9
7	0.7	1.5	1.5	1.5	20.7	0.7	1.8	9.8	14	3.9	5.0	1.8
8	0.5	1.5	1.8	1.2	67.6	0.7	8.4	2.8	16.4	2.8	5.0	1.2
9	0.7	1.5	1.8	1.2	138	1.5	2.0	3.9	18.8	2.5	3.9	1.0
10	0.7	1.5	1.8	1.2	41.4	6.1	2.0	3.9	29.1	2.8	3.9	183
11	6.2	1.5	2.0	1.2	1.2	1.0	2.0	3.9	11.8	3.9	3.9	72.9
12	2.0	1.5	27.6	1.2	1.0	1.0	28.2	3.9	11.8	3.9	2.8	2.0
13	1.8	1.5	1.0	1.2	1.5	1.2	38.8	3.9	12.9	5.0	2.3	2.3
14	1.2	1.5	1.2	1.2	2.0	1.5	2.8	2.8	12.9	5.0	3.9	2.0
15	1.5	1.5	1.2	1.5	2.3	1.2	7.4	2.8	12.9	5.0	13.9	4.0
16	1.0	1.2	1.0	1.5	2.3	1.5	2.8	3.9	11.8	2.8	2.3	1.2
17	0.7	1.2	0.7	1.5	2.0	1.8	2.8	3.9	8.4	3.9	1.8	1.2
18	0.7	1.2	0.7	1.8	11.7	2.0	2.8	5.0	6.2	3.9	1.5	1.8
19	0.7	1.2	1.0	1.8	1.8	1.8	3.9	5.0	6.2	2.8	1.5	2.0
20	1.0	1.2	1.0	1.8	1.0	1.8	3.9	6.2	6.2	2.8	1.5	2.0
21	1.0	1.2	1.0	1.8	1.0	1.8	3.9	6.2	7.4	3.9	1.2	2.0
22	1.2	1.5	1.0	2.0	1.8	1.8	2.8	6.2	6.2	5.0	1.2	2.0
23	1.0	1.5	0.7	2.0	2.0	1.5	2.5	6.2	6.2	5.0	1.2	2.0
24	0.7	1.5	0.7	2.3	2.0	1.8	3.9	7.4	3.9	5.0	1.5	2.0
25	0.7	1.5	1.0	2.3	2.3	1.8	6.2	6.2	3.9	6.2	1.8	2.0
26	0.5	1.5	1.0	2.3	2.3	1.5	6.2	6.2	3.9	6.2	1.8	2.3
27	0.7	1.5	1.0	2.3	2.0	1.0	5.0	6.2	2.0	7.4	1.8	2.3
28	1.0	1.5	1.0	2.3	2.3	1.0	2.8	6.2	3.9	7.4	2.0	2.3
29	1.0	1.2	1.0	2.5	3.1	1.0	2.8	6.2	3.9	5.0	2.0	2.3
30	1.2	1.5	1.5	2.8		1.0	3.9	6.2	2.0	6.2	2.0	2.3
31	0.7		0.7	2.8		1.0		7.4	2.0	7.4	2.0	2.3
MEAN	1.1	1.4	2.1	1.7	20.5	9.4	5.7	5.3	9.5	4.4	3.4	11.9
TOT	69	84.1	130	103	1,180	575	340	322	564	271	210	707

YEAR OR PERIOD \_\_\_\_\_ MEAN ACRE-FOOT \_\_\_\_\_ 5.4  
 4,560

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F252-R

DAILY DISCHARGE in second-feet of VERDUGO WASH AT ESTELLE AVE.

FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	2.3	2.5	1.8	1.8	2.5	5.0	1.0	1.5	1.0	1.0	1.2	0.7
2	2.5	2.5	2.0	94.4	2.5	6.2	1.0	1.5	1.0	1.0	0.7	0.7
3	2.5	2.5	2.3	210	2.8	6.2	1.0	1.5	1.0	1.0	0.5	0.7
4	2.8	2.5	2.3	2.5	2.8	6.2	0.3	1.5	1.2	1.0	0.5	0.7
5	3.9	2.8	2.5	82.6	2.8	8.4	1.8	1.6	1.2	1.0	0.5	0.7
6	3.9	2.8	2.5	84.6	2.5	9.5	1.2	1.5	1.0	1.0	0.7	0.7
7	2.8	3.9	2.5	100	3.9	10.6	2.3	1.8	1.2	0.7	0.7	0.7
8	3.9	2.8	2.5	3.9	3.9	10.6	1.8	163	1.2	0.7	0.7	0.5
9	3.9	2.8	3.9	2.5	5.0	10.6	1.8	180	1.5	0.7	0.7	0.5
10	3.9	2.8	3.9	2.3	5.0	7.3	1.8	7.5	1.5	1.0	0.7	0.5
11	3.9	11.1	7.3	2.3	3.9	2.5	1.8	1.8	1.0	1.0	0.5	0.5
12	3.9	41.4	7.3	2.5	2.8	2.3	1.8	17.1	1.0	0.5	0.5	0.5
13	3.9	1.2	7.3	2.5	2.8	2.3	1.2	1.5	1.0	0.5	0.5	0.5
14	3.9	1.2	8.4	2.3	2.8	2.3	1.2	1.0	1.0	0.5	0.5	0.5
15	3.9	1.0	7.3	2.5	3.9	2.3	1.2	0.7	1.0	0.5	0.5	0.5
16	3.9	1.2	9.5	2.5	3.9	47.5	1.5	1.0	1.2	0.7	135	0.5
17	5.0	1.5	8.4	2.5	3.9	8.5	1.5	1.2	1.2	1.0	2.2	0.5
18	6.2	1.2	9.5	2.5	2.8	2.0	1.5	1.5	1.2	1.0	0.5	0.5
19	8.4	1.5	8.4	2.5	2.8	2.0	1.8	1.5	1.5	0.7	0.5	0.5
20	9.5	1.5	8.4	2.8	3.9	2.0	1.8	1.5	1.2	0.7	0.5	0.5
21	11.8	1.5	7.3	7.3	3.9	1.5	1.8	1.2	1.2	1.0	0.5	0.2
22	33.4	2.0	2.8	2.3	5.0	1.0	1.5	1.2	1.2	0.7	0.5	0.2
23	30.6	1.8	2.5	2.5	23.1	1.5	1.8	1.8	1.2	0.7	0.7	0.2
24	2.0	1.8	2.8	2.3	9.5	3.0	2.0	16.3	1.5	1.0	1.0	0.2
25	2.3	2.0	2.8	2.5	5.0	61.6	1.5	1.2	1.5	1.0	1.0	0.2
26	1.8	2.0	2.8	2.5	5.0	1.5	1.8	0.7	1.8	1.0	1.0	0.5
27	2.0	1.5	2.8	2.5	5.0	1.0	2.0	0.7	1.8	1.0	1.0	0.5
28	2.3	1.8	3.9	2.3	3.9	1.5	1.5	0.7	1.5	0.7	0.7	0.5
29	2.3	1.8	2.8	2.3		1.0	1.8	0.7	1.2	0.7	0.7	0.5
30	2.3	1.8	41.4	2.5		1.0	1.8		1.0	0.5	0.7	0.5
31	2.3		8.3	2.3		1.0		1.0		0.7	0.7	
MEAN	5.7	3.6	6.1	20.7	4.5	7.6	1.6	13.4	1.2	0.8	5.1	0.5
MEAN PERIOD	353	216	373	1,270	253	468	92.8	827	73.4	50	311	23.6

YEAR OR PERIOD MEAN ACRE-FOOT 5.9 4,320

STATION DATA SUMMARY

STA. NO. F252-R  
VERDUGO WASH AT ESTELLE AVENUE

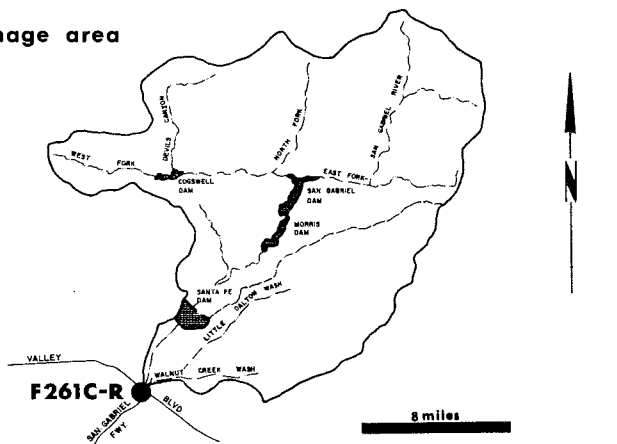
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	PEAK FLOW DAY	PEAK FLOW CFS
1928-29	15	0	*	140*	4	4	56*
1929-30	14	0	0.4	274	5	3	80
1930-31	8.4	*	0.2	145	4	26	46
1931-32	39	0.1	1.0	713	2	9	145
1932-33	42	0.1	0.4	295	1	19	391
1933-34	NO RECORD						
1934-35	85*	0	*	620*	1	5	1020*
1935-36	33	0	0.6	463	3	30	1100
1936-37	*	0	*	1560*	12	27	768
1937-38	1500	0	7.5	5450	3	2	4400E
1938-39	78	0	2.0	1420	1	5	520
1939-40	60	*	2.0	1430	1	8	533
1940-41	357	*	10.2	7370	2	19	1120
1941-42	81	0.8	3.0	2160	12	10	440
1942-43	1020	0.3	12.0	8690	1	23	3570
1943-44	929	0.2	7.0	5040	2	22	3160
1944-45	181	0.6	2.8	2010	2	2	1520
1945-46	135	0.3	2.7	1930	12	22	816
1946-47	234	0	2.7	1940	12	25	1860
1947-48	41	0	0.5	382	3	24	573
1948-49	35	0	0.6	433	12	16	202
1949-50	69	0	0.9	638	2	6	467
1950-51	41	0	0.5	383	1	11	960
1951-52	422	0	7.8	5630	1	16	2920
1952-53	100	0	1.3	968	11	15	1520
1953-54	227	0	2.7	1920	2	13	1300
1954-55	134	0	2.0	1480	1	18	784
1955-56	550	0	2.5	1840	1	26	1940
1956-57	184	0	1.9	1400	2	23	2960
1957-58	236	0	5.2	3770	2	19	1700
1958-59	232	0	2.0	1440	2	16	2080
1959-60	56	0	1.2	862	1	11	533
1960-61	98	*	0.9	667	11	5	676
1961-62	592	0	6.8	4830	2	12	1880
1962-63	370	*	2.0	1460	2	9	2180
1963-64	192	0	2.1	1510	1	21	1640
1964-65	249	*	3.8	2780	4	8	1480
1965-66	1030	0.1	12.2	8830	12	29	3480
1966-67	422	0.5	10.4	7530	1	22	3230
1967-68	606	0.2	9.3	6730	3	8	3460
1968-69	1850	1.8	36.1	26120	1	25	5050
1969-70	261	2.0	8.4	6090	2	28	2500
1970-71	931	1.8	10.6	7590	11	29	5330
1971-72	476	1.2	14.8	4570	12	2+	1960
1972-73	897	1.0	12.8	9280	1	18	4010
1973-74	671	1.8	10.2	7380	1	7	2390
1974-75	373	0.7	7.7	5590	12	4	3390
1975-76	180	0.5	6.4	4560	3	1	1190
1976-77	210	0.3	6.0	4318	1	3	2100

\* = RECORD INCOMPLETE  
+ = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0.  
E = ESTIMATE

**STATION NO. F 261C-R  
SAN GABRIEL RIVER  
below Valley Boulevard**



**drainage area**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading  
 DRAINAGE AREA - 118.0 square miles (excludes area above Santa Fe Dam)  
 LOCATION - 1,150.0 feet below Valley Boulevard, 2.5 miles east of El Mante  
 REGULATION - partly regulated by Santa Fe, Big Dñtan, Puddingstone Diversion, and Puddingstone Dams.  
 CHANNEL - sand and gravel bottom with rip-rap side slopes; trapezoidal section  
 CONTROL - concrete stabilizer with low-flow notch  
 LENGTH OF RECORD -  
 at Station F261-R, March 11, 1937, to September 30, 1941  
 at Station F261B-R, October 1, 1941, to April 23, 1946  
 at Station F261C-R, November 29, 1960, to date  
 REMARKS - flows may include imported water originating at Metropolitan Water District outlets at San Dimas Canyon and below San Bernardino Road.

**cross-section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F261C-R

DAILY DISCHARGE in second-feet of SAN GABRIEL RIVER BELOW VALLEY BLVD. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	36	85	81	83	83	302	10	0	253	166	0.1	0.4
2	40	85	83	83	83	142	0	0	253	177	0.2	0.3
3	56	85	81	83	83	26	0	0	230	177	0.2	25
4	61	85	81	81	95	22	53	0	208	177	0.2	1.7
5	63	85	81	81	63	76	0	0	257	138	0.2	14
6	83	85	81	81	266	78	0	0	257	87	0.2	11
7	64	85	81	81	66	79	0	16.7	253	85	0.2	3.6
8	70	85	79	81	193	76	0	0	253	85	0.2	2.4
9	79	85	79	81	374	78	0	0	257	87	0.2	1.7
10	78	85	79	83	5.0	74	0	0	290	89	0.2	51.6
11	79	85	78	83	18	79	0	0	257	87	0.2	109
12	74	85	98	83	91	79	0.3	0	257	87	0.2	12
13	73	85	1.0	83	91	79	81.2	0	253	87	0.2	8.9
14	72	85	+	83	89	81	0	0	257	87	0.3	0.1
15	72	85	30	83	87	81	8.2	0	257	87	0.7	0.3
16	66	83	79	83	81	81	0	0	261	67	0.4	0
17	63	81	78	81	81	81	0	0	261	+	0.2	0
18	81	76	79	81	85	56.5	0	0	266	0	0.2	+
19	81	81	79	83	83	33	0	0	261	0	0.3	+
20	81	83	79	83	83	81	0	0	261	0	0.2	+
21	83	83	78	81	83	79	0	0	261	0	0.3	0
22	83	83	78	83	83	78	0	0	226	0	0.3	0
23	85	85	81	83	62	78	0	0	205	+	0.2	0
24	83	83	79	83	37	78	0	0	194	+	0.2	+
25	83	83	81	83	81	78	0	0	154	0.2	0.2	+
26	85	83	81	83	83	81	0	48	126	0.4	0.3	0
27	85	91	81	83	83	81	0	241	124	0.1	0.3	0
28	87	83	81	83	83	81	0	253	138	0.1	0.3	0
29	83	81	81	83	55	81	0	249	149	0.2	0.2	0
30	83	81	81	83		81	0	253	152	0.2	0.3	45
31	12		81	83		55		253		0.2	0.4	

MEAN	71.1	83.8	73.9	82.4	74.8	81.8	5.1	42.4	227	57.1	0.3	25
ACRE- FEET	4,370	4,960	4,540	5,070	5,450	5,030	303	2,610	13,550	3,540	15	1,420

YEAR OR PERIOD MEAN ACRE-FEET 70.4  
50,920

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F261C-R

DAILY DISCHARGE in second-feet of SAN GABRIEL RIVER BELOW VALLEY BLVD. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	95	0	0	7.3	133	51.6	0	0	0	0	+	0
2	95	E 1.0	0	76.3	136	53	0	0	0	0	0.1	0
3	95	E 2.0	0	472	133	55.7	0	0	0	0	0.1	0
4	91	E 2.0	0	176	133	54.3	0	0	0	0	0.1	0
5	95	0.5	0	397	136	54.3	0	0	0	0	+	0
6	30	0.3	0	192	138	53	0	0	0	0	+	0
7	2.4	0.2	0	95	141	55.7	0	0	0	0	+	0
8	+	0.5	0	+	141	54.3	0	349	0	0	+	0
9	0	0.6	0	0	141	54.3	0	500	0	0	+	0
10	0	0.6	0	2.0	141	54.3	0	2.1	0	0	+	0
11	0	0.6	0	64	141	54.3	0	0.6	0	0	+	0
12	0	218	0	85	143	54.3	0	0.7	0	0	0.1	0
13	0	0	0	89	143	54.3	0	0	0	0	0.1	0
14	0	0	0	87	143	55.7	0	0	0	0	0.1	0
15	0	0	0	85	143	52.2	0	0	0	0	0.1	0
16	0	0	0	87	141	122	0	0	0	0	6.5	0
17	0	0	0	91	141	2.8	0	0	0	0	717	0
18	0	E 0.1	0	112	143	0	0	0	0	0	1.8	0
19	0	0	0	131	143	0	0	0	0	0	0	0
20	0	0	0	128	143	0	0	0	0	0	0	0
21	0	0	0	55	143	0	0	0	0	0	0	0
22	1.2	0	0	131	143	0	0	0	0	0	0	0
23	+	0	0	131	104	0	0	14.8	0	0	0	0
24	0	0	0	131	129	18.3	0	8.0	0	0	0	0
25	0	0	0	136	1.0	165	0	0	0	0	0	0
26	0	0	0	138	0	23.6	0	0	0	0	0	0
27	0	0	0	131	0	0.7	0	0	0	0	0	0
28	0	0	0	131	14.9	0	0	0	0	0	0	0
29	0	0	0	128	0	0	0	0	0	+	0	0
30	0	0	16.9	126	0	0	0	0	0	+	0	0
31	0	0	70	126	0	0	0	0	0	+	0	0

MEAN	18.2	7.5	7.7	120	119	36.9	0	28.2	0	+	23.4	0
TOTAL	1,120	449	474	7,420	6,610	2,270	0	1,740	0	+	1,440	0

YEAR OR PERIOD MEAN ACRE-FEET 30.1 21,520

STATION DATA SUMMARY

STA. NO. F261C-R  
SAN GABRIEL RIVER BELOW VALLEY BOULEVARD

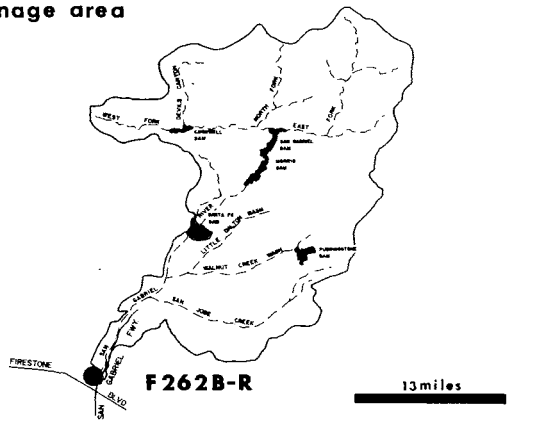
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON DAY	CFS
1938-39	125	0.4	8.0	5790		N.D.
1939-40	125E	0.2	1.8	1320		N.D.
1940-41	1300	0.2	73.9	53500		N.D.
1941-42B	4.0	0	2.2	1560		N.D.
1942-43	8000	0	22.1	160300	1 23	9350
1943-44	2720	0.6	83.0	60290	2 22	5950
1944-45	650	3.1	10.5	7570		N.D.
1945-46	990	0	11.9	8640	12 23	1470
1946-47	2400	0	30.3	21940		N.D.
1947-48	0	0	0	0		0
1948-49	0	0	0	0		0
1949-50	0	0	0	0		0
1950-51	0	0	0	0		0
1951-60	NO RECORD					
1960-61C	306	0	*	34500*	1 26	1200
1961-62	1000	0	193	139500	11 20	7500
1962-63	566	0	78.6	56900	3 16	3500
1963-64	358	0	70.6	51290	1 22	2500E
1964-65	792	0	123	89150	4 9	5890
1965-66	5960	0	164	118600	11 23	11300
1966-67	1440	0	66.3	48200	1 24	7880
1967-68	1060	0	26.3	19060	3 8	6500
1968-69	23900	0	591.	428000	1 25	40000E
1969-70	782	0	60.6	43870	2 28	4470
1970-71	964	0	78.0	56430	12 21	2970
1971-72	1000	0	4.7	34140	12 24	5120
1972-73	1210	0	130	93880	1 16	5810
1973-74	1520	0	127	92070	1 7	3340
1974-75	812	0	62.2	45000	12 4	8610
1975-76	516	0	70.4	50920	9 10	2690
1976-77	717	0	29.7	21523	1 3	5458

B = RECORD BEGAN AT B LOCATION 10-01-41  
C = RECORD BEGAN AT C LOCATION 11-29-60  
\* = RECORD INCOMPLETE  
N.D. = NOT DETERMINED  
E = ESTIMATE

**STATION NO. F 262B-R  
SAN GABRIEL RIVER  
above Florence Avenue**

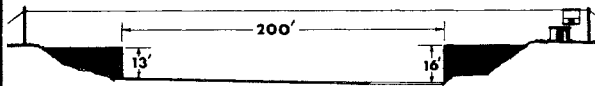


**drainage area**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from cable car  
 DRAINAGE AREA - 215.8 square miles (excludes area above Santa Fe Dam)  
 LOCATION - 1,400 feet above Florence Avenue, 2.0 miles east of Downey  
 REGULATION - partially regulated by Cogswell, San Gabriel, Morris, Santa Fe, Big Dalton, San Dimas, Puddingstone Diversion, Puddingstone, Live Oak, Thompson Creek and Whittier Narrows Dams, several debris basins, MWD outlets, and several spreading grounds  
 CHANNEL - sand bottom with rip-rap side slopes, trapezoidal section  
 CONTROL - concrete stabilizer  
 LENGTH OF RECORD -  
 at Station F267-R, February 27, 1937 to September 30, 1967  
 at Station F262B-R, August 6, 1968, to date  
 REMARKS - no record during 1967-1968 season due to channel construction

**cross-section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F262B-R

DAILY DISCHARGE in second-feet of SAN GABRIEL RIVER ABOVE FLORENCE AVE. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	0	0	0	252	0	0	0	0	0	0
2	0	0	0	0	0	1.4	0	0	0	0	0	0
3	0	0	0	0	0	109	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	245	0	0	0	0	0	0	0
7	0	0	0	0	0.3	0	0	0	0	0	0	0
8	0	0	0	0	105	0	0	0	0	0	0	0
9	0	0	0	0	690	0	0	0	0	0	0	0
10	0	0	0	0	33.5	0	0	0	0	0	0	392
11	0	0	0	0	0	0	0	0	0	0	0	258
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	12	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	0
31	0	0	0	0	0	0	0	0	0	0	0	0

MEAN	0	0	0	0	37	11.7	0.4	0	0	0	0	21.7
ACRE-FOOT	0	0	0	0	2,130	719	23.8	0	0	0	0	1,290

YEAR OR PERIOD MEAN ACRE-FOOT 5.9  
4.160

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F262B-R

DAILY DISCHARGE in second-feet of SAN GABRIEL RIVER ABOVE FLORENCE AVE. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	0	13	0	0	0	0	0	0	0	0
2	0	0	0	+	0	0.1	0	0	0	0	0	0
3	0	0	0	486	0	0	0	0	0	0	0	0
4	0	0	0	+	0	0	0	0	0	0	0	0
5	0	0	0	18.3	0	0	0	0	0	0	0	0
6	0	0	0	320	0	0	0	0	0	0	0	0
7	0	0	0	167	0	0	0	0	0	0	0	0
8	0	0	0	+	0	0	0	0.3	0	0	0	0
9	0	0	0	0	0	0	0	2.4	0	0	0	0
10	0	0	0	0	0	0	0	19.4	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	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	392	0
18	0	0	0	0	0	0	0	0	0	0	3.5	0
19	0	0	0	0	0	0	0	0	0	0	0.1	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	0
24	0	0	0	0	48.4	0	0	0	0	0	0	0
25	0	0	0	0	0.9	30.8	0	0	0	0	0	0
26	0	0	0	0	0	+	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	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	95.1	0	0	0	0	0	0	0	0	0
31	0	0	1.2	0	0	0	0	0	0	0	0	0
MEAN	0	0	3.1	32.4	1.8	1.0	0	0.7	0	0	12.8	0
ACRE- FEET	0	0	191	1,390	97.8	61.3	0	43.8	0	0	785	0

YEAR OR PERIOD MEAN ACRE-FEET 4.3  
3,170

STATION DATA SUMMARY

STA. NO. F262B-R  
SAN GABRIEL RIVER ABOVE FLORENCE AVENUE

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK MON	FLOW DAY	CFS
1934-35	718	0	6.5	4700	10	17	5850
1935-36	414	0	2.4	1750	2	12	3400
1936-37	NO RECORD						
1937-38	NO RECORD						
1938-39	325	0		2540*	9	25	1380
1939-40	271	0	2.6	1900	1	8	1150
1940-41	2390	0	105	75780	3	4	5630
1941-42	117	0	18.7	13570	12	10	413
1942-43	9190	0	257	186400	1	23	14000
1943-44	4860	0	110	79930	2	22	16000
1944-45	806	0	36.1	24110	11	12	4020
1945-46	1500	0	22.8	16480	12	23	4370
1946-47	2880	0	38.2	27650	12	31	3640
1947-48	0	0	0	0			
1948-49	0	0	0	0			
1949-50	0	0	0	0			
1950-51	0	0	0	0			
1951-52	3070	0	33.4	24250	1	16	8040
1952-53	181	0	1.4	983	12	2	1270
1953-54	638	0	5.2	3790	2	13	4060
1954-55	317	0	1.4	1000	1	18	1850
1955-56	4580	0	14.3	10360	1	26	12800E
1956-57	490	0	1.9	1390	1	13	2040
1957-58	1720	0	31.9	23960	4	7	6300
1958-59	826	0	4.3	3130	1	6	4060
1959-60	377	0	2.7	1990	1	12	2210
1960-61	316	0	0.9	678	1	26	2940
1961-62	2170	0	23.7	17340	2	11	6470
1962-63	1190	0	7.1	5160	3	16	4270
1963-64	707	0	4.8	3460	11	20	4330
1964-65	1210	0	12.4	9010	4	9	4900
1965-66	697	0	7.8	5620	1	30	2080
1966-67	1900	0	32.2	23300	1	23	4320
1967-68	NO RECORD						
1968-69	8430	0	273	197600	1	25	10900
1969-70	1650	0	16.5	11950	3	4	4510
1970-71	2160	0	15.5	11220	11	29	4410
1971-72	1450	0	10.2	7400	12	24	7510
1972-73	2540	0	28.6	20700	2	11	5680
1973-74	3650	0	26.8	19420	1	7	5870
1974-75	1390	0	8.4	6110	12	4	6010
1975-76	690	0	5.9	4160	9	10	2800
1976-77	486	0	4.4	3171	1	3	3320

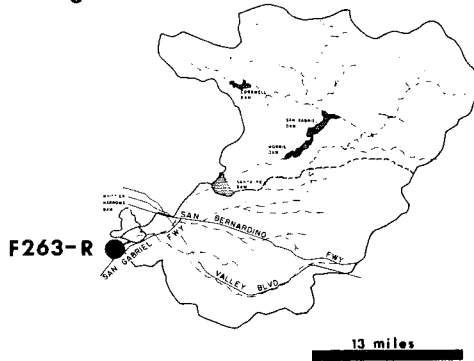
B = RECORD BEGAN AT B LOCATION 08-06-68  
\* = RECORD INCOMPLETE  
E = ESTIMATE



**STATION NO. F 263 C-R  
SAN GABRIEL RIVER  
below San Gabriel River Parkway**

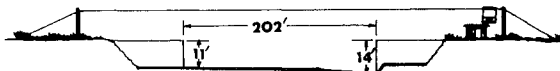


**drainage area**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from cable car  
 DRAINAGE AREA - 206.3 square miles (excludes area above Santa Fe Dam)  
 LOCATION - 462.0 feet below San Gabriel River Parkway, 1.4 miles northeast of Pico Rivera  
 REGULATION - partly regulated by Santa Fe, Big Dalton, Puddingstone Diversion, Puddingstone, and Thompson Creek Dams. Flows may include imported water from several Metropolitan Water District outlets. Water is at times diverted to the Zone I ditch upstream of Whittier Narrows Dam.  
 CHANNEL - rip-rap slopes with sand bottom trapezoidal section  
 CONTROL - concrete stabilizer  
 LENGTH OF RECORD -  
 at Station F263-R, February 4, 1937, to March 6, 1952  
 at Station F263B-R, March 6, 1952, to August 9, 1968  
 at Station F263C-R, August 9, 1968, to date

**cross-section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F263C-R

DAILY DISCHARGE in second-feet of SAN GABRIEL RIVER BELOW SAN GABRIEL RIVER PARKWAY FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	55	40	42	B 0.5	B 0.5	564	20	16	98	E 65	0	0
2	48	50	44	B 14	0	136	7.0	16	86	E 65	0	0
3	62	50	71	34	0	168	6.4	16	62	E 65	0	10
4	65	50	71	44	47	B 3.0	84	16	28	E 65	0	E 42
5	65	52	71	47	69	B 2.5	17	16	74	E 65	0	E 25
6	58	54	74	49	423	B 2.0	B 4.0	9.5	74	E 30	0	E 70
7	52	54	76	50	76	B 1.5	B 1.0	7.8	73	E 10	0	E 10
8	52	57	71	58	328	B 1.0	12	0	69	E 10	0	E 28
9	60	64	62	62	868	B 0.5	B 1.0	0	74	E 30	0	0
10	58	67	64	62	17	33	B 0.5	0	116	E 30	0	E 1,500
11	60	67	67	62	B 1.0	18.7	B 0.5	0	106	E 30	0	E 440
12	52	60	74	64	B 0.9	22	3.4	0	102	E 30	0	80
13	57	60	23	62	B 0.8	25	232	0	96	E 30	0	0
14	54	62	9.5	64	B 0.7	25	B 1.0	0	96	E 30	0	0
15	54	64	11.1	64	B 1.5	24	4.4	0	86	E 30	0	0
16	55	64	62	65	16	28	18	0	73	E 30	0	0
17	F 25	65	62	65	19	29	16	0	78	E 28	0	0
18	H 4.0	65	62	65	25	24	16	0	76	0	0	0
19	B 2.0	62	65	65	34	B 1.0	17	0	76	0	0	0
20	F 25	64	65	62	34	30	17	0	76	0	0	0
21	60	37	65	B 1.0	38	36	14	0	74	0	0	0
22	60	B 1.0	67	B 0.5	37	37	14	0	50	0	0	0
23	58	B 0.5	69	B 12	22	36	15	0	20	0	0	0
24	58	B 0.3	71	34	1.0	34	16	0	64	0	0	0
25	57	B 0.1	71	38	B 1.0	34	15	0	E 120	0	0	0
26	58	B 15	71	38	B 1.0	34	16	0	E 125	0	0	0
27	57	43	73	37	60	36	17	64	E 125	0	0	0
28	42	46	73	37	62	37	16	94	E 95	0	0	0
29	17	46	49	42	33	37	16	100	E 55	0	0	0
30	39	43	B 1.5	B 23		37	16	104	55	0	0	0
31	B 1.0	B 1.0	B 1.0	A 1.0		36		106		0	0	

MEAN	46.8	46.8	56.7	42.6	76.4	49.4	21.1	18.2	88.1	28.7	0	73.5
ACRE- FEET	2,880	2,788	3,490	2,620	4,400	3,848	1,280	1,120	4,760	1,280	0	4,370

YEAR OR PERIOD MEAN ACRE-FEET 44.4  
32,000

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F263C-R

DAILY DISCHARGE in second-feet of SAN GABRIEL RIVER BELOW SAN GABRIEL RIVER PARKWAY FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	A 34	0	0	10	D 52	0	0	0	2.3	A 2.5	0	14
2	A 40	0	0	8.4	D 54	0	0	0	11	A 12	7.4	14
3	A 40	0	0	722	D 52	0	0	0	12	A 14	11	8.1
4	A 40	0	0	41	D 52	0	0	0	12	A 14	11	13
5	A 58	0	0	240	D 54	0	0	3.9	12	A 14	11	13
6	A 60	0	0	520	D 52	0	0	7.4	12	A 5.6	12	13
7	A 40	0	0	239	D 54	D 3.0	0	7.8	12	0	12	14
8	0	0	0	E +	D 54	D 5.0	0	239	5.0	0	12	13
9	0	0	0	0	D 52	D 6.0	0	323	0	0	12	14
10	0	0	0	E 0.5	D 54	D 7.2	0	64	0	0	8.1	13
11	0	0	0	27	D 54	26	0	4.1	0	0	6.7	14
12	0	333	0	49	D 52	30	0	6.4	0	0	6.7	14
13	0	0	0	42	D 52	29	0	12	0	0	11	8.4
14	0	0	0	27	D 67	31	0	6.8	0	0	11	0
15	0	0	0	27	D 100	32	0	14	0	0	13	0
16	0	0	0	29	D 100	144	0	14	0	0	12	+
17	0	0	0	30	100	102	0	14	A 0	0	739	9.2
18	0	0	0	36	82	+	0	5.7	A 0	0	85	12
19	0	0	0	46	64	0	0	12	A 0	0	A 12	8.8
20	0	0	0	50	52	0	0	12	A 0	0	A 12	0
21	0	0	0	25	47	7.4	0	12	A 0	0	A 12	7.0
22	0	0	0	27	47	11	0	12	A 0	0	A 11	8.8
23	33	0	0	16	40	11	0	12	A 0	0	A 11	8.8
24	0	0	0	34	244	12	0	27	A 0	0	A 11	8.1
25	0	0	0	D 57	22	245	0	0	A 0	0	A 11	8.1
26	0	0	0	D 55	0	21	0	0	A 0	0	A 11	7.4
27	0	0	0	D 55	0	8.1	0	0	A 0	0	A 10	0
28	0	0	0	D 55	0	12	0	0	A 0	0	A 10	0
29	0	0	0	D 55	0	12	0	0	A 0	0	A 10	0
30	0	0	324	D 55	0	7.0	0	0	A 0	0	A 10	0
31	0	0	43	D 52	0	0	0	0	A 0	0	A 10	0

MEAN	11.1	11.1	11.8	84.8	59	24.6	0	26.1	2.6	2.0	36.2	8.1
ACRE- FEET	684	660	728	5,220	3,280	1,510	0	1,600	155	123	2,230	483

YEAR OR PERIOD MEAN ACRE-FEET 23.1  
16,670

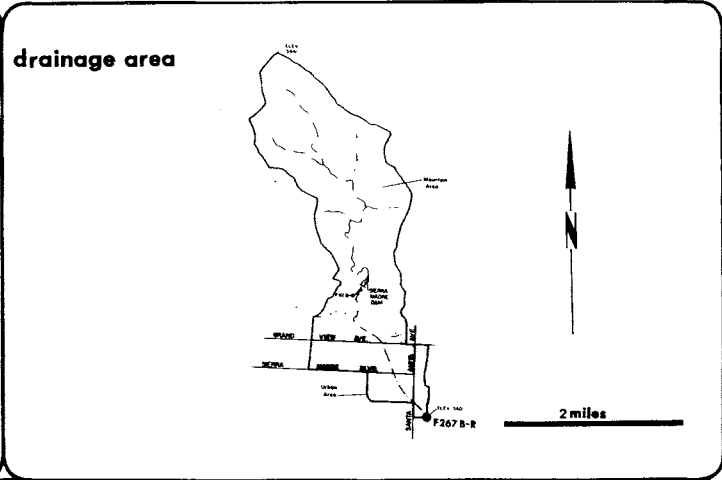
STATION DATA SUMMARY

STA. NO. F263C-R  
SAN GABRIEL RIVER BELOW SAN GABRIEL RIVER PARKWAY

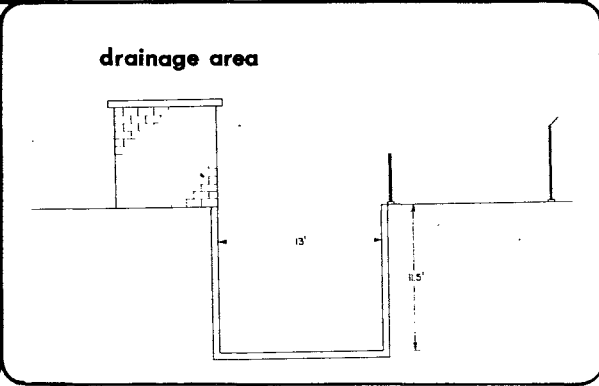
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK MON	FLOW DAY	CFS	SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK MON	FLOW DAY	CFS
1929-29	93	0	3.9	2850	3	10	397	1962-63	1080	0	58.6	42430	3	17	4320
1929-30	152	0	4.8	3490	1	11	726	1963-64	881	0	63.0	45700	1	22	3380
1930-31	106	0	3.4	2490	2	4	494	1964-65	1410	0	107	77270	4	9	5590
1931-32	1620	0	18.0	13060	2	9	3830	1965-66	916	0	76.4	55320	2	6	2670
1932-33	286	0	4.2	3040	1	29	1450	1966-67	2270	0.3	86.7	62800	1	23	5680
1933-34	5580	0	23.4	16950	1	1	22000	1967-68C	222	3.2	36.2	26240	11	19	330
1934-35	746	0	16.8	12190	10	17	5400	1968-69	10210	15	379	274300	1	26	11740
1935-36	355	0	6.3	4590	2	12	3400	1969-70	1880	13	139	79110	3	4	5530
1935-37	2440	0	47.3	34240*	2	14	6970	1970-71	2170	2.6	75.4	54590	12	21	4610
1937-38	11400	0	131	94810	3	2	22700E	1971-72	1900	0	45.1	32740	12	24	6970
1938-39	672	0	34.1	24620	9	25	2110	1972-73	2540	0	72.6	67020	2	11	5620
1939-40	544	0	27.8	20180	2	1	2110	1973-74	3640	4.0	83.6	60500	1	4	6170
1940-41	2700	0	139	100900	3	4	5830	1974-75	2050	1.0	52.7	38190	12	4	7520
1941-42	149	0	39.5	29630	12	10	412	1975-76	1500	0	44.4	32000	0		N.O.
1942-43	10500	0	289	209600	1	23	14810	1976-77	739	0	23.0	16670	1	3	4080
1943-44	5350	0	144	104200	2	22	14100								
1944-45	744	0	58.7	42520	11	12	4210								
1945-46	1660	0	47.5	34370	12	23	4660								
1946-47	2810	0	62.7	45420	12	30	3240								
1947-48	48	0	11.8	8590	2	6	84								
1948-49	77	0	8.9	6470	1	20	144								
1949-50	272	0	5.7	4130	2	6	845								
1950-51	16	0	0.8	558	1	30	27								
1951-52B	2860	0	70.2	50900	1	16	14000								
1952-53	327	0	19.2	13880	12	2	1450								
1953-54	901	0	15.2	10990	2	13	5450								
1954-55	323	0	12.8	9250	1	19	1590								
1955-56	4030	0	33.1	24050	1	26	12400								
1956-57	558	0	24.9	18000	3	1	3600								
1957-58	2210	0	114	82190	4	7	6890								
1958-59	777	0	16.9	33960	1	6	3870								
1959-60	449	0	49.7	36100	1	12	2390								
1960-61	421	0	65.9	47700	1	26	1330								
1961-62	2840	0	142	103100	2	11	8910								

B = RECORD BEGAN AT B LOCATION 03-06-52  
C = RECORD BEGAN AT C LOCATION 08-09-68  
\* = RECORD INCOMPLETE  
N.O. = NOT DETERMINED  
E = ESTIMATE

**STATION NO. F267B-R  
SIERRA MADRE WASH  
at Highland Oaks Avenue**



RECORDER - 15 minute punched tape  
 METHOD OF MEASUREMENTS - low flows measured by wading. High flows measured from upstream end of conduit 50 feet below station  
 DRAINAGE AREA - 3.8 square miles  
 LOCATION - on the south bank of the channel 50 feet above Highland Oaks Avenue, one and one-half miles southeast of Sierra Madre  
 REGULATION - partially regulated by Sierra Madre Dam. Usual regulation affects high flows only  
 DIVERSIONS - underground and surface flows developed and diverted by Sierra Madre Water Department. Flow also diverted about one mile above station for spreading in Sierra Madre Spreading Grounds.  
 CHANNEL - rectangular concrete 13 feet wide and 11.5 feet deep  
 LENGTH OF RECORD - see station summary



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F267B-R

DAILY DISCHARGE in second-feet of SIERRA MADRE WASH AT HIGHLAND OAKS AVE. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	0	+	0	58.1	0.8	0.4	0	0	0	0
2	0	0	0	+	0	24	0.8	0.2	0	0	0	0
3	0	0	0	+	0	3.2	1.9	0.4	0	0	0	0.2
4	0	0	0	+	0.5	0.4	0.4	0.4	0	0	0	0
5	0	0	0	0	1.6	0.2	0	0.8	0	0	0	+
6	+	0	0	0	3.3	0.4	0.2	0.4	0	0	0	+
7	0	0	0	+	0.6	0.2	0.2	0.2	0	+	0	0
8	0	0	0	+	4.8	0.2	0.2	0.1	0	+	0	0
9	0	0	0	+	20.7	0.6	0.1	0.1	0	+	0	0
10	0	0	0	+	4.6	0.8	0.1	1.3	+	0	0	20.2
11	+	0	0	0	2.2	0.8	0.2	0	0	0	0	32.2
12	0	0	0.6	0	2.2	1.0	2.1	0	0	0	0	3.2
13	0	0	0	0	2.2	0.6	2.4	0	0	0	0	1.7
14	0	0	0	0	2.2	0.8	0.6	0	0	0	0	1.7
15	0	0	0	0.1	2.2	1.0	1.2	0	0	0	+	2.2
16	0	0	0	0.1	2.2	0.4	0.4	0	0	0	0	1.7
17	0	0	0	+	2.2	0.4	0.4	0	0	0	0	1.7
18	0	0	0	0	2.7	0.2	0.4	0	0	0	0	1.3
19	0	0	0	0	3.2	0.6	0.4	0	0	0	0	1.3
20	0	0	0	0	2.7	0.4	0.4	0	0	0	0	1.3
21	0	0	0	0	2.7	0.2	0.4	0	0	0	0	1.3
22	0	0	0	0	2.7	0.1	0.4	0	0	0	0	1.3
23	0	0	0	0	2.7	0.1	0.4	0	0	0	0	1.3
24	0	0	0	0	2.7	0.4	0.4	0	0	0	0	0
25	0	0	0	0	2.7	0.2	0.6	0	0	0	0	0
26	0	0	0	0	3.2	0.8	0.4	0	+	0	0	0
27	0	+	0	0	3.2	1.0	0.2	0	+	0	0	0
28	0	0	0	0	3.2	0.4	0.2	0	0	0	0	0
29	0	0	0	0	2.7	0.4	0.2	0	0	0	0	0.1
30	0	0	0	0		0.6	0.2	0	0	0	0	0.6
31	0		0	0		0.8		0		0	0	

MEAN	+	+	+	+	3.0	3.2	0.6	0.1	+	+	+	2.4
ACRE- FEET	+	+	1.2	0.4	170	197	32.9	8.5	+	+	+	145

YEAR OR PERIOD \_\_\_\_\_ MEAN ACRE-FEET \_\_\_\_\_ 0.8  
555

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F2678-R

DAILY DISCHARGE in second-feet of SIERRA MADRE WASH AT HIGHLAND OAKS AVE. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.8	+	0	0	+	0.1	+	+	0.1	0	0.4	0.1
2	1.7	0	0	3.0	+	0.1	+	+	+	0	0.4	+
3	1.7	0	0	19.2	0	0.1	+	+	+	0	0.1	0
4	1.7	+	0	0.8	+	0.1	+	0	+	0	0	+
5	1.7	0	0	6.7	+	+	0.1	0	+	0	0	0
6	1.7	0	0	13.3	+	+	+	0	+	0	0	0
7	1.7	0	0	16.8	+	0.1	+	0	+	0	0	0
8	1.7	0	0	0.6	0.1	+	+	15.2	+	0	0	0
9	2.2	0	0	0.1	0.1	+	+	11.4	+	0	0	0
10	2.2	0	0	+	0.2	+	+	0.1	+	0	0	0
11	2.2	0.5	0	+	0.4	+	0	0	+	0	0	0
12	1.2	1.4	0	+	0.2	+	0	0.1	+	0	0	0
13	+	0	0	+	+	+	4.9	+	0	+	0	0
14	0	+	0	+	0.2	0.1	+	+	0	+	0	0
15	0	0	+	+	1.9	0.1	+	+	0	+	0	0
16	0	0	0	+	+	3.7	+	0.1	0	+	0	+
17	0	0	0	0.4	0.1	1.3	+	+	0	+	0	0
18	0	0	+	0.3	0.1	0.2	+	0.1	0	+	0	+
19	0	0	0	0.3	0.1	0.1	+	+	0	0.1	0	+
20	0	0	0	2.1	+	0.2	+	+	0	0.2	0	0
21	0	0	0	1.0	0.1	0.4	+	+	0	0.3	0	+
22	0.2	+	0	0.1	0.1	0.6	+	+	0	0.2	+	+
23	5.8	0	0	0.1	0.4	0.6	+	0.2	0	0	0.1	+
24	0	0	0	0.1	0.4	0.6	+	0.2	0	0	0	0
25	0	0	0	0.1	0.1	2.2	+	0.1	0	0	0	0
26	0	0	0	0.2	0.4	+	+	0.1	0	0	0	0.1
27	0.9	0	+	0.2	0.6	+	+	0.1	0	+	0	0.1
28	+	+	+	0.2	0.4	0.1	+	0.1	0	1.1	0	0
29	+	+	0	0.2	0.2	0.1	+	0.1	0	0.1	0	0
30	+	0	0.6	0.2	0.1	0.1	0.1	0.1	0	0.2	0	0
31	+	+	+	0.6	0.1	+	0.1	0.1	0.2	0.2	+	0

MEAN	0.9	0.1	+	2.1	0.2	0.4	0.2	0.9	+	0.1	+	+
ACRE- FEET	54.3	3.8	1.2	132	11.5	21.8	10.1	55.7	0.2	4.8	2.0	0.6

YEAR OR PERIOD MEAN ACRE-FEET 0.4  
298

STATION DATA SUMMARY

STA. NO. F2678-R  
SIERRA MADRE WASH AT HIGHLAND OAKS DRIVE

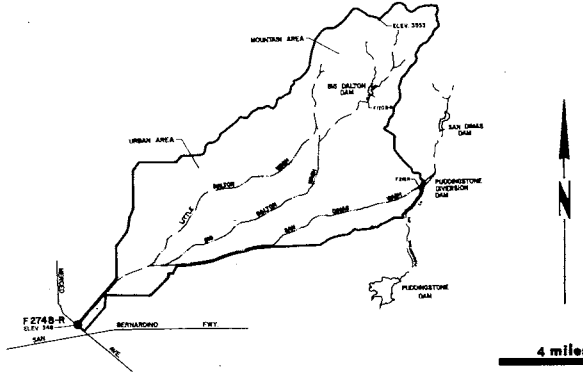
SEASON	MAX	MIN	MEAN	TOTAL	PEAK FLOW		
	DAILY	DAILY	DAILY	RUNOFF	MON	DAY	CFS
	CFS	CFS	CFS	A.F.			
1940-41 A	N.D.	0	N.D.	N.D.			N.D.
1941-42	6.5	0	0.2	117	12	28	60
1942-43	216	0	3.4	2480	1	23	542
1943-44	67	+	0.6	390	2	22	202
1944-45	24	0	0.2	144	11	11	175
1945-46	35	0	0.3	212	12	23	188
1946-47	26	0	0.3	227	12	27	112
1947-48	6.2	0	0.1	52	3	13	76
1948-49	1.1	0	+	18	3	4	43
1949-50	8.2	0	0.1	74	11	10	110
1950-51	8.4	0	0.1	44	1	11	110
1951-52	71	0	0.9	670	1	16	323
1952-53	11.8	0	0.1	101	12	1	208
1953-54	57	0	0.6	404	1	19	333
1954-55	11.7	0	0.2	164	1	18	175
1955-56	104	0	0.5	344	1	26	481
1956-57	28	0	0.4	264	2	23	445
1957-58	54	+	1.9	1350	2	19	700 E
1958-59	36	0	0.4	304	1	6	706
1959-60 B	5.8	0	+	72	1	15	56
1960-61	4.5	0	0.1	40	11	5	127
1961-62	128	0	1.4	1030	2	11	429
1962-63	32	0	0.3	231	2	9	193 E
1963-64	20	0	0.3	179	4	1	280
1964-65	13.9	0	0.3	192	11	9	315
1965-66	177	0	2.1	1480	12	29	384
1966-67	78	0	1.0	695	12	3	190
1967-68	36	0	0.3	233	3	8	293
1968-69	328	0	4.9	3560	1	25	990
1969-70	30	0	0.5	331	2	10	96
1970-71	45	0	0.4	253	11	29	312
1971-72	93	0	0.7	533	12	22	58
1972-73	**	0	**	**			**
1973-74	37	0	0.2	171	1	7	122
1974-75	13	0	.1	89	12	4	196
1975-76	58	0	0.8	555	9	10	286
1976-77	19.2	0	0.4	298	10	23	231

\* = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0  
E = ESTIMATE  
N.D. = NOT DETERMINED  
\*\* = RECORD NOT COMPUTED  
A = RECORD BEGAN AT STATION F267-R ON DECEMBER 30, 1938.  
SEVERAL YEARS RECORDS WERE NOT PUBLISHED DUE TO LACK  
OF SUFFICIENT RELIABLE DATA.  
B = RECORD BEGAN AT B LOCATION DECEMBER 11, 1959

**STATION NO. F274B-R  
DALTON WASH  
at Merced Avenue**

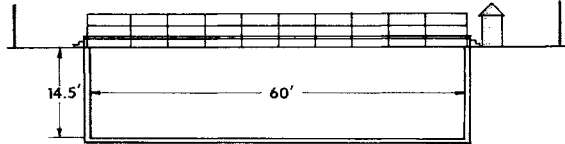


**drainage area**



RECORDER - 15 minute punched tape  
 METHOD OF MEASUREMENTS - low flows measured by wading. High flows measured from footbridge 100 feet upstream from station.  
 DRAINAGE AREA - 36.0 square miles, not including the area above Puddingstone Diversion Dam.  
 LOCATION - on the west bank and upstream of Merced Avenue about 150 feet, about one-half mile above the junction with Walnut Wash and about one mile south of Baldwin Park.  
 REGULATION - partly regulated by Big Dalton Dam, San Dimas Dam, Puddingstone Diversion Dam, Big Dalton Spreading Grounds, Little Dalton Spreading Grounds, Big Dalton Debris Basin, Little Dalton Debris Basin, and Irwindale Spreading Grounds.  
 REMARKS - flow may include imported water originating at San Dimas

**cross-section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F274B-R

DAILY DISCHARGE in second-feet of DALTON WASH AT MERCED AVE.

FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	32.2	94.8	94.8	94.8	103	153	11.6	3.7	279	D 171	5.2	9.1
2	2.7	94.8	99	94.8	103	96.8	5.2	1.3	279	D 180	7.9	7.9
3	3.2	94.8	99	94.8	103	2.7	11.2	4.4	249	D 179	6.0	35
4	2.7	94.8	103	94.8	90.6	30.8	45.5	1.6	242	D 180	6.0	6.0
5	3.2	94.8	103	94.8	62.3	78	1.9	5.2	272	D 128	6.0	5.2
6	3.2	94.8	103	94.8	161	86.4	1.3	1.3	274	99	6.0	10.4
7	2.7	94.8	103	94.8	44.3	82.2	2.7	6.0	274	95	6.0	7.9
8	1.9	94.8	107	94.8	96.1	82.2	4.4	3.2	276	95	5.2	6.9
9	2.3	94.8	107	94.8	149	82.2	2.7	3.7	276	95	6.9	4.4
10	2.3	94.8	112	94.8	3.7	78.4	3.2	4.4	277	D 95	6.9	261
11	13.7	94.8	116	94.8	27	82.2	2.3	5.2	276	D 95	6.9	47
12	6.4	94.8	112	94.8	94.8	82.2	37.5	4.4	276	D 95	6.9	18
13	3.2	94.8	6.9	94.8	94.8	82.2	23.8	4.4	277	D 98	6.9	14.7
14	3.2	94.8	6.0	94.8	94.8	86.4	2.3	4.4	277	D 98	7.9	1.0
15	2.3	94.8	59	94.8	90.6	86.4	1.9	5.2	279	D 97	7.9	2.7
16	3.2	94.8	103	94.8	86.4	90.6	1.3	3.7	279	D 61	6.9	0.8
17	40.2	94.8	103	94.8	86.4	90.6	3.7	4.4	280	6.9	6.0	5.2
18	94.8	94.8	103	94.8	90.6	59	1.6	4.4	280	5.2	6.9	5.2
19	90.6	94.8	103	94.8	90.6	49.7	4.4	4.4	280	6.0	6.9	5.2
20	86.4	94.8	99	94.8	82.2	99	1.3	4.4	282	5.2	6.9	6.0
21	90.6	94.8	99	94.8	82.2	103	3.7	5.2	283	4.4	6.0	5.2
22	86.4	94.8	99	94.8	78	112	1.6	6.0	D 229	6.0	6.9	4.4
23	82.2	94.8	99	94.8	58.6	116	5.2	3.7	D 203	6.9	6.9	4.4
24	86.4	94.8	94.8	94.8	46	116	1.3	3.7	D 196	6.0	6.9	6.0
25	90.6	94.8	94.8	94.8	82.2	120	3.7	6.9	D 149	6.0	6.9	5.2
26	90.6	94.8	94.8	94.8	82.2	120	2.3	81.6	D 130	9.1	6.9	5.2
27	94.8	94.8	90.6	94.8	82.2	128	4.4	D 279	D 132	6.9	6.9	5.2
28	99	94.8	90.6	94.8	82.2	128	1.3	D 275	D 145	6.0	6.9	5.2
29	90.6	94.8	90.6	94.8	49.9	136	6.0	D 271	D 155	6.9	6.9	5.2
30	57.4	94.8	90.6	94.8		136	1.6	D 280	D 155	6.9	6.9	D 72
31	44.8		90.6	94.8		98.5		D 280		6.0	7.9	

MEAN	42.4	94.8	92.8	94.8	82.7	93.4	6.7	50.7	242	63.1	6.7	19.2
ACRE- FEET	2,610	5,640	5,700	5,830	4,760	5,740	398	3,120	14,400	3,880	413	1,150

YEAR OR PERIOD MEAN ACRE-FEET 74.1  
53,640

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F274B-R

DAILY DISCHARGE in second-feet of DALTON WASH AT MERCED AVE. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1												
2	103	6.0	3.7	3.2	3.2	61.8	5.2	5.2	3.7	5.2	6.9	7.9
3	99	6.0	5.2	42.6	4.4	59.1	6.0	3.2	4.4	4.4	6.9	6.9
4	112	5.2	5.2	200	2.3	59.1	6.0	4.4	6.0	5.2	6.0	6.9
5	107	6.0	4.4	185	3.2	59.1	4.4	4.4	5.2	6.0	6.9	7.9
6	112	6.0	5.2	210	3.2	59.1	4.4	5.2	3.7	3.7	6.9	6.9
7	D 103	6.0	4.4	19.9	3.2	59.1	5.2	4.4	4.4	3.7	6.9	6.9
8	5.2	5.2	4.4	10.4	3.2	61.8	5.2	4.4	4.4	6.0	6.9	6.9
9	3.7	6.0	3.7	2.7	3.7	61.8	6.0	206	5.2	3.7	6.9	7.9
10	5.2	6.9	5.2	2.3	3.7	61.8	4.4	200	6.9	4.4	6.0	7.9
11	4.4	6.0	5.2	1.9	3.7	61.8	3.7	2.3	6.0	4.4	6.9	9.1
12	5.2	6.0	6.9	3.7	3.7	64.5	3.7	1.0	5.2	3.7	6.9	7.9
13	5.2	126	3.7	6.0	4.4	64.5	4.4	1.9	4.4	5.2	6.9	6.9
14	5.2	4.4	4.4	3.7	3.7	61.8	4.4	1.0	4.4	5.2	6.9	6.9
15	6.0	5.2	6.0	2.7	4.4	61.8	3.7	5.2	6.0	6.0	6.9	9.1
16	6.9	4.4	4.4	3.2	4.4	54.1	3.7	2.3	6.0	6.0	6.0	9.1
17	6.9	5.2	5.2	2.7	3.7	46.3	4.4	2.3	4.4	6.0	8.0	7.9
18	5.2	6.0	5.2	3.2	5.2	3.2	3.7	2.3	6.0	6.0	407	7.9
19	6.0	7.9	5.2	3.2	6.0	4.4	3.7	3.2	5.2	6.0	7.9	7.9
20	5.2	6.0	5.2	3.2	6.0	5.2	3.7	3.7	5.2	6.0	4.4	9.1
21	6.0	4.4	6.0	4.4	6.0	4.4	4.4	3.7	5.2	5.2	2.3	6.9
22	5.2	3.7	3.7	10.6	6.0	4.4	6.0	3.7	6.0	6.0	6.0	6.9
23	23	4.4	4.4	2.3	6.9	6.0	5.2	4.4	6.0	6.0	5.2	7.9
24	6.9	6.0	3.7	2.3	7.9	6.0	6.0	14.1	5.2	6.0	6.9	4.4
25	5.2	5.2	6.0	2.3	65.2	17.3	4.4	13.4	6.0	6.9	4.4	7.9
26	6.0	3.7	2.3	2.3	2.7	67.2	4.4	2.7	6.0	5.2	4.4	7.9
27	5.2	5.2	3.2	3.2	2.3	13.2	6.0	3.2	6.0	6.0	6.9	7.9
28	6.9	6.0	4.4	2.3	2.7	3.2	4.4	4.4	5.2	6.0	7.9	7.9
29	6.9	4.4	3.7	3.2	19.3	3.7	4.4	4.4	6.0	6.9	6.9	7.9
30	6.9	3.7	5.2	2.7		3.2	4.4	4.4	4.4	6.9	6.9	6.9
31	6.0	4.4	61.3	1.9		1.0	5.2	4.4	5.2	6.9	7.9	6.9
			33.6	2.7		1.6		4.4		6.9	6.9	

MEAN	25.7	9.4	7.4	24.2	6.9	35.5	4.7	17.1	5.2	5.6	19.3	7.7
ACRE- FEET	1,580	558	457	1,490	385	2,180	279	1,050	310	343	1,180	456

YEAR  
OR  
PERIOD      MEAN  
ACRE-FEET      14.1  
10,270

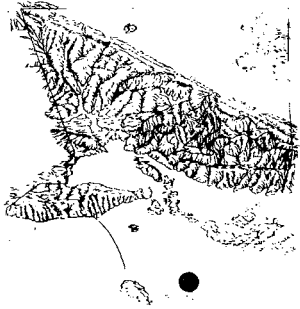
STATION DATA SUMMARY

STA. NO. F274B-R  
DALTON WASH AT MERCED AVE.

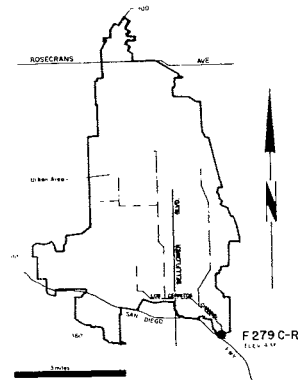
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON DAY CFS
1940-41	206	0	5.3	3844	03 13 674
1941-42	42	0	1.0	727	12 10 230
1942-43	356	0	4.8	3500	1 22 1239
1943-44	1620	0	2.2	1620	2 22 2650
1944-45	144	0	1.2	894	11 11 1740
1945-46	229	0	2.2	1610	12 23 1450
1946-47	52	0	1.4	984	11 23 328
1947-48	20	0	0.1	96	12 5 149
1948-49	19	0	0.1	97	12 17 181
1949-50	38	0	0.4	306	12 18 232
1950-51	11	0	0.1	64	1 11 175
1951-52	270	0	2.9	2090	1 16 1070
1952-53	39	0	0.4	287	11 15 549
1953-54	217	0	1.5	1060	2 13 1290
1954-55	38	0	1.0	706	1 18 668
1955-56	860	0	3.1	2260	1 26 2350
1956-57	165	0	1.4	980	3 1 1990
1957-58	303	0	6.5	4690	3 16 1310
1958-59	208	0	3.0	2130	1 6 2700
1959-60	2260	0.1	3.1	2260	1 10 1000
1960-61	150	0.2	3.1	2220	1 26 1468
1961-62	511	0.1	9.9	7200	11 20 4270
1962-63	403	0.2	5.7	4110	3 16 2020
1963-64	169	0.1	3.8	2750	1 21 1530
1964-65	290	0.1	4.4	3170	4 9 2800
1965-66	571	0.2	8.8	6310	11 22 1320
1966-67	693	0.3	14.0	10140	9 1 3970
1967-68	414	0.3	5.9	4310	3 8 3254
1968-69	3120	0.3	4.7	34300	1 25 6550
1969-70	447	1.2	0.8	49270	2 70 4775
1970-71	404	0.8	8.8	63700	12 21 2320
1971-72	599	0.8	5.4	39430	12 24 3570
1972-73	629	0.8	12.1	87820	2 2 4240
1973-74	839	0.8	11.2	81260	1 4 2140
1974-75	550	0.8	66.8	48370	12 4 5060
1975-76	282	0.8	74.1	53540	9 10 2190
1976-77	210	1.0	14.2	10280	1 3 3240

H = RECORD BEGAN AT B LOCATION OCTOBER 1, 1958

**STATION NO. F 279C-R  
LOS CERRITOS CHANNEL  
at Stearns Street**



**drainage area**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from bridge  
 DRAINAGE AREA - 25.6 square miles  
 LOCATION - upstream of Stearns Street, Long Beach  
 REGULATION - none  
 CHANNEL - concrete, trapezoidal in section  
 CONTROL - channel forms control  
 LENGTH OF RECORD -  
 at Station F279-R, November 23, 1942, to January 1, 1949  
 at Station F279B-R, January 1, 1949, to May 26, 1955  
 at Station F279C-R, October 26, 1955, to date  
 REMARKS - station not in service May 26, 1955, to October 26,  
 1955, due to channel construction

**cross-section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F279C-R

DAILY DISCHARGE in second-feet of LOS CERRITOS CHANNEL AT STEARNS ST. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	1.0	0.6	0.4	0.2	0.4	86.8	0.4	0.2	0.4	0.2	0.4	0.2
2	1.3	0.6	0.4	0.1	0.8	30.8	0.8	0.2	0.2	0.2	0.6	0.6
3	1.3	0.6	0.6	0.1	0.6	37.5	13.4	0.2	0.2	0.2	0.4	1.0
4	1.2	0.6	0.4	0.2	16.5	0.4	92.3	0.2	0.2	0.2	0.1	0.6
5	1.3	0.8	0.6	0.2	62.7	0.2	3.3	0.6	0.2	0.2	0.1	0.6
6	5.0	0.8	0.6	0.2	163	0.2	0.2	0.2	0.2	0.2	0.2	2.6
7	2.4	1.0	0.6	0.2	22.8	0.2	0.2	0.2	0.2	0.2	0.8	2.1
8	0.6	0.6	0.8	0.1	107	0.2	5.5	0.2	0.2	0.2	1.1	0.8
9	0.8	0.8	0.6	0.2	163	0.2	0.4	0.2	0.2	0.2	1.7	0.8
10	0.6	0.8	1.0	0.2	9.7	2.5	0.2	0.2	0.2	0.2	1.7	1.0
11	9.6	0.2	0.6	0.2	0.4	0.2	0.2	0.4	0.2	0.2	1.5	0.8
12	1.0	0.6	20.2	0.2	0.2	0.2	54.9	0.6	0.2	0.2	1.1	1.0
13	0.6	0.8	1.8	0.2	0.2	0.2	33.9	0.8	0.2	0.2	1.5	1.1
14	0.6	1.0	0.2	0.2	0.2	0.4	0.2	1.3	0.2	0.2	1.3	1.0
15	1.0	0.8	0.2	0.2	0.2	0.2	5.0	0.8	0.2	0.2	1.0	1.1
16	1.2	0.6	0.2	0.2	0.1	0.6	0.9	0.6	0.2	0.2	1.0	0.6
17	1.0	0.6	0.2	0.2	0.2	0.4	0.1	0.6	0.2	0.2	0.6	0.8
18	0.8	0.6	0.2	0.2	0.2	0.4	0.1	0.8	0.2	0.2	0.4	0.8
19	1.0	0.4	0.4	0.2	0.2	0.8	0.1	0.8	0.2	0.2	0.4	0.6
20	0.8	0.4	0.8	0.1	0.2	0.4	0.2	0.8	0.2	0.2	0.6	0.4
21	1.4	0.6	0.8	0.2	0.1	0.6	0.2	0.8	0.2	0.2	0.6	0.2
22	0.8	0.4	0.6	0.2	0.2	0.4	0.2	1.0	0.2	0.2	0.6	0.2
23	0.6	0.8	0.4	0.2	0.2	0.6	0.4	0.8	0.2	0.2	0.4	0.2
24	1.2	0.8	0.2	0.2	0.4	0.6	0.2	0.8	0.2	0.2	0.4	0.2
25	1.0	1.0	0.4	0.2	0.2	0.6	0.4	0.8	0.2	0.2	0.6	0.2
26	1.2	0.8	0.2	0.2	0.4	0.4	0.2	0.8	0.2	0.2	0.4	0.2
27	1.3	0.8	0.4	0.2	0.2	0.6	0.2	0.8	0.2	0.2	0.6	0.4
28	1.0	29.2	0.4	0.2	1.0	0.4	0.4	0.8	0.2	0.2	0.4	0.6
29	1.2	0.8	0.6	0.2	0.6	0.4	0.2	0.4	0.2	0.2	0.4	0.8
30	17.1	0.2	1.0	0.2		0.4	0.6	0.2	0.2	0.2	0.4	1.3
31	1.3		0.7	0.2		0.4		0.2		0.4	0.2	0.2
MEAN	2.0	1.6	1.2	0.2	19.2	5.4	7.2	0.5	0.2	0.7	0.5	12.4
ACRE- FEET	121	96.4	72.4	11.5	1,110	334	427	34.3	12.3	41.2	34.1	738
YEAR OR PERIOD												
MEAN ACRE-FEET												4.3
												3,030

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F279C-R

DAILY DISCHARGE in second-feet of LOS CERRITOS CHANNEL AT STEARNS ST. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	1.0	0.2	0.6	0.8	0.4	0.1	0.2	0.2	0.1	0.4	0.2	0.1
2	0.6	0.4	0.4	13.5	0.4	0.1	0.1	0.2	0.2	0.2	0.2	0.1
3	0.6	0.4	1.1	105	0.4	0.1	0.1	0.2	0.2	0.2	0.2	0.1
4	0.6	0.2	1.0	0.6	0.4	0.1	0.1	0.2	0.4	0.2	0.2	0.1
5	0.6	0.4	1.0	39.4	0.4	0.1	0.2	0.2	0.2	0.2	0.2	0.1
6	1.1	0.4	0.8	111	0.4	0.1	0.2	0.2	0.2	0.2	0.2	0.2
7	1.0	0.2	0.4	79.7	0.6	0.1	0.2	0.4	0.1	0.2	0.2	0.2
8	1.1	0.2	0.4	1.4	0.6	0.1	0.2	517	0.1	0.2	0.2	0.2
9	1.1	0.2	0.8	0.1	0.8	0.1	0.1	44.2	0.1	0.2	0.2	0.4
10	1.0	0.2	0.8	0.2	0.6	0.1	0.1	1.9	0.1	0.2	0.2	0.2
11	0.8	23.7	0.6	0.2	0.6	0.2	0.1	0.4	0.1	0.1	0.2	0.2
12	0.8	135	0.6	0.6	0.4	0.2	0.1	8.9	0.1	0.2	0.2	0.1
13	0.8	1.9	0.6	0.6	0.6	0.2	0.2	0.2	0.1	0.2	0.2	0.2
14	0.6	1.7	0.6	0.4	0.6	0.1	0.2	0.1	0.1	0.2	0.2	0.2
15	1.0	1.5	0.8	0.4	0.4	0.2	0.6	0.1	0.2	0.2	0.2	0.2
16	0.6	1.5	0.6	0.4	0.2	108	0.2	0.1	0.1	0.2	5.8	0.2
17	0.4	1.5	0.6	0.4	0.6	4.1	0.2	0.2	0.2	0.2	424	0.2
18	0.4	1.1	1.2	0.4	0.8	0.2	0.2	0.1	0.4	0.2	12.5	0.1
19	0.4	1.5	0.4	0.6	0.6	0.1	0.4	0.1	0.8	0.2	0.8	0.1
20	0.8	1.5	2.1	9.6	0.2	0.1	0.6	0.2	0.4	0.2	0.2	0.2
21	1.5	2.0	2.4	21.5	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.2
22	0.6	3.5	1.0	0.8	0.2	0.2	0.4	0.1	0.1	0.1	0.1	0.2
23	2.8	2.3	0.6	0.4	18.5	0.2	0.2	0.8	0.1	0.1	0.1	0.2
24	0.4	0.4	0.6	0.2	64.3	0.2	0.2	11.9	0.1	0.1	0.1	0.2
25	0.2	0.4	0.6	1.1	1.3	142	0.2	0.2	0.4	0.1	0.1	0.2
26	0.1	0.4	0.4	9.6	0.2	0.8	0.2	0.1	0.2	0.2	0.2	0.2
27	0.1	0.2	0.6	0.8	0.1	0.1	0.2	0.2	0.1	0.4	0.2	0.2
28	0.1	0.2	0.8	3.1	0.1	0.1	0.1	0.1	0.1	0.6	0.4	0.2
29	0.2	0.2	0.6	0.8		0.1	0.1	0.1	0.1	0.4	0.6	0.2
30	0.1	0.6	45.2	0.4		0.2	0.2	0.2	0.3	0.2	0.2	0.2
31	0.2		34.9	0.6		0.1		0.2		0.2	0.2	

MEAN	0.7	6.1	3.3	13	3.4	8.3	0.2	19	0.2	0.2	14.5	0.2
ACRE- FEET	42.8	365	206	803	188	513	12.5	1,170	12.1	13.1	891	10.7

YEAR  
OR  
PERIOD MEAN \_\_\_\_\_ 5.8  
ACRE-FEET \_\_\_\_\_ 4,230

STATION DATA SUMMARY

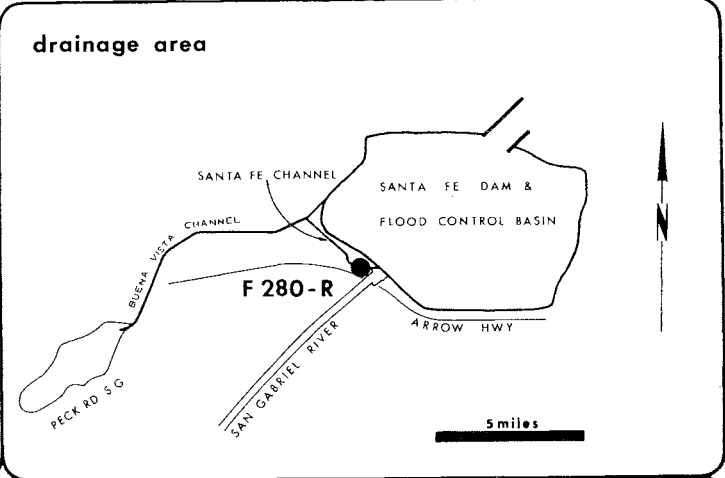
STA. NO. F279C-R  
LOS CERRITOS CHANNEL AT STEARNS STREET

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW		
					MON	DAY	CFS
1949-50B	247	0	2.6	1900	2	6	894
1950-51	161	0	3.0	2190	1	29	934
1951-52	836	0	13.4	9730	1	18	2220
1952-53	298	0	3.9	2810	11	15	1700
1953-54	795	0	8.1	5850	2	13	2790
1954-55	362	0	6.2	4500	1	18	2120
1955-56C	1460	0	9.0	6500	1	25	3040
1956-57	280	*	4.0	2920	2	23	747
1957-58	972	*	13.4	9730	2	19	3050
1958-59	393	0	3.3	2410	2	16	1120
1959-60	351	*	5.2	3780	2	1	3120
1960-61	229	0	2.5	1830	1	26	1020
1961-62	730	*	12.3	8860	2	9	2080
1962-63	720	*	6.4	4610	2	10	3610
1963-64	296	*	3.3	2410	11	19	2430
1964-65	349	0.1	6.8	4960	4	8	1590
1965-66	541	0.2	9.4	6820	1	30	2830
1966-67	546	0.2	10.2	7390	1	22	4020
1967-68	984	0.2	8.3	6020	11	21	5160
1968-69	1130	0.2	16.1	11650	1	20	5580
1969-70	237	0.2	5.9	4280	11	6	2730
1970-71	528	0.4	7.7	5580	12	18	3300
1971-72	452	0.2	5.7	4140	12	27	3300
1972-73	471	0.2	11.4	8240	2	7	3550
1973-74	633	0.2	8.5	6150	1	4	2750
1974-75	520	0.1	9.5	6910	12	4	7740
1975-76	262	0.1	4.3	3030	9	10	1620
1976-77	517	0.1	5.9	4220	5	8	2780

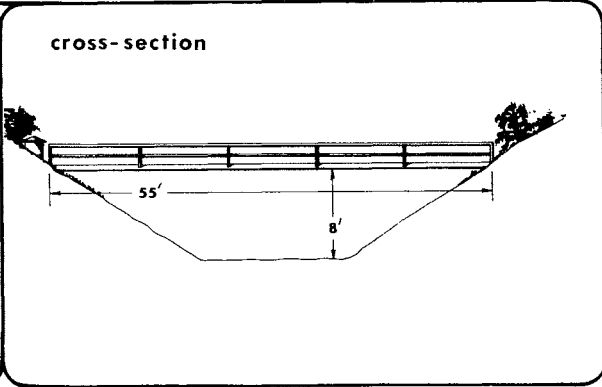
B = RECORD BEGAN AT B LOCATION 06-01-49  
C = RECORD BEGAN AT C LOCATION 10-26-55  
\* = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0.



**STATION NO. F 280-R  
SANTA FE CHANNEL  
below Santa Fe Dam**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from footbridge  
 DRAINAGE AREA - controlled  
 LOCATION - 400.0 feet downstream of Santa Fe Dam outlet and 1.5 miles north of Baldwin Park  
 REGULATION - flow regulated by five gates of stilling basin outlet of Santa Fe Dam  
 CHANNEL - sand and gravel, natural section  
 CONTROL - concrete stabilizer  
 LENGTH OF RECORD -  
 at Station F280-S, October 1, 1942, to May 12, 1944  
 at Station F280-R, May 12, 1944, to date



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F280-R

DAILY DISCHARGE in second-feet of SANTA FE CHANNEL BELOW SANTA FE DAM FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
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	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	0
31	0	0	0	0	0	0	0	0	0	0	0	0

MEAN	0	0	0	0	0	0	0	0	0	0	0	0
ACRE- FEET	0	0	0	0	0	0	0	0	0	0	0	0

YEAR OR PERIOD \_\_\_\_\_ MEAN ACRE-FEET \_\_\_\_\_  
 \_\_\_\_\_ 0  
 \_\_\_\_\_ 0

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F280-R

DAILY DISCHARGE in second-feet of SANTA FE CHANNEL BELOW SANTA FE DAM FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	0	0	0	0	0	0	0.8	0	9.7	0
2	0	0	0	0	0	0	0	0	1.5	0	10	0
3	0	0	0	0	0	0	0	0	14	0	10	0
4	0	0	0	0	0	0	0	0	15.3	0	10	0
5	0	0	0	0	0	0	0	0	15.6	0	10.3	0
6	0	0	0	0	0	0	0	0	15.1	0	10.6	0
7	0	0	0	0	0	0	0	0	15	0	10.6	0
8	0	0	0	0	0	0	0	0	15	0	10.6	0
9	0	0	0	0	0	0	0	0	15	0	10.8	0
10	0	0	0	0	0	0	0	0	14.3	0	10.8	0
11	0	0	0	0	0	0	0	0	12.5	1.8	11.1	0
12	0	0	0	0	0	0	0	0	12.2	12	11.1	0
13	0	0	0	0	0	0	0	0	11.7	12	11.4	0
14	0	0	0	0	0	0	0	0	11.4	12	11.4	0
15	0	0	0	0	0	0	0	0	11.5	12	11.7	0
16	0	0	0	0	0	0	0	0	11.4	11.7	12	0
17	0	0	0	0	0	0	0	0	10.8	11.7	23.5	0
18	0	0	0	0	0	0	0	0	8.4	11.7	16.6	0
19	0	0	0	0	0	0	0	0	10.8	11.7	15	0
20	0	0	0	0	0	0	0	0	3.2	11.7	14.7	0
21	0	0	0	0	0	0	0	0	+	11.4	13.7	0
22	0	0	0	0	0	0	0	0	0	11.1	13.1	0
23	0	0	0	0	0	0	0	0	0	10.8	8.8	0
24	0	0	0	0	0	0	0	0	0	10.6	0.1	0
25	0	0	0	0	0	0	0	0	0	10.9	0	0
26	0	0	0	0	0	0	0	0	0	10.3	0	0
27	0	0	0	0	0	0	0	0	0	10.3	0	0
28	0	0	0	0	0	0	0	0	0	10	0	0
29	0	0	0	0	0	0	0	0	0	9.5	0	0
30	0	0	0	0	0	0	0	0	0	9.5	0	0
31	0	0	0	0	0	0	0	0	0	9.5	0	0
MEAN	0	0	0	0	0	0	0	0	7.5	7.2	9.0	0
ACRE- FEET	0	0	0	0	0	0	0	0	447	441	551	0

YEAR OR PERIOD MEAN ACRE-FEET 2.0 1,440

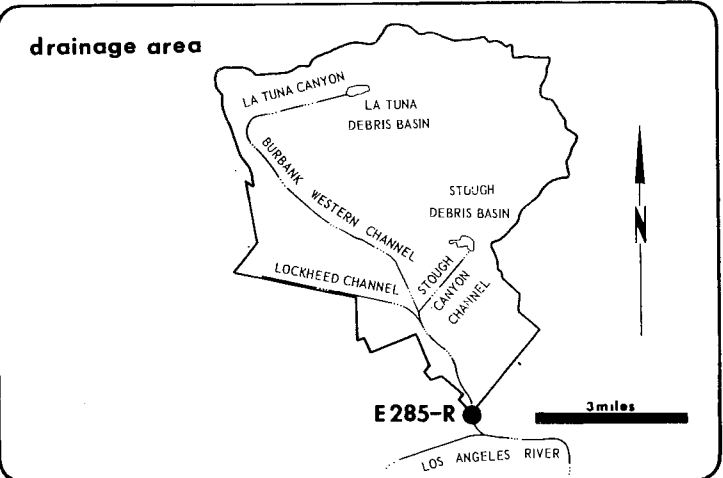
STATION DATA SUMMARY

STA. NO. F280-R  
SANTA FE CHANNEL BELOW SANTA FE DAM

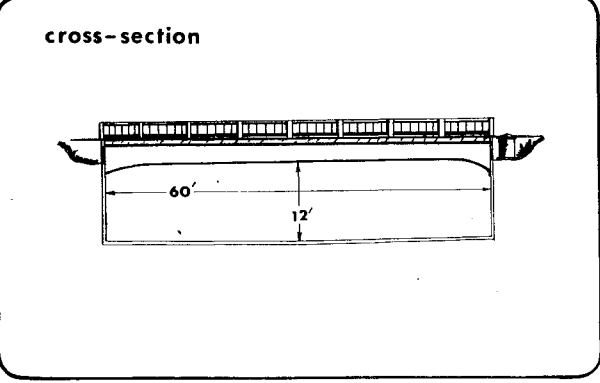
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK MON	FLOW DAY	CFS
1943-44	253	0	20.9	15180	5	19	253
1944-45	0	0	0	0			
1945-46	479	0	31.2	22610	9	13	484
1946-47	446	0	16.8	12200	11	27	484
1947-48	786	0	10.9	7880	6	4	800
1948-49	0	0	0	0			
1949-50	0	0	0	0			
1950-51	0	0	0	0			
1951-52	391	0	3.2	2280	3	16	732
1952-53	819	0	10.7	7720	11	3	839
1953-54	750	0	11.5	8350	5	7	752
1954-55	0	0	0	0			
1955-56	0	0	0	0			
1956-57	452	0	4.7	3400	4	16	455
1957-58	621	0	27.0	19530	4	4	635
1958-59	0	0	0	0			
1959-60	0	0	0	0			
1960-61	0	0	0	0			
1961-62	547	0	12.7	9190	2	12	819
1962-63	0	0	0	0			
1963-64	0	0	0	0			
1964-65	+	0	+	+	9	8	1.0
1965-66	348	0	10.4	7540	1	7	425
1966-67	227	0	21.3	15470	12	18	236
1967-68	0.8	0	+	33	11	20	0.8
1968-69	268	0	33.6	24340	4	15	290
1969-70	55	0	1.9	1360	3	3	202
1970-71	90	0	3.4	2430	12	24	92
1971-72	95	0	1.0	697	1	19	116
1972-73	222	0	13.0	9410	2	21	280
1973-74	233	0	6.4	4650	4	16	241
1974-75	24	0	0.6	466	4	22	27
1975-76	0	0	0	0			
1976-77	23.5	0	2.0	1439	8	17	52

= LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0.

**STATION NO. E 285 - R**  
**BURBANK-WESTERN ST. DR.**  
**at Riverside Drive**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading and from bridge  
 DRAINAGE AREA - 25.0 square miles  
 LOCATION - 20.0 feet upstream from Riverside Drive bridge, Glendale  
 REGULATION - Several debris basins on tributaries  
 CHANNEL - concrete, rectangular section  
 CONTROL - channel forms control  
 LENGTH OF RECORD - October 1, 1949 to date  
 REMARKS - operated in cooperation with the USCE



**LOS ANGELES COUNTY**  
**FLOOD CONTROL DISTRICT**  
 HYDRAULIC DIVISION

STATION NO. E285-R

DAILY DISCHARGE in second-feet of BURBANK WESTERN STORM DRAIN AT RIVERSIDE DRIVE FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	10.6	9.1	9.1	9.1	9.1	70.8	9.1	10.6	10.6	10.6	15.7	10.6
2	9.1	9.1	9.1	9.1	9.1	74.9	9.1	10.6	10.6	10.6	15.7	11.9
3	10.6	9.1	9.1	9.1	9.1	10.6	32.6	10.6	10.6	10.6	11.9	13.1
4	10.6	9.1	9.1	9.1	9.1	18	9.1	15.6	9.1	10.6	14.6	13.1
5	9.1	9.1	9.1	7.9	155	9.1	9.1	10.6	10.6	10.6	14.6	13.1
6	10.6	9.1	9.1	5.6	117	9.1	9.1	13.1	10.6	10.6	14.6	11.9
7	10.6	9.1	9.1	4.5	40.7	9.1	10.6	13.5	10.6	10.6	14.6	11.9
8	10.6	9.1	9.1	5.0	50.6	9.1	14.6	9.1	10.6	10.6	13.1	11.9
9	10.6	9.1	9.1	5.0	169	9.9	11.9	9.1	9.1	10.6	15.7	11.9
10	10.6	10.6	9.1	4.5	14.6	10.6	13.1	9.1	12.2	10.6	15.7	221
11	14.9	9.1	9.1	4.5	7.9	9.1	11.9	9.1	11.9	11.9	15.7	46.8
12	9.1	9.1	41.5	5.0	5.6	9.1	26.5	9.1	10.6	11.9	13.1	10.6
13	9.1	9.1	10.6	4.5	7.9	9.1	16.9	10.6	9.1	13.1	11.9	11.9
14	9.1	9.1	9.1	4.5	7.9	9.1	10.6	9.1	9.1	11.9	11.9	11.9
15	9.1	9.1	9.1	4.5	7.9	9.1	10.6	10.6	9.1	13.1	11.9	11.9
16	9.1	9.1	9.1	7.9	7.9	9.1	9.1	10.6	9.1	15.7	7.9	11.9
17	10.6	10.6	9.1	9.1	7.9	9.1	10.6	10.6	9.1	15.7	6.7	10.6
18	9.1	9.1	9.1	9.1	7.9	10.6	9.1	10.6	9.1	14.6	6.7	10.6
19	9.1	9.1	10.6	9.1	7.9	9.1	9.1	10.6	9.1	15.7	5.6	10.6
20	9.1	9.1	10.6	7.9	7.9	9.1	9.1	10.6	9.1	13.1	5.6	11.9
21	9.1	9.1	9.1	7.9	7.9	9.1	10.6	10.6	9.1	11.9	5.6	10.6
22	9.1	10.6	10.6	7.9	7.9	10.6	10.6	10.6	9.1	11.9	6.7	10.6
23	9.1	10.6	10.6	7.9	7.9	9.1	10.6	10.6	9.1	14.6	7.9	10.6
24	9.1	7.9	10.6	7.9	7.9	9.1	11.9	10.6	9.1	13.1	7.9	13.2
25	9.1	7.9	9.1	7.9	7.9	9.1	11.9	10.6	9.1	13.1	9.1	10.6
26	9.1	9.1	9.1	7.9	9.1	9.1	11.9	10.6	9.1	15.7	11.9	10.6
27	9.1	9.1	9.1	6.7	9.1	9.1	11.9	10.6	9.1	18.5	10.6	10.6
28	9.1	9.1	9.1	6.7	10.6	9.1	13.1	10.6	9.1	15.7	10.6	10.6
29	9.1	9.1	10.6	6.7	10.6	9.1	10.6	10.6	9.1	17.1	9.1	11.9
30	12.4	9.1	10.6	9.1		9.1	10.6	9.1	10.6	18.5	10.6	10.6
31	9.1		10.6	9.1		9.1		10.6		17.1	10.6	

MEAN	9.8	9.2	10.6	7.1	25.7	13.4	12.4	10.4	9.8	13.2	11.1	23.7
ACRE-FOOT	604	548	650	438	1,480	826	738	679	587	810	682	1,410

YEAR OR PERIOD MEAN ACRE-FOOT 13 9,410

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. E285-R

DAILY DISCHARGE in second-feet of BURBANK WESTERN STORM DRAIN AT RIVERSIDE DRIVE FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	9.1	10.6	11.9	10.6	11.9	11.9	10.6	11.9	10.6	10.6	14.6	7.9
2	10.6	10.6	10.6	144	11.9	10.6	10.6	10.6	10.6	10.6	13.1	7.9
3	10.6	11.9	10.6	149	11.9	10.6	10.6	10.6	10.6	10.6	13.1	7.9
4	10.6	11.9	10.6	13.1	11.9	10.6	10.6	11.9	10.6	10.6	14.6	7.9
5	10.6	11.9	10.6	85	11.9	10.6	10.6	11.9	10.6	10.6	14.6	7.9
6	10.6	13.1	10.6	113	10.6	10.6	10.6	10.6	10.6	10.6	14.6	9.1
7	10.6	14.6	10.6	111	11.9	10.6	10.6	13.1	10.6	10.6	13.1	9.1
8	10.6	11.9	10.6	13.1	10.6	10.6	10.6	338	11.9	10.6	14.6	9.1
9	10.6	11.9	10.6	13.1	10.6	13.1	10.6	199	13.1	10.6	14.6	11.9
10	10.6	11.9	10.6	13.1	10.6	13.1	10.6	11.9	11.9	10.6	14.6	11.9
11	10.6	44.6	10.6	11.9	10.6	11.9	11.9	11.9	11.9	10.6	13.1	11.9
12	9.1	52.9	10.6	13.1	10.6	11.9	11.9	11.9	11.9	10.6	13.1	13.1
13	9.1	11.9	10.6	11.9	10.6	11.9	11.9	10.6	11.9	10.6	14.6	11.9
14	13.1	11.9	10.6	11.9	10.6	11.9	11.9	9.1	11.9	10.6	14.6	11.9
15	13.1	11.9	10.6	11.9	10.6	11.9	11.9	9.1	11.9	10.6	14.6	11.9
16	10.6	11.9	10.6	11.9	10.6	93.2	11.9	10.6	11.9	10.6	17.7	11.9
17	10.6	11.9	10.6	20.2	10.6	11.9	10.6	10.6	13.1	10.6	369	11.9
18	10.6	13.1	10.6	21.2	10.6	10.6	10.6	10.6	13.1	10.6	9.1	11.9
19	10.6	13.1	10.6	21.2	10.6	11.9	10.6	9.1	13.1	10.6	10.6	11.9
20	11.9	10.6	10.6	19.9	10.6	11.9	10.6	9.1	11.9	10.6	10.6	11.9
21	11.9	10.6	10.6	12.9	10.6	11.9	10.6	7.9	11.9	11.9	9.1	11.9
22	40.7	11.9	10.6	11.9	10.6	10.6	10.6	11.9	11.9	10.6	10.6	11.9
23	179	11.9	10.6	10.6	17.3	10.6	10.6	11.9	13.1	11.9	10.6	11.9
24	10.6	11.9	10.6	11.9	13.7	14.7	10.6	20.3	10.6	11.9	10.6	11.9
25	11.9	11.9	10.6	11.9	11.9	116	10.6	11.9	10.6	13.1	11.9	9.1
26	10.6	13.1	10.6	11.9	13.1	11.9	10.6	11.9	10.6	13.1	11.9	11.9
27	11.9	11.9	10.6	11.9	11.9	10.6	11.9	11.9	10.6	14.6	11.9	11.9
28	11.9	11.9	10.6	11.9	11.9	10.6	11.9	10.6	11.9	14.6	11.9	11.9
29	11.9	11.9	10.6	11.9		10.6	11.9	9.1	10.6	14.6	11.9	11.9
30	10.6	11.9	60.8	10.6		11.9	11.9	10.6	10.6	13.1	10.6	11.9
31	10.6		12.8	11.9		11.9		10.6		14.6	7.9	

MEAN	17.3	14.4	12.3	30.6	11.5	17.5	11	27.8	11.5	11.5	24.1	10.9
ACRE- FEET	1,060	859	758	1,880	626	1,080	657	1,710	684	706	1,480	649

YEAR  
OR  
PERIOD      MEAN  
ACRE-FEET      16.7  
12,160

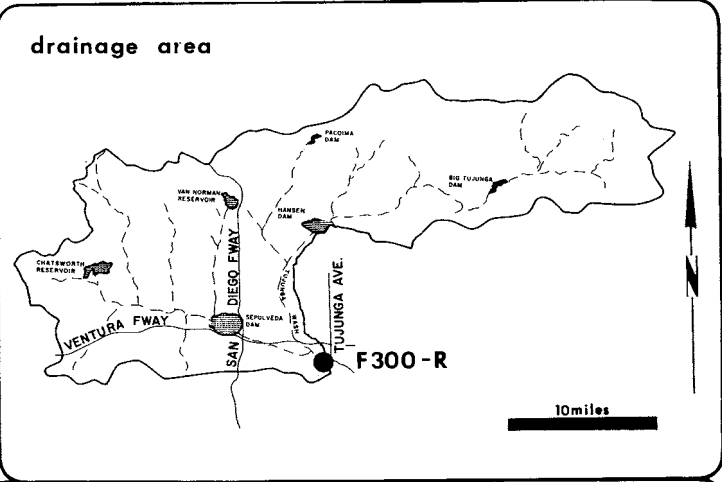
STATION DATA SUMMARY

STA. NO. E285-R  
BURBANK WESTERN STORM DRAIN AT RIVERSIDE DRIVE

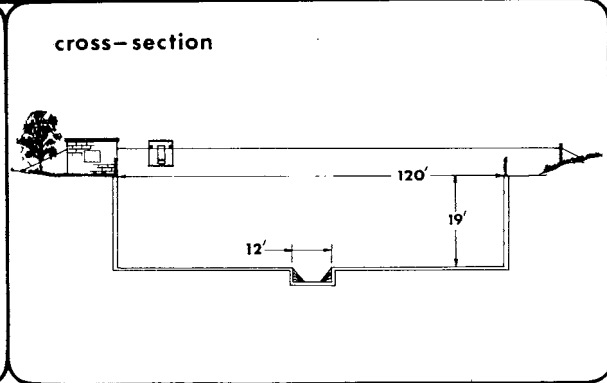
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON OAY CFS
1950-51	50	1.2	4.0	2870	1 11 920
1951-52	310	1.2	8.9	6490	1 16 1400
1952-53	89	0	4.7	3400	12 20 1380
1953-54	144	2.1	5.7	4140	3 16 1070
1954-55	123	1.2	5.6	4020	1 18 849
1955-56	400	2.0	5.6	4070	1 26 N.O.
1956-57	192	1.0	4.9	3530	2 23 1770
1957-58	232	1.9	8.2	5950	2 19 1270
1958-59	222	1.6	4.9	3540	2 11 1650
1959-60	112	1.7	4.5	3280	1 10 854
1960-61	170	1.7	4.9	3570	11 5 1400
1961-62	583	1.7	10.2	7380	2 12 2310
1962-63	444	0.6	6.4	4640	2 9 1800
1963-64	141	1.7	5.4	3940	3 22 1220
1964-65	220	1.7	6.9	5010	4 1 2570
1965-66	897	1.1	11.4	8290	12 29 2980
1966-67	730	3.4	15.4	11170	11 7 3500
1967-68	499	4.5	12.7	9250	3 8 2640
1968-69	982	5.0	24.4	17640	1 25 2830
1969-70	198	3.4	9.8	7080	3 4 1500
1970-71	771	2.2	12.7	9200	11 29 4600
1971-72	291	3.9	10.3	7490	10 24 1650
1972-73	478	4.5	16.1	11670	1 18 3130
1973-74	800	4.5	14.8	10740	1 7 1860
1974-75	318	5.0	12.6	9120	12 4 2370
1975-76	221	4.5	13.0	9410	9 5 3030
1976-77	369	7.9	16.8	12164	10 23 2880

N.O. = NOT DETERMINED

**STATION NO. F 300 - R  
LOS ANGELES RIVER  
at Tujunga Avenue**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from cable car  
 DRAINAGE AREA - 401.0 square miles  
 LOCATION - 200.0 feet above Tujunga Avenue bridge  
 Studio City  
 REGULATION - flow regulated by Sepulveda, Big Tujunga,  
 Hansen, and Pacoima Dams, Lopez Debris Dam, and  
 Project No. 85 Diversion  
 CHANNEL - concrete, rectangular section, 120 feet wide  
 by 19 feet deep  
 CONTROL - channel forms control  
 LENGTH OF RECORD - May 8, 1950, to date  
 REMARKS - subject to diversions at mouth of Big Tujunga  
 and Pacoima Canyons for irrigation, at Big Tujunga,  
 Branford, Hansen, and Pacoima Spreading Grounds



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F300-R

DAILY DISCHARGE in second-feet of LOS ANGELES RIVER AT TUJUNGA AVE.

FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	7.6	6.2	5.5	4.0	7.8	390	7.2	9.9	8.4	9.5	7.2	9.3
2	8.5	6.9	6.3	3.7	7.6	413	7.2	11.2	8.7	11.1	7.8	8.2
3	8.2	6.8	8.0	5.7	7.2	85.8	64.9	9.1	8.4	9.9	7.2	12.5
4	7.8	7.3	11.5	6.1	66.1	12.4	168	7.4	8.2	10.2	7.4	11.2
5	8.5	6.6	9.2	6.3	113	8.8	12.4	8.4	8.5	9.7	7.0	459
6	8.0	6.5	7.2	6.7	305	6.6	5.9	7.5	9.9	10.6	7.2	175
7	9.7	5.9	6.8	6.1	605	7.4	6.3	41.1	8.7	11.2	7.4	10.1
8	9.1	6.1	6.8	7.3	768	9.2	58.4	7.6	8.2	9.4	7.2	8.7
9	6.3	5.2	7.1	7.4	2,440	7.9	9.0	7.8	8.2	11.9	7.2	10.4
10	5.9	6.3	7.8	9.3	297	25.7	6.6	7.2	131	10.1	7.0	1,730
11	90.8	5.7	8.5	9.3	17.9	7.4	6.4	7.4	13	9.7	7.4	424
12	7.4	4.8	124	8.9	12.5	6.1	34.5	8.2	7.8	9.1	8.0	24.2
13	6.1	4.8	21.5	9.5	10.2	6.4	124	9.1	7.8	9.8	7.6	10.9
14	5.6	6.0	5.7	11.4	8.0	8.3	15.8	9.7	8.4	10	8.5	8.7
15	7.6	6.5	5.2	8.2	6.8	8.3	11.5	9.3	10.6	9.3	10.2	10.5
16	8.2	7.0	6.3	7.4	6.6	8.7	6.1	8.3	13.2	8.4	11	7.3
17	7.6	6.1	12.3	8.0	7.2	7.6	5.0	8.0	10.9	8.1	6.6	4.8
18	7.8	5.3	6.6	9.2	7.6	7.8	6.3	9.9	12	8.0	6.8	5.5
19	7.6	5.7	6.5	8.0	7.6	6.6	6.1	9.9	11.3	8.2	7.7	6.7
20	7.2	6.1	6.6	6.1	5.7	7.0	7.6	7.8	10.1	10	7.0	5.5
21	7.2	6.1	6.1	8.2	5.5	7.0	8.2	7.6	9.5	10.4	7.4	6.3
22	6.6	5.0	7.4	8.2	6.6	18	8.3	7.6	10.6	10.6	7.2	5.7
23	5.2	6.1	6.1	9.7	6.8	8.3	7.4	8.2	10.9	8.9	7.0	5.5
24	4.7	7.0	5.2	9.1	7.2	7.6	11.2	8.2	11.1	8.0	8.2	7.8
25	5.0	9.1	5.9	10.1	6.9	7.0	8.7	7.0	13.5	8.0	7.8	7.8
26	6.8	8.0	5.3	8.4	7.7	7.9	7.1	7.8	12.7	8.4	8.1	5.0
27	8.0	8.6	5.3	7.4	7.2	6.8	9.1	8.7	13.5	8.4	7.8	6.7
28	7.4	5.9	4.7	7.6	7.6	6.4	8.0	7.8	13.2	7.8	7.6	5.9
29	7.2	7.1	5.5	7.8	8.2	7.2	8.2	7.5	12.3	8.2	8.4	60.5
30	64.7	6.0	6.5	8.9		7.4	9.8	7.5	10.6	7.8	8.7	5.7
31	9.7		5.3	7.8		7.6		7.0		7.6	9.3	

MEAN	11.9	6.4	11.1	7.8	185	36.5	21.8	9.3	14.4	9.3	10.7	102
ACRE- FEET	732	378	680	479	10,650	2,250	1,300	574	855	572	660	6,070

YEAR OR PERIOD MEAN ACRE-FEET 35.5  
25,200

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F300-R

DAILY DISCHARGE in second-feet of LOS ANGELES RIVER AT TUJUNGA AVE. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	4.3	7.5	4.8	6.9	5.9	3.3	3.8	6.5	3.8	4.4	2.6	2.2
2	4.0	7.0	4.8	572	5.5	3.2	4.3	3.6	3.5	7.3	2.4	2.0
3	4.6	7.4	5.9	1,830	5.3	2.9	4.0	4.3	3.2	3.2	2.7	2.0
4	5.3	7.4	6.1	26.3	5.3	2.7	4.5	4.1	3.2	2.7	2.6	2.0
5	5.3	7.0	6.1	402	5.2	2.6	4.8	4.5	3.7	2.3	2.4	2.0
6	5.9	7.4	6.9	1,530	6.3	3.5	4.8	3.8	5.0	2.2	2.6	2.3
7	6.4	6.8	5.9	1,200	6.1	3.6	4.3	87.7	4.6	1.9	2.4	2.3
8	6.1	6.7	7.6	50.9	5.9	3.3	4.5	2,920	3.8	2.3	2.4	2.0
9	8.8	7.8	6.8	22	5.7	3.5	4.3	1,490	3.6	2.0	2.4	2.0
10	9.8	6.3	5.7	13.7	5.5	3.0	4.0	35.4	3.5	1.8	2.3	2.0
11	8.7	121	5.7	10.2	5.5	3.5	3.6	10.7	3.0	1.8	2.4	2.0
12	7.1	663	5.9	8.2	5.7	3.3	3.5	17.3	3.2	1.9	2.6	1.9
13	7.4	12.7	7.2	9.1	6.4	4.8	4.5	5.6	2.9	2.2	2.6	1.9
14	7.4	10.8	5.9	7.6	6.4	5.0	4.5	4.3	3.2	3.0	2.6	1.8
15	6.7	5.5	4.8	6.8	5.9	5.0	4.3	3.8	3.5	4.0	2.6	1.8
16	7.2	4.5	4.5	7.6	6.3	721	4.5	3.0	3.2	2.9	2.6	1.6
17	7.8	4.5	4.5	6.4	6.4	33.1	4.6	2.7	3.5	2.7	2,700	1.6
18	7.2	5.9	5.7	5.9	6.1	5.2	4.6	2.9	3.8	2.7	127	1.8
19	7.2	5.9	5.5	8.7	6.6	4.0	3.6	2.9	3.3	2.9	8.9	1.8
20	7.0	5.5	5.5	14.8	6.8	3.8	3.5	2.9	3.5	3.0	4.5	1.8
21	70.1	6.9	5.2	28.1	6.1	4.1	3.8	3.3	3.8	3.2	4.0	1.8
22	232	6.3	4.8	5.7	5.9	4.1	3.5	3.0	4.0	3.6	3.5	1.8
23	83.5	5.5	5.2	6.1	100	4.3	3.9	3.0	4.0	2.9	3.0	1.8
24	10	5.0	5.3	6.4	18	17	4.3	60.6	4.5	2.9	2.6	1.6
25	7.5	5.5	5.2	5.7	5.0	1,240	3.6	4.7	4.0	2.7	2.2	1.6
26	5.7	5.0	4.5	5.5	3.5	15.8	3.8	5.2	3.5	2.7	2.0	1.6
27	6.6	4.1	5.2	5.9	3.5	5.8	4.0	5.2	3.2	2.6	2.2	1.6
28	10.2	3.6	5.9	18.4	3.5	4.7	3.6	4.1	3.2	3.0	2.0	1.5
29	9.3	2.6	5.5	9.0		3.6	3.5	3.6	3.2	2.7	2.0	1.5
30	5.9	4.3	603	5.7		3.8	4.3	3.2	3.5	3.2	2.0	1.5
31	6.6		36	6.1		4.3		4.0		2.6	2.2	
MEAN	18.8	32	25.9	188	9.4	68.7	4.1	152	3.7	2.9	93.8	1.9
ACRE- FEET	1,150	1,900	1,590	11,580	524	4,230	244	9,350	218	177	5,770	111

YEAR  
OR  
PERIOD      MEAN  
ACRE-FEET      50.1  
36,840

STATION DATA SUMMARY

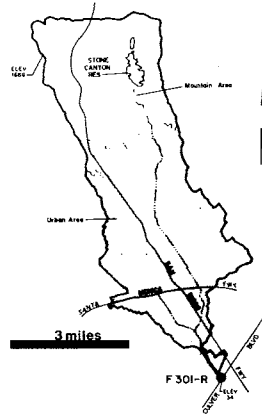
STA. NO. F300-R  
LOS ANGELES RIVER AT TUJUNGA AVENUE

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON DAY CFS
1950-51	181	2.6	12.3	8910	1 29 598
1951-52	5360	3.1	101	73040	1 15 13200
1952-53	851	6.5	27.1	19610	12 1 2900
1953-54	1360	4.6	27.2	19690	2 13 5190
1954-55	842	5.7	30.4	22000	1 10 4560
1955-56	3890	5.7	35.1	25490	1 16 6800
1956-57	1300	4.5	27.2	19700	1 13 6060
1957-58	3530	3.3	100	72710	4 3 10800
1958-59	2080	4.8	29.2	21180	1 6 12800
1959-60	1040	4.0	28	20650	1 12 6900
1960-61	1010	3.2	18.3	13260	11 5 6600
1961-62	6170	2.6	97.7	70690	2 12 21000
1962-63	2200	4.0	34.1	24690	2 9 8700
1963-64	1440	3.6	35.4	25730	1 22 7910
1964-65	2020	5.0	50.4	36490	4 9 7840
1965-66	8990	8.2	126	91340	12 29 20500
1966-67	5860	5.2	83.3	60320	11 7 21000
1967-68	5720	5.5	66.8	48500	3 8 18300
1968-69	19100	4.8	355	256800	1 25 30800
1969-70	2450	6.4	55.4	40980	3 4 11600
1970-71	9170	7.0	95.4	69090	11 29 25900
1971-72	2800	7.8	38.0	27520	12 27 11000
1972-73	6470	5.5	101	73100	1 18 17900
1973-74	7650	5.0	73.0	52830	1 7 16100
1974-75	3570	5.0	57.1	41310	12 4 16740
1975-76	2440	3.7	35.5	25200	2 9 9680
1976-77	2920	1.5	50.9	36850	1 3 15300

**STATION NO. F301-R  
SAWTELLE - WESTWOOD  
CHANNEL  
above Culver Boulevard**

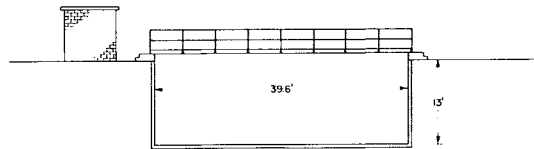


**drainage area**



RECORDER - 15 minute punched tape  
 METHOD OF MEASUREMENTS - low flows measured by wading. High flows measured from footbridge at station.  
 DRAINAGE AREA - 22.96 square miles  
 LOCATION - on the south channel wall, 141 feet above Culver Boulevard bridge about one and one half miles southwest of Culver City.  
 REGULATION - Stone Canyon Reservoir, Southern California Water Company spills flow up to 5.0 second-feet into Sawtelle-Westwood Channel above Charnock Road for short periods nearly every day  
 CHANNEL - rectangular concrete channel 40 feet wide and 13 feet deep.  
 CONTROL - channel forms control  
 LENGTH OF RECORD - see station summary

**cross-section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F301-R

DAILY DISCHARGE in second-feet of SAWTELLE - WESTWOOD CHANNEL, ABOVE CULVER BLVD. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	3.6	3.1	3.1	3.6	3.6	212	4.7	5.2	4.2	2.6	2.6	4.7
2	3.6	3.1	3.1	4.2	4.2	75.3	5.2	5.2	3.6	3.1	3.1	3.6
3	3.1	3.6	2.6	4.2	4.2	5.5	41.7	4.7	3.6	3.1	3.1	5.3
4	3.6	3.6	3.1	4.2	17.6	3.1	29	5.2	3.6	3.1	3.6	4.2
5	4.2	3.1	3.1	4.2	13.6	3.1	3.6	4.7	3.6	3.1	3.1	24.9
6	4.2	3.1	3.1	4.2	125	3.1	4.7	4.2	3.1	3.6	4.2	4.7
7	4.2	3.6	3.1	4.2	39.4	2.6	6.4	4.7	3.6	4.2	4.2	4.7
8	4.2	3.6	3.1	3.6	69.9	3.1	15.8	5.2	3.6	4.2	4.2	4.2
9	4.2	3.6	3.1	3.6	216	12.9	3.1	4.7	3.1	4.2	4.7	3.6
10	4.2	4.2	3.1	3.1	17.6	10.1	3.1	4.7	9.7	3.6	4.2	285
11	43.6	4.2	3.1	2.6	4.7	2.6	3.5	4.2	1.6	3.6	3.1	13.6
12	4.2	4.2	7.2	2.6	4.2	2.6	22.8	4.2	1.0	4.7	3.1	4.7
13	3.6	3.6	2.6	2.6	4.2	3.1	4.7	3.6	1.0	4.2	3.6	4.7
14	3.6	3.6	2.6	3.6	4.2	3.6	1.0	3.6	1.6	3.6	3.1	4.2
15	3.6	4.2	2.6	2.6	4.2	4.8	2.1	3.6	1.6	3.6	2.6	5.2
16	3.6	3.6	3.1	3.6	4.2	4.7	1.6	3.1	2.1	4.2	3.6	4.2
17	4.2	4.2	3.1	3.1	4.2	3.6	2.6	3.6	3.1	3.6	3.1	3.6
18	4.2	4.2	2.6	3.6	4.2	3.6	2.6	3.1	3.6	2.6	3.1	3.1
19	4.2	3.6	2.6	3.6	4.2	4.2	3.1	3.1	4.2	3.1	3.6	2.6
20	4.2	3.6	2.6	4.2	3.6	4.2	3.6	3.1	4.7	3.1	4.2	2.6
21	4.2	3.6	3.1	4.2	3.1	4.2	3.6	3.1	5.2	3.1	4.2	3.1
22	4.2	3.1	3.1	4.2	3.1	4.2	4.2	3.1	6.4	3.1	3.6	2.6
23	4.2	3.1	3.6	5.2	3.1	4.2	4.2	2.6	9.2	3.1	3.6	3.1
24	4.2	4.7	3.6	3.1	3.1	4.2	4.2	3.6	6.4	3.1	4.2	5.2
25	3.6	4.2	3.6	3.1	3.6	4.2	4.2	3.1	7.5	2.6	4.2	3.6
26	3.6	3.6	3.6	3.1	4.2	4.2	4.2	3.1	4.7	3.1	4.7	4.2
27	3.6	2.6	3.6	3.6	5.2	3.6	4.2	3.1	3.6	3.6	4.2	5.2
28	3.6	3.1	4.2	4.2	6.4	3.6	4.2	3.1	3.6	3.1	4.7	6.4
29	3.6	3.6	4.2	3.6	8.5	3.6	4.2	3.1	3.1	3.1	4.7	27.3
30	5.4	2.6	4.2	3.6		3.6	5.2	2.6	3.1	3.1	4.7	3.1
31	2.6		3.6	3.6		3.6		3.1		2.6	4.7	
MEAN	5.2	3.6	3.3	3.6	20.4	13.2	6.9	3.8	4.0	3.4	3.8	15.2
ACRE- FEET	319	214	204	223	1,180	815	411	233	236	208	233	907

YEAR OR PERIOD MEAN ACRE-FEET 7.2  
5,180

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F301-R

DAILY DISCHARGE in second-feet of SAWTELLE-WESTWOOD CHANNEL ABOVE CULVER BLVD. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	
1	3.6	3.6	3.6	3.6 A	2.1	3.1	4.2	2.1	2.6	2.1	3.1	2.6	2.1
2	3.6	3.1	4.2	A 106	3.1	3.1	4.2	2.1	2.6	2.6	2.6	2.6	3.1
3	3.6	3.1	4.2	A 141	3.6	3.6	4.7	2.1	2.6	3.1	3.1	2.1	3.1
4	3.6	3.6	3.6	2.6	4.2	3.1	3.1	2.6	2.6	2.6	2.1	2.6	2.6
5	3.6	3.6	3.6	129	4.7	4.7	2.6	2.6	2.6	2.6	2.6	2.6	3.1
6	4.2	4.2	3.6	271	4.7	4.7	2.6	3.1	2.6	2.6	3.1	3.1	3.6
7	3.6	4.2	3.1	128	5.2	5.2	3.1	2.1	69.4	2.6	2.6	3.6	4.2
8	3.1	4.7	3.1	3.6	4.7	4.7	3.6	2.1	513	2.6	2.6	3.1	4.7
9	3.1	4.7	2.6	3.1	4.2	4.2	3.6	1.6	206	2.6	2.1	3.1	4.2
10	3.6	4.7	3.1	3.1	4.7	4.7	3.1	1.6	3.1	2.6	3.1	3.1	3.6
11	4.7	68.3	3.1	3.1	4.7	4.7	3.1	1.6	2.6	2.6	3.1	3.1	3.6
12	4.2	21.8	2.6	3.1	4.7	4.7	2.6	2.1	3.6	3.1	3.1	3.1	3.6
13	3.6	4.2	3.1	3.1	4.2	4.2	2.6	2.1	2.1	3.1	3.1	2.6	3.6
14	4.7	4.7	3.1	3.1	4.7	4.7	2.6	2.1	2.1	3.1	4.2	3.1	3.1
15	5.2	4.2	3.1	2.6	4.7	4.7	2.6	3.1	2.6	3.1	3.1	3.1	2.6
16	5.2	4.2	3.1	2.6	4.7	4.7	77.3	3.1	2.6	3.6	2.6	20.8	2.6
17	4.7	4.2	3.6	2.6	4.2	4.2	2.1	3.1	2.6	3.6	2.6	464	2.6
18	5.2	4.2	3.6	2.6	3.6	3.6	1.6	3.6	3.1	3.1	2.6	5.2	3.1
19	4.7	3.6	4.2	2.6	3.1	3.1	2.1	3.6	2.6	2.6	2.1	3.6	4.2
20	4.2	3.6	4.7	7.2	3.1	3.1	2.1	3.1	2.6	3.1	2.1	3.1	3.6
21	3.6	3.6	3.6	3.1	2.6	2.6	2.6	3.1	2.6	3.6	1.6	2.6	3.1
22	17.1	4.2	3.6	2.6	2.6	2.6	3.1	3.1	2.6	3.1	2.1	2.6	3.1
23	15.6	3.6	3.6	2.1	30.9	3.1	2.6	3.1	3.1	3.1	1.6	2.6	3.1
24	5.2	3.6	3.6	2.6	21	3.1	3.0	3.1	10.9	3.1	2.1	2.6	3.1
25	5.2	3.6	3.6	2.6	4.7	4.7	152	3.1	2.6	2.6	2.1	2.6	2.6
26	5.2	4.2	3.1	2.6	5.2	5.2	3.1	3.1	2.1	3.1	1.6	2.6	3.1
27	4.7	4.2	3.6	3.1	6.4	6.4	3.1	3.1	2.6	3.1	2.6	2.6	2.6
28	4.2	3.6	3.6	31.7	6.4	6.4	3.1	3.1	2.1	2.6	2.6	2.1	2.1
29	4.2	4.2	3.6	2.1	3.1	3.1	3.1	2.6	2.1	3.1	2.6	2.6	2.6
30	3.6	4.2	150	2.1	2.1	2.1	2.1	2.1	2.6	2.1	2.1	2.1	3.1
31	4.2	4.2	42.8	2.6	2.6	2.6	2.1	2.1	2.1	2.1	2.1	2.1	2.1

MEAN	5.0	6.7	9.5	28.4	5.8	10.1	2.6	28	2.9	2.5	18.3	3.2
NO. FEET	307	400	582	1,740	325	622	157	1,720	173	156	1,120	189

YEAR OR PERIOD MEAN ACRE-FEET 10.2 7,430

STATION DATA SUMMARY

STA. NO. F301-R  
SAWTELLE - WESTWOOD CHANNEL ABOVE CULVER BOULEVARD

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW		
					MON	DAY	CFS
1951-52 A	638	0.1	14.0	10180	1	16	4240
1952-53	233	0.3	3.9	2790	11	11	3150
1953-54	787	0.3	9.6	6960	2	13	4150
1954-55	191	0.2	4.3	3130	1	10	2140
1955-56	1240	0.4	5.9	6450	1	26	3130
1956-57	437	0.5	7.2	5200	2	23	4170
1957-58	448	0.4	11.6	8410	2	25	2970
1958-59	345	0.6	4.8	3440	2	8	2380
1959-60	297	0.3	5.6	4070	4	27	3310
1960-61	204	0.6	3.9	2820	11	5	2950
1961-62	1080	0.6	20.1	14520	2	12	7250 E
1962-63	511	1.0	7.3	5300	3	28	2590
1963-64	196	1.0	5.9	4270	1	21	3500
1964-65	365	0.1	8.4	6070	4	9	4240
1965-66	848	0.1	13.2	9550	11	22	4140
1966-67	524	0.6	13.5	9770	1	22	3610
1967-68	1090	0.6	12.5	9040	11	21	6560
1968-69	1370	2.0	24.7	17870	2	6	6840
1969-70	227	1.0	7.7	5570	11	6	2300
1970-71	752	2.0	12.3	8920	11	29	6980
1971-72	520	1.6	8.2	5940	12	27	5726
1972-73	659	1.0	16.8	11890	1	6	4970
1973-74	1010	2.1	16.1	11700	1	7	3390
1974-75	678	1.0	13.6	9080	12	4	7700
1975-76	285	1.0	7.2	5180	2	6	2150
1976-77	513	1.6	10.4	7490	5	8	2820

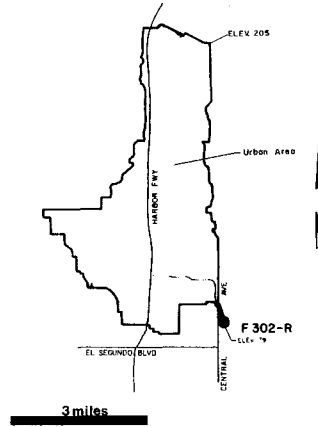
E = ESTIMATE  
A = RECORD BEGAN JANUARY 22, 1951. PRIOR RECORDS AT STATION F185-R SEPULVEDA CREEK AT CHARNOCK ROAD, FOR THE PERIODS SEPTEMBER 15, 1932 TO MARCH 3, 1937; AUGUST 11, 1937 TO MARCH 2, 1938; AND JULY 7, 1938 TO MAY 29, 1950. FROM MAY 29, 1950 TO JANUARY 22, 1951, NO RECORD WAS OBTAINED DUE TO CHANNEL CONSTRUCTION.



**STATION NO. F302-R  
COMPTON CREEK  
at 120<sup>TH</sup> Street**

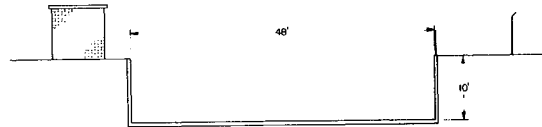


**drainage area**



RECORDER - 15 minute punched tape  
 METHOD OF MEASUREMENTS - low flows measured by wading. High flows measured from upstream side of 120th Street bridge.  
 DRAINAGE AREA - 14.5 square miles  
 LOCATION - on the west bank of Compton Creek, 192 feet upstream from centerline of 120th Street, Willowbrook.  
 REGULATION - none  
 CHANNEL - concrete, 48 feet wide and 10 feet deep.  
 CONTROL - channel forms control  
 LENGTH OF RECORD - January 29, 1951 to date

**cross section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F302-R

DAILY DISCHARGE in second-feet of COMPTON CREEK AT 120TH ST. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	B 0.4	B 0.5	B 0.5	B 0.4	B 0.4	41.6	B 0.2	B 0.4	B 0.4	B 0.1	B 0.4	B 1.8
2	B 0.4	B 0.4	B 0.5	B 0.4	B 0.4	38.8	B 0.2	B 0.4	B 0.4	B 0.2	B 0.4	B 1.8
3	B 0.4	B 0.4	B 0.6	B 0.4	B 0.6	4.0	B 0.4	B 0.4	B 0.4	B 0.1	B 0.2	B 1.6
4	B 0.4	B 0.5	B 0.6	B 0.4	B 4.9	B 0.4	B 26	B 1.4	B 0.4	B 0.1	B 0.4	B 1.8
5	B 0.4	B 0.5	B 0.6	B 0.6	169	B 0.2	B 0.6	B 0.4	B 0.2	B 0.2	B 0.6	15.4
6	1.6	B 0.5	B 0.6	B 0.6	42.6	B 0.2	B 0.2	B 0.6	B 0.2	B 0.2	B 0.7	B 3.0
7	B 0.5	B 0.5	B 0.5	B 0.6	8.7	B 0.2	B 0.2	B 0.4	B 0.2	B 0.2	B 0.4	B 0.7
8	B 0.5	B 0.5	B 0.6	B 0.4	40.6	B 0.2	B 7.6	B 0.4	B 0.4	B 0.2	B 0.2	B 1.2
9	B 0.5	B 0.5	B 0.7	B 0.6	145	B 4.1	B 0.2	B 0.4	B 0.4	B 0.4	B 0.4	B 1.2
10	B 0.5	B 0.6	B 0.6	B 0.7	4.0	10.2	B 0.2	B 0.4	B 3.5	B 0.2	B 0.4	155
11	11.1	B 0.5	B 0.5	B 0.6	B 0.4	B 0.2	B 0.2	B 0.4	B 0.2	B 0.2	B 0.4	15.3
12	B 0.5	B 0.5	B 4.9	B 0.4	B 0.4	B 0.2	B 24	B 0.4	B 0.1	B 0.2	B 0.4	B 0.6
13	B 0.5	B 0.5	B 2.0	B 0.4	B 0.4	B 0.2	B 6.0	B 0.4	B 0.2	B 0.2	B 0.6	B 1.0
14	B 0.5	B 0.6	B 0.5	B 0.6	B 0.4	B 0.2	B 0.2	B 0.4	B 0.2	B 0.4	B 0.4	B 1.0
15	B 0.5	B 0.6	B 0.4	B 0.4	B 0.4	B 0.4	B 4.9	B 0.4	B 0.2	B 0.4	B 0.6	B 1.4
16	B 0.5	B 0.5	B 0.6	B 0.7	B 0.6	B 0.2	B 0.2	B 0.2	B 0.2	B 0.2	B 0.6	B 1.0
17	B 0.5	B 0.4	B 0.4	B 0.6	B 0.6	B 0.2	B 0.2	B 0.4	B 0.2	B 0.2	B 0.6	B 0.7
18	B 0.6	B 0.5	B 0.4	B 0.6	B 0.4	B 0.2	B 0.2	B 0.6	B 0.2	B 0.2	B 0.7	B 0.7
19	B 0.5	B 0.3	B 0.5	B 0.4	B 0.2	B 0.2	B 0.2	B 0.6	B 0.4	B 0.2	B 1.0	B 0.4
20	B 0.5	B 0.3	B 0.5	B 0.4	B 0.2	B 0.2	B 0.2	B 0.6	B 0.4	B 0.4	B 0.7	B 0.4
21	B 0.5	B 0.4	B 0.5	B 0.7	B 0.2	B 0.2	B 0.4	B 0.4	B 0.1	B 0.4	B 0.7	B 0.6
22	B 0.5	B 0.4	B 0.5	B 0.6	B 0.2	B 0.2	B 0.4	B 0.4	B 0.2	B 0.6	B 0.7	B 0.6
23	B 0.4	B 0.3	B 0.5	B 0.4	B 0.2	B 0.2	B 0.4	B 0.4	B 0.2	B 0.4	B 1.0	B 0.7
24	B 0.4	B 0.5	B 0.5	B 0.4	B 0.2	B 0.2	B 0.2	B 1.0	B 0.2	B 0.4	B 0.7	B 2.0
25	B 0.4	B 0.5	B 0.5	B 0.4	B 0.4	B 0.2	B 0.2	B 1.0	B 0.4	B 0.4	B 1.2	B 1.2
26	B 0.5	B 0.7	B 0.5	B 0.4	B 0.2	B 0.2	B 0.4	B 1.0	B 0.2	B 0.2	B 0.7	B 0.7
27	B 0.5	B 1.2	B 0.5	B 0.4	B 0.2	B 0.2	B 0.4	B 0.7	B 0.2	B 0.4	B 0.7	B 0.2
28	B 0.5	B 1.6	B 0.5	B 0.6	B 0.4	B 0.2	B 0.4	B 0.6	B 0.4	B 0.4	B 0.6	B 0.2
29	B 0.5	B 0.6	B 0.5	B 0.6	B 0.4	B 0.2	B 0.4	B 0.6	B 0.4	B 0.6	B 0.6	B 0.6
30	4.9	B 1.2	B 0.6	B 0.6		B 0.2	B 0.7	B 0.4	B 0.2	B 0.4	B 0.7	B 0.4
31	B 0.6		B 0.6	B 0.4		B 0.2		B 0.2		B 0.4	B 1.8	
MEAN	1.0	0.6	0.7	0.5	14.6	3.4	3.0	0.5	0.6	0.3	0.6	7.1
ACRE- FEET	61	34	44	31	838	207	177	32	34	18	38.7	425

YEAR OR PERIOD MEAN ACRE-FEET 2.7  
1.940

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F302-R

DAILY DISCHARGE in second-feet of COMPTON CREEK AT 120TH ST.

FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER		
1	B	0.4	B	0.2	B	1.0	B	0.2	B	0.6	B	0.1	B	0
2	B	0.4	B	0.2	B	31.7	B	0.4	B	0.2	B	0.1	B	0
3	B	0.4	B	0.2	B	45.6	B	0.2	B	0.2	B	0.2	B	0
4	B	0.2	B	0.2	B	0.4	B	0.2	B	0.1	B	0.1	B	0
5	B	1.0	B	0.4	B	75.4	B	0.2	B	0.2	B	0.1	B	0
6	B	1.0	B	0.2	B	92	B	0.2	B	0.2	B	0.1	B	0
7	B	1.2	B	0.4	B	47.4	B	0.2	B	0.2	B	0.1	B	0
8	B	1.0	B	0.1	B	11.2	B	0.4	B	0.2	B	0.1	B	0
9	B	1.0	B	0.4	B	0.4	B	0.2	B	0.2	B	0.1	B	0
10	B	0.4	B	0.4	B	0.6	B	0.2	B	0.1	B	0.1	B	0
11	B	0.2	B	0.4	B	0.4	B	0.2	B	0.1	B	0.1	B	0
12	B	0.2	B	0.4	B	0.4	B	0.2	B	0.1	B	0.1	B	0
13	B	1.2	B	0.4	B	0.4	B	0.2	B	0.2	B	0.1	B	0
14	B	0.4	B	1.2	B	0.4	B	0.2	B	0.2	B	0.1	B	0
15	B	0.2	B	1.2	B	0.4	B	0.2	B	0.2	B	0.1	B	0
16	B	0.2	B	1.0	B	0.4	B	0.2	B	0.2	B	0.1	B	0
17	B	0.4	B	1.2	B	0.4	B	0.2	B	0.1	B	0.1	B	0
18	B	0.4	B	1.4	B	0.6	B	0.2	B	0.1	B	0.1	B	0
19	B	0.2	B	1.2	B	0.6	B	0.1	B	0.1	B	0.2	B	0.1
20	B	1.2	B	1.2	B	11.2	B	0.4	B	0.1	B	0.1	B	0.1
21	B	1.6	B	1.2	B	0.4	B	0.2	B	0.1	B	0.1	B	0
22	B	1.2	B	1.2	B	4.6	B	0.1	B	0.4	B	0.1	B	0.1
23	B	2.4	B	1.2	B	4.6	B	10.2	B	0.4	B	0.1	B	0.2
24	B	0.2	B	1.2	B	5.0	B	2.2	B	1.0	B	0.1	B	0.2
25	B	0.2	B	1.2	B	2.0	B	0.2	B	99.6	B	0.1	B	0.2
26	B	0.1	B	1.4	B	0.2	B	0.4	B	0.1	B	0.1	B	0.2
27	B	0.2	B	1.2	B	0.4	B	0.4	B	0.1	B	0.4	B	0.2
28	B	0.2	B	0.4	B	1.6	B	0.1	B	0.1	B	0.4	B	0.1
29	B	0.2	B	0.1	B	0.4	B	0.2	B	0.1	B	0.2	B	0.2
30	B	0.2	B	+	B	79.8	B	0.2	B	0.4	B	0.1	B	0.1
31	B	0.4	B	12.3	B	0.2	B	4.3	B	0.1	B	0.1	B	0

MIN	0.6	2.8	3.3	11	0.6	5.6	0.1	9.9	0.1	0.1	10.3	0.1
ACRE FEET	35.9	164	205	677	35.1	342	7.9	609	7.9	631	631	3.4

YEAR OR PERIOD MEAN ACRE-FEET 3.7  
2,730

STATION DATA SUMMARY

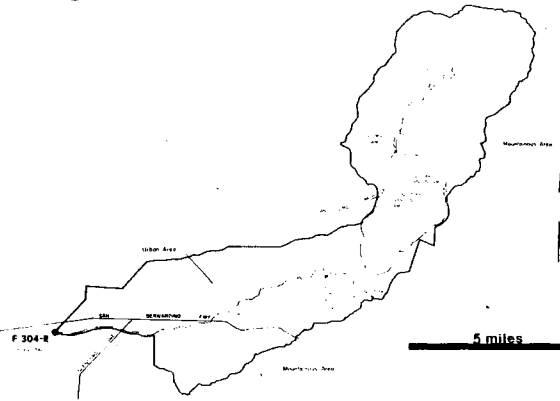
STA NO. F302-R  
COMPTON CREEK AT 120TH STREET

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW		
					MON	DAY	CFS
1951-52	453	0.1	8.3	6030	1	18	1730
1952-53	130	0	2.6	1920	11	15	1240
1954-54	496	+	4.3	3140	2	13	2050
1954-55	160	0	3.7	2690	1	19	1220
1955-56	898	0.2	5.6	4050	1	26	2040
1956-57	121	0	3.2	2360	5	11	1550
1957-58	600	0	7.5	5530	2	19	2900
1958-59	239	0	2.1	1550	1	6	1760
1959-60	279	0	3.4	2450	1	11	1950
1960-61	116	0	1.4	1040	11	5	1140
1961-62	638	0	8.8	6340	2	19	3510
1962-63	290	0	4.3	3090	3	29	1900
1963-64	104	0	2.7	1970	11	6	1506
1964-65	233	0	4.1	2970	4	9	2082
1965-66	508	0	6.1	4430	12	29	2170
1966-67	485	0	7.1	5100	11	7	3730
1967-68	672	0	5.7	4140	3	7	792
1968-69	**	**	**	**	1	20	4610
1969-70	**	**	**	**	1	16	1335
1970-71	**	**	**	**	11	29	2126
1971-72	**	**	**	**	12	27	4120
1972-73	283	0.1	6.7	2450	11	14	2676
1974-75	425	0.1	5.1	3700	12	4	5970
1975-76	169	0.1	2.7	1940	2	9	2010
1976-77	313	0	3.9	2815	5	17	1540

\* = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0  
\*\* = RECORD NOT COMPUTED

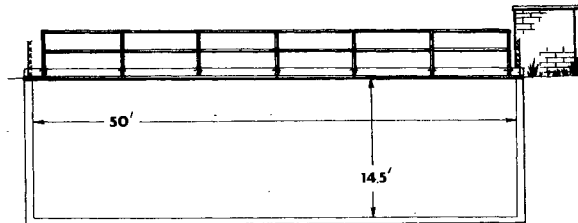
**STATION NO. F 304 - R  
WALNUT CREEK  
Above Puente Ave.**

**drainage area**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from footbridge  
 DRAINAGE AREA - 57.6 square miles  
 LOCATION - 845.0 feet upstream of Puente Avenue bridge, Baldwin Park  
 REGULATION - partially regulated by San Dimas, Puddingstone Diversion, Puddingstone, and Live Oak Dams  
 CHANNEL - concrete, rectangular in section  
 CONTROL - channel forms control  
 LENGTH OF RECORD - October 14, 1952 to April 11, 1961  
 January 3, 1962, to date  
 REMARKS - no record during April 11, 1961, to January 3, 1962, due to channel construction

**cross-section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F 304-R

DAILY DISCHARGE in second-feet of WALNUT CREEK AT PUENTE AVE. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.4	0.4	0.2	0.2	1.2	136	1.2	0.9	0.6	0.9	0.6	0.9
2	0.6	0.1	0.4	0.2	0.9	67.1	1.2	1.2	0.6	0.9	0.6	0.9
3	0.9	0.1	0.2	0.4	0.6	12.5	2.8	0.9	0.6	1.2	0.6	2.7
4	0.9	0.4	0.2	0.4	16.8	1.6	22.9	0.4	0.6	1.2	0.9	1.6
5	0.6	0.4	0.1	0.2	16.8	0.9	0.4	0.6	0.6	1.6	0.9	2.7
6	1.6	0.4	0.2	0.2	120	0.9	0.2	0.6	1.2	1.2	0.6	1.6
7	0.6	0.1	0.9	0.1	21.2	2.7	0.4	5.5	0.9	0.9	0.9	1.6
8	0.1	0.1	0.2	0.1	109	0.9	1.2	0.9	0.6	0.9	0.9	1.2
9	0.1	0.1	0.1	0.1	203	0.9	0.2	0.6	0.6	1.2	0.9	1.6
10	0.1	0.1	0.2	0.2	4.0	2.1	0.2	0.4	9.1	0.9	0.9	255
11	0.4	0.1	0.6	0.2	1.6	0.6	0.4	0.4	0.6	0.9	0.9	41.2
12	1.4	0.1	13.3	0.2	2.1	0.6	47.1	0.4	0.6	0.6	0.9	2.7
13	0.2	0.2	0.6	0.2	1.2	0.6	38.3	0.4	0.9	0.9	0.9	2.7
14	+	0.2	0.1	0.4	1.2	0.6	0.4	0.4	0.9	0.6	0.6	3.3
15	+	0.2	0.1	0.2	0.9	0.6	5.7	0.4	0.9	0.6	2.1	4.0
16	+	0.2	0.2	0.2	1.2	0.9	0.6	0.6	0.9	0.6	0.6	2.1
17	+	0.6	0.2	0.4	1.2	0.9	0.4	0.6	0.9	1.2	0.6	0.9
18	0.1	0.9	0.2	0.4	0.9	0.6	0.4	0.9	0.6	1.6	0.6	1.6
19	0.1	0.6	0.1	0.2	0.9	0.6	0.4	0.6	0.9	1.2	0.6	1.6
20	+	0.2	0.2	0.4	0.9	0.6	0.4	0.9	0.6	0.9	0.6	0.9
21	0.1	0.2	0.2	0.1	0.9	0.9	0.6	0.6	1.2	1.2	0.6	0.9
22	0.1	0.2	0.2	0.1	0.9	0.9	0.6	0.6	0.6	0.9	0.6	0.6
23	0.2	0.2	0.2	0.1	0.9	0.6	0.4	0.6	0.6	0.9	0.6	0.9
24	0.1	0.6	0.2	0.1	1.2	0.9	0.9	0.6	0.9	1.2	0.6	0.4
25	0.1	0.6	0.2	0.4	0.9	0.9	1.2	0.9	0.9	3.3	0.6	0.4
26	0.4	0.6	0.1	0.6	1.2	1.2	0.9	0.6	1.2	2.7	1.2	0.4
27	0.1	2.7	0.2	0.9	0.9	1.2	0.6	0.9	0.9	1.2	1.2	0.4
28	0.1	1.6	0.2	0.6	1.2	1.2	0.6	0.6	1.2	1.2	1.6	0.4
29	0.1	0.4	0.2	0.6	1.2	0.9	0.9	0.6	1.6	0.9	0.6	0.4
30	10.6	0.4	0.2	0.6		2.1	0.6	1.6	0.9	0.9	1.6	0.4
31	0.1		0.1	0.9		0.9		0.6		0.9	1.6	

MEAN	0.6	0.4	0.7	0.3	17.8	7.9	4.4	0.8	1.1	1.1	0.9	11.2
ACRE- FEET	39.9	25.8	40.2	19.6	1,020	484	262	51.2	65.8	70	53.5	666

YEAR  
DR PERIOD MEAN  
ACRE-FEET 3.3  
2,800

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F304-R

DAILY DISCHARGE in second-feet of WALNUT CREEK AT PUENTE AVE. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.4	+	1.2	1.6	0.9	0.6	0.6	0.9	0.4	0.2	0.1	0.2
2	0.4	+	0.9	48.2	0.9	0.4	0.4	0.4	0.2	0.2	0.2	0.9
3	0.4	0.1	0.9	155	0.6	0.4	0.4	0.6	0.4	0.2	0.2	0.6
4	0.6	0.2	1.2	0.9	0.6	0.6	0.6	0.4	0.2	0.1	0.1	0.4
5	0.6	0.6	0.9	118	0.6	0.6	0.4	0.6	0.4	0.2	0.1	1.6
6	0.6	0.4	0.9	108	0.9	0.6	0.6	0.4	0.4	0.1	0.2	0.9
7	0.6	0.2	0.9	61.7	0.6	0.4	0.4	0.4	0.4	0.1	0.4	0.6
8	0.6	0.2	0.9	2.7	0.6	0.4	0.4	221	0.6	0.1	0.1	0.2
9	0.6	0.6	1.2	1.6	0.9	0.4	0.6	295	0.6	0.1	0.1	+
10	0.6	0.6	0.9	1.6	0.9	0.4	0.6	3.3	4.0	0.1	0.1	+
11	0.9	0.6	0.9	1.2	0.9	0.4	0.4	3.3	0.2	0.1	0.1	0.1
12	0.4	101	0.9	1.2	0.9	0.4	0.6	0.1	0.2	0.2	0.1	+
13	0.9	0.6	0.9	0.9	0.9	0.4	0.6	+	0.1	0.1	0.1	+
14	1.2	1.6	0.9	0.9	0.9	0.4	0.4	+	0.2	0.1	0.1	+
15	0.6	1.6	0.9	0.9	2.1	0.4	0.6	0.1	0.1	0.1	0.1	+
16	0.6	1.6	0.9	0.9	0.9	75.3	0.6	+	0.1	0.1	4.0	0.9
17	0.6	0.6	0.6	0.9	1.2	2.7	0.4	+	0.1	0.2	237	0.6
18	0.9	0.6	0.6	0.9	1.2	0.4	0.6	+	0.2	0.2	3.3	+
19	0.4	0.6	0.9	1.2	0.9	0.6	0.6	+	0.1	0.1	0.9	+
20	0.9	0.6	1.2	3.1	1.2	0.6	0.4	+	0.2	0.1	0.6	0.1
21	1.2	0.9	0.9	10.8	2.1	0.4	0.6	+	0.2	0.1	0.6	0.1
22	1.2	0.6	1.2	0.9	0.9	0.4	0.4	+	0.2	0.2	1.2	+
23	0.6	0.9	0.9	1.2	8.6	0.4	0.4	3.4	0.2	0.4	0.6	+
24	0.1	0.9	0.9	0.9	62.4	7.4	0.9	5.0	0.2	0.2	0.9	+
25	+	0.9	0.9	0.9	2.1	98.9	0.6	+	0.2	0.2	0.9	+
26	0.1	0.9	0.9	2.1	0.6	19.8	0.6	0.2	0.2	0.2	0.9	+
27	+	0.6	0.9	0.6	0.9	7.5	0.4	0.2	0.1	0.1	1.2	+
28	+	0.6	1.2	0.6	1.6	0.9	0.4	0.4	0.1	0.1	1.2	0.1
29	0	0.9	0.9	0.6		0.6	0.4	0.4	0.2	0.1	1.6	+
30	+	0.6	89.4	0.6		0.4	0.6	0.2	0.2	0.2	0.9	+
31	0.6		38.8	0.6		0.6		0.2		0.1	0.9	

MEAN	0.5	4.0	5.0	17.1	3.5	7.2	0.5	17.5	0.4	0.1	8.3	0.2
ACRE FEET	32.9	238	308	1,050	134	444	30.3	1,080	21.6	9.1	513	14.5

YEAR OR PERIOD MEAN ACRE-FEET 5.4  
3,940

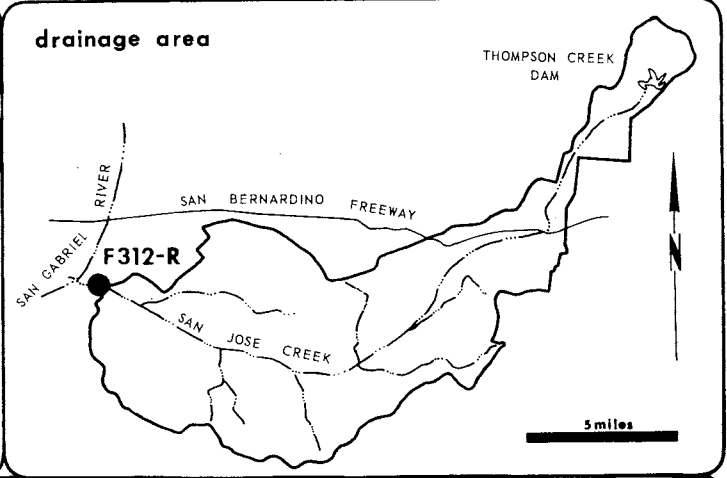
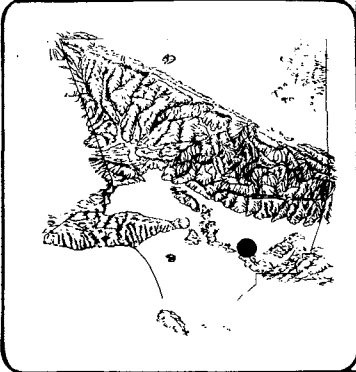
STATION DATA SUMMARY

STA. NO. F304-R  
WALNUT CREEK AT PUENTE AVENUE

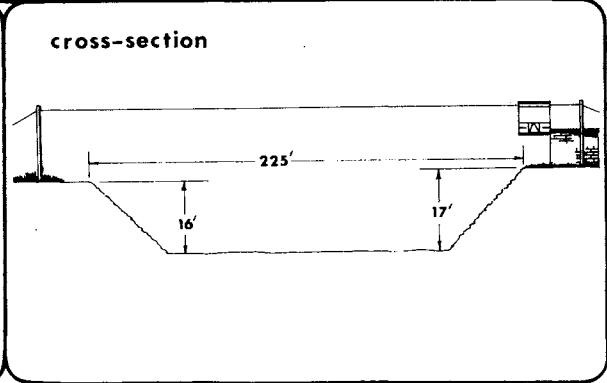
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK MON	FLOW DAY	CFS
1952-53	47	0	0.4	292	12	1	713
1953-54	297	0	34.9	25290	2	13	1500
1954-55	337	0	29.9	21640	1	18	732
1955-56	1120	0	63.5	49730	1	26	3450
1956-57	361	0	71.2	51530	2	28	2200
1957-58	494	0	11.7	8490	4	7	2510
1958-59	279	0	2.2	1610	1	6	2480
1959-60	163	0	1.8	1300	1	12	1160
1960-61	272	0	12.4	9010	1	26	411
1961-62	431*	*	*	4800*	2	11	2090
1962-63	267	+	4.6	3360	3	16	1410
1963-64	232	+	3.9	2860	1	22	1280
1964-65	435	0.2	16.1	11640	4	9	3250
1965-66	646	0.2	11.0	7920	12	29	2060
1966-67	685	0.1	20.8	15060	1	24	3360
1967-68	647	+	23.3	16880	3	8	3390
1968-69	1830	+	68.4	49490	2	25	4960
1969-70	278	+	4.5	3250	3	1	2210
1970-71	384	0	9.4	6810	12	21	1630
1971-72	546	0	4.1	3070	12	24	2650
1972-73	591	0	9.5	6920	1	16	2730
1973-74	749	0.1	9.2	6670	1	7	2020
1974-75	551	+	7.1	5170	12	4	4200
1975-76	255	+	3.9	2800	9	10	1200
1976-77	295	0	5.4	3939	5	9	1920

\* = RECORD INCOMPLETE  
+ = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0.

**STATION NO. F 312 - R  
SAN JOSE CHANNEL  
above Workman Mill Road**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from cable car  
 DRAINAGE AREA - 83.4 square miles  
 LOCATION - 1,650 feet above Workman Mill Road, 3.0 miles southeast of El Monte  
 REGULATION - partially regulated by Thompson Creek Dam and Pomona Sewage Treatment Plant  
 CHANNEL - grouted rip-rap side slopes with natural bottom, trapezoidal section  
 CONTROL - rock stabilizer  
 LENGTH OF RECORD - September 13, 1955, to date



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F312-R

DAILY DISCHARGE in second-feet of SAN JOSE CHANNEL ABOVE WORKMAN MILL ROAD FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976.

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	12.7	18	9.0	9.0	D 10	377	D 10	D 11	D 10	12.7	11.3	10
2	20.6	18	5.0	9.0	D 10	106	D 11	D 11	D 10	12.7	11.3	12
3	20.6	16.6	5.0	9.0	D 12	103	D 15	D 11	D 10	12.7	11.3	75
4	20.6	7.0	10	9.0	198	D 25	303	D 11	D 10	12.7	9.0	30
5	20.6	7.0	10	9.0	290	D 15	D 30	D 11	D 10	12.7	9.0	E 50
6	20.6	6.0	12.7	8.0	470	D 14	D 15	D 15	D 11	12.7	11.3	E 25
7	18	8.0	12.7	8.0	212	D 14	D 12	E 50	D 11	11.3	11.3	60
8	15.3	11.3	8.0	8.0	425	D 13	D 46	D 20	D 11	14	10	30
9	14	12.7	6.0	8.0	680	D 13	D 25	D 15	D 11	12.7	9.0	15
10	14	10	6.0	8.0	D 12	D 13	D 15	D 14	D 11	11.3	11.3	1,200
11	18	10	6.0	8.0	D 11	D 12	D 10	D 14	D 12	11.3	12.7	181
12	11.3	9.0	9.0	8.0	D 11	D 12	D 52	D 13	D 12	10	11.3	30
13	8.0	10	12.7	7.0	D 11	D 12	419	D 13	D 12	10	11.3	15
14	8.0	7.0	12.7	7.0	D 11	D 12	D 25	D 12	D 12	11.3	11.3	15
15	8.0	8.0	11.3	6.0	D 11	D 12	E 30	D 12	D 12	14	16.6	15
16	9.0	7.0	11.3	6.0	D 10	D 11	D 15	D 12	D 13	14	12.7	13
17	9.0	7.0	10	6.0	D 9.0	D 11	D 13	D 11	D 13	15.3	11.3	13
18	9.0	7.0	10	6.0	D 8.0	D 11	D 12	D 11	D 13	14	11.3	13
19	9.0	7.0	10	6.0	D 8.0	D 11	D 12	D 11	D 13	14	10	12
20	9.0	6.0	10	5.0	D 8.0	D 11	D 12	D 11	D 13	15.3	12.7	12
21	8.0	8.0	10	5.0	D 10	D 10	D 12	D 10	D 12	15.3	12.7	11
22	8.0	9.0	10	6.0	D 10	D 10	D 11	D 10	D 12	16.6	12.7	11
23	8.0	9.0	10	6.0	D 11	D 10	D 11	D 10	D 12	15.3	12.7	11
24	8.0	8.0	10	5.0	D 11	D 10	D 11	D 10	D 12	15.3	11.3	10
25	9.0	8.0	10	9.0	D 12	D 10	D 11	D 10	D 12	15.3	8.0	9.0
26	9.0	8.0	10	9.0	D 12	D 9.0	D 10	D 9.0	D 11	12.7	9.0	10
27	9.0	19.3	9.0	8.0	D 11	D 9.0	D 10	D 9.0	D 11	10	11.3	10
28	9.0	10	9.0	11.3	D 11	D 9.0	D 10	D 9.0	D 11	9.0	12.7	11
29	8.0	10	9.0	11.3	D 10	D 9.0	D 10	D 9.0	D 10	10	11.3	11
30	14	9.0	9.0	5.0		D 9.0	D 10	D 9.0	D 10	10	9.0	11
31	20.6		9.0	10		D 9.0		D 9.0		11.3	9.0	
MEAN	12.4	9.7	9.4	7.6	86.7	29.4	39.6	12.7	11.4	12.8	11.2	64.4
ACR-FEET	765	577	580	467	4,390	1,810	2,360	780	680	784	686	3,830

YEAR OR PERIOD MEAN ACRE-FEET 25.6  
18,310

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F312-R

DAILY DISCHARGE in second-feet of SAN JOSE CHANNEL ABOVE WORKMAN MILL ROAD

FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	12.7	10	11.3	25.7	14	9.0	11.3	8.0	8.0	7.0	5.0	5.0
2	12.7	9.0	8.0	126	12.7	11.3	12.7	5.0	8.0	6.0	4.0	5.0
3	14	11.3	10	475	11.3	11.3	11.3	4.0	9.0	6.0	8.0	7.0
4	14	11.3	10	22	11.3	11.3	11.3	6.0	8.0	7.0	6.0	8.1
5	14	10	11.3	248	11.3	11.3	9.0	8.0	8.0	6.0	9.0	9.0
6	12.7	10	9.0	368	11.3	11.3	11.3	7.0	7.0	6.0	11.3	8.0
7	12.7	10	9.0	203	12.7	12.7	12.7	7.0	8.0	4.0	11.3	7.0
8	11.3	10	10	14	12.7	12.7	12.7	585	7.0	4.0	9.0	6.0
9	10	11.3	8.0	12.7	12.7	12.7	12.7	546	8.0	5.0	9.0	7.0
10	11.3	11.3	9.0	12.7	12.7	10	12.7	18	7.0	5.0	10	8.0
11	12.7	12.7	11.3	11.3	11.3	10	11.3	10	8.0	5.0	10	8.0
12	11.3	298	11.3	12.7	12.7	11.3	11.3	11.3	8.0	5.0	9.0	8.0
13	12.7	16.6	10	11.3	11.3	11.3	10	9.0	7.0	4.0	7.0	7.0
14	14	15.3	10	11.3	11.3	11.3	10	9.0	8.0	3.0	8.0	6.0
15	14	16.6	11.3	11.3	11.3	10	9.0	9.0	7.0	3.0	8.0	7.0
16	14	14	11.3	11.3	10	185	10	10	8.0	5.0	26.9	7.0
17	14	9.0	10	10	10	19.5	10	9.0	6.0	5.0	816	9.0
18	14	10	12.7	11.3	9.0	12.7	9.0	9.0	8.0	5.0	5.5	8.0
19	12.7	11.3	11.3	10	9.0	10	7.0	8.0	10	4.0	4.0	8.0
20	12.7	10	12.7	13.6	11.3	11.3	8.0	9.0	9.0	4.0	5.0	6.0
21	12.7	11.3	9.0	40.4	9.0	11.3	6.0	7.0	7.0	5.0	6.0	7.0
22	79.9	11.3	8.0	11.3	11.3	9.0	7.0	10	7.0	5.0	7.0	6.0
23	29.9	10	9.0	11.3	38.6	9.0	9.0	37.9	8.0	7.0	5.0	9.0
24	11.3	11.3	11.3	12.7	215	13.6	10	29.3	7.0	7.0	7.0	9.0
25	12.7	10	11.3	15.1	14	233	9.0	11.3	10	4.0	7.0	9.0
26	11.3	10	11.3	24.8	11.3	23.9	6.0	10	8.0	4.0	6.0	9.0
27	12.7	10	11.3	11.3	11.3	11.3	8.0	10	7.0	4.0	3.0	10
28	11.3	10	10	12.7	12.7	8.0	9.0	10	8.0	7.0	8.0	9.0
29	11.3	10	10	11.3		9.0	9.0	9.0	8.0	6.0	5.0	10
30	11.3	10	396	11.3		10	9.0	9.0	7.0	3.0	8.0	9.0
31	10		177	12.7		10	9.0	9.0		6.0	6.0	

MEAN CFS	15.2	20.7	28.1	57.9	19.8	24.3	9.8	46.4	7.8	5.1	33.9	7.7
TOTAL ACRE-Feet	936	1,230	1,730	3,560	1,100	1,500	586	2,860	464	311	2,080	458

YEAR OR PERIOD MEAN ACRE-Feet 23.1  
16,820

STATION DATA SUMMARY

STA. NO. F312-R  
SAN JOSE CHANNEL ABOVE WORKMAN MILL ROAD

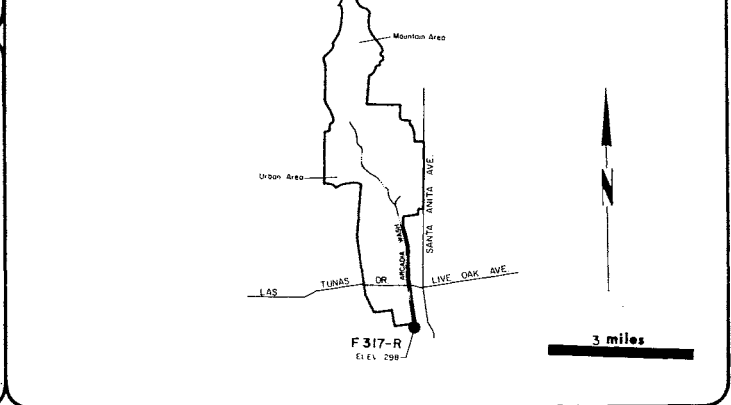
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON DAY CFS
1955-56	1830	0	5.6	4070	1 26 5180
1956-57	190	0	1.1	795	3 1 1410
1957-58	1210	0	19.4	14060	4 7 3990
1958-59	487	0	4.4	3210	1 6 2720
1959-60	253	0	4.7	3430	4 27 1380
1960-61	103	0	0.6	403	1 26 429
1961-62	1220	0	13.2	9540	2 11 3800
1962-63	581	0	7.6	5530	3 16 1940
1963-64	483	*	6.8	4900	1 22 1250
1964-65	1980	0	14.0	10110	4 9 4540
1965-66	1640	*	21.1	15290	12 29 5220
1966-67	2290	2.8	36.3	26260	1 24 10200
1967-68	2150	6.4	24.6	17870	3 8 10100
1968-69	4370	9.3	73.2	52980	2 25 9710
1969-70	898	8.0	28.7	20490	3 4 3930
1970-71	1180	5.0	22.4	16190	12 21 4400
1971-72	988	3.9	17.4	12650	12 24 3720
1972-73	1820	7.0	38.4	27830	2 13 6440
1973-74	1970	8.0	33.3	24060	1 4 4900
1974-75	1260	5.2	64.4	46650	12 4 9620
1975-76	1200	5.0	25.6	18310	9 10 5000
1976-77	816	3.0	23.2	16820	8 17 3580

\* = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0.

**STATION NO. R317-R  
ARCADIA WASH  
below Grand Avenue**

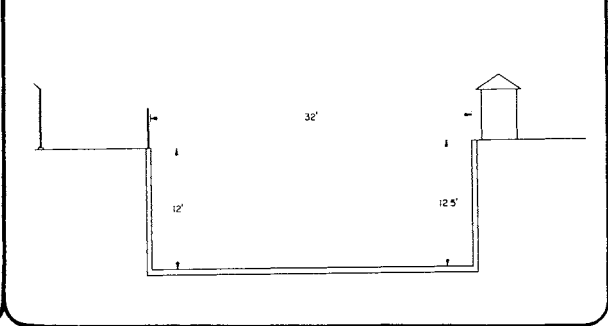


**drainage area**



RECORDER - 15 minute punched tape  
 METHOD OF MEASUREMENTS - low flows measured by wading. High flows measured from upstream side of Grand Avenue bridge.  
 DRAINAGE AREA - 8.5 square miles  
 LOCATION - on the west wall of Arcadia Wash about 75 feet downstream from centerline of Grand Avenue  
 REGULATION - several debris basins located upstream.  
 CHANNEL - rectangular concrete  
 LENGTH OF RECORD - December 12, 1955 to date

**cross section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F317-R

DAILY DISCHARGE in second-feet of ARCADIA WASH BELOW GRAND AVE.

FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.9	4.6	0.5	0.4	0.7	95.7	1.4	0.7	0.9	1.2	0.9	2.1
2	0.9	4.1	0.5	0.4	0.7	56.5	1.4	0.9	0.7	1.4	1.2	2.1
3	0.9	4.1	0.5	0.5	0.7	2.4	15.3	0.7	0.9	1.4	0.9	12.2
4	0.9	3.6	0.5	0.5	19.7	0.9	11	0.7	0.9	1.2	1.4	0.7
5	0.9	3.1	0.4	0.5	33.5	0.9	0.7	1.2	0.9	1.4	1.4	32.8
6	4.4	3.1	0.5	0.5	64.5	1.4	0.7	1.8	0.9	1.8	1.2	5.3
7	4.1	0.9	0.4	0.4	18.3	1.2	0.7	3.0	0.7	1.8	1.2	2.5
8	3.6	0.5	0.5	0.5	72.5	0.9	3.1	0.5	0.7	1.8	1.2	0.5
9	3.6	0.5	0.4	0.5	88.5	0.9	0.7	0.9	0.9	1.8	1.4	0.5
10	3.1	0.5	0.4	0.5	3.9	1.8	0.7	6.0	0.7	1.4	1.8	167
11	10.1	0.5	0.5	0.7	1.4	1.2	2.8	0.7	0.9	1.4	1.8	109
12	6.5	0.5	21.6	0.5	1.2	1.2	25.3	0.7	0.7	1.4	1.8	0.9
13	4.6	0.4	0.7	0.4	1.4	0.9	21.1	0.5	1.2	1.8	1.4	0.5
14	3.6	0.5	0.4	0.5	1.2	0.9	0.7	0.7	0.9	2.1	1.4	0.4
15	3.1	0.5	0.4	0.5	1.4	1.2	3.2	0.5	0.9	2.6	7.6	1.8
16	2.6	0.5	0.5	0.5	1.2	1.2	0.5	0.9	0.9	2.6	2.6	0.4
17	2.1	0.5	0.5	0.5	1.2	1.2	0.4	0.7	0.9	3.1	1.4	0.3
18	1.8	0.5	0.5	0.7	1.2	0.9	0.5	0.7	2.1	3.1	1.4	0.4
19	1.2	0.5	0.5	0.7	1.2	1.2	0.5	0.7	0.9	3.1	1.4	0.4
20	1.4	0.4	0.5	0.5	1.4	0.9	0.5	0.9	1.2	2.6	1.8	0.4
21	1.2	0.5	0.5	0.5	1.4	1.4	0.7	0.7	1.2	2.6	1.4	0.3
22	0.9	0.5	0.5	0.7	1.8	1.2	0.7	0.9	1.2	2.1	1.4	0.4
23	0.9	0.5	0.9	0.7	1.4	0.9	0.7	0.9	0.9	1.8	1.8	0.4
24	0.7	0.7	0.7	0.7	1.8	1.2	0.7	0.7	1.4	1.8	1.8	1.7
25	0.7	0.5	0.4	0.7	1.8	0.9	0.9	0.9	1.2	1.8	1.8	1.4
26	0.7	0.5	0.5	0.7	1.4	1.2	0.7	0.9	1.2	1.4	2.1	0.7
27	0.9	2.9	0.5	0.7	1.4	1.2	0.7	0.9	1.4	1.4	1.8	0.5
28	0.9	0.7	0.5	0.7	1.4	1.4	0.9	0.9	1.4	1.8	1.8	0.5
29	1.4	0.4	0.5	0.7	2.1	1.4	0.7	0.9	1.4	1.4	1.8	0.7
30	5.2	0.4	0.5	0.7	1.4	1.4	0.7	1.2	1.4	1.4	2.1	0.7
31	5.5		0.4	0.9		1.2		0.9		1.2	2.1	

YEAR	2.5	1.2	1.2	0.6	11.4	6.0	3.3	0.9	1.2	1.9	1.8	11.6
ACRE- FEET	157	74.2	72.6	35.5	655	370	196	55.3	73	114	109	689

YEAR OR PERIOD \_\_\_\_\_ MEAN ACRE-FEET 3.6  
2,600

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F317-R

DAILY DISCHARGE in second-feet of ARCADIA WASH BELOW GRAND AVE. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.5	0.5	0.4	0.5	0.4	0.2	0.4	1.8	0.3	0.3	0.4	0.5
2	0.4	0.5	0.4	55	0.4	0.2	0.3	0.3	0.2	0.3	0.4	0.7
3	0.5	0.7	0.4	62	0.4	0.2	0.3	0.4	0.3	0.3	0.5	0.7
4	0.5	0.9	0.4	0.5	0.4	0.3	0.3	0.5	0.2	0.3	0.4	0.5
5	0.7	0.7	0.4	55.1	0.4	0.3	0.3	0.5	0.3	0.4	0.4	0.7
6	0.7	0.7	0.4	50	0.4	0.3	0.4	0.3	0.3	0.4	0.3	0.5
7	0.7	0.7	0.4	55.4	0.4	0.4	0.4	0.3	0.3	0.4	0.3	0.7
8	0.7	0.7	0.4	0.7	0.4	0.3	0.4	119	0.3	0.3	0.3	0.5
9	0.9	0.5	0.5	0.5	0.4	0.3	0.4	70.8	1.8	0.4	0.4	0.4
10	0.9	0.5	0.5	0.7	0.4	0.3	0.3	0.9	0.9	0.3	0.5	0.5
11	0.9	5.4	0.4	0.5	0.4	0.3	0.4	0.4	0.3	0.4	0.5	0.4
12	0.9	48.5	0.4	0.4	0.4	0.3	0.3	1.5	0.2	0.3	0.4	0.4
13	0.9	0.7	0.4	0.4	0.4	0.3	0.4	0.2	0.4	0.4	0.4	0.5
14	0.9	0.5	0.4	0.4	0.5	0.4	0.3	0.2	0.3	0.4	0.4	0.4
15	1.2	0.5	0.4	0.4	0.4	0.4	0.9	0.2	0.4	0.5	0.5	0.4
16	1.4	0.4	0.4	0.4	0.4	42.4	2.1	0.3	0.4	0.4	9.1	0.5
17	1.2	0.5	0.4	0.4	0.5	0.7	2.1	0.2	0.4	0.2	118	0.4
18	1.4	0.4	0.4	0.3	0.7	0.4	0.9	0.3	0.4	0.3	0.9	0.3
19	1.2	0.4	0.4	0.4	0.7	0.4	0.2	0.2	0.4	0.4	0.5	0.4
20	1.2	0.4	0.5	5.0	0.5	0.4	0.3	0.3	0.5	0.4	0.3	0.4
21	1.8	0.4	0.4	3.3	0.7	0.5	0.2	0.2	0.5	0.4	0.2	0.4
22	13.1	0.4	0.4	0.5	0.7	0.4	0.3	0.2	0.4	0.4	0.3	0.4
23	62.3	0.5	0.4	0.5	8.1	0.7	0.3	12.7	0.4	0.3	0.3	0.5
24	0.7	0.4	0.4	0.4	17.8	7.5	0.2	4.4	0.4	0.3	0.3	0.4
25	0.7	0.4	0.3	0.4	0.7	53.1	0.3	0.3	0.4	0.3	0.4	0.4
26	0.5	0.4	0.3	0.4	0.4	0.7	0.3	0.2	0.3	0.3	0.4	0.5
27	0.5	0.3	0.4	0.4	0.4	0.5	0.3	0.2	0.4	0.4	0.4	0.7
28	0.5	0.3	0.5	0.4	0.4	0.5	0.3	0.2	0.4	0.4	0.4	0.5
29	0.5	0.4	0.4	0.4	0.4	0.2	0.3	0.2	0.5	0.4	0.5	0.5
30	0.5	0.4	31.1	0.5		0.3	0.3	0.2	0.4	0.5	0.4	0.5
31	0.5		1.4	0.5		0.4		0.3		0.4	0.5	

MEAN	3.2	2.3	1.4	3.6	1.4	3.7	0.5	7.0	0.4	0.4	4.5	0.5
ACRE- FEET	197	135	87.9	588	75.6	225	28.2	432	25.2	22.2	276	29

YEAR OR PERIOD MEAN ACRE-FEET 2.9  
2,120

STATION DATA SUMMARY

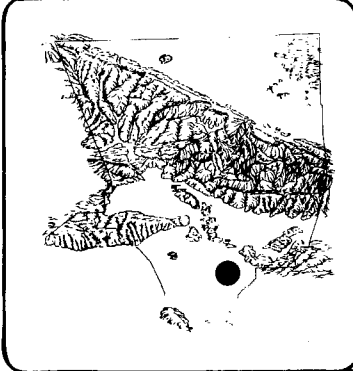
STA. NO. F317-R  
ARCADIA WASH BELOW GRAND

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK MON	FLCK DAY	CFS
1956-57	108	0.1	1.8	1340	2	23	1184
1957-58	212	0.1	4.6	3330	2	29	1932
1958-59	127	0.2	1.9	1360	1	6	1270
1959-60	101	0.3	1.7	1220	4	27	593
1960-61	69	*	1.1	831	11	5	570
1961-62	408	0.1	4.7	3400	2	11	1480
1962-63	153	0.2	2.1	1510	2	9	600
1963-64	120	0.1	2.2	1620	11	20	1340
1964-65	153	0.1	3.1	2270	4	9	1460
1965-66	267	0.1	4.7	3430	12	29	1270
1966-67	283	0.3	6.3	4560	1	22	1260
1967-68				M			
1968-69				M			
1969-70				M			
1970-71				M			
1971-72				M			
1972-73				M			
1973-74	275	0.3	4.0	2910	1	7	931
1974-75	207	0.3	3.2	2290	12	4	2560
1975-76	167	0.3	3.6	2600	9	11	1400
1976-77	119	0.2	2.9	2121	10	23	1320

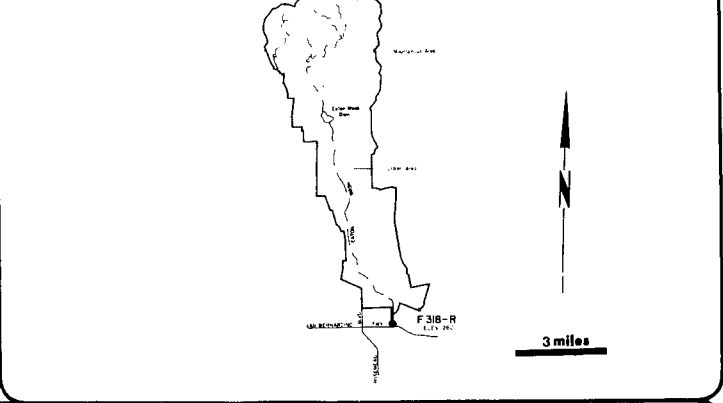
\* = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0  
M = RECORD MISSING



**STATION F318-R  
EATON WASH  
at Loftus Drive**

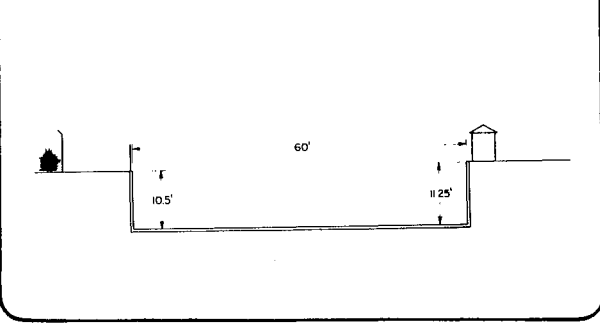


**drainage area**



RECORDER - 15 minute punched tape  
 METHOD OF MEASUREMENTS - low flows measured by wading. High flows measured from upstream side of East Loftus Drive bridge.  
 DRAINAGE AREA - 22.8 square miles  
 LOCATION - on the west wall of the channel 52 feet above the centerline of East Loftus Drive bridge, 1.3 miles west of El Monte.  
 REGULATION - partly regulated by Eaton Dam  
 DIVERSIONS - the Pasadena Water Department diverts some water just above the mouth of Eaton Canyon. The Flood Control District diverts water to spreading grounds below Eaton Dam and below Huntington Drive.  
 CHANNEL - rectangular concrete, 60 feet wide, 11.3 deep  
 CONTROL - channel forms control  
 LENGTH OF RECORD - 1956 to date

**cross section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F318-R

DAILY DISCHARGE in second-feet of EATON WASH AT LOFTUS DRIVE FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	4.3	1.5	2.4	0.5	0.9	139	10.5	0.9	1.2	1.5	0.9	1.5
2	4.3	1.2	2.4	0.6	1.2	89.4	16.6	0.9	1.2	1.2	0.9	2.7
3	3.3	1.5	2.4	0.9	0.6	1.9	49.4	0.6	0.9	1.2	0.9	16.7
4	3.3	2.1	1.8	0.9	33.6	0.5	3.1	0.9	1.2	1.2	1.2	1.8
5	3.3	1.5	0.6	1.5	68.8	0.5	0.6	1.2	1.2	1.5	2.1	39.3
6	9.8	1.5	0.6	1.2	157	0.5	0.5	3.3	0.9	2.4	1.8	7.1
7	7.7	1.8	0.6	1.5	17.1	0.4	0.9	5.7	0.9	2.7	1.2	4.1
8	4.3	1.8	1.8	1.8	97.9	0.5	7.0	0.9	1.2	2.4	0.9	2.7
9	3.6	1.8	0.6	1.5	138	0.9	0.6	0.6	0.9	1.8	1.8	2.1
10	4.3	1.8	0.6	1.5	1.8	2.4	0.6	0.9	8.4	1.2	1.5	275
11	16.9	1.8	0.9	0.6	0.9	0.5	1.6	0.9	0.9	0.9	1.2	183
12	5.6	1.8	36.6	1.2	1.2	0.5	36.6	1.2	0.9	1.2	1.2	1.2
13	2.1	1.8	0.6	1.8	0.9	0.5	28.8	1.2	0.9	1.5	2.1	0.9
14	1.8	1.8	0.5	2.1	0.5	0.5	0.9	1.8	1.2	0.9	1.2	0.9
15	2.1	1.8	0.5	1.2	0.4	0.5	3.1	2.4	1.2	1.2	11.6	6.0
16	2.1	1.5	0.5	1.2	0.5	1.7	0.6	0.9	1.2	1.2	1.8	1.2
17	2.1	1.5	0.5	1.2	0.6	0.5	0.6	0.9	0.9	1.2	0.9	0.6
18	1.5	1.5	0.5	0.9	0.6	0.5	0.9	0.9	1.8	1.2	1.2	0.9
19	1.2	1.8	0.6	1.2	0.5	0.5	1.2	1.2	0.9	1.2	1.2	0.6
20	1.5	1.5	0.5	1.2	0.5	0.9	1.5	0.9	0.9	1.2	2.4	0.9
21	1.5	1.8	0.5	1.2	0.5	0.9	1.2	0.9	1.2	2.7	1.2	0.6
22	1.8	1.8	0.6	1.2	0.5	0.9	0.6	0.9	1.5	1.8	0.9	0.6
23	2.1	1.8	0.5	1.5	0.9	0.9	0.6	0.9	1.2	2.4	2.7	0.6
24	1.8	2.4	0.5	1.2	0.6	2.1	0.6	0.9	1.8	1.8	2.4	3.0
25	2.4	2.1	0.4	0.9	0.5	2.4	0.6	0.9	1.8	1.5	2.4	1.5
26	2.4	1.8	0.4	1.8	0.5	2.7	0.6	0.9	2.4	3.0	2.4	0.6
27	2.1	7.1	0.5	0.6	0.5	2.7	0.6	0.9	1.8	3.0	2.4	0.6
28	2.3	3.2	0.5	0.9	0.5	3.6	0.6	0.9	3.0	2.7	1.2	0.9
29	1.8	1.8	0.6	0.9	0.5	5.7	0.6	1.2	2.4	1.2	1.8	1.2
30	6.7	2.1	0.5	0.9		7.0	0.9	0.9	1.5	1.5	3.3	1.2
31	1.5		0.6	0.9		8.4		0.9		0.9	3.0	

MEAN	3.6	2.0	2.0	1.2	18.2	9.0	5.7	1.2	1.6	1.6	2.0	18.7	
KICK- FEET	221	117	121	72.4	1,050	555	342	76.1	94	102	122	1,110	
YEAR OR PERIOD												MEAN ACRE-FEET	5.6 3,980

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F318-R

DAILY DISCHARGE in second-feet of EATON WASH AT LOFTUS DRIVE

FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.9	0.9	0.6	0.5	0.9	1.5	1.2	4.4	0.5	0.5	1.5	2.7
2	0.9	1.5	0.9	73.1	0.9	1.8	1.2	0.9	0.5	0.4	3.7	2.7
3	0.6	2.1	0.9	110	0.6	1.8	0.9	0.6	0.6	0.4	3.2	0.6
4	2.1	1.8	0.6	0.9	0.5	0.9	1.5	0.5	0.5	0.4	3.7	0.6
5	1.5	1.5	1.7	91.6	0.6	0.5	1.5	0.5	0.5	0.5	3.5	0.6
6	1.5	1.5	0.6	57.1	0.5	0.5	1.8	0.5	0.5	0.5	0.5	3.0
7	1.5	1.2	0.6	70.2	0.6	0.6	1.5	0.5	0.9	0.5	0.5	3.0
8	2.1	1.8	0.6	0.6	0.6	0.6	1.2	206	0.5	0.5	3.2	2.7
9	1.5	1.5	0.6	0.6	0.6	0.6	0.5	126	0.6	0.4	3.3	2.4
10	0.9	0.9	0.6	0.9	0.6	0.6	0.5	1.5	0.5	0.4	3.7	0.9
11	1.8	15.8	0.6	0.6	0.6	0.6	0.5	0.6	0.5	0.5	3.0	0.6
12	0.9	103	0.6	0.5	0.5	0.6	0.6	3.2	0.5	0.5	2.1	2.1
13	0.9	0.9	0.6	0.6	0.5	0.5	0.6	0.5	0.5	0.5	0.5	2.4
14	1.2	1.2	0.6	0.9	0.6	0.6	0.5	0.5	0.5	0.5	0.5	2.7
15	1.2	0.6	0.6	0.6	0.9	0.6	0.5	0.4	0.5	0.5	1.8	2.7
16	0.9	0.6	0.9	0.6	0.9	67.1	0.6	0.5	0.5	0.6	15.8	1.2
17	0.6	0.6	0.9	0.6	0.6	0.9	0.5	0.5	0.5	0.6	197	0.6
18	0.9	0.9	0.9	0.5	0.6	0.9	0.6	0.6	0.5	2.1	3.9	0.6
19	0.6	0.9	0.6	0.5	0.6	0.6	0.6	0.5	0.5	2.1	3.3	0.9
20	0.9	0.9	0.9	8.2	0.5	0.6	0.6	0.5	0.5	2.1	1.8	0.9
21	0.9	0.5	0.9	5.1	0.9	0.9	0.6	0.5	0.5	2.1	0.9	0.9
22	42.2	0.9	0.9	0.5	0.6	1.2	0.5	0.5	0.5	2.1	2.1	0.6
23	128	0.9	0.6	0.5	12.1	0.9	0.5	12.5	0.5	0.6	3.9	0.9
24	0.9	0.9	0.6	0.5	12	7.1	0.5	5.3	0.5	0.6	3.3	0.6
25	0.6	1.2	0.6	0.8	2.1	87.3	0.6	0.5	0.5	2.1	2.4	0.5
26	0.6	0.6	0.5	0.6	2.1	0.6	0.6	0.5	0.5	2.1	2.4	0.9
27	0.9	0.5	0.6	0.6	2.1	0.5	0.6	0.5	0.5	2.1	0.5	0.9
28	1.2	0.5	0.9	0.6	2.1	0.5	0.5	0.5	0.5	2.1	0.5	0.9
29	0.9	0.6	0.6	0.6		0.6	0.6	0.5	0.5	2.1	2.1	0.9
30	0.9	0.6	43.4	0.6		1.2	0.5	0.5	0.5	0.6	2.4	0.9
31	0.6		3.2	0.6		1.2		0.5		0.6	2.1	

MEAN	6.5	4.9	2.2	13.9	1.7	5.9	0.8	12	0.5	1.0	9.0	1.4
ACRE- FEET	393	292	134	853	92.6	366	45.4	737	30.7	62.7	554	83.1

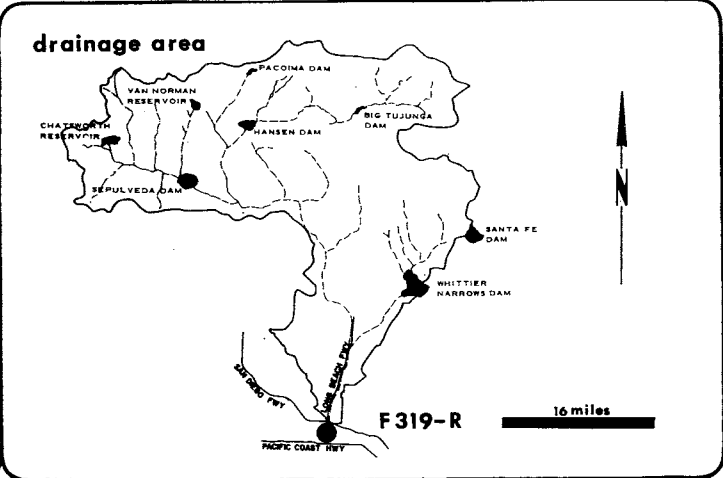
YEAR OR PERIOD MEAN ACRE-FEET 5.0  
3,650

STATION DATA SUMMARY

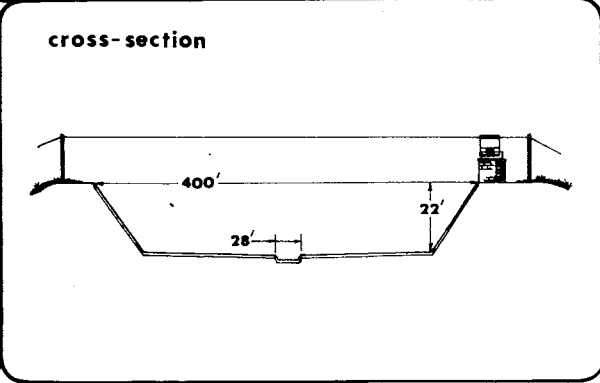
STA. NO. F318-R  
EATON WASH AT LOFTUS DRIVE

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK MON	FLCW DAY	CFS
1956-57 A	201	0	3.3	2400	2	23	1760
1957-58	368	0.1	10.3	7460	2	19	2700
1958-59	245	0.1	3.9	2850	1	6	3480
1959-60	186	*	3.3	2420	1	12	1090
1960-61	123	0.1	2.2	1590	11	26	1200
1961-62	598	0.1	9.5	6880	2	11	1950
1962-63	311	0.3	4.1	2980	2	9	1230
1963-64	227	0.1	4.2	3050	11	20	2360
1964-65	254	0.2	5.2	3760	4	9	2150
1965-66	605	0.3	12.4	8990	12	29	2290
1966-67	548	0.3	12.0	8670	1	24	2100
1967-68	318	0.3	5.6	4040	3	8	2390
1968-69	1860	0.3		M			
1969-70				M			
1970-71				M			
1971-72				M			
1972-73				M			
1973-74	592	0.3	6.7	4870	1	7	1530
1974-75	480	0.5	6.7	4870	12	4	3000
1975-76	275	0.4	5.6	3980	9	11	2660
1976-77	206	0.4	5.0	3650	10	23	1820

\* = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0  
M = RECORDS MISSING  
A = PRIOR TO 1956, RECORDS WERE OBTAINED AT STATION F104-R, ELLIS LANE, FROM OCTOBER 1, 1930 TO DECEMBER 27, 1930; AT STATION F104B-R, BROADWAY, FROM DECEMBER 28, 1930 TO NOVEMBER 10, 1931; AT STATION F104-R, ELLIS LANE, FROM NOVEMBER 10, 1931 TO MAY 4, 1955 (REMOVED FOR CHANNEL CONSTRUCTION). RECORDS BEGAN AT STATION F318-R ON FEBRUARY 23, 1956



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from cable car  
 DRAINAGE AREA - 815.0 square miles (excludes area above Santa Fe Dam)  
 LOCATION - 900.0 feet below Wardlow Road, Long Beach  
 REGULATION - flow is subject to the same regulation as Stations F34D-R and P45B-R.  
 Diversion - flows diverted to Dominguez Gap Spreading Grounds  
 CHANNEL - trapezoidal, concrete, 302.0 feet wide at bottom with 2.25:1 side slopes. Low flow channel 28.0 feet wide by 1.0 foot deep in center of channel  
 CONTROL - channel forms control  
 LENGTH OF RECORD -  
 at Station F180-R, October 31, 1931, to January 13, 1956  
 at Station F319-R, January 13, 1956, to date  
 REMARKS - prior to 1931, see Station F36-R



LOS ANGELES COUNTY  
 FLOOD CONTROL DISTRICT  
 HYDRAULIC DIVISION

STATION NO. F319-R

DAILY DISCHARGE in second-feet of LOS ANGELES RIVER BELOW WARDLOW ROAD FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	36	30	18.6	14.6	18.6	1,640	20	36	26	26	16.2	33
2	31	24	19.4	11.5	19.4	620	18.6	36	22	25	17.8	27
3	32	23	21	12.5	20	1,080	22	32	20	23	16.2	27
4	33	29	22	13.8	139	50	785	34	20	19.4	16.2	52
5	30	23	26	17	969	22	114	26	20	19.4	16.2	61
6	51	19.4	27	21	3,500	18.6	29	23	17.8	20	17	1,200
7	62	19.4	23	20	736	17.8	28	98	19.4	25	17	46
8	34	19.4	20	14.6	1,870	16.2	170	42	41	24	15.4	36
9	35	17.8	21	16.2	4,660	26	98	29	34	24	15.4	32
10	30	17.8	19.4	15.4	838	272	21	29	324	25	17.8	3,830
11	242	18.6	22	15.4	73	37	24	26	208	22	17.8	2,650
12	94	22	222	17	34	24	65	24	19.4	24	18.6	183
13	25	18.6	303	15.4	32	17.8	788	23	14.6	24	19.4	51
14	28	17	32	16.2	19.4	17	99	26	13	26	18.6	35
15	30	19.4	21	18.6	14.6	19.4	57	23	13.8	24	64	46
16	30	18.6	20	19.4	16.2	23	47	21	23	23	143	31
17	29	17.8	18.6	24	18.6	23	21	21	37	19.4	28	28
18	32	20	20	23	19.4	23	23	22	30	18.6	22	20
19	28	19.4	18.6	22	27	22	21	25	27	18.6	1.6	17.8
20	24	18.6	19.4	25	20	20	18.6	22	20	20	17	20
21	26	21	17	21	18.6	18.6	21	23	21	19.4	13	20
22	24	20	18.6	20	14.6	17.8	23	23	23	19.4	15.3	22
23	21	18.6	20	19.4	14.6	42	28	26	22	22	17	24
24	18.6	17.8	19.4	21	28	37	22	28	23	19.4	15.4	379
25	20	18.6	20	19.4	20	24	20	32	25	19.4	16.2	140
26	24	32	16.2	17.8	19.4	23	23	30	24	20	18.6	45
27	26	34	18.6	18.6	18.6	22	26	29	23	22	22	25
28	29	40	19.4	17.8	19.4	21	29	29	34	23	20	19
29	23	24	22	21	19.4	21	23	25	29	19.4	19.4	35
30	79	19.4	30	23	25	25	32	26	28	19.4	19.4	83
31	126		26	21	21	21		25		18.6	23	

MEAN	43.6	21.9	36.8	18.5	455	137	90.5	29.5	40.1	21.7	23.6	307
ACRE- FEET	2,680	1,310	2,260	1,130	26,200	8,450	5,390	1,810	2,380	1,330	1,450	18,280

YEAR OR PERIOD MEAN ACRE-FEET 102  
72,670

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F319-R

DAILY DISCHARGE in second-feet of LOS ANGELES RIVER BELOW WARLOW ROAD FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	20.2	20.2	22	177	27	26	24	42	12.5	24	14.6	5.7
2	17	24	22	31	23	24	17	20.2	14.6	22	18.6	5.3
3	16.2	28	19.4	4,858	26	24	12.5	18.6	13	20.2	19.4	5.7
4	17.8	25	24	181	24	23	12.5	16.2	13	19.4	15.4	6.0
5	21	23	26	683	24	25	15.4	15.4	13	20.2	19.4	6.0
6	25	20.2	25	3,483	29	25	16.2	16.2	17	23	18.6	6.8
7	23	20.2	26	3,091	28	24	17.8	15.4	13.8	24	18.6	7.2
8	22	21	29	184	23	28	17.8	6,736	13.8	23	17.8	9.5
9	18.6	21	28	70	22	30	17	3,737	16.2	23	17.8	8.5
10	22	22	27	55	19.4	29	16.2	474	22	23	13	12.5
11	24	25	28	40	20.2	28	14.6	60	30	24	11.5	11
12	22	2,128	25	37	19.4	29	16.2	67	27	30	10.5	12
13	25	99	27	29	22	29	19.4	44	23	25	11	11.5
14	25	31	42	27	23	28	22	23	25	25	11	10.5
15	22	33	23	25	26	29	15.4	17.8	22	26	10	10.5
16	20.2	24	20.2	26	24	1,559	16.2	13.8	28	26	17.6	9.5
17	17	23	20.2	25	24	537	16.2	13	30	23	7,130	10
18	17.8	22	19.4	25	26	46	14.6	13.8	28	21	597	8.0
19	24	24	20.2	25	21	34	16.2	13.8	26	21	53	8.0
20	22	22	22	40	17.8	30	15.4	15.4	25	23	26	9.0
21	37	22	25	315	17	29	17	14.6	28	19.4	18.6	9.0
22	222	30	21	58	17	31	17	15.4	27	17	15.4	7.6
23	1,746	30	20.2	38	156	24	16.2	57	25	15.4	14.6	8.5
24	80	28	20.2	38	244	32	14.6	215	24	14.6	11.5	8.0
25	34	23	17	34	71	3,180	12.5	47	24	15.4	10.5	8.0
26	21	20.2	17	29	29	138	12.5	20.2	23	19.4	9.5	9.5
27	17.8	21	17.8	22	26	44	15.4	14.6	23	17	9.5	13.8
28	25	17	19.4	28	30	33	15.4	17	25	14.6	7.2	13.8
29	31	18.6	23	38		20.2	15.4	12.5	24	16.2	7.2	10
30	29	20.2	1,575	27			15.4	13.8	12	24	16.2	9.5
31	20.2		394	28			19.4	14.6		13.8	6.8	

YEAR	86.6	96.2	85.3	444	37.8	199	16.1	381	22	20.8	263	9.0
ACRE-FEET	5,320	5,720	5,250	27,310	2,100	12,250	957	23,430	1,310	1,280	16,200	537

YEAR OR PERIOD MEAN ACRE-FEET 138 101,700

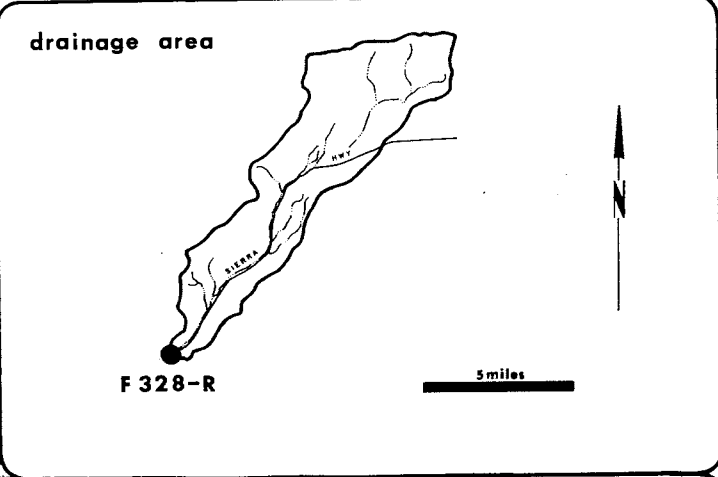
STATION DATA SUMMARY

STA. NO. F319-R  
LOS ANGELES RIVER BFLDW WARLOW ROAD

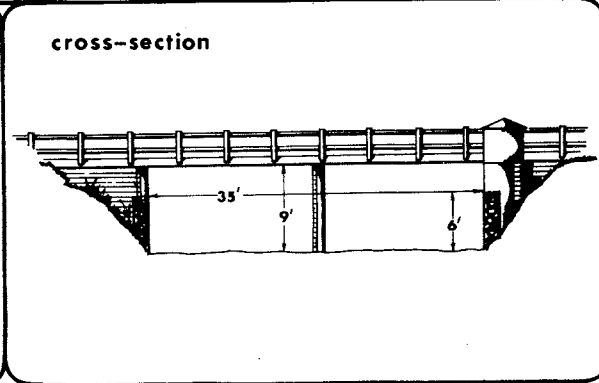
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK MON	FLOW DAY	CFS	SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK MON	FLOW DAY	CFS
1928-29 A				9340 *	3	10	2870 *	1958-59	6340	7.2	66.2	49390	1	6	31000
1929-30	1270	0.9	17.0	12310	3	15	1670	1959-60	3420	3.7	67.6	49100	1	12	21700
1930-31	1340	0	19.9	14400	2	3	3700	1960-61	2860	1.3	44.2	32000	1	26	9450
1931-32 B	7130	0.8	70.2	50960	2	9	8380	1961-62	14800	0.6	24.5	177400	2	12	42200
1932-33	3310	0.3	31.6	22890	1	19	8710	1962-63	5480	1.2	75.6	54700	2	9	31400
1933-34	19900	0	93.7	67860	1	1	37500	1963-64	4150	5.3	64.8	47020	1	22	16000
1934-35	2930	1.6	55.9	40470	4	9	11000	1964-65	5150	4.1	106	76680	4	9	30100
1935-36	1630	2.3	28.3	20470	2	12	10400	1965-66	22500	3.0	34.2	247900	12	29	61500
1936-37	6800	3.3	126	91110	2	14	20500	1966-67	12400	9.9	237	171900	11	7	43700
1937-38	50000	1.0	564	408000	3	2	99000 E	1967-68	13600	18	173	125800	3	3	48900
1938-39	6220	3.5	114	82750	9	25	17300	1968-69	55000	16	1150	832000	1	25	102000
1939-40	2830 E	15	90.8	65930	2	2	8440	1969-70	5300	22	128	92070	2	28	5300
1940-41	11120	18	510	369500	3	4	18170	1970-71	20600	20	231 *	145300 *	11	29	65100
1941-42	3180	31	129	93350	12	10	10800	1971-72	8550	17	106	77560	12	24	28700
1942-43	18100	28	366	264700	1	23	37900	1972-73	16170	20	253	183300	2	11	50800
1943-44	17190	38	299	217400	2	22	34000	1973-74	17200	17	190	137800	1	7	42800
1944-45	3029	33	138	100200	11	12	11600	1974-75	11200	13	159	115000	12	4	64470
1945-46	6440	30	127	91790	12	22	12800	1975-76	4660	11.5	102	72670	2	9	16020
1946-47	5750	18	146	106000	12	26	18810	1976-77	7130	5.3	140.4	101700	1	3	29528
1947-48	1540	19	72.8	52820	3	24	9310								
1948-49	1790	13	61.3	44350	12	17	5520								
1949-50	2360	6.3	58.3	42180	2	6	9090								
1950-51	1610	5.6	50.6	36600	1	29	9040								
1951-52	16310	3.8	292	212200	1	16	47800								
1952-53	2932	1.9	61.4	44490	11	15	21100								
1953-54	8120	2.5	97.8	70790	2	13	34760								
1954-55	4180	2.2	83.0	60120	1	13	17750								
1955-56 C	12700	7.0	133	96810	1	26	40500								
1956-57	4550	5.5	67.3	48710	2	23	23000								
1957-58	10400	6.4	264	191200	2	19	43800								

- \* = RECORDER FAILED - FLOW COMPUTED BY ADDING 0'S OF STATIONS NOS. F340-R, F458-R, + 104.6% OF F378-R
- A = GAGE AT STATION F36-P, LOS ANGELES RIVER AT WILLOW STREET FROM DEC 26, 1928 TO OCTOBER 26, 1931. DRAINAGE AREA 1062 SQUARE MILES.
- B = GAGE AT STATION F180-R, LOS ANGELES RIVER AT STATE STREET FROM OCTOBER 27, 1931 TO JANUARY 12, 1956. DRAINAGE AREA 1063 SQUARE MILES.
- C = GAGE AT STATION F319-R, LOS ANGELES RIVER BELOW BELMART STREET (NOW WARLOW ROAD) FROM JANUARY 13, 1956 TO PRESENT. DRAINAGE AREA 815 SQUARE MILES (EXCLUDES AREA ABOVE SANTA FE DAM)

**STATION NO. F 328-R  
MINT CANYON CREEK  
at Fitch Avenue**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from bridge  
 DRAINAGE AREA - 26.9 square miles  
 LOCATION - 8.5 miles northeast of Sougus on west end of Fitch Avenue bridge  
 REGULATION - none  
 CHANNEL - natural, sand and gravel  
 CONTROL - concrete control at downstream end of bridge  
 LENGTH OF RECORD - October 26, 1956, to date



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F328-R

DAILY DISCHARGE in second-feet of MINT CANYON CREEK AT FITCH AVE.

FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	0	0	0	+	0	0	0	0	0	0
2	0	0	0	0	0	0.1	0	0	0	0	0	0
3	0	0	0	0	0	0	+	0	0	0	0	0
4	0	0	0	0	0	0	+	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	8.2
6	0	0	0	0	0.3	0	0	0	0	0	0	0.2
7	0	0	0	0	0.3	0	0	0	0	0	0	0
8	0	0	0	0	0.5	0	0	0	0	0	0	0
9	0	0	0	0	1.0	0	0	0	0	0	0	0
10	0	0	0	0	0	+	0	0	+	0	0	11.7
11	0	0	0	0	0	0	0	0	0	0	0	0.8
12	0	0	0	0	0	0	+	0	0	0	0	0
13	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	0.1
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	0	0	0

MEAN	0	0	0	0	0.1	+	+	0	+	0	0	0.7
ACRE- FEET	0	0	0	0	4.2	0.2	+	0	+	0	0	41.6

YEAR OR PERIOD \_\_\_\_\_ MEAN ACRE-FEET \_\_\_\_\_ 0.1 / 46

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F328-R

DAILY DISCHARGE in second-feet of MINT CANYON CREEK AT FITCH AVE. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0.1	0	0	0	0	0	0	0	0
3	0	0	0	0.5	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	0.2	+	0	0	0	0	0	0	0
6	0	0	0	1.0	0	0	0	0	0	0	0	0
7	0	0	0	0.3	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	3.9	0	0	0	0
10	0	0	0	0	0	0	0	0.5	0	0	0	0
11	0	0	0	+	0	0	0	0	0	0	0	0
12	0	B	+	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	0.3	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	1.6	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
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	0.4	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	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	+	0	0.1	+	+	0	0.1	0	0	0.1	0
ACRE- FEET	0	+	0	4.2	+	1.4	0	8.7	0	0	3.2	0

YEAR  
DR PERIOD MEAN  
ACRE-FEET 17.5

STATION DATA SUMMARY

STA. NO. F328-R  
MINT CANYON CREEK AT FITCH AVENUE

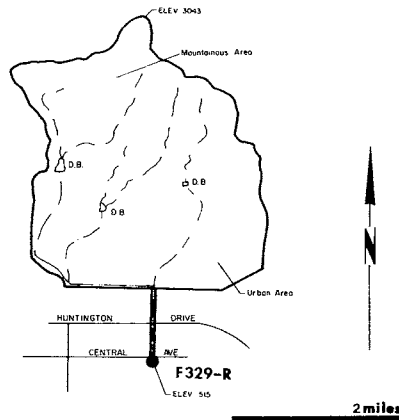
SEASON	MAX	MIN	MEAN	TOTAL	PEAK FLOW		
	DAILY	DAILY	DAILY	RUNOFF	MON	DAY	
	CFS	CFS	CFS	A.F.		CFS	
1957-58	66	0	0.6	435	12	15	708
1958-59	14	0	+	44	1	6	317
1959-60	0.3	0	+	2.0	1	10	8.1
1960-61	3.6	0	+	14	11	5	64
1961-62	4.9	0	0.4	257	2	11	176
1962-63	3.0	0	+	26	9	18	70
1963-64	13	0	0.1	45	4	1	111
1964-65	17	0	0.1	66	4	8	94
1965-66	71	0	0.8	588	11	17	684
1966-67	14	0	0.1	72	12	3	185
1967-68	13	0	+	34	11	19	251
1968-69	1030	0	4.4	3190	2	25	3500
1969-70	5.0	0	0.1	25	2	28	46
1970-71	85	0	0.4	328	11	29	943
1971-72	5.9	0	0.1	35	12	27	60
1972-73	25	0	0.2	117	2	11	184
1973-74	2.8	0	+	13	1	7	11
1974-75	4.4	0	+	27	3	8	85
1975-76	12	0	0.1	46	9	5	389
1976-77	3.9	0	0.02	17.5	5	8	43

+ = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0.

**STATION NO. F329-R  
BRADBURY CHANNEL  
below Central Avenue**

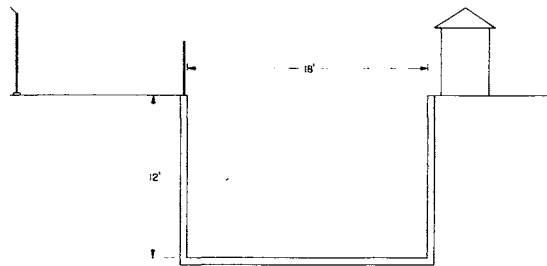


**drainage area**



RECORDER - 15 minute punched tape  
 METHOD OF MEASUREMENTS - low flows measured by wading. High flows measured from footbridge four feet downstream from recorder.  
 DRAINAGE AREA - 3.3 square miles  
 LOCATION - on the east wall of Bradbury Channel, 200 feet downstream from the centerline of Central Avenue, one mile east of Duarte.  
 REGULATION - two debris basins located upstream  
 CHANNEL - rectangular concrete, 18 feet wide, 12 feet deep.  
 CONTROL - channel forms control  
 LENGTH OF RECORD - June 14, 1957 to present

**cross section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F329-R

DAILY DISCHARGE in second-feet of BRADBURY CHANNEL BELOW CENTRAL AVE.

FOR THE WATER YEAR-ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.1	+	0.1	+	1.0	9.1	0.1	+	0.1	0.3	0.6	0.6
2	+	+	0.6	0.1	1.0	5.8	0.1	+	0.1	0.3	0.3	1.0
3	+	+	1.0	+	1.0	0.1	0.7	+	0.3	0.6	0.1	2.2
4	+	+	0.6	+	4.8	+	1.0	+	0.1	0.3	0.3	1.0
5	+	+	0.1	+	2.5	+	0.3	0.1	0.1	0.3	0.3	1.5
6	+	0.1	0.1	+	4.2	1.0	+	0.1	+	0.3	0.6	1.5
7	0.2	0.3	0.1	1.0	1.6	1.0	0.1	0.3	+	0.3	0.3	1.5
8	0.1	0.6	0.1	0.1	3.7	1.0	0.3	0.1	0.1	0.3	1.0	0.6
9	0.1	0.6	0.1	0.1	9.4	1.0	0.1	0.1	0.1	0.6	0.6	0.3
10	0.3	0.3	0.1	0.1	0.1	0.3	+	0.1	0.1	0.6	0.3	13.6
11	0.9	0.1	0.1	0.1	+	0.3	0.1	0.1	0.1	0.6	0.3	10.2
12	0.3	0.1	1.4	0.1	0.3	0.1	1.9	0.1	0.1	0.3	0.6	0.6
13	0.1	0.1	0.1	0.1	0.6	0.1	1.2	0.1	0.1	0.6	0.6	0.6
14	0.1	+	0.3	0.1	0.1	0.1	+	0.6	0.1	0.6	0.1	0.1
15	+	0.1	0.3	+	0.1	0.1	0.1	0.3	0.1	0.3	0.3	0.1
16	+	0.1	0.3	+	0.1	0.1	+	0.6	0.1	0.3	0.6	0.1
17	+	+	0.3	+	+	0.1	+	0.6	0.1	0.3	0.1	0.3
18	+	+	0.1	0.1	0.1	0.1	+	0.6	0.1	0.3	0.1	0.6
19	+	0.1	0.1	+	0.3	0.1	+	0.3	0.1	0.6	0.1	0.6
20	0.3	0.1	0.1	0.1	1.0	0.1	+	0.6	0.3	0.3	0.1	0.6
21	0.1	0.1	0.1	0.1	1.0	+	+	0.1	0.3	0.3	0.1	0.6
22	+	0.1	0.1	0.1	1.0	0.1	+	0.1	0.3	0.3	0.3	0.6
23	+	0.3	0.1	0.1	0.3	0.1	+	0.1	0.3	0.1	1.5	0.6
24	+	0.6	0.1	0.3	0.1	0.1	+	0.3	0.3	0.1	0.6	1.0
25	+	0.3	0.1	0.6	+	0.1	+	0.1	0.3	0.1	0.6	1.0
26	+	0.6	0.1	0.1	+	+	+	0.6	0.3	0.1	0.6	1.0
27	+	0.7	+	0.1	+	+	+	0.3	0.1	0.1	1.0	0.3
28	+	+	0.1	0.1	+	+	+	0.3	0.1	0.3	2.4	0.1
29	+	0.1	0.1	0.3	0.1	0.1	+	0.1	0.1	0.3	1.9	0.3
30	+	0.1	+	0.3	0.1	0.1	+	0.1	0.1	0.3	1.6	0.1
31	+	+	+	0.1	0.1	0.1	0.1	0.1	0.1	0.6	1.0	0.1
MEAN	0.1	0.2	0.2	0.1	1.2	0.7	0.2	0.2	0.1	0.3	0.6	1.4
ACRE- FEET	5.1	10.9	13.5	8.3	68.2	42	11.9	13.7	8.7	21.2	36.7	85.7

YEAR OR PERIOD \_\_\_\_\_ MEAN ACRE-FEET \_\_\_\_\_ 0.4  
326

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F329-R

DAILY DISCHARGE in second-feet of BRADBURY CHANNEL BELOW CENTRAL AVE.

FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.1	0.3	0.1	1.8	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
2	0.1	0.1	0.3	10.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
3	0.1	0.1	0.1	8.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.1
4	0.1	0.1	0.6	1.0	0.1	0.1	0.1	0.1	0.3	0.3	0.1	0.1
5	0.1	0.1	1.0	6.0	0.1	0.1	0.1	+	0.1	0.3	0.3	0.1
6	0.1	0.1	1.0	2.8	0.3	0.1	0.1	+	0.1	0.3	0.3	0.1
7	0.1	0.1	0.6	2.1	0.3	0.1	0.1	0.1	0.3	0.3	0.6	0.1
8	0.1	0.1	0.3	1.0	0.1	0.1	0.1	26.4	0.1	0.1	0.6	0.1
9	1.0	0.1	0.1	1.0	0.1	0.1	0.1	11.6	0.1	0.1	0.1	0.1
10	1.5	0.1	0.6	0.6	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
11	0.6	0.1	0.6	0.6	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.3
12	1.0	4.2	0.3	0.6	0.1	0.1	0.1	0.3	0.1	0.1	0.3	0.3
13	1.0	0.3	0.3	0.6	0.1	0.1	0.1	0.3	0.1	0.1	0.3	0.1
14	0.6	0.3	0.3	0.3	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.3
15	0.3	0.1	0.3	0.6	0.1	0.1	0.1	0.6	0.1	0.3	0.3	0.1
16	0.1	0.1	0.6	0.6	0.1	2.8	0.1	0.6	0.1	0.3	0.6	0.1
17	0.1	0.3	0.6	0.6	0.1	0.1	0.1	0.3	0.1	0.3	12.2	0.1
18	0.1	0.1	1.0	0.6	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1
19	0.1	0.1	1.5	0.6	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.1
20	0.6	0.1	0.6	0.6	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1
21	0.1	0.1	0.1	0.6	0.1	0.1	0.1	0.1	0.1	0.1	0.6	0.1
22	1.1	0.1	0.6	0.6	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1
23	6.5	0.1	0.6	0.6	0.6	0.1	0.1	0.6	0.1	0.1	0.1	0.1
24	1.0	0.1	1.0	0.3	1.1	0.1	0.1	0.3	0.1	0.1	0.1	0.1
25	1.0	0.1	1.0	0.6	0.1	3.7	0.1	0.1	0.1	0.1	0.1	0.1
26	1.0	0.1	1.0	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
27	0.6	0.3	0.6	0.6	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1
28	0.6	0.1	1.0	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.6	0.1
29	0.3	0.1	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1
30	0.3	0.1	2.8	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.3
31	0.6	0.1	2.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
MEAN	0.7	0.3	0.7	1.4	0.2	0.3	0.1	1.4	0.1	0.2	0.6	0.1
ACRE- FEET	41.4	16.1	44.6	88.9	9.3	18.6	6.0	85.5	6.3	9.7	39.5	7.9

YEAR OR PERIOD MEAN ACRE-FEET 0.5 374

STATION DATA SUMMARY

STA NO. F329-R  
BRADBURY CHANNEL BELOW CENTRAL AVENUE

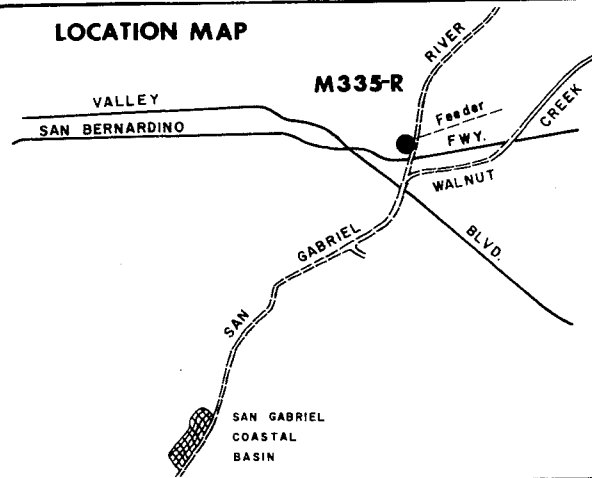
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW		
					MON	DAY	CFS
1957-58	7.3	0	0.2	170	2	19	65
1958-59	29	0	0.3	182	1	6	1250
1959-60	5.2	0	0.1	59	12	24	40
1960-61	4.5	0	0.0	30	11	3	60
1961-62	50	0	0.7	518	1	20	316
1962-63	9.4	0	0.2	120	2	9	23.6
1963-64	5.6	0	0.2	114	1	22	168
1964-65	11	0	0.2	157	4	9	248
1965-66	46	0	0.6	448	12	29	552
1966-67	52	0	0.7	547	1	24	280
1967-68	30	0	0.4	319	3	8	370
1968-69	131	0	2.6	938	2	6	472
1969-70	47	0	0.6	408	3	1	267
1970-71	20	0	0.4	261	12	21	130
1971-72	24	0	0.2	172	12	24	145
1972-73	61	0	1.2	438	2	27	424
1973-74	39	0	0.8	609	1	7	111
1974-75	28	0	0.4	268	12	4	325
1975-76	14	+	0.4	326	9	11	210
1976-77	26.4	+	0.5	373.8	10	23	166



**STATION NO. M335-R  
SAN GABRIEL-MWD OUTLET  
BELOW RAMONA BOULEVARD**



**LOCATION MAP**



LOCATION: Lat. 34°04'34", Long. 117°59'56" on outlet of The Metropolitan Water Department's middle feeder, near the left (east) bank of the river, about 400 feet south of Ramona Blvd. and 350 feet west of Rivergrade Road.

CHANNEL AND CONTROL: A 73-inch diameter orifice plate.

DISCHARGE MEASUREMENTS: All flows measured by orifice meter with totalizer beginning December 21, 1960.

RECORDER: A weekly Venturi recorder.

RECORDS AVAILABLE: At Station F 335-R, November 30, 1957 to April 13, 1960; at Station M335-R, December 17, 1960 to present.

OPERATION: Located, constructed and operated by The Metropolitan Water District in cooperation with the Los Angeles County Flood Control District. This station is operated solely for the purpose of measuring the delivery of Colorado River water by The Metropolitan Water District to the San Gabriel River.

**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. M335-R

DAILY DISCHARGE in second-feet of SAN GABRIEL - M.W.D. OUTLET BELOW SAN BERNADINO RD. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	38.5	0	0	0	0	0	0	0	0	0	0	0
2	104	0	0	0	0	0	0	0	0	0	0	0
3	101	0	0	0	0	0	0	0	0	0	0	0
4	102	0	0	0	0	0	0	0	0	0	0	0
5	103	0	0	0	0	0	0	0	0	0	0	0
6	102	0	0	0	0	0	0	0	0	0	0	0
7	100	0	0	0	0	0	0	0	0	0	0	0
8	110	0	0	0	0	0	0	0	0	0	0	0
9	120	0	0	0	0	0	0	0	0	0	0	0
10	115	0	0	0	0	0	0	0	0	0	0	0
11	100	0	0	0	0	0	0	0	0	0	0	0
12	100	0	0	0	0	0	0	0	0	0	0	0
13	102	0	0	0	0	0	0	0	0	0	0	0
14	102	0	0	0	0	0	0	0	0	0	0	0
15	100	0	0	0	0	0	0	0	0	0	0	0
16	90	0	0	0	0	0	0	0	0	0	0	0
17	64	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	0
31	0	0	0	0	0	0	0	0	0	0	0	0

MEAN	53.3	0	0	0	0	0	0	0	0	0	0	0
ACRE- FEET	3,280	0	0	0	0	0	0	0	0	0	0	0

YEAR OR PERIOD MEAN ACRE-FEET 4.4  
3,280

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. M335-R

DAILY DISCHARGE in second-feet of SAN GABRIEL - M.W.D. OUTLET BELOW SAN BERNADINO RD. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	0	0	153	0	0	0	0	0	0	0
2	0	0	0	0	154	0	0	0	0	0	0	0
3	0	0	0	0	154	0	0	0	0	0	0	0
4	0	0	0	0	154	0	0	0	0	0	0	0
5	0	0	0	0	154	0	0	0	0	0	0	0
6	0	0	0	0	157	0	0	0	0	0	0	0
7	0	0	0	0	161	0	0	0	0	0	0	0
8	0	0	0	0	159	0	0	0	0	0	0	0
9	0	0	0	0	159	0	0	0	0	0	0	0
10	0	0	0	25	159	0	0	0	0	0	0	0
11	0	0	0	116	159	0	0	0	0	0	0	0
12	0	0	0	103	159	0	0	0	0	0	0	0
13	0	0	0	103	159	0	0	0	0	0	0	0
14	0	0	0	103	159	0	0	0	0	0	0	0
15	0	0	0	104	160	0	0	0	0	0	0	0
16	0	0	0	105	160	0	0	0	0	0	0	0
17	0	0	0	106	160	0	0	0	0	0	0	0
18	0	0	0	135	160	0	0	0	0	0	0	0
19	0	0	0	152	160	0	0	0	0	0	0	0
20	0	0	0	132	160	0	0	0	0	0	0	0
21	0	0	0	56	160	0	0	0	0	0	0	0
22	0	0	0	149	160	0	0	0	0	0	0	0
23	0	0	0	149	77	0	0	0	0	0	0	0
24	0	0	0	147	0	0	0	0	0	0	0	0
25	0	0	0	155	0	0	0	0	0	0	0	0
26	0	0	0	157	0	0	0	0	0	0	0	0
27	0	0	0	150	0	0	0	0	0	0	0	0
28	0	0	0	150	0	0	0	0	0	0	0	0
29	0	0	0	151	0	0	0	0	0	0	0	0
30	0	0	0	151	0	0	0	0	0	0	0	0
31	0	0	0	153	0	0	0	0	0	0	0	0

MEAN	0	0	0	88.8	127	0	0	0	0	0	0	0
ACRE- FEET	0	0	0	5,460	7,060	0	0	0	0	0	0	0

YEAR OR PERIOD \_\_\_\_\_ MEAN ACRE- FEET 18  
12,520

STATION DATA SUMMARY

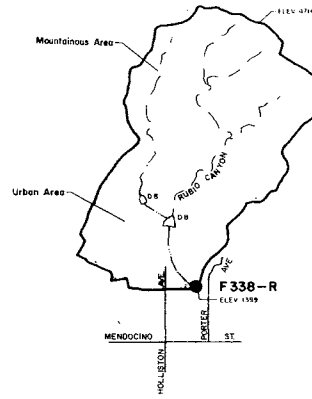
STA. NO. M335-R  
SAN GABRIEL RIVER - MWD OUTLET BELOW RAMONA ROAD

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	ANNUAL TOTAL A.F.
1957-58	210	0	57.2	41400
1958-59	213	0	41.9	30320
1959-60	246	0	59.5	43190
1960-61	347	0	93.5	67680
1961-62	337	0	186	134510
1962-63	305	0	82.7	59850
1963-64	316	0	81.2	58970
1964-65	344	0	145	104860
1965-66	349	0	101	72830
1966-67	291	0	93.4	67610
1967-68	131	0	50.9	36940
1968-69	190	0	29.5	19990
1969-70	0	0	0	0
1970-71	0	0	0	0
1971-72	0	0	0	0
1972-73	234	0	12.5	9050
1973-74	253	0	24.7	17860
1974-75	18	0	*	35
1975-76	120	0	4.4	3280
1976-77	161	0	17.3	12514

**STATION NO. F338-R  
RUBIO DIVERSION CHANNEL  
below Gooseberry Inlet**

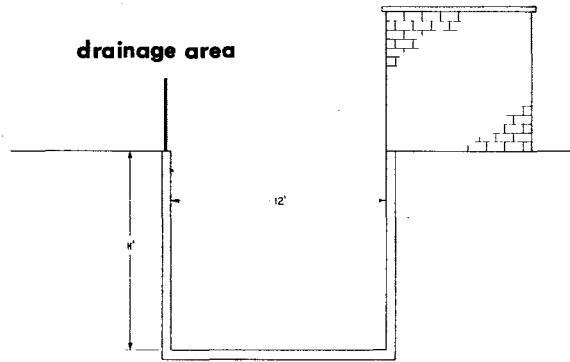


**drainage area**



RECORDER - 15 minute punched tape  
 METHOD OF MEASUREMENTS - low flows measured by wading. High flows measured from steel footbridge 27 feet above station.  
 DRAINAGE AREA - 2.1 square miles  
 LOCATION - on the north bank, 375 feet upstream of Crest Drive, three and one-half miles northeast of Pasadena.  
 REGULATION - flow partially regulated by Rubio and Gooseberry Debris Basins.  
 DIVERSIONS - Rubio Canyon Land and Water Association diverts low flows in Rubio Canyon.  
 CHANNEL - rectangular concrete, 12 feet wide and 11 feet deep.  
 CONTROL - channel forms control  
 LENGTH OF RECORD - December 16, 1959 to date

**drainage area**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F338-R

DAILY DISCHARGE in second-feet of RUBIO DIV. CH. BELOW GOOSEBERRY CANYON INLET FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.2	0.2	0.4	0.6	0.2	5.8	0.6	0.6	0.6	0.4	0.4	0.2
2	0.2	0.2	0.2	0.4	0	1.5	0.6	0.6	0.6	0.4	0.4	0.2
3	0.2	0	0.2	0.4	0	2.0	0.8	0.6	0.6	0.4	0.6	0.4
4	0.2	0	0	0.4	1.0	1.8	1.0	0.6	0.6	0.4	0.6	0.6
5	0.2	0.2	0	0.2	1.6	1.4	0.6	1.2	0.6	0.4	0.4	1.1
6	0.4	0.2	0.2	0.2	1.6	1.0	0.6	1.2	0.6	0.6	0.4	1.2
7	0.6	0.2	0.2	0.2	1.4	1.0	0.6	1.0	0.6	0.6	0.2	0.6
8	0.2	0.2	0.2	0.2	1.8	0.8	1.0	0.8	0.6	0.4	0.2	0.4
9	0.2	0.2	0.2	0.2	5.4	0.8	0.6	0.8	0.6	0.4	0.2	0.4
10	0.2	0.2	0.2	0.2	1.6	1.0	0.6	0.6	1.0	0.4	0.2	11.7
11	0.8	0	0.2	0.2	0.8	0.8	0.6	0.6	0.6	0.4	0.2	12.6
12	0.2	0.2	1.5	0.2	0.8	0.8	1.0	0.6	0.6	0.4	0.2	1.8
13	0.2	0	0.4	0.2	0.8	0.8	1.6	0.6	0.6	0.4	0.2	1.2
14	0.2	0.2	0.2	0.2	1.0	0.8	0.6	0.6	0.6	0.4	0.2	0.8
15	0.2	0.2	0.2	0	0.6	0.8	0.8	0.6	0.6	0.6	1.0	1.4
16	0.2	0.2	0.2	0.2	0.6	0.8	0.8	0.6	0.4	0.4	0.6	1.2
17	0.2	0.2	0.2	0.2	0.6	0.8	0.6	0.6	0.6	0.4	0.6	1.0
18	0.2	0	0.2	0.2	0.6	0.8	0.6	0.6	0.6	0.6	0.4	0.8
19	0.2	0.2	0.2	0.2	0.6	0.8	0.8	0.6	0.4	0.6	0.4	0.8
20	0.2	0.2	0.2	0.2	0.6	0.8	0.8	0.6	0.6	0.4	0.4	0.8
21	0.2	0.2	0.2	0.4	0.6	0.8	0.6	0.6	0.6	0.4	0.4	0.8
22	0.2	0.2	0.2	0.2	0.6	0.8	0.8	0.4	0.4	0.4	0.4	0.8
23	0.2	0.2	0.2	0.2	0.6	0.8	0.6	0.6	0.4	0.4	0.4	0.8
24	0.2	0.2	0.2	0.4	0.6	0.6	0.6	0.4	0.6	0.4	0.6	0.8
25	0.4	0.2	0.2	0.4	0.6	0.6	0.6	0.4	0.4	0.4	0.6	0.8
26	0.2	0.2	0.2	0.2	0.6	0.6	0.6	0.4	0.4	0.6	0.6	0.8
27	0.2	0.2	0.2	0.2	0.6	0.6	0.6	0.6	0.4	0.4	0.6	0.6
28	0.2	0.2	0.2	0.2	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.6
29	0.2	0.2	0.2	0.2	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.6
30	0.4	0.2	0.2	0.2	0.6	0.6	0.6	0.4	0.4	0.4	0.2	0.6
31	0.2	0.2	0.4	0.2	0.6	0.6	0.6	0.6	0.4	0.4	0.2	0.6
MEAN	0.2	0.2	0.2	0.2	0.9	1.0	0.7	0.6	0.5	0.4	0.4	1.5
PK FRT	15.5	9.9	15.3	15.1	53.5	64.2	42.4	38.1	32.5	27	25	92

YEAR OR PERIOD \_\_\_\_\_ MEAN ACRE-FEET \_\_\_\_\_ 0.6  
431

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F338-R

DAILY DISCHARGE in second-feet of RUBIO DIV. CH. BELOW GOOSEBERRY CANYON INLET FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.6	0	0.3	0.4	0.6	0.6	0.6	0.4	0.6	0.4	0.4	0.4
2	0.6	0	0.5	2.3	0.6	0.8	0.6	0.4	0.6	0.4	0.4	0.4
3	0.6	0	0.4	3.4	0.6	0.6	0.4	0.4	0.6	0.4	0.4	0.4
4	0.6	0	0.4	0.6	0.6	0.6	0.6	0.4	0.6	0.4	0.4	0.4
5	0.6	0	0.4	1.4	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.4
6	0.6	0	0.4	2.0	0.6	0.6	0.8	0.4	0.6	0.6	0.4	0.4
7	0.6	0	0.4	4.3	0.6	0.4	0.6	0.4	0.6	0.4	0.4	0.4
8	0.4	0	0.4	1.2	0.6	0.4	0.6	2.0	0.6	0.4	0.4	0.4
9	0.4	0	0.4	1.0	0.6	0.4	0.6	4.8	1.0	0.4	0.4	0.4
10	0.4	0	0.4	0.8	0.6	0.4	0.6	1.4	0.6	0.4	0.4	0.4
11	0.4	0.6	0.4	0.8	0.6	0.4	0.4	1.0	0.6	0.4	0.4	0.4
12	0.4	0.9	0.4	0.8	0.6	0.4	0.4	1.2	0.6	0.4	0.4	0.4
13	0.6	0	0.4	0.8	0.6	0.4	0.6	0.8	0.6	0.4	0.4	0.4
14	0.6	0	0.4	0.8	0.6	0.4	0.6	0.8	0.6	0.4	0.4	0.4
15	0.6	0	0.3	0.8	0.6	0.4	0.4	0.8	0.4	0.4	0.4	0.4
16	0.4	0	0.3	0.8	0.6	1.2	0.4	1.0	0.4	0.4	0.4	0.4
17	0.4	0	0.4	0.8	0.6	0.6	0.4	0.8	0.4	0.4	1.4	0.4
18	0.4	0	0.6	0.8	0.6	0.6	0.4	0.8	0.4	0.4	0.6	0.4
19	0.4	0	0.4	0.8	0.6	0.6	0.4	0.8	0.4	0.6	0.4	0.4
20	0.4	0	0.6	1.2	0.6	0.6	0.4	0.8	0.4	0.4	0.4	0.4
21	0.4	0	0.3	1.0	0.6	0.6	0.4	0.8	0.4	0.4	0.4	0.4
22	0.4	0	0.3	0.8	0.4	0.6	0.4	0.6	0.4	0.4	0.4	0.4
23	0.6	0	0.2	0.8	1.0	0.6	0.4	1.0	0.4	0.4	0.4	0.4
24	0.4	0	0.2	0.8	0.8	1.0	0.4	1.0	0.4	0.4	0.4	0.4
25	0.4	0	0.4	0.8	0.6	1.6	0.4	0.8	0.4	0.4	0.4	0.4
26	0.2	0	0.3	0.8	0.6	0.6	0.4	0.8	0.4	0.4	0.4	0.4
27	0	+	0.4	0.6	0.6	0.6	0.4	0.6	0.4	0.4	0.4	0.4
28	0	0	0.4	0.6	0.6	0.6	0.4	0.6	0.4	0.4	0.4	0.4
29	0	0	0.4	0.6	0.6	0.6	0.4	0.8	0.4	0.4	0.4	0.4
30	0	0	1.1	0.6	0.6	0.6	0.4	0.6	0.4	0.4	0.4	0.4
31	0	0	0.9	0.6	0.6	0.8	0.6	0.6	0.4	0.4	0.4	0.4

MEAN ACRE- FEET	0.4	+	0.4	1.1	0.6	0.6	0.5	0.9	0.5	0.4	0.4	0.4
	24.6	3.0	26	67	34.1	38.1	28.6	55.9	30.1	25.8	27	23.8

YEAR OR PERIOD MEAN ACRE-FEET 0.5  
384

STATION DATA SUMMARY

STA NO. F338-R  
RUBIO DIVERSION CHANNEL BELOW GOOSEBERRY INLET

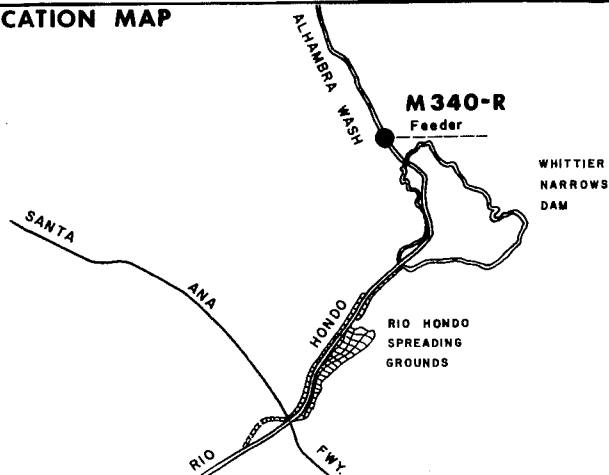
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW		
					MON	DAY	CFS
1959-60	0.8	0	0.0	8.8	1	11	8.6
1960-61	0.8	0	0.0	6.0	1	26	5.4
1961-62	7.9	0	0.1	62	2	11	22
1962-63	2.6	0	0.0	20	2	10	32
1963-64	0.8	0	0.0	14	1	21	7.9
1964-65	1.0	0	0.0	30	11	7	21
1965-66	19.3	0	0.3	206	12	29	63
1966-67	12.5	0	0.2	127	1	22	43
1967-68	18.2	0	0.2	112	11	19	267
1968-69	254	0	4.2	3050	1	25	880
1969-70	11.7	0	0.4	272	2	28	146
1970-71	36	0	0.6	413	11	29	266
1971-72	M	M	M	M			M
1972-73	58	+	1.5	1098	1	18	114
1973-74	22.6	+	2.8	1994	11	19	76
1974-75	11	+	0.9	627	3	6	85
1975-76	13	0	0.6	431	2	7	88
1976-77	4.9	0	0.53	384	5	9	47

+ = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0  
M = DATA MISSING

**STATION NO. M340-R  
ALHAMBRA WASH  
near Rush Street**



**LOCATION MAP**



LOCATION: Lat. 34° 03' 06", Long. 118° 04' 59", on The Metropolitan Water District middle feeder outlet to Alhambra Wash and on the left (east) side of the channel, 300± feet north of Rush Street, South San Gabriel.

RECORDER: Continuous totalizing recorder with Venturi control.

REGULATION AND DIVERSION: Regulation - Entirely regulated by a gated outlet on The Metropolitan Water District middle feeder.

RECORDS AVAILABLE: March 28, 1958 to present.

OPERATION: Located, constructed, and operated by The Metropolitan Water District in cooperation with the Los Angeles County Flood Control District.

MONTHLY DISCHARGE IN ACRE FEET: Amounts are as of midnight on the last day of the month. Approximate mean daily flows are available at the District office.

**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. M340-R

DAILY DISCHARGE in second-feet of ALHAMBRA WASH - M.W.D. OUTLET ABOVE RUSH ST. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
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	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	3.1	0	0	0
24	0	0	0	0	0	0	0	0	18.9	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	0	0	0

MEAN	0	0	0	0	0	0	0	0	0.7	0	0	0
ACRE- FEET	0	0	0	0	0	0	0	0	43.6	0	0	0

YEAR OR PERIOD MEAN ACRE-FEET 0.1 43.6

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. M340-R

DAILY DISCHARGE in second-feet of ALHAMBRA WASH - M.W.D. OUTLET ABOVE RUSH ST. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	0	0	143	10	0	0	0	0	0	0
2	0	0	0	0	143	14	0	0	0	0	0	0
3	0	0	0	0	143	0	0	0	0	0	0	0
4	0	0	0	0	143	0	0	0	0	0	0	0
5	0	0	0	0	143	0	0	0	0	0	0	0
6	0	0	0	0	140	0	0	0	0	0	0	0
7	0	0	0	0	135	0	0	0	0	0	0	0
8	0	0	0	0	136	0	0	0	0	0	0	0
9	0	0	0	0	137	0	0	0	0	0	0	0
10	0	0	0	45	139	0	0	0	0	0	0	0
11	0	0	0	143	139	0	0	0	0	0	0	0
12	0	0	0	143	139	0	0	0	0	0	0	0
13	0	0	0	143	139	0	0	0	0	0	0	0
14	0	0	0	143	139	0	0	0	0	0	0	0
15	0	0	0	143	135	0	0	0	0	0	0	0
16	0	0	0	142	139	0	0	0	0	0	0	0
17	0	0	0	142	138	0	0	0	0	0	0	0
18	0	0	0	143	139	0	0	0	0	0	0	0
19	0	0	0	141	139	0	0	0	0	0	0	0
20	0	0	0	153	139	0	0	0	0	0	0	0
21	0	0	0	177	139	0	0	0	0	0	0	0
22	0	0	0	146	131	0	0	0	0	0	0	0
23	0	0	0	146	172	0	0	0	0	0	0	0
24	0	0	0	146	209	0	0	0	0	0	0	0
25	0	0	0	144	209	0	0	0	0	0	0	0
26	0	0	0	139	209	0	0	0	0	0	0	0
27	0	0	0	143	209	0	0	0	0	0	0	0
28	0	0	0	143	133	0	0	0	0	0	0	0
29	0	0	0	143		0	0	0	0	0	0	0
30	0	0	0	143		0	0	0	0	0	0	0
31	0	0	0	143		0	0	0	0	0	0	0

MEAN	0	0	0	99.8	149	0.8	0	0	0	0	0	0
ACRE- FEET	0	0	0	6,140	8,330	48	0	0	0	0	0	0

YEAR OR PERIOD \_\_\_\_\_ MEAN ACRE-FEET 20.9  
14,520

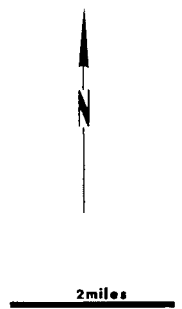
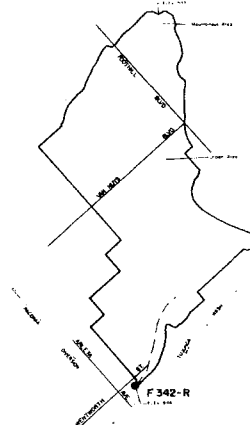
STATION DATA SUMMARY

STA. NO. M340-R  
ALHAMBRA WASH - MWD OUTLET NEAR RUSH STREET

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	ANNUAL TOTAL A.F.
1957-58	275	0	87.7	63510
1958-59	259	0	33.3	24090
1959-60	248	0	54.5	39540
1960-61	246	0	37.0	70170
1961-62	243	0	102	73810
1962-63	189	0	28.1	20320
1963-64	235	0	53.3	45920
1964-65	232	0	91.8	66480
1965-66	240	0	85.8	62110
1966-67	225	0	63.9	46260
1967-68	232	0	91.6	66520
1968-69	217	0	17.2	12470
1969-70	198	0	35.6	25800
1970-71	180	0	24.1	17430
1971-72	0	0	0	0
1972-73	200	0	6.2	4520
1973-74	1.6	0	*	3
1974-75	19	0	0.1	68
1975-76	19	0	0.1	43.6
1976-77	209	0	20	14511

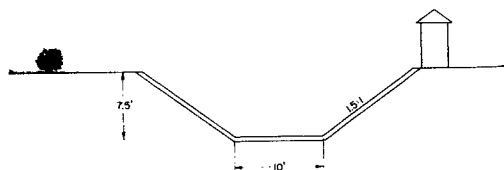
**STATION NO. F 342-R  
BRANFORD STREET CHANNEL  
below Sharp Avenue**

drainage area



RECORDER - 15 minute punched tape  
 METHOD OF MEASUREMENTS - low flows measured by wading. High flows measured by floats.  
 DRAINAGE AREA - 5.01 square miles  
 LOCATION - on the south bank of channel, 125 feet downstream from Sharp Avenue, about 3.6 miles south of San Fernando.  
 REGULATION - flow from Lopez Creek is diverted to Hansen Dam at the mouth of Lopez Canyon.  
 CHANNEL - trapezoidal, 10 feet wide at bottom and 7.5 feet deep with 1 1/2 to 1 side slopes.  
 CONTROL - channel from control  
 LENGTH OF RECORD - January 12, 1962 to date

cross section



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F342-R

DAILY DISCHARGE in second-feet of BRANFORD STREET CHANNEL BELOW SHARP AVE.

FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.3	0.1	0.1	0	0	13.9	0	0	0.2	0.2	0.1	0.3
2	0.1	0	0.1	0	0.1	11.6	0	0	0.2	0.2	0.2	0.1
3	0.2	0	0.1	0.1	0	0	6.0	0	0.2	0.2	0.1	0.2
4	0.3	0.1	0.1	0.1	4.0	0	0.8	0	0.2	0.1	0.2	0.1
5	0.2	0	0	0.1	8.6	0	0	0	0.1	0.1	0.2	23.1
6	0.3	0	0.2	0.1	20.8	0	0	0.5	0.1	0.2	0.3	0.2
7	0.3	0	0.1	0	11.9	0	0	0	0.2	0.4	0.2	0.2
8	0.3	0.1	0.2	0	13.8	0	1.0	0	0	0.3	0.2	0.1
9	0.1	1.1	0.1	0	37.2	0	0	0	0.2	0.3	0.4	0.2
10	0.1	0	0.1	0.2	0.3	0	0	0	0.9	0.2	0.3	61.2
11	2.9	0	0.1	0	0	0	0	0	0	0.1	0.2	8.0
12	0	0	6.7	0.1	0.1	0	3.4	0	0.1	0.3	0.2	0
13	0	0	0.1	0.1	0	0	2.1	0	0	0.2	0.2	0
14	0	0	0	0.1	0	0	0	0	0.2	0.3	0.1	0
15	0.1	0.1	0	0.2	0	0	0.7	0	0.2	0.2	2.4	0.5
16	0.1	0	0	0.1	0	0	0	0	0.3	0.3	0.2	0
17	0.2	0	0	0.2	0	0	0	0	0.2	0.2	0.1	0
18	0.1	0	0	0	0	0	0	0	0.2	0.1	0.3	0
19	0	0	0	0	0	0	0	0	0.2	0.2	0.2	0
20	0.1	0	0.1	0	0	0	0	0	0.1	0.2	0.2	0
21	0.1	0	0	0.2	0.1	0	0	0	0.2	0.3	0.2	0.1
22	0.1	0	0	0.1	0	0	0	0	0.1	0.3	0	0.1
23	0	0	0	0.2	0	0	0	0	0.3	0.2	0.2	0.1
24	0	0	0	0.2	0	0	0	0	0.3	0.2	0.1	0.2
25	0.1	0.2	0	0.1	0	0	0	0	0.3	0.1	0.2	0.2
26	0	0.1	0	0	0.1	0	0	0	0.2	0.3	0.1	0
27	0.1	0	0.1	0	0	0	0	0	0.1	0.3	0.1	0.1
28	0	0	0	0	0.1	0	0	0	0.3	0.9	0.1	0.1
29	0	0.1	0.1	0.1	0	0	0	0	0.9	0.9	0.1	0.2
30	2.8	0	0.1	0.1	0	0	0	0	0.2	0.5	0.2	0
31	0.1	0	0.1	0.2	0	0	0	0	0.2	0.5	0.2	0

MEAN	0.3	0.1	0.3	0.1	3.4	0.8	0.5	+	0.2	0.3	0.2	3.2
ACRE-FOOT	17.8	3.8	16.9	5.2	193	50.6	27.8	1.0	11.9	17.5	15.5	189

YEAR OR PERIOD MEAN ACRE-FEET 0.8 550

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F342-R

DAILY DISCHARGE in second-feet of BRANFORD STREET CHANNEL BELOW SHARP AVE. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0.1	0.1	0	+	+	+	0.1	+	+	+	+
2	0.1	0.1	+	12.1	0.1	0	+	+	+	+	+	+
3	0	0.1	+	30.1	+	+	+	+	+	0	+	+
4	0.1	0.1	+	+	+	+	+	+	+	0	+	+
5	0	0	+	+	+	+	+	+	+	+	+	+
6	0.1	0	+	12.3	0	0	+	+	+	+	+	+
7	0.1	0	+	0.1	+	+	+	1.5	+	0	+	+
8	0	0.1	+	0	+	+	+	66.9	+	0	+	+
9	0	0	+	0	+	+	+	43	+	+	+	+
10	0	0.2	+	+	+	0	+	+	0	+	0.1	+
11	0	0	+	0	+	+	+	0	0	+	0.1	+
12	0	12.7	+	0	0.1	+	+	0.2	0	+	0.2	+
13	0.1	1.0	+	0	+	+	+	0	0	+	0.1	+
14	0.1	0	0.1	0	+	+	+	0	0	+	+	+
15	0.1	0	+	0	+	+	+	0	0	+	+	+
16	0.1	0	+	0	+	16.6	+	+	0	+	1.4	+
17	0	0	+	0	+	+	+	+	0	+	57.7	+
18	0.1	0	+	+	+	0	+	+	0	+	0.2	+
19	0.1	0	+	+	+	+	+	0	0	+	0	+
20	0.1	0	+	1.7	+	0.1	+	0	0	+	+	+
21	1.3	0.1	+	0.1	+	+	+	+	0	+	+	+
22	3.3	0.1	0.1	0	0.1	+	+	+	0	+	+	+
23	9.6	0.1	+	+	0.5	+	+	+	+	+	0	+
24	0	0.1	0.1	0	+	3.0	+	2.1	0.1	+	+	+
25	0	0.1	0	+	0	21.6	+	+	+	+	+	+
26	0	0.1	+	+	0	+	+	0	+	+	+	+
27	0	0	0.1	+	0	0	+	0	+	+	+	+
28	0	0	0.1	+	+	0	+	+	+	+	+	+
29	0	0	0.1	0.1	+	0	+	+	+	+	+	+
30	0	0.1	15.6	+	+	+	+	0	0	+	+	+
31	0	0	0.3	+	+	+	+	+	+	+	+	+

MEAN	0.5	0.5	0.5	1.8	+	1.3	+	3.7	+	+	1.9	+
ACRE- FEET	30.3	29.7	32.9	112	1.6	81.9	+	226	0.2	+	119	+

YEAR OR PERIOD \_\_\_\_\_ MEAN ACRE-FEET \_\_\_\_\_ 0.8  
634

STATION DATA SUMMARY

STA. NO. F342-R  
BRANFORD STREET CHANNEL BELOW SHARP AVENUE

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW		
					MON	DAY	CFS
1961-62	118	0	1.0 *	743 *	2	19	206
1962-63	46	0	0.6	415	4	26	284
1963-64	32	0	0.5	375	3	22	275
1964-65	56	0	0.8	571	4	9	261
1965-66	110	0	1.4	982	12	29	587
1966-67	79	0	1.2	870	11	7	445
1967-68	120	0	1.0	693	11	21	576
1968-69	160	0	3.0	2190	2	25	738
1969-70	65	0	1.0	724	2	9	462
1970-71	175 *	0	1.6 *	1162 *	11	29	990 *
1971-72	50	0	0.5	360	12	24	233
1972-73	50	0	2.1	1530	2	11	771
1973-74	90	0	1.0	710	1	7	412
1974-75	75	+	0.9	668	3	6	882
1975-76	61	0	0.8	550	9	10	742
1976-77	66.9	0	0.9	633	5	9	490

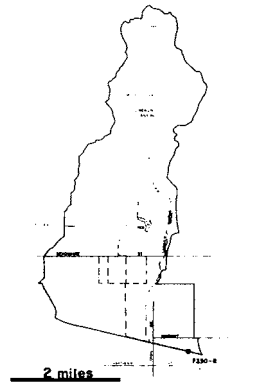
\* = RECORD INCOMPLETE



**STATION NO. F350-R  
LIMEKILN CREEK  
above Aliso Creek**

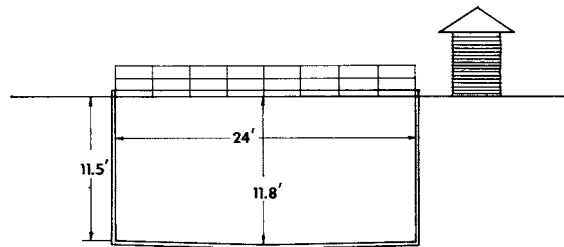


**drainage area**



RECORDER - 15 minute punched tape  
 METHOD OF MEASUREMENTS - low flows measured by wading. High flows measured from a steel footbridge 10 feet above the gage.  
 DRAINAGE AREA - 10.3 square miles  
 LOCATION - on the south bank, 1,600 feet above Aliso Creek and one mile west of Northridge.  
 REGULATION - flow partly regulated by Limekiln Debris Basin.  
 CHANNEL - rectangular concrete  
 LENGTH OF RECORD - see station summary

**cross-section**



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F350-R

DAILY DISCHARGE in second-feet of LIMEKILN CREEK ABOVE ALISO CREEK FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.3	0.1	+	+	0.1	24.2	A 0.1	A 0.1	0.2	0.4	0.2	0.6
2	0.4	0.1	0.1	+	0.1	13.6	A 0.1	A 0.1	0.2	0.3	0.2	0.6
3	0.4	0.1	0.1	+	+	0.1	A 0.1	A 0.1	0.2	0.2	0.2	0.6
4	0.4	0.1	+	+	2.4	+	A 16.8	A 0.1	0.1	0.2	0.2	0.5
5	0.4	0.1	0.1	+	5.3	+	A 0.2	A 0.2	0.1	0.1	0.2	5.5
6	0.3	0.1	0.1	+	20.4	+	A 0.1	A 0.2	0.1	0.1	0.2	0.5
7	0.2	0.1	+	+	26.3	+	A 0.1	A 2.8	0.1	0.1	0.2	0.1
8	0.2	+	+	+	28.1	+	A 0.4	A 0.2	0.1	0.2	0.2	0.1
9	0.2	+	0.1	+	56.3	+	A 0.2	A 0.2	0.1	0.2	0.2	0.1
10	0.2	+	0.1	0.1	3.7	0.2	A 0.2	A 0.2	8.1	0.2	0.2	47.1
11	2.5	+	+	0.1	+	+	A 0.2	A 0.2	0.1	0.2	0.2	12.9
12	0.4	+	3.8	+	+	0.1	A 0.4	A 0.2	0.1	0.2	0.2	0.1
13	0.3	+	0.3	+	+	0.1	A 3.4	A 0.2	0.1	0.2	0.1	+
14	0.2	+	0.1	0.1	+	0.1	A 0.2	A 0.2	0.1	0.2	0.1	+
15	0.1	0.1	+	+	+	+	A 0.2	A 0.2	0.2	0.1	0.1	6.0
16	0.1	+	+	+	+	0.1	A 0.1	0.1	0.1	0.2	0.1	+
17	0.1	+	0.1	0.2	+	0.1	A 0.1	0.2	0.1	0.2	0.1	+
18	0.1	+	0.1	0.1	+	0.1	A 0.1	0.2	0.1	0.2	0.1	0.1
19	0.1	+	+	+	+	0.1	A 0.1	0.2	0.2	0.2	0.2	0.1
20	0.1	+	0.1	+	+	+	A 0.1	0.2	0.2	0.3	0.2	0.2
21	0.1	+	+	+	+	A 0.1	A 0.1	0.1	0.2	0.3	0.2	+
22	0.1	0.1	+	0.1	+	A 0.1	A 0.1	0.2	0.2	0.2	0.2	0.1
23	+	+	+	0.1	+	A 0.1	A 0.1	0.1	0.1	0.2	0.2	0.1
24	0.1	0.1	0.1	0.1	+	A 0.1	A 0.1	0.2	0.1	0.2	0.2	0.1
25	0.2	0.1	+	0.1	0.1	A 0.1	A 0.1	0.2	0.2	0.2	0.3	0.1
26	0.1	0.2	+	0.1	0.1	A 0.1	A 0.1	0.2	0.3	0.5	0.3	0.1
27	0.1	0.1	0.1	+	0.1	A 0.1	A 0.1	0.2	0.4	0.3	0.2	0.1
28	0.1	+	0.1	0.1	0.1	A 0.1	A 0.1	0.2	0.5	0.2	0.3	0.1
29	0.1	+	0.1	0.1	0.1	A 0.1	A 0.1	0.2	0.4	0.1	0.4	0.8
30	2.6	+	0.1	0.1	0.1	A 0.1	A 0.1	0.2	0.4	0.1	0.5	0.5
31	0.2		0.1	0.1		A 0.1		0.1		0.1	0.5	
MEAN	0.3	+	0.2	+	4.9	1.3	0.8	0.2	0.4	0.2	0.4	2.4
ACRE- FEET	21.2	2.8	11.1	3.0	284	78.9	47	15.9	26.6	12.7	25.2	143

YEAR OR PERIOD \_\_\_\_\_ MEAN ACRE-FEET \_\_\_\_\_ 0.9 671

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F350-R

DAILY DISCHARGE in second-feet of LIMEKILN CREEK ABOVE ALISO CREEK FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.3	0.2	0.1	+	0.1	0.2	+	+	0.1	0.2	0.4	0.2
2	0.2	0.2	0.1	84.1	0.1	+	0.1	+	0.1	0.1	0.2	0.1
3	0.2	0.1	0.2	46.6	0.1	0.1	+	0.1	+	0.1	0.2	0.1
4	0.1	0.2	0.1	0.2	+	0.1	0.1	+	0.1	0.1	0.2	0.1
5	0.1	0.3	0.2	17.4	0.1	+	+	+	0.4	0.2	0.2	0.2
6	0.1	0.2	0.1	61.6	0.1	0.1	+	0.1	0.1	0.2	0.4	0.2
7	0.1	0.2	0.2	31.1	0.2	0.1	+	2.9	0.1	0.2	0.1	0.1
8	+	0.2	0.1	0.2	+	+	+	95.1	0.1	0.2	+	0.2
9	+	0.1	0.1	0.1	+	+	+	29.3	0.1	0.4	0.1	0.2
10	+	0.2	+	0.1	+	+	+	0.4	+	0.1	0.1	0.2
11	0.1	4.4	+	0.1	0.1	+	+	+	+	0.2	0.1	0.3
12	0.1	4.5	0.2	+	0.1	0.1	+	0.4	+	0.3	0.2	0.3
13	0.1	0.1	0.1	+	0.1	+	+	+	0.1	0.1	0.1	0.2
14	0.2	0.1	0.1	+	+	0.1	+	+	0.2	0.1	0.2	0.2
15	0.1	+	+	+	0.1	+	0.1	+	0.1	0.2	0.1	0.3
16	0.1	+	0.1	+	0.1	24.4	0.1	+	0.2	0.3	0.4	0.4
17	0.1	0.1	0.1	+	0.1	0.2	+	+	0.2	0.2	114	0.2
18	0.2	0.1	0.1	+	0.1	0.2	+	+	0.1	0.2	1.2	0.2
19	0.3	0.1	0.1	0.1	0.1	0.1	+	+	0.2	0.2	0.1	0.2
20	0.2	0.1	0.1	+	0.1	0.1	+	+	0.2	0.2	+	0.3
21	0.2	0.1	0.1	+	0.1	0.1	+	0.1	0.2	0.2	+	0.2
22	0.6	0.1	0.1	0.1	0.1	0.1	+	+	0.2	0.3	+	0.2
23	4.3	0.1	0.1	0.1	3.4	+	0.1	+	0.2	0.4	0.1	0.1
24	1.0	0.1	0.1	+	+	5.6	0.1	1.1	0.1	0.3	0.1	0.1
25	0.2	0.1	0.1	0.1	+	45.7	+	+	0.2	0.4	0.1	0.2
26	0.1	0.1	0.1	0.1	+	0.1	+	+	0.1	0.5	0.1	0.2
27	0.2	+	0.1	0.1	+	+	+	0.1	0.1	0.3	0.1	0.2
28	0.2	0.1	0.1	0.1	+	+	+	0.1	0.1	0.6	0.1	0.2
29	0.2	0.1	0.2	0.1	+	+	0.1	+	0.1	0.6	0.2	0.2
30	0.2	0.1	23.2	0.1	+	+	+	+	0.1	0.5	0.3	0.1
31	0.2		0.3	0.1	+	+	+	0.1		0.4	0.2	
MEAN	0.3	0.4	0.8	7.8	0.2	2.5	+	4.2	0.1	0.3	3.3	0.2
ACRE- FEET	19.8	24.4	52.7	481	10.3	154	1.4	257	7.5	16.5	237	11.7

YEAR OR PERIOD MEAN ACRE-FEET 1.7  
1,270

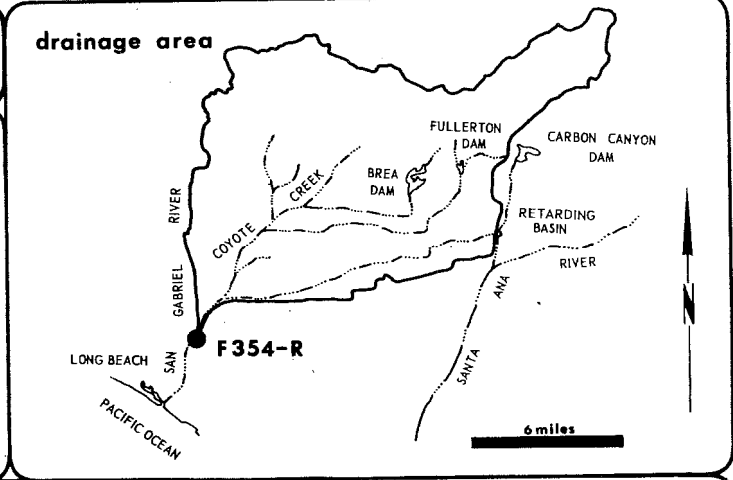
STATION DATA SUMMARY

STA. NO. F350-R  
LIMEKILN CREEK ABOVE ALISO CREEK

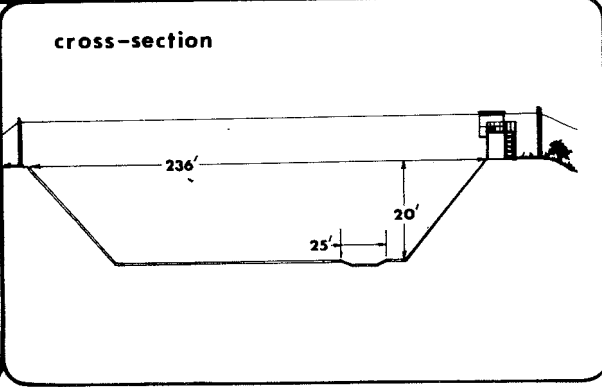
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK MON	FLOW DAY	CFS
1961-62 A	126	0	1.4 *	1000 *	2	19	584
1962-63	75	0	0.5	359	2	9	446
1963-64	22	0	0.4	293	3	31	328
1964-65	31	0	1.1	780	4	8	470
1965-66	194	+	2.5	1800	11	17	1860
1966-67	152	+	2.2	1560	1	22	1060
1967-68	195	+	1.8	1330	11	19	2100
1968-69			**	**	2	23	989
1969-70			**	**	2	28	956
1970-71			**	**	11	29	1058
1971-72			**	**	12	24	493
1972-73	157	+	2.9	2070	1	16	1267
1973-74	212	+	2.2	1582	1	7	621
1974-75	118	+	2.0	1440	3	5	1450
1975-76	56	+	0.9	571	2	8	502
1976-77	114	+	1.8	1273.6	1	2	2140

+ = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0  
\* = RECORD INCOMPLETE  
\*\* = RECORD NOT COMPUTED  
A = RECORD BEGAN AT F350-R DECEMBER 26, 1961. RECORDS ALSO AVAILABLE AT STATION F149-R, DEVONSHIRE STREET, NOVEMBER 9, 1939 TO DECEMBER 26, 1961. RECORDS FOR WATER YEARS 1956-61 WERE NOT COMPUTED BECAUSE OF EXTREME SILTING CONDITIONS.

**STATION NO. F 354 - R  
COYOTE CREEK  
below Spring Street**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading or from cable car  
 DRAINAGE AREA - 185.0 square miles  
 LOCATION - 241.0 feet below Spring Street, 7.5 miles northeast of Long Beach  
 REGULATION - partially regulated by Fullerton Dam, Brea Dam, and Carbon Canyon Dam  
 CHANNEL - concrete, trapezoidal in section  
 CONTROL - channel forms control  
 LENGTH OF RECORD - December 17, 1963, to date  
 REMARKS - previous gaging stations for record correlation:  
 Station F41-S, December 1, 1928, to January 14, 1930  
 Station F41-R, January 14, 1930, to October 30, 1936  
 Station F41B-R, October 30, 1936, to February 17, 1937  
 Station F41C-R, February 18, 1937, to February 8, 1956  
 Station F320-R, February 9, 1956, to July 2, 1965



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F354-R

DAILY DISCHARGE in second-feet of COYOTE CREEK BELOW SPRING ST. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	4.0	3.1	3.1	3.7	5.2	889	4.6	8.7	4.3	8.7	6.1	7.4
2	4.0	3.4	3.1	3.4	5.2	188	4.9	17.3	4.0	8.1	4.6	6.1
3	3.4	3.7	3.1	3.7	A 4.3	286	11.3	10.7	4.0	10.7	3.4	5.5
4	4.0	4.0	3.7	4.3	A 4.6	8.1	260	25.2	4.0	10	4.6	6.8
5	4.3	4.0	3.7	5.2	A 4.2	5.2	16	18.6	4.3	16	5.5	71.4
6	7.4	4.3	3.7	7.4	A 183	5.2	4.0	10	4.6	8.1	6.8	60.5
7	4.6	4.0	4.3	10.7	266	4.9	3.1	10	4.3	10	7.4	4.9
8	2.5	4.0	3.4	8.7	542	4.9	10.7	6.1	4.3	12	5.5	3.7
9	3.4	3.4	3.7	9.4	1,160	4.3	4.0	4.9	5.2	18.6	5.5	3.1
10	3.7	3.4	4.0	6.1	107	69.8	3.1	4.9	212	11.3	5.2	1,500
11	14.6	2.8	5.2	5.5	31.3	4.3	3.1	3.7	16	9.4	4.9	269
12	4.3	3.1	83.6	8.1	35.8	3.7	77.4	3.7	4.6	11.3	6.1	25.2
13	2.8	3.4	18.6	6.1	34.9	3.7	347	5.5	4.0	10.7	6.1	5.2
14	3.1	3.4	7.4	4.3	3.1	4.3	4.6	6.1	4.0	10.7	5.2	4.3
15	3.4	3.7	4.9	4.3	3.1	4.3	9.4	6.1	5.5	7.4	6.1	3.7
16	4.0	3.4	4.6	4.6	2.3	3.7	4.6	5.5	5.2	6.1	7.4	3.7
17	3.4	3.4	4.3	4.9	2.3	4.3	2.8	7.4	7.4	4.9	4.3	3.1
18	3.1	3.4	4.3	5.2	2.3	4.3	3.1	4.6	6.1	4.9	4.0	4.3
19	3.7	3.1	4.3	4.0	A 2.5	4.0	4.9	4.6	5.5	4.0	4.9	3.4
20	3.4	3.1	4.3	3.1	A 3.1	4.3	4.6	4.6	5.2	4.3	5.5	3.4
21	3.4	3.4	3.7	2.8	A 3.1	4.6	3.4	4.9	6.1	4.6	5.2	3.4
22	3.1	3.4	4.0	4.0	A 3.1	5.5	2.5	4.9	4.9	4.6	4.3	3.1
23	3.4	3.4	4.6	6.1	A 3.1	4.9	3.7	5.2	5.2	5.2	5.2	3.4
24	2.8	5.5	5.5	5.5	A 3.1	4.6	3.4	4.6	5.5	4.6	4.9	103
25	2.8	3.4	4.0	4.9	A 4.9	4.6	4.3	4.0	8.7	5.5	4.3	7.4
26	3.7	3.7	3.1	4.9	8.7	3.4	3.4	4.3	6.1	5.5	4.3	3.4
27	3.4	6.8	4.0	4.6	12	3.4	8.1	4.0	7.4	4.9	4.0	3.4
28	3.4	103	4.0	4.6	17.9	3.1	11.3	4.9	6.8	6.1	4.0	3.7
29	3.7	4.3	4.0	4.3	25.2	3.4	12	5.5	6.8	5.2	3.4	4.3
30	66	2.8	4.6	4.6		4.0	10.7	4.6	10	5.5	5.2	3.7
31	5.5		4.6	4.6		3.4		4.9		4.3	8.7	

MEAN	6.1	7.0	7.2	5.3	86.9	50	28.2	7.1	12.7	7.8	5.2	71.1
TOTAL	373	416	443	324	5,000	3,080	1,680	436	758	482	322	4,230

YEAR OR PERIOD MEAN ACRE-FEET 24.5  
17,540

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F354-R

DAILY DISCHARGE in second-feet of COYOTE CREEK BELOW SPRING ST.

FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	4.0	3.7	3.7	14.6	3.1	3.7	2.8	2.3	4.0	4.0	3.4	2.1
2	4.0	5.2	4.3	45	3.4	4.0	2.8	3.1	2.8	3.7	4.0	2.3
3	4.0	5.5	4.9	882	3.4	3.4	2.3	2.8	2.5	4.3	3.4	2.3
4	4.3	5.2	5.5	12	3.7	3.4	2.3	2.1	3.4	4.3	3.1	2.5
5	6.1	4.0	6.8	133	3.4	3.1	2.5	2.5	2.8	4.0	2.8	2.5
6	4.6	4.3	4.6	890	3.4	4.0	2.3	2.5	2.8	2.8	2.8	3.1
7	4.9	4.6	4.0	769	3.7	4.6	2.5	2.8	2.8	3.7	2.5	2.8
8	4.6	4.3	6.8	40.4	3.7	3.1	2.5	4,250	3.1	3.7	2.5	3.1
9	4.9	4.9	4.6	13.3	4.0	3.1	2.1	458	3.7	4.0	2.8	3.7
10	5.5	6.1	4.3	8.7	3.7	4.9	1.9	42.5	3.7	4.3	3.7	3.1
11	4.3	7.4	4.0	5.2	4.0	2.3	2.1	4.9	4.6	4.6	3.4	4.0
12	4.6	342	4.3	7.4	4.0	2.3	2.1	4.6	5.2	3.1	3.4	3.4
13	4.3	3.4	3.4	7.4	3.7	2.8	1.9	3.1	4.6	3.4	3.4	5.2
14	4.0	2.5	4.0	7.4	3.1	2.5	1.9	2.5	5.5	3.7	3.7	4.0
15	4.0	2.5	5.5	5.5	4.6	2.3	1.9	2.5	7.8	4.3	3.4	2.8
16	3.7	2.8	5.2	5.2	4.6	448	1.9	2.8	3.4	3.7	2.0	3.4
17	4.3	2.8	5.2	4.9	4.3	47.8	2.8	2.5	3.7	A	3.7	3.4
18	4.0	2.3	4.9	4.9	5.5	4.0	2.3	3.4	3.7	A	4.0	1,770
19	5.2	2.3	5.2	4.3	6.1	3.1	2.1	4.0	3.7	A	4.0	78.8
20	4.9	2.3	5.2	27.7	7.4	3.1	1.7	6.1	3.4	A	3.7	4.6
21	4.9	2.5	4.9	83.7	9.4	2.3	1.7	4.0	3.7	A	4.3	3.1
22	4.6	3.1	5.2	4.9	10	1.9	1.7	4.3	3.7	A	4.3	2.5
23	4.6	3.1	7.4	4.9	102	1.9	2.5	13.3	4.6	A	4.3	2.8
24	4.0	4.3	6.8	4.9	419	2.5	2.5	75.1	4.3	A	3.4	2.3
25	4.0	4.0	8.7	6.1	23.9	478	2.5	4.6	4.3	A	3.7	1.9
26	3.4	4.3	8.7	45.1	10.7	19.9	1.9	3.1	4.3	A	4.0	2.3
27	3.4	3.7	6.8	19.9	6.8	3.7	2.1	4.6	5.2	A	3.7	2.3
28	3.4	3.4	6.8	6.8	5.2	3.4	2.5	7.4	4.0	A	3.1	2.8
29	4.3	3.7	5.5	4.0		2.8	2.3	3.4	4.6	A	3.1	2.5
30	3.4	3.7	595	4.0		2.8	2.5	4.0	4.6	A	2.5	2.3
31	4.6		92.1	4.0		2.5		3.7		A	3.1	2.1

MEAN	4.3	15.1	27.2	101	23.9	34.7	2.2	159	4.0	3.8	63	3.0
ACRE- FEET	267	900	1,670	6,220	1,330	2,140	133	9,780	239	231	3,870	181

YEAR OR PERIOD MEAN ACRE-FEET 36.8  
26,960

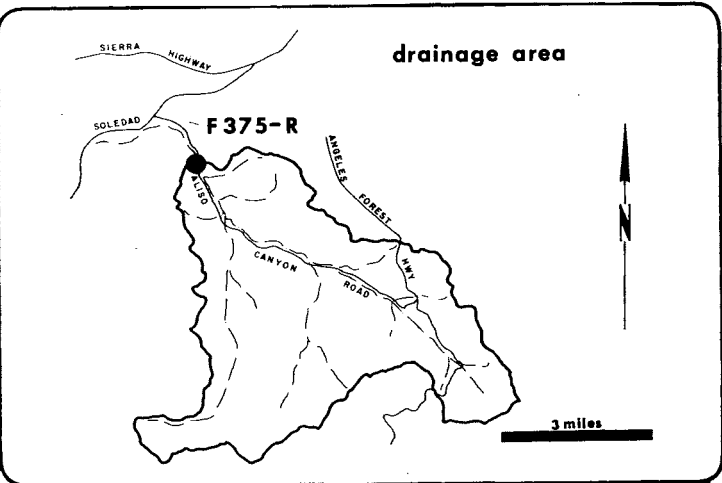
STATION DATA SUMMARY

STA. NO. F354-R  
COYOTE CREEK BELOW SPRING STREET

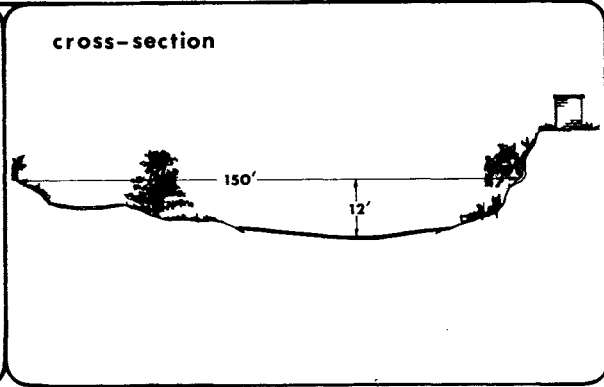
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK MCA	FLCW DAY	CFS
1963-64	1190	*	10.9	7950	11	15	N.D.
1964-65	800	0.3	16.9	12220	4	9	3350
1965-66	1830	1.2	32.5	23500	12	29	5020
1966-67	1840	1.4	37.9	27450	1	22	6880
1967-68	2350	1.6	26.8	19570	3	8	6570
1968-69	4420	3.1	86.8	64290	1	20	11300
1969-70	1000	2.5	23.0	16680	2	10	4600
1970-71	2320	1.4	32.9	23820	12	19	6200
1971-72	1770	*	*	*	12	27	6620*
1972-73	2350	3.3	60.4	43720	11	14	7810
1973-74	2410	2.3	38.3	27700	1	7	8670
1974-75	3130	2.3	36.9	26700	12	4	14400
1975-76	1500	2.3	24.5	17540	2	6	5430
1976-77	4250	1.7	37.5	27000	5	8	13400

\* = LESS THAN 0.05 ACRE FEET OR CFS, BUT GREATER THAN 0.  
N.D. = NOT DETERMINED  
\* = RECORD INCOMPLETE

**STATION NO. F 375 - R  
ALISO CREEK  
at Blum Ranch**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - wading  
 DRAINAGE AREA - 23.7 square miles  
 LOCATION - at Aliso Canyon road crossing, 2.0 miles east of Acton  
 REGULATION - none  
 CHANNEL - natural, rock, sand and gravel  
 CONTROL - asphalt covered, concrete dip crossing  
 LENGTH OF RECORD - January 20, 1966, to date



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F375-R

DAILY DISCHARGE in second-feet of ALISO CREEK AT BLUM RANCH

FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	0	0	0	+	0	0	0	0	0	0
2	0	0	0	0	0	+	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	A	0	0	0	0	0	0	0
5	0	0	0	0	A	0	0	0	0	0	0	+
6	0	0	0	0	A	0.3	0	0	0	0	0	0
7	0	0	0	0	A	0.4	0	+	0	0	0	0
8	0	0	0	0	A	0.4	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	3.2	+	0	0	0	0	0.2
11	0	0	0	0	+	0	0	0	0	0	0	+
12	0	0	A	+	0	0	0	0	0	0	0	0
13	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	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	+	0	0.2	+	+	+	0	0	0	+
ACR- FEET	0	0	+	0	12.5	+	+	+	0	0	0	0.4

YEAR OR PERIOD MEAN ACRE-FEET 12.9

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F375-R

DAILY DISCHARGE in second-feet of ALISO CREEK AT BLUM RANCH FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	A	0	0	0
3	0	0	0	D	0.2	0	0	0	A	0	0	0
4	0	0	0	D	0.1	0	0	0	A	0	0	0
5	0	0	0	+	0	0	0	0	A	0	0	0
6	0	0	0	D	0.1	0	0	0	A	0	0	0
7	0	0	0	0.2	0	0	0	0	A	0	0	0
8	0	0	0	+	0	0	0	0.5	A	0	0	0
9	0	0	0	0	0	0	0	7.5	A	0	0	0
10	0	0	0	0	0	0	0	2.1	A	0	0	0
11	0	0	0	0	0	0	0	0.2	A	0	0	0
12	0	+	0	0	0	0	0	0	A	0	0	0
13	0	0	0	0	0	0	0	0	A	0	0	0
14	0	0	0	0	0	0	0	0	A	0	0	0
15	0	0	0	0	0	0	0	0	A	0	0	0
16	0	0	0	0	0	+	0	0	A	0	0	0
17	0	0	0	0	0	0	0	0	A	0	+	0
18	0	0	0	0	0	0	0	0	A	0	0	0
19	0	0	0	0	0	0	0	0	A	0	0	0
20	0	0	0	+	0	0	0	0	A	0	0	0
21	0	0	0	0	0	0	0	0	A	0	0	0
22	0	0	0	0	0	0	0	0	A	0	0	0
23	0	0	0	0	0	0	0	0	A	0	0	0
24	0	0	0	0	0	0	0	0	A	0	0	0
25	0	0	0	0	0	D	0.1	0	A	0	0	0
26	0	0	0	0	0	0	0	0	A	0	0	0
27	0	0	0	0	0	0	0	0	A	0	0	0
28	0	0	0	0	0	0	0	0	A	0	0	0
29	0	0	0	0	0	0	0	0	A	0	0	0
30	0	0	0	0	0	0	0	0	A	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0

MAX	0	+	0	+	0	+	0	0.3	0	0	+	0
ACR- FEET	0	+	0	1.2	0	0.2	0	20	0	0	+	0

YEAR OR PERIOD \_\_\_\_\_ MEAN ACRE-FEET 21.4

STATION DATA SUMMARY

STA. NO. F375-R  
ALISO CREEK AT BLUM RANCH

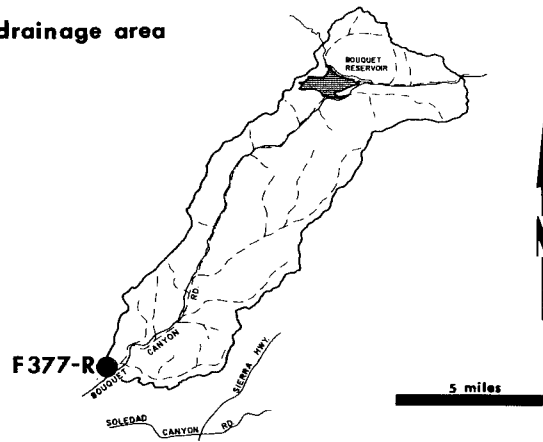
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK MON	FLOW DAY	FLOW CFS
1965-66	10	0	N.D.	N.D.	12	29	555
1966-67	88	0	3.3	2400	12	6	219
1967-68	25	0	0.7	481	11	19	116
1968-69	684	0	15.8	11410	1	25	2110
1969-70	43	0	1.2	834	3	2	105
1970-71	162	0	1.1	787	11	29	406
1971-72	20	0	0.2	148	12	24	54
1972-73	286	0	1.8	1320	2	11	704
1973-74	30	0	0.6	431	3	2	73
1974-75	13	0	0.3	190	3	8	30
1975-76	3.2	0	+	12.9	2	9	6.9
1976-77	7.5	0	0.03	21	5	9	14

N.D. = NOT DETERMINED

**STATION NO. F 377-R  
BOUQUET CANYON CREEK  
at Urbandale Avenue**



**drainage area**



RECORDER - continuous water stage  
METHOD OF MEASUREMENTS - wading or from bridge  
DRAINAGE AREA - 51.9 square miles  
LOCATION - Bouquet Canyon Creek at Urbandale Avenue,  
3.5 miles northeast of Saugus  
REGULATION - Bouquet Reservoir  
CHANNEL - concrete sides with natural bottom,  
trapezoidal in section  
CONTROL - concrete stabilizer  
LENGTH OF RECORD - October 11, 1967 to date

**cross-section**



**STATION OUT OF SERVICE FOR 1975-76**

**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO P 377-R

DAILY DISCHARGE IN SECOND-FEET OF Bouquet Canyon Creek at Urbandale Avenue FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 77

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1											0	0
2											0	0
3											0	0
4											0	0
5											0	0
6											0	0
7											0	0
8											0	0
9											0	0
10										NO RECORD	0	0
11											0	0
12											0	0
13											0	0
14											0	0
15											0	0
16	NO RECORD	NO RECORD	NO RECORD	NO RECORD	NO RECORD	NO RECORD	NO RECORD	NO RECORD	NO RECORD		3.8	0
17											0	0
18											0	0
19											0	0
20											0	0
21										0	0	0
22										0	0	0
23										0	0	0
24										0	0	0
25										0	0	0
26										0	0	0
27										0	0	0
28										0	0	0
29										0	0	0
30										0	0	0
31										0	0	0

MEAN	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	0	.12	0
ACRE- FEET	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	0	7.5	0

YEAR OR PERIOD MEAN ACRE-FEET Incomplete  
Incomplete

STATION DATA SUMMARY

STA. NO. F377-R  
BOUQUET CANYON CREEK AT URBANDALE AVENUE

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW	
					MCN	DAY CFS
1967-68	66	0	1.1	823	11	19 713
1968-69	528	0	3.4	2450	2	25 3256
1969-70	11	0	0.1	11	3	1 20
1970-71	30	0	2.2	1290	12	18 273
1971-72	36	0	0.7	499	12	27 101
1972-73	81	0	0.4	300	2	11 750
1973-74	8.8	0	*	33	1	7 20
1974-75	11	0	0.1	76	3	5 512
1975-76	NO RECORD					
1976-77	*	*	*	*	8	17 26*

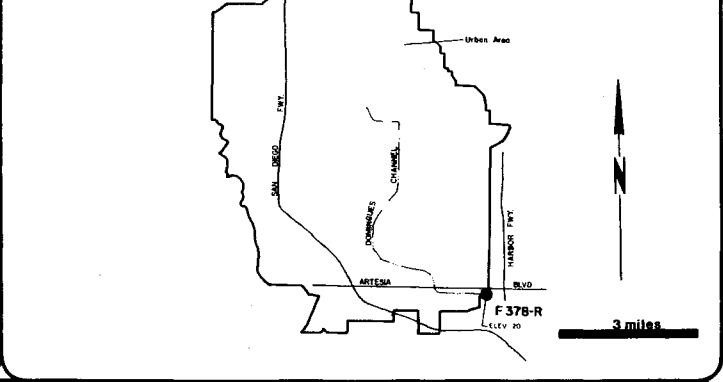
\* = RECORD INCOMPLETE



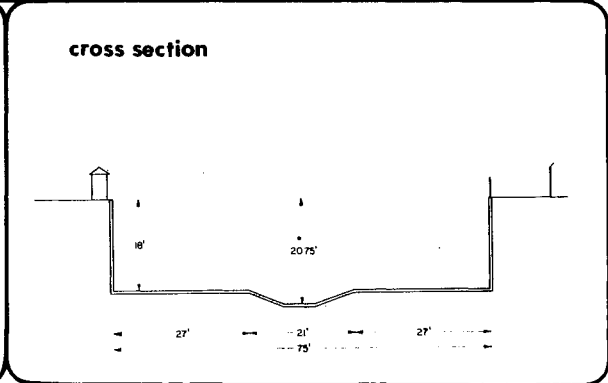
**STATION NO. F378-R  
DOMINGUEZ CHANNEL  
at Vermont Avenue**



**drainage area**



RECORDER - continuous water stage  
 METHOD OF MEASUREMENTS - low flows measured by wading. High flows measured from Vermont Avenue bridge.  
 DRAINAGE AREA - 37.1 square miles  
 LOCATION - on the south bank, 93 feet above Vermont Avenue, about one mile south of Gardena.  
 REGULATION - none  
 CHANNEL - rectangular concrete with trapezoidal low flow channel at center  
 LENGTH OF RECORD - November 23, 1966 to date  
 REMARKS - gage is affected by tides greater than 4.0 feet above mean lower low water.



**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. F378-R

DAILY DISCHARGE in second-feet of DOMINGUEZ CHANNEL AT VERMONT AVE. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	3.7	1.8	1.8	1.6	2.0	100	1.3	1.1	1.5	2.1	1.6	2.9
2	2.4	2.0	2.1	1.4	2.2	108	1.3	1.2	1.8	2.1	1.6	2.7
3	2.3	1.3	2.1	2.0	2.0	27	52	1.2	1.7	2.2	2.3	4.5
4	1.8	1.7	1.7	2.3	42	1.7	108	1.4	1.7	1.8	2.3	5.8
5	1.4	2.0	1.4	4.5	392	1.4	3.5	1.4	1.8	1.7	2.1	5.3
6	4.2	1.8	1.6	4.1	142	1.1	0.7	1.3	1.7	1.7	2.0	14
7	1.6	1.8	2.3	2.1	51	1.2	0.6	1.2	2.1	2.0	2.7	5.0
8	1.4	1.8	2.1	2.0	129	1.4	12.7	1.1	2.4	2.0	2.0	5.3
9	1.2	2.0	2.2	2.2	738	4.5	1.3	1.3	1.7	2.2	3.1	6.4
10	1.2	2.0	1.5	1.7	16.2	20	1.0	1.0	91	2.0	3.5	541
11	35	2.1	1.5	1.8	2.4	0.6	1.2	1.0	1.4	1.8	3.7	38
12	0.8	1.6	16.9	2.3	1.2	0.8	47	1.0	1.3	1.7	2.7	10.5
13	0.6	2.1	7.7	1.5	0.9	0.8	38	1.3	1.2	2.1	2.9	8.0
14	0.8	2.4	2.7	1.8	0.6	0.9	1.1	1.5	1.0	2.0	2.6	3.3
15	0.8	2.2	1.8	3.3	0.5	1.0	6.5	1.7	1.2	2.1	6.4	3.5
16	1.0	2.1	2.0	2.6	0.4	1.0	1.4	2.1	1.3	2.1	16.8	1.7
17	1.2	1.8	2.1	2.0	7.0	0.6	0.9	1.7	1.3	2.0	3.3	1.4
18	1.6	2.0	2.1	2.0	1.3	0.9	0.8	1.2	1.3	2.0	2.4	2.0
19	1.4	1.4	1.5	1.7	0.6	1.3	0.9	1.6	1.6	1.8	2.2	1.3
20	1.6	1.4	1.8	2.4	0.5	1.1	0.8	1.4	1.7	2.6	2.6	1.6
21	1.7	1.5	1.6	4.1	0.6	1.1	1.3	1.4	2.0	2.7	3.7	1.0
22	1.6	1.3	1.8	4.1	1.2	1.2	1.0	1.3	2.2	3.3	3.3	2.0
23	1.0	1.2	2.7	2.6	1.3	1.4	1.0	4.3	1.8	1.5	2.6	1.2
24	1.7	1.8	2.2	2.0	0.9	1.3	0.8	1.5	1.8	1.8	2.7	8.1
25	2.1	2.0	2.0	1.7	1.0	1.2	0.7	1.3	2.0	2.0	2.9	2.3
26	2.0	2.1	1.8	1.8	1.2	0.6	0.6	1.3	2.3	2.4	3.5	4.3
27	2.0	4.5	2.2	2.1	1.3	0.6	0.5	1.3	1.6	2.7	3.5	1.2
28	2.1	2.2	2.2	2.4	1.3	1.0	0.9	1.4	1.7	2.1	4.1	1.6
29	2.0	2.2	2.4	2.7	4.5	1.0	1.3	2.4	1.8	2.2	5.8	11.2
30	17.1	1.6	1.6	2.6	2.6	1.2	1.0	1.8	2.1	2.2	5.5	6.4
31	2.6		2.1	2.4		1.2		1.7		2.0	5.8	
MEAN	3.3	2.6	2.6	2.4	53.3	9.3	9.7	1.5	4.7	2.1	3.6	26.3
ACRE FEET	204	154	162	147	3,060	569	575	92	277	127	221	1,570

YEAR OR PERIOD MEAN ACRE-FEET 10.1 7,160

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. F378-R

DAILY DISCHARGE in second-feet of DOMINGUEZ CHANNEL AT VERMONT AVE. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	1.3	2.0	1.7	2.7	1.8	1.3	1.3	10.7	1.2	1.2	1.1	1.5
2	1.4	1.8	1.7	112	1.6	2.1	0.9	1.1	1.2	1.3	1.4	1.0
3	1.3	1.7	1.5	134	2.2	1.4	0.8	1.1	1.0	1.0	1.0	1.0
4	0.9	1.3	1.3	2.6	2.7	1.3	0.9	0.8	1.0	1.0	1.3	0.9
5	0.7	1.7	1.4	295	1.8	1.1	1.3	0.9	1.0	1.3	1.2	1.1
6	0.7	1.7	1.3	679	1.3	1.1	1.2	0.8	1.0	1.5	1.2	1.4
7	1.1	1.4	1.7	317	1.3	0.9	1.3	53	1.0	1.3	1.3	1.5
8	1.6	1.3	2.1	13.2	0.9	0.8	1.0	825	1.0	1.4	1.4	1.6
9	2.3	1.3	1.4	2.3	1.1	1.2	0.8	247	0.9	1.2	1.8	1.7
10	2.0	1.3	1.8	1.8	1.2	1.0	0.9	18.1	1.0	1.2	1.4	1.4
11	2.3	140	1.3	1.4	1.3	1.1	1.4	1.8	0.8	1.0	1.5	1.2
12	2.7	185	1.3	2.0	1.4	1.4	1.3	21	0.8	0.9	1.6	1.1
13	3.7	1.7	1.3	1.7	1.3	1.0	1.1	1.3	0.6	1.0	1.1	1.0
14	3.7	2.2	1.4	1.4	1.4	1.2	1.3	0.8	0.6	1.3	1.0	1.2
15	5.0	2.1	2.4	1.0	1.1	1.3	1.1	0.7	0.8	1.0	1.3	1.6
16	6.1	1.5	1.8	1.5	2.2	1.4	0.9	0.6	1.0	0.9	22	1.7
17	6.4	1.7	2.6	1.5	1.6	8.2	0.9	0.5	0.8	0.9	1,003	1.4
18	6.4	1.7	1.8	1.6	1.5	2.2	0.9	0.4	1.0	1.1	18.5	0.6
19	6.7	1.7	2.2	2.0	1.3	2.0	0.7	0.6	1.2	1.2	2.7	0.8
20	6.7	1.7	2.9	9.5	1.3	1.2	0.8	0.6	1.3	0.9	1.8	0.9
21	8.5	1.7	2.9	14	1.2	1.1	0.8	1.0	1.3	1.1	1.7	1.3
22	5.8	1.3	2.4	1.6	2.2	1.2	0.9	1.3	1.3	1.1	1.5	1.3
23	208	1.1	2.3	1.7	45	1.0	0.9	12.5	1.3	1.0	1.7	1.0
24	11	1.3	2.9	1.7	30	11.3	0.9	18.2	1.3	1.3	1.7	1.0
25	11	1.3	1.6	2.3	2.2	277	0.9	0.9	1.4	1.3	1.4	0.7
26	12	1.0	1.4	1.3	1.3	1.6	0.9	0.7	1.5	1.3	1.3	3.6
27	6.9	1.7	1.6	1.5	0.9	0.8	0.9	1.6	1.3	1.2	1.6	1.0
28	1.3	1.2	2.2	20	0.9	0.7	0.9	1.1	1.3	1.0	1.6	0.6
29	1.4	0.7	2.1	2.3		1.4	1.0	1.1	1.7	1.3	1.1	0.8
30	1.3	1.1	243	1.3		1.0	1.3	1.6	1.4	1.0	2.0	1.1
31	1.1		74	1.4		1.0	1.0	1.1	1.2	1.2	1.7	
MEAN	10.7	12.2	12	52.7	4.1	16.3	1.0	39.6	1.1	1.1	35	1.2
ACRE-FEET	657	728	736	3,240	226	999	60	2,440	65.4	70.6	2,150	73.4

YEAR OR PERIOD MEAN ACRE-FEET 15.6  
11,450

STATION DATA SUMMARY

STA. NO. F378-R  
DOMINGUEZ CHANNEL AT VERMONT AVENUE

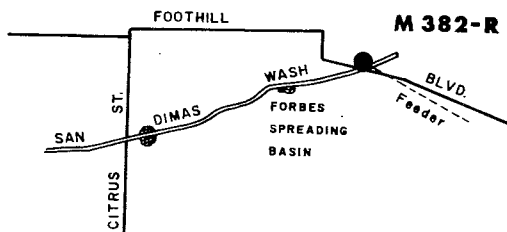
SEASON	MAX	MIN	MEAN	TOTAL	PEAK FLOW		
	DAILY CFS	DAILY CFS	DAILY CFS	RUNOFF A.F.	MON	DAY	CFS
1966-67	1220	0.8	19.2	13860	11	7	4550
1967-68	1920	1.0	18.2	13240	3	7	10500
1968-69	2090	1.0	28.8	20850	1	20	12320
1969-70	402	1.0	7.9	5750	1	16	3762
1970-71	1140	1.0	15.8	11472	11	29	6540
1971-72				**	12	27	11585
1972-73	824	0.7	19.5	7103	1	16	5060
1973-74	1480	0.7	17.5	12680	1	4	6560
1974-75	1230	0.6	14.1	10180	12	4	12700
1975-76	738	0.4	10.1	7150	2	9	8810
1976-77	1003	0.4	15.8	11450	10	23	3514

\*\* = RECORD NOT COMPUTED

**STATION NO. M 382-R  
SAN DIMAS WASH-MWD OUTLET  
above Foothill Boulevard**



**LOCATION MAP**



LOCATION: Lat. 34°07'34", Long. 117°47'41", on the right, (west) bank at the inlet structure of the paved channel and about 1,250 feet above Foothill Boulevard; about 2 miles north of San Dimas. Elevation of outlet approximately 1,078.5 feet.

RECORDER: Continuous totalizing recorder with Venturi control.

REGULATION: Entirely regulated by gated outlet on The Metropolitan Water District upper feeder.

RECORDS AVAILABLE: October 29, 1968 to present.

OPERATION: Located, constructed, and operated by The Metropolitan Water District in cooperation with the Los Angeles County Flood Control District.

**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. M382-R

DAILY DISCHARGE in second-feet of SAN DIMAS WASH - M.W.D. OUTLET ABOVE FOOTHILL BLVD. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	25	91	91	91	92	0	0	0	274	167	0	0
2	0	91	91	91	92	0	0	0	274	176	0	0
3	0	91	92	91	91	0	0	0	236	175	0	0
4	0	91	92	91	34	43	0	0	227	175	0	0
5	0	92	91	91	0	90	0	0	274	121	0	0
6	0	91	92	91	0	90	0	0	274	90	0	0
7	0	91	91	90	0	90	0	0	274	89	0	0
8	0	93	92	90	0	90	0	0	275	89	0	0
9	0	93	91	90	0	90	0	0	274	89	0	0
10	0	91	91	90	0	91	0	0	274	90	0	0
11	0	91	91	90	39	90	0	0	275	89	0	0
12	0	91	40	90	92	90	0	0	275	89	0	0
13	0	91	0	90	32	91	0	0	274	91	0	0
14	0	92	0	90	91	90	0	0	275	92	0	0
15	0	91	57	90	90	90	0	0	275	91	0	0
16	0	91	91	90	91	90	0	0	275	94	0	0
17	44	87	91	90	91	90	0	0	275	0	0	0
18	90	81	91	90	91	49	0	0	275	0	0	0
19	90	88	91	90	91	52	0	0	272	0	0	0
20	90	91	90	90	92	92	0	0	272	0	0	0
21	91	91	90	90	92	92	0	0	272	0	0	0
22	91	91	90	90	92	91	0	0	225	0	0	0
23	91	91	90	90	54	90	0	0	199	0	0	0
24	92	91	91	90	66	90	0	0	192	0	0	0
25	93	90	91	90	90	92	0	0	145	0	0	0
26	92	91	91	90	90	92	0	74	126	0	0	0
27	91	91	91	90	90	92	0	275	126	0	0	0
28	91	91	91	90	90	92	0	271	141	0	0	0
29	86	91	91	92	43	91	0	267	150	0	0	0
30	43	91	91	92		90	0	275	150	0	0	57
31	36		91	92		58		275		0	0	
MEAN	39.9	90.6	82.4	90.4	64.7	76.7	0	46.4	237	58	0	2.2
ACRE- FEET	2,450	5,390	5,070	5,560	3,720	4,720	0	2,850	14,130	3,560	0	133

YEAR OR PERIOD \_\_\_\_\_ MEAN ACRE- FEET \_\_\_\_\_ 65.7  
47,580

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. M382-R

DAILY DISCHARGE in second-feet of SAN DIMAS WASH - M.W.D. OUTLET ABOVE FOOTHILL BLVD. FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977.

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	100	0	0	0	0	58	0	0	0	0	0	0
2	98	0	0	0	0	58	0	0	0	0	0	0
3	100	0	0	34	0	58	0	0	0	0	0	0
4	100	0	0	182	0	58	0	0	0	0	0	0
5	100	0	0	122	0	58	0	0	0	0	0	0
6	82	0	0	0	0	58	0	0	0	0	0	0
7	0	0	0	0	0	58	0	0	0	0	0	0
8	0	0	0	0	0	59	0	0	0	0	0	0
9	0	0	0	0	0	59	0	0	0	0	0	0
10	0	0	0	0	0	59	0	0	0	0	0	0
11	0	0	0	0	0	60	0	0	0	0	0	0
12	0	0	0	0	0	60	0	0	0	0	0	0
13	0	0	0	0	0	59	0	0	0	0	0	0
14	0	0	0	0	0	59	0	0	0	0	0	0
15	0	0	0	0	0	44	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	29	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	0	0	0

MEAN	18.7	0	0	10.9	1.0	27.9	0	0	0	0	0	0
ACRE-FOOT	1,150	0	0	670	58	1,720	0	0	0	0	0	0

YEAR OR PERIOD \_\_\_\_\_ MEAN ACRE-FOOT \_\_\_\_\_ 4.9  
3,600

STATION DATA SUMMARY

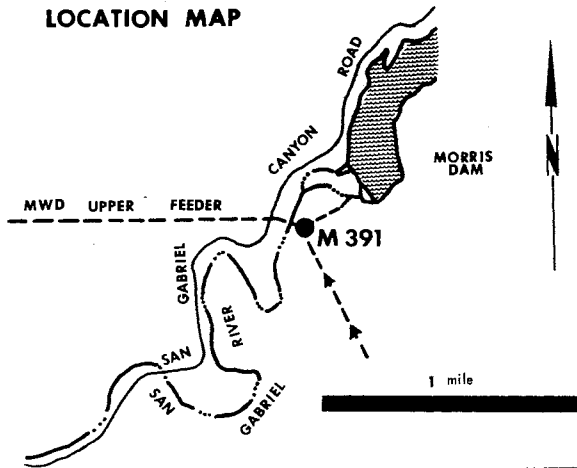
STA. NO. M382-R  
SAN DIMAS WASH - MWD OUTLET ABOVE FOOTHILL BOULEVARD

YEAR	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	ANNUAL TOTAL A.F.
1968-69	76	0	6.6	411
1969-70	120	0	59.5	43060
1970-71	204	0	75.7	54850
1971-72	230	0	47.0	34140
1972-73	230	0	108	78430
1973-74	220	0	102	74140
1974-75	231	0	57.7	41810
1975-76	275	0	65.7	47580
1976-77	192	0	5.0	3600

**STATION NO. M391  
SAN GABRIEL RIVER  
below Morris Dam**



**LOCATION MAP**



LOCATION: Lat. 34° 10' 25", Long. 117° 53' 03", on the east bank of the San Gabriel River about 1400 feet below Morris Dam; about 3.5 miles northeast of Azusa. Elevation of outlet approximately 931 feet.

RECORDER: None. Data is computed by taking the recorded total flow at the Live Oak outlet less the total release to the La Verne pump plant and M382-R.

REGULATION: Entirely regulated by gated outlet on the Metropolitan Water District upper feeder.

RECORDS AVAILABLE: February 8, 1972 to present.

OPERATION: Located, constructed and operated by the Metropolitan Water District in cooperation with the Los Angeles County Flood Control District. This outlet is utilized for the delivery of Colorado River water to the San Gabriel River.

**LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION**

STATION NO. M391

DAILY DISCHARGE in second-feet of SAN GABRIEL - M.W.D. OUTLET BELOW MORRIS DAM FOR THE WATER YEAR ENDING SEPTEMBER 30, 1976

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.5	0.5	109	0.5	0.5	0	0	0	29	0	0	0.5
2	0.5	0.5	98	0.5	0.5	0	0	0	38	0	0	0.5
3	0.5	0.5	99	0.5	0.5	0	0	0	97	0	0	0.5
4	0.5	0.5	120	0.5	0.5	91	0	0	61	0	0	0.5
5	0.5	0.5	155	0.5	0.5	158	0	0	0	0	0	0.5
6	0.5	0.5	152	0.5	0.5	159	0	0	0	0	0	0.5
7	0.5	0.5	154	0.5	0.5	159	0	0	0	0	0	0.5
8	0.5	0.5	154	0.5	0.5	159	0	0	51	0	0	0.5
9	0.5	0.5	158	0.5	0.5	159	0	0	88	0	0	0.5
10	0.5	0.5	155	0.5	0.5	170	0	0	36	0	0	0.5
11	0.5	0.5	155	0.5	0.5	178	0	0	0	0	0	0.5
12	0.5	0.5	155	0.5	0.5	181	0	0	0	0	0	0.5
13	0.5	0.5	157	0.5	0	179	0	0	0	0	0	0.5
14	0.5	0.5	156	0.5	0	178	0	0	0	0	0	0.5
15	0.5	0.5	158	0.5	0	178	0	0	0	0	0	0.5
16	0.5	0.5	138	0.5	0	178	0	0	0	0	0	0.5
17	0.5	0.5	126	0.5	89	178	0	0	0	0	0	0.5
18	0.5	52	55	0.5	156	110	0	0	0	0	0	0.5
19	0.5	102	0	0.5	156	90	41	0	0	0	0	0.5
20	0.5	103	0	0.5	156	178	72	0	0	0	0	0.5
21	0.5	103	0	0.5	156	178	32	0	0	0	0	0.5
22	0.5	103	0.5	0.5	156	178	0	0	0	0	0	0.5
23	0.5	102	0.5	0.5	156	181	0	0	0	0	0	0.5
24	0.5	102	0.5	0.5	156	181	0	0	0	0	0.5	0.5
25	0.5	103	0.5	0.5	157	181	0	0	0	25	0.5	0.5
26	0.5	60	0.5	0.5	156	178	0	0	0	0	0.5	0.5
27	0.5	0	0.5	0.5	156	175	0	0	0	0	0.5	0.5
28	0.5	0	0.5	0.5	156	175	0	0	0	0	0.5	0.5
29	0.5	0	0.5	0.5	100	177	0	0	0	0	0.5	0.5
30	0.5	33	0.5	0.5		105	0	0	0	0	0.5	0.5
31	0.5		0.5	0.5		0		0		0	0.5	0.5

MEAN	0.5	29	79.3	0.5	65.9	141	4.8	0	15	0.8	0.1	0.5
ACRE- FEET	30.7	1,730	4,880	30.7	3,790	8,710	288	0	893	49.6	7.9	29.8

YEAR OR PERIOD MEAN ACRE-FEET 28.2  
20,440

LOS ANGELES COUNTY  
FLOOD CONTROL DISTRICT  
HYDRAULIC DIVISION

STATION NO. M391

DAILY DISCHARGE in second-feet of SAN GABRIEL - M.W.D. OUTLET BELOW MORRIS DAM FOR THE WATER YEAR ENDING SEPTEMBER 30, 1977

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.5	0.5	0.5	0.5	177	0	0.5	0.5	0.5	0.5	0.5	0.5
2	0.5	0.5	0.5	0.5	177	0	0.5	0.5	0.5	0.5	0.5	0.5
3	0.5	0.5	0.5	72	77	0	0.5	0.5	0.5	0.5	0.5	0.5
4	0.5	0.5	0.5	156	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
5	0.5	0.5	0.5	160	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
6	0.5	0.5	0.5	161	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
7	0.5	0.5	0.5	161	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
8	0.5	0.5	0.5	158	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
9	0.5	0.5	0.5	159	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
10	0.5	0.5	0.5	166	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
11	0.5	0.5	0.5	174	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
12	0.5	0.5	0.5	174	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
13	0.5	0.5	0.5	175	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
14	0.5	0.5	0.5	175	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
15	0.5	0.5	0.5	175	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
16	0.5	0.5	0.5	171	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
17	0.5	0.5	0.5	173	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
18	0.5	0.5	0.5	173	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
19	0.5	0.5	0.5	173	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
20	0.5	0.5	0.5	173	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
21	0.5	0.5	0.5	174	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
22	0.5	0.5	0.5	174	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
23	0.5	0.5	0.5	174	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
24	0.5	0.5	0.5	174	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
25	0.5	0.5	0.5	175	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
26	0.5	0.5	0.5	175	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
27	0.5	0.5	0.5	175	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
28	0.5	0.5	0.5	175	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
29	0.5	0.5	0.5	176		0.5	0.5	0.5	0.5	0.5	0.5	0.5
30	0.5	0.5	0.5	176		0.5	0.5	0.5	0.5	0.5	0.5	0.5
31	0.5	0.5	0.5	176		0.5	0.5	0.5	0.5	0.5	0.5	0.5

MEAN	0.5	0.5	0.5	156	14.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5
ACRE- FEET	30.7	29.8	30.7	2,630	855	27.8	23.8	30.7	29.8	30.7	30.7	29.8

YEAR  
OR  
PERIOD      MEAN  
ACRE-FEET      14.7  
10,790

STATION DATA SUMMARY

STA. NO. M391  
SAN GABRIEL RIVER - MWD OUTLET BELOW MORRIS DAM

YEAR	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	ANNUAL TOTAL A.F.
1971-72	121	0	4.3	5150
1972-73	150	0	10.1	7310
1973-74	159	0	24.8	17930
1974-75	194	0	23.3	16870
1975-76	181	0	28.2	20440
1976-77	177	0	14.9	10790

# RESERVOIRS

Following the damaging floods of 1913-14 and 1915-16, Los Angeles County initiated a program of flood control and water conservation including the construction of 14 dams. These dams were operated by the District during the season covered by this report. In addition, five Corps of Engineers' dams and Morris Dam owned by The Metropolitan Water District were utilized to achieve flood control and water conservation. The Corps of Engineers' dams are: Hansen Dam on Tujunga Wash, Sepulveda Dam on the Los Angeles River, Santa Fe Dam on the San Gabriel River, and Whittier Narrows Dam on the San Gabriel River and Rio Hondo, and San Antonio Dam on San Antonio Creek.

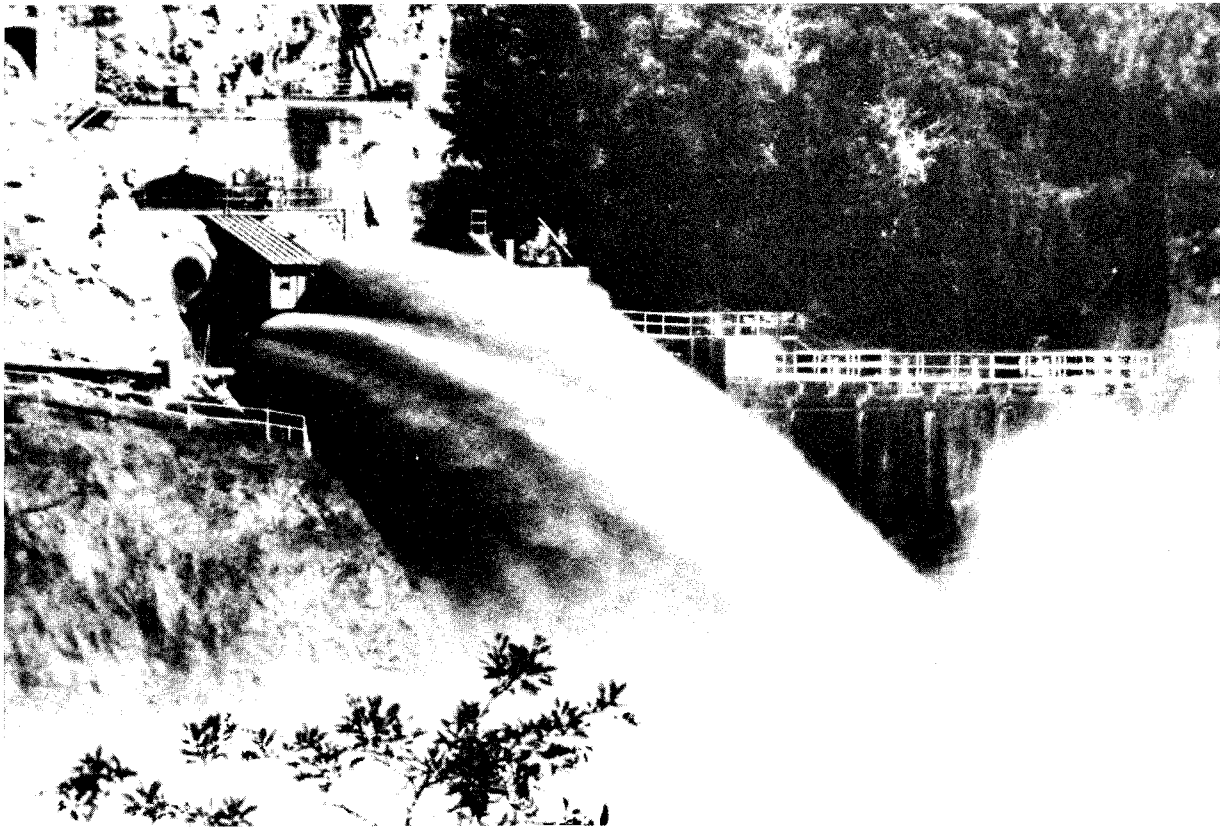
## OPERATION

The reservoirs are operated to control flood waters during storm periods. Post storm releases are made, when feasible, in amounts which can be conserved in spreading grounds and by natural channel percolation. Following the storm season, water is stored to provide streamflow during the dry summer months for recreation and water supply purposes.

## RECORDS

The daily storage and flow records at 14 of the District reservoirs are summarized on the Dam Operation Record Sheets. The sheets show:

1. Reservoir water surface elevations based on the spillway datum. Elevations are obtained from water stage recorder graphs or interpolation from staff gage readings and recorded as of midnight of each day.
2. Storage in acre-feet based on the most recent topographic surveys.
3. Inflow in cubic feet per second. This is 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. Outflow in cubic feet per second. These values are determined from gaging station records, known valve openings and rating curves, or from storage change and known inflow.



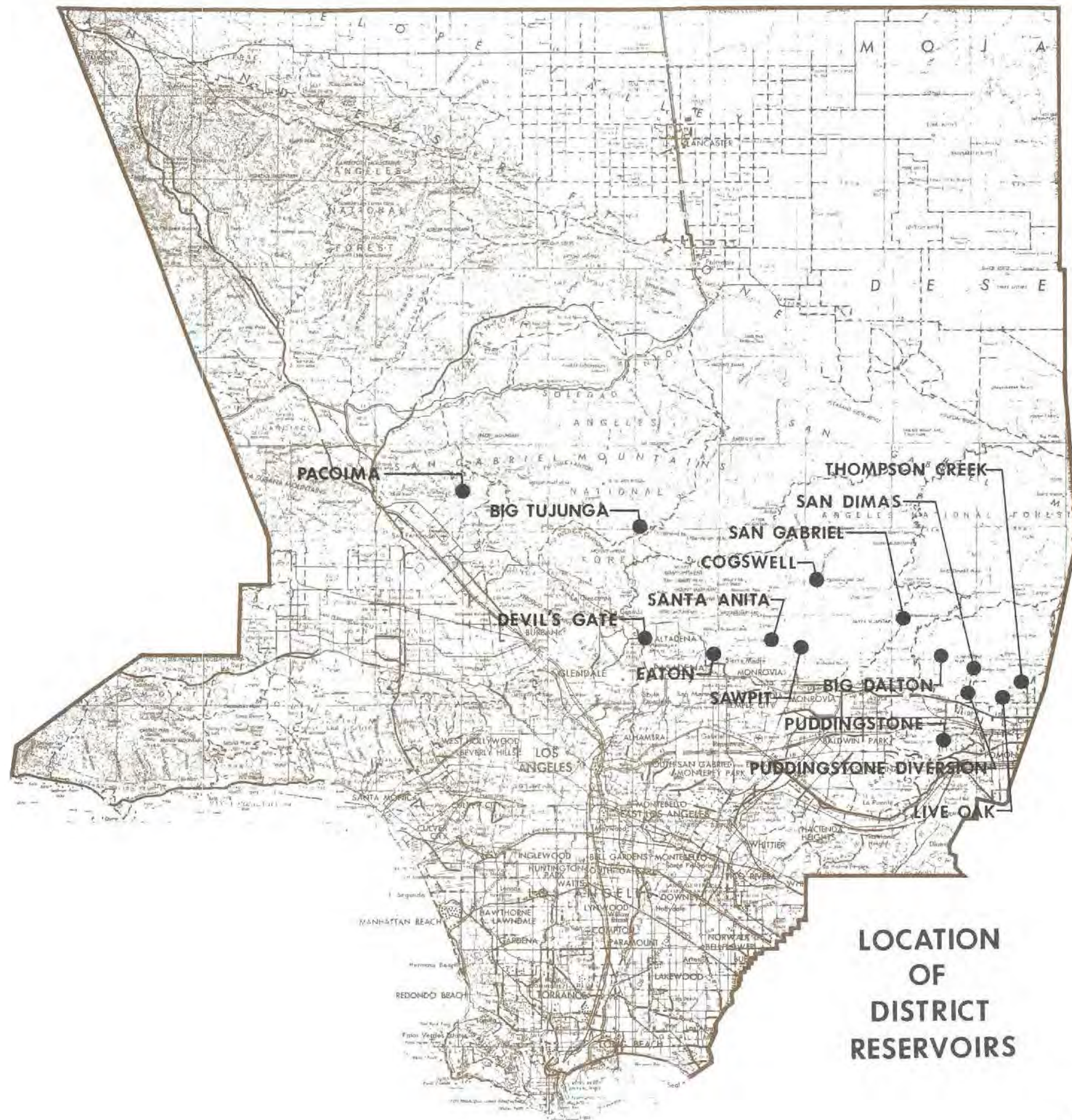
Discharge of 8,000 cfs from San Gabriel Dam

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 are attributable to percolation and/or evaporation losses and are shown as total monthly and yearly losses. Total monthly evaporation losses are shown as determined from measurements made on floating or land 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.

Recovery of storage capacity lost through sedimentation is accomplished through sluicing and excavation.





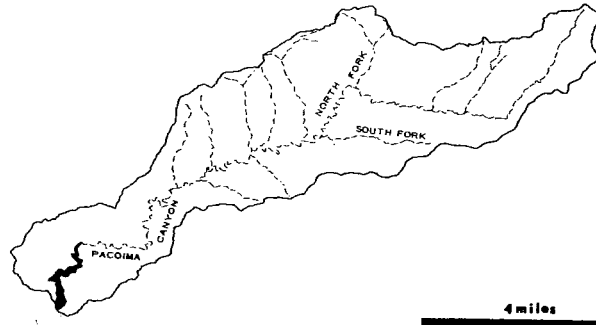
**LOCATION  
OF  
DISTRICT  
RESERVOIRS**



# PACOIMA DAM AND RESERVOIR



## drainage area



**PURPOSE -**  
Flood Control and Conservation

**DATE CONSTRUCTED -**  
Started March 1925 - Completed February 1929

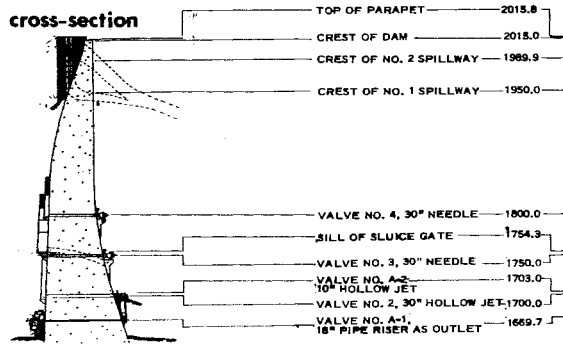
**LOCATION -**  
Pacoima Canyon, 4.0 miles northeast of San Fernando

**DRAINAGE AREA -** 28.2 square miles

**CAPACITY -** 3,929 acre-feet

**SPILLWAY ELEVATION -** 1,950.0 feet

## cross-section



### PACOIMA DAM

#### YEARLY RESERVOIR OPERATION SUMMARY

SEASON	ANNUAL AF	INFLW		OUTFLOW ANNUAL AF	PEAK INFLOW		
		MAX-DAY CFS	MIN-DAY CFS		MO	DAY	CFS
1929-30	1110	N.O.	N.O.	965		N.O.	
1930-31	1082	N.O.	N.O.	886		N.O.	
1931-32	8741	N.O.	N.O.	8463		N.O.	
1932-33	2160	101	0	2119		N.O.	
1933-34	3454	N.O.	N.O.	3493	1	914	
1934-35	5569	84	0	5556		N.O.	
1935-36	3098	88	0	3094	2	248	
1936-37	15737	356	0	14210	2	14	508
1937-38	25878	2360	0	26796	3	2	8320
1938-39	3525	86	0	3080	12	19	145
1939-40	3209	156	0	3133	1	8	928
1940-41	25785	536	0	25942	3	4	815
1941-42	1920	48	0.1	2032	12	29	85
1942-43	20698	1250	0.1	20407	1	23	2650
1943-44	15004	898	0.4	15167	2	22	1790
1944-45	4866	206	0.4	4911	2	2	494
1945-46	4600	332	0	2904	3	30	564
1946-47	4356	149	0	6029	11	20	282
1947-48	369	6.4	0.1	335	4	29	12
1948-49	723	10	0.1	740	3	5	17
1949-50	1063	19	0.1	1019	2	6	26
1950-51	142	1.3	0	69	4	29	2.4
1951-52	16794	681	0	14325	1	16	1290
1952-53	967	8.5	0	3500	12	1	32
1953-54	2952	107	0.1	2941	1	25	272
1954-55	748	18	0.1	737	4	30	25
1955-56	1466	90	0	1252	1	27	179
1956-57	573	9.8	0	773	1	13	14
1957-58	15818	714	0	15808	4	3	1180
1958-59	783	29	0	708	1	6	184
1959-60	131	0.9	0	271	1	11	2.2
1960-61	59	6.3	0	11	11	12	60
1961-62	6326	584	0.1	6279	2	11	811
1962-63	384	8.1	0.1	228	2	10	19
1963-64	529	8.3	0.1	722	1	72	56
1964-65	1313	70	0.1	1068	4	9	160
1965-66	15553	647	0	15214	11	22	2010
1966-67	23605	698	0.4	23600	12	6	1380
1967-68	3843	76	0	3833	11	21	107
1968-69	43398	2860	0	42998	2	25	4710
1969-70	2717	99	0.4	2308	3	1	276
1970-71	4806	118	0.5	4994	11	29	384
1971-72	1062	36	0.2	802	12	26	91
1972-73	7726	696	0.1	7383	2	11	1640
1973-74	4197	168	0.2	4154	1	8	532
1974-75	2279	48	0.1	2526	3	6	97
1975-76	1622	58	0.1	1614	2	9	102
1976-77	1424	43	0.3	507	1	3	213

N.O. = NOT DETERMINED



LOS ANGELES COUNTY FLOOD CONTROL DISTRICT  
DAM OPERATION RECORD

PACOMA DAM  
1976-77

DRAINAGE AREA 29.1 SQ. MI.  
RESERVOIR CAPACITY 3782 A.F.  
AT SPILLWAY ELEVATION 1950.0 FT.  
AS OF DECEMBER, 1976

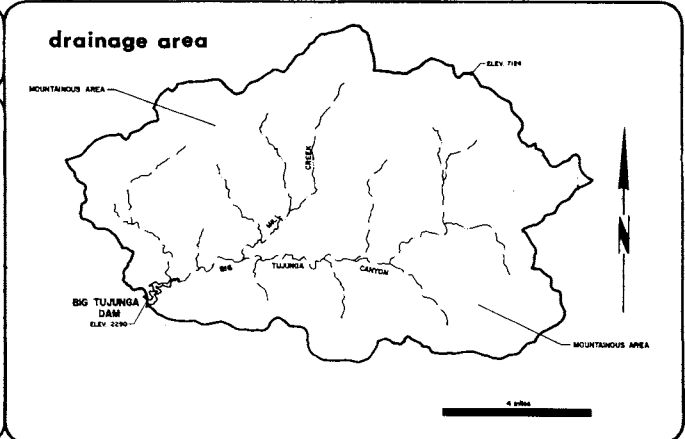
GAGE HEIGHTS AND STORAGES  
ARE AS OF MIDNIGHT ON DAY SHOWN

Date	OCTOBER				NOVEMBER				DECEMBER				JANUARY			
	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow
1 1794.00	0	0	0.7	0.7	1798.28	1.7	1.0	0.9	1798.20	1.7	1.2	0.7	1805.10	2.7	0.5	0
2 1794.00	0	0	0.7	0.7	1798.20	1.7	0.9	0.9	1798.40	1.7	0.7	0.7	1805.30	2.7	0	1
3 1794.00	0	0	0.7	0.7	1798.20	1.7	0.9	0.9	1798.50	2.0	0.7	0.7	1822.50	89.9	32.7	0
4 1794.00	0	0	0.7	0.7	1797.00	0.7	0.9	0.9	1798.70	2.2	0.7	0.7	1823.70	97.5	3.9	0
5 1794.00	0	0	0.6	0.6	1797.00	0.7	0.9	0.9	1798.80	2.3	0.7	0.7	1823.60	96.8	5.1	5.4
6 1794.00	0	0	0.5	0.5	1796.00	0.2	0.9	0.9	1798.80	2.3	0.7	0.7	1826.30	114.9	9.1	0
7 1794.00	0	0	0.5	0.5	1795.00	0.1	0.9	0.9	1798.80	2.3	0.7	0.7	1831.00	150.1	17.7	0
8 1794.00	0	0	0.5	0.5	1794.00	0	0.9	0.9	1798.80	2.3	0.7	0.7	1833.20	167.5	8.9	0
9 1794.00	0	0	0.5	0.5	1793.00	0	0.9	0.9	1798.90	2.4	0.7	0.7	1834.60	178.9	5.9	0
10 1794.00	0	0	0.5	0.5	1793.00	0	0.9	0.9	1799.10	2.6	0.7	0.7	1835.80	183.8	5.0	0
11 1794.00	0	0	0.5	0.5	1793.00	0	0.9	0.9	1799.40	3.0	0.7	0.7	1836.80	197.5	4.4	0
12 1794.00	0	0	0.5	0.5	1793.00	0	0.9	0.9	1799.60	3.3	0.7	0.7	1840.90	205.5	4.2	0
13 1794.00	0	0	0.5	0.5	1793.00	0	0.9	0.9	1799.90	3.7	0.6	0.6	1838.50	212.9	3.8	0
14 1794.00	0	0	0.5	0.5	1793.00	0	0.9	0.9	1800.20	4.1	0.6	0.7	1839.20	219.4	3.3	0
15 1794.00	0	0	0.5	0.5	1793.00	0	0.9	0.9	1800.70	4.9	0.6	0.6	1839.80	225.0	2.9	0
16 1794.00	0	0	0.5	0.5	1793.00	0	0.9	0.9	1801.30	5.8	0.6	0.6	1840.40	230.7	2.7	0
17 1794.00	0	0	0.5	0.5	1793.00	0	0.9	0.9	1801.90	6.9	0.6	0.6	1841.00	235.5	2.7	0
18 1794.00	0	0	0.5	0.5	1793.00	0	0.9	0.9	1802.20	7.4	0.6	0.6	1841.40	240.4	2.7	0
19 1794.00	0	0	0.6	0.6	1793.00	0	0.8	0.9	1802.70	8.3	0.6	0.6	1841.90	245.3	2.7	0
20 1794.00	0	0	0.6	0.6	1793.00	0	0.8	0.9	1803.20	9.3	0.6	0.6	1842.40	250.3	2.7	0
21 1794.00	0	0	0.7	0.7	1793.00	0	0.8	0.9	1803.70	10.4	0.6	0.6	1843.00	256.2	2.7	0
22 1806.60	0	0	14.6	3.0	1794.00	0	0.8	0.9	1804.20	11.5	0.6	0.6	1843.60	262.2	2.7	0
23 1809.90	27.8	2.9	0.5	0.5	1793.00	0	0.8	0.9	1804.60	12.3	0.6	0.6	1844.10	267.2	2.7	0
24 1810.20	28.8	1.1	0.6	0.6	1793.00	0	0.8	0.9	1805.00	13.2	0.6	0.6	1844.60	272.3	2.7	0
25 1810.10	28.5	0.5	0.6	0.6	1793.00	0	0.8	0.9	1805.50	14.5	0.6	0.6	1845.40	278.6	2.7	0
26 1808.70	22.6	5.2	7.6	1793.00	0	0.8	0.9	1805.80	15.2	0.6	0.6	1845.80	284.7	2.7	0	
27 1801.10	4.0	2.8	12.7	1794.00	0	0.8	0.9	1806.20	16.2	0.6	0.6	1846.00	289.0	2.7	0	
28 1798.50	2.0	3.0	4.0	1795.00	0.1	0.9	0.9	1806.60	17.3	0.6	0.6	1846.60	293.3	2.7	0	
29 1798.30	1.8	3.9	4.0	1796.00	0.2	1.0	0.9	1807.00	18.4	0.6	0.6	1847.10	298.7	2.7	0	
30 1798.20	1.7	3.1	4.0	1797.00	0.7	1.1	0.9	1807.40	19.6	0.6	0.6	1847.50	303.1	2.7	0	
31 1798.10	1.6	3.9	4.0	1798.00	0.7	1.1	0.9	1807.70	20.5	0.6	0.6	1847.90	307.5	2.7	0	
TOTAL			53.8	52.8			26.5	27.0			20.3	9.8			152.4	5.4
Int. Ac. Ft.			106.7				52.5				40.2				302.4	
Diff. Ac. Ft.			104.7 + (0.3)				53.5				19.4 + (0.9)				107.7 + (4.5)	
Max. Mean Daily Inf.			14.6				1.1				1.2				32.7	
Min. Mean Daily Inf.			0.5				0.8				0.6				0.6	
Storage Change			1.6				0.9				19.8				287.0	

Date	FEBRUARY				MARCH				APRIL				MAY			
	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow
1 1848.20	310.9	1.7	0	1851.90	392.9	1.2	0	1852.20	500.4	2.1	0	1857.20	4225.1	92.8	0	
2 1848.60	315.4	1.7	0	1855.10	395.6	1.2	0	1862.40	503.7	2.1	0	1857.40	427.4	0.8	0	
3 1849.00	319.9	1.7	0	1855.30	398.3	1.2	0	1866.90	511.9	2.1	0	1857.60	430.3	0.8	0	
4 1849.20	322.2	1.7	0	1855.40	399.6	1.2	0	1860.20	468.0	2.1	25.9	1857.60	430.3	0.8	0	
5 1849.40	326.9	1.7	0	1855.60	402.3	1.2	0	1860.40	471.9	2.1	0	1857.70	431.7	0.8	0	
6 1849.90	329.7	1.7	0	1855.70	403.7	1.2	0	1860.60	475.3	2.1	0	1857.80	433.1	0.8	0	
7 1850.10	332.7	1.7	0	1855.90	406.4	1.2	0	1860.80	478.1	2.1	0	1857.90	434.6	0.8	0	
8 1850.40	336.3	1.7	0	1856.10	409.1	1.2	0	1861.00	481.2	2.0	0	1860.30	470.4	18.1	0	
9 1850.80	341.0	1.7	0	1856.10	409.1	1.1	0	1861.20	484.4	2.0	0	1865.40	554.7	42.6	0	
10 1851.20	345.8	1.7	0	1856.30	411.9	1.1	0	1861.30	488.0	2.0	0	1868.10	603.6	24.6	0	
11 1851.50	349.5	1.7	0	1856.50	414.7	1.1	0	1861.40	491.9	2.0	8.4	1870.60	632.1	14.5	0	
12 1851.70	351.9	1.7	0	1856.60	416.1	1.1	0	1861.50	495.9	2.0	14.6	1870.70	653.6	10.9	0	
13 1851.90	354.4	1.7	0	1856.70	417.5	1.1	0	1861.60	499.1	2.0	3.7	1871.70	673.6	10.1	0	
14 1852.10	356.9	1.7	0	1856.80	418.9	1.1	0	1861.70	502.4	2.0	6.8	1872.50	690.1	8.5	0	
15 1852.30	359.4	1.6	0	1857.00	421.7	1.1	0	1861.80	505.7	1.9	8.3	1873.20	704.6	7.3	0	
16 1852.50	361.9	1.6	0	1857.10	423.0	1.1	0	1861.90	509.1	1.9	0	1873.90	717.3	6.5	0	
17 1852.70	364.4	1.6	0	1857.20	424.3	1.1	0	1862.00	512.4	1.9	0	1874.40	730.1	6.6	0	
18 1852.90	366.9	1.6	0	1857.30	425.7	1.1	0	1862.10	515.7	1.9	0	1874.80	738.8	4.6	0	
19 1853.10	369.4	1.6	0	1857.40	427.0	1.1	0	1862.20	519.0	1.9	0	1875.10	745.3	6.2	2.7	
20 1853.30	369.4	1.6	0	1857.50	428.4	1.1	0	1862.30	522.3	1.9	0	1875.10	745.3	4.8	4.6	
21 1853.50	369.4	1.6	0	1857.60	429.8	1.1	0	1862.40	525.7	1.9	0	1875.20	747.5	2.7	4.4	
22 1853.70	372.0	1.6	0	1857.70	431.1	1.1	0	1862.50	529.0	1.9	0	1875.30	747.5	4.4	4.2	
23 1853.90	374.7	1.6	0	1857.80	432.5	1.1	0	1862.60	532.3	1.9	0	1875.30	749.7	5.3	4.0	
24 1854.10	377.1	1.6	0	1857.90	433.9	1.1	0	1862.70	535.7	1.9	0	1875.40	751.9	4.9	3.8	
25 1854.30	379.7	1.6	0	1858.00	435.3	1.1	0	1862.80	539.0	1.9	0	1875.50	754.1	4.8	3.6	
26 1854.50	381.0	1.6	0	1858.10	436.7	1.1	0	1862.90	542.3	1.9	0	1875.60	757.3	4.7	2.7	
27 1854.70	383.6	1.6	0	1858.20	438.0	1.1	0	1863.00	545.7	1.9	0	1875.70	759.5	4.0	2.7	
28 1854.90	386.9	1.6	0	1858.30	439.4	1.1	0	1863.10	549.0	1.9	0	1875.80	763.5	4.0	5.0	
29 1854.80	389.6	1.6	0	1858.40	440.8	1.1	0	1863.20	552.4	1.9	0	1875.90	767.5	2.9	5.0	
30 1855.00	391.6	1.6	0	1858.50	442.2	1.1	0	1863.30	555.7	1.9	0	1876.00	771.5	4.5	5.0	
31 1855.20	394.1	1.6	0	1858.60	443.6	1.1	0	1863.40	559.0	1.9	0	1876.10	775.5	2.1	1.9	
TOTAL			46.2	0	1858.00	437.1	54.0	0			53.1	85.5			216.2	55.4
Int. Ac. Ft.			91.6				113.0				105.3				432.7	
Diff. Ac. Ft.			0	+ (7.5)			0	+ (7.5)			169.5 + (8.3)				109.8 + (6.5)	
Max. Mean Daily Inf.			1.7				7.6				6.8				42.6	
Min. Mean Daily Inf.			1.6				1.5				0.7				0.8	
Storage Change			84.1				105.5				72.5				316.3	

Date	JUNE				JULY				AUGUST				SEPTEMBER			
	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow
1 1875.10	745.3	1.5	0.1	1876.50	776.3	0.7	0	1877.40	796.7	0.5	0	1878.30	817.5	0.5	0	
2 1875.30	749.7	1.5	0.1	1876.60	778.5	0.7	0	1877.40	796.7	0.5	0	1878.30	817.5	0.5	0	
3 1875.30	749.7	1.4	0.9	1876.60	778.5	0.6	0	1877.40	796.7	0.4	0	1878.30	817.5	0.5	0	
4 1875.30	749.7	1.4	2.1	1876.60	778.5	0.6	0	1877.50								

# BIG TUJUNGA DAM AND RESERVOIR



**PURPOSE** -  
Flood Control and Conservation

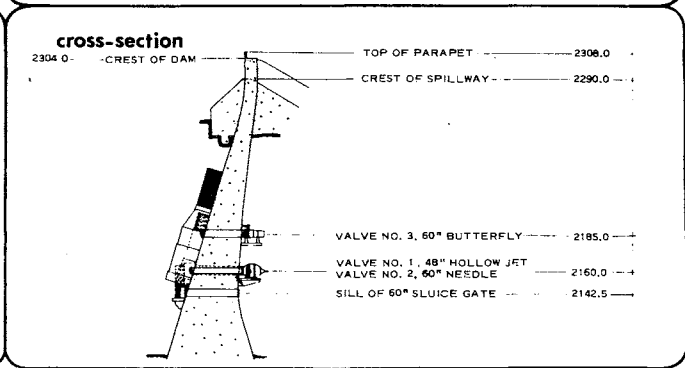
**DATE CONSTRUCTED** -  
Started January 1930 - Completed July 1931

**LOCATION** -  
Big Tujunga Canyon, 10.0 miles northeast of Sunland

**DRAINAGE AREA** - 82.3 square miles

**CAPACITY** - 6,027 acre-feet

**SPILLWAY ELEVATION** - 2,290.0 feet



## BIG TUJUNGA DAM

### YEARLY RESERVOIR OPERATION SUMMARY

SEASON	ANNUAL AF	INFLOW		MIN-DAY CFS	OUTFLOW ANNUAL AF	PEAK INFLOW	
		MAX-DAY CFS	MC			DAY	CFS
1932-33	4342	218	C	4518			N.D.
1933-34	4441	994	C	4234	1	1	2430
1934-35	11992	380	0	10698	4	8	719
1935-36	3875	130	C	5538	2	12	312
1936-37	26949	803	G-6	25729	2	6	1740
1937-38	64855	12030	L-0	65022	7	2	32940
1938-39	9905	327	L-2	9106	12	19	666
1939-40	7058	337	C-4	7197	1	8	2300
1940-41	59402	1200	C-9	59086	3	4	1570
1941-42	7120	70	C-8	7724	12	10	134
1942-43	52877	5700	L-1	52919	1	23	17850
1943-44	42270	2780	S-0	41722	2	22	4770
1944-45	13206	475	L-2	12231	11	11	1850
1945-46	11543	1150	C-8	12383	3	30	2310
1946-47	12927	674	O-9	12827	11	13	1690
1947-48	2679	44	O-7	3579	4	29	85
1948-49	2129	16	C-1	1645	3	11	19
1949-50	2029	32	C-2	1905	2	6	43
1950-51	841	7-7	C-1	1235	4	29	17
1951-52	27288	896	C-3	26125	1	18	2030
1952-53	3496	35	O-1	4873	11	15	108
1953-54	5389	212	O-1	5290	1	25	500
1954-55	2623	30	C-2	2282	1	18	52
1955-56	3026	233	O-4	3433	1	26	582
1956-57	1967	107	O-1	1660	1	13	283
1957-58	27558	1220	O-1	27563	4	3	2860
1958-59	3405	172	O-1	3152	1	6	213
1959-60	1183	12	G-3	1653	1	12	24
1960-61	838	14	G-4	718	11	5	35
1961-62	16711	2540	C-4	16776	2	11	5050
1962-63	1715	90	O-2	1359	2	10	237
1963-64	1526	40	O	2039	1	22	90
1964-65	2429	60	O-4	1903	4	9	165
1965-66	30772	2810	G-2	25779	12	25	10800
1966-67	30158	1180	L-6	30338	12	6	2600
1967-68	10584	352	L-0	11446	11	21	725
1968-69	107609	7800	O	106462	2	25	17800
1969-70	11643	372	L-5	11624	3	1	613
1970-71	12394	1100	Z-1	11412	11	29	3970
1971-72	4118	194	G-5	3374	12	24	462
1972-73	15375	1914	C-5	14680	2	11	6320
1973-74	8663	256	O-9	5582	1	7	561
1974-75	5442	198	O-3	8666	3	6	315
1975-76	4482	408	C-1	3863	C2	C9	1400
1976-77	2928	164	L-2	3547	1	3	878

N.D. = NOT DETERMINED

**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT**

## DAM OPERATION RECORD

Big Tujunga Dam DRAINAGE AREA 82.3 SO. MI. 6026.8  
 CAPACITY OF RESERVOIR 2290 AF. FT. 2290 AF. FT.  
 AS OF OCTOBER 18 70.

GAGE HEIGHTS AND STORAGE ARE AS OF MIDNIGHT ON DAY SHOWN.

Day	OCTOBER				NOVEMBER				DECEMBER				JANUARY				Day							
	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow								
1	2187.1	495.9	1.1	6.5	2188.8	543.6	1.1	0.1	2191.6	599.0	2.1	0.3	2195.7	702.0	2.6	0.6	1							
2	2187.2	497.4	1.0	0	2188.9	535.6	1.2	0.1	2191.8	601.6	1.8	0.3	2195.8	705.2	2.8	0.8	2							
3	2187.2	497.6	0.5	0	2189.0	536.9	0.9	0	2191.9	604.5	1.9	0.3	2195.9	708.3	2.5	0.8	3							
4	2187.3	498.7	0.9	0	2189.1	538.8	1.2	0	2192.0	607.9	2.2	0.4	2196.1	712.9	3.0	0.8	4							
5	2187.3	498.9	0.5	0	2189.2	541.1	1.3	0	2192.1	611.1	2.2	0.5	2196.2	715.4	2.1	0.6	5							
6	2187.3	499.8	0.7	0	2189.2	542.7	1.0	0	2192.3	616.3	3.4	0.6	2196.2	715.7	3.5	3.2	6							
7	2187.3	500.7	0.7	0	2189.3	544.7	1.2	0	2192.4	617.5	1.3	0.5	2196.3	719.5	3.7	3.2	7							
8	2187.4	501.3	0.6	0	2189.4	546.5	1.1	0	2192.6	621.5	2.9	0.4	2196.5	722.7	3.4	1.5	8							
9	2187.4	502.2	0.6	0	2189.5	548.6	1.2	0	2192.6	627.7	1.3	0.4	2196.6	727.1	3.8	1.5	9							
10	2187.4	503.0	0.7	0	2189.6	550.9	1.3	0	2192.7	625.9	2.4	0.5	2196.7	729.6	2.8	1.4	10							
11	2187.5	504.8	1.0	0	2189.7	553.6	1.3	0	2192.9	629.1	2.3	0.6	2196.9	733.9	3.8	1.4	11							
12	2187.6	505.8	0.7	0	2189.7	553.4	1.2	0	2193.1	633.9	3.5	1.0	2197.0	736.6	3.0	1.4	12							
13	2187.7	507.8	1.1	0	2189.8	556.2	1.3	0	2193.2	638.2	3.2	1.0	2197.0	738.6	2.6	1.4	13							
14	2187.7	508.2	0.8	0	2189.7	558.0	1.1	0	2193.3	640.5	2.4	0.9	2197.3	745.3	5.0	1.5	14							
15	2187.8	510.6	1.2	0	2190.0	560.1	1.1	0	2193.5	644.0	2.4	0.7	2197.1	746.9	2.5	1.4	15							
16	2187.8	510.6	0.2	0	2190.1	562.2	1.2	0	2193.6	647.0	2.6	0.8	2197.5	751.7	4.1	1.4	16							
17	2187.9	511.9	0.9	0	2190.2	564.1	1.3	0.2	2193.7	650.6	2.8	0.8	2197.5	752.5	2.3	1.4	17							
18	2187.9	513.2	1.0	0.1	2190.3	566.6	1.8	0.2	2193.9	654.1	2.7	0.7	2197.7	757.0	4.1	1.4	18							
19	2188.0	514.3	1.4	0.2	2190.4	569.2	1.5	0	2194.0	656.9	2.7	0.7	2197.8	759.5	3.0	1.4	19							
20	2188.0	515.6	1.4	0.2	2190.5	570.2	1.6	0	2194.1	660.3	2.6	0.7	2197.9	763.4	3.8	1.4	20							
21	2188.1	516.7	0.8	0.1	2190.5	573.0	1.4	0.2	2194.3	664.7	3.2	0.8	2198.1	767.3	3.7	1.3	21							
22	2188.2	517.8	1.3	0.2	2190.7	575.6	1.4	0.1	2194.4	667.0	2.1	0.8	2198.2	770.8	3.5	1.4	22							
23	2188.2	519.6	0.9	0.1	2190.8	577.7	1.3	0.1	2194.5	670.9	2.9	0.7	2198.3	773.6	3.2	1.4	23							
24	2188.2	520.0	0.6	0.1	2190.8	580.0	1.7	0.1	2194.6	674.2	2.6	0.6	2198.4	777.3	3.5	1.4	24							
25	2188.3	521.6	1.1	0.1	2191.0	582.9	1.8	0.1	2194.6	677.4	2.4	0.7	2198.5	781.0	3.5	1.4	25							
26	2188.4	523.1	1.1	0.1	2191.0	584.5	1.3	0	2194.9	681.5	2.9	0.7	2198.6	782.2	2.3	1.4	26							
27	2188.4	524.7	1.1	0.2	2191.2	588.4	2.2	0.1	2195.0	684.9	2.5	0.6	2198.8	787.0	4.1	1.4	27							
28	2188.5	526.0	1.0	0.2	2191.3	590.5	1.2	0	2195.2	688.4	2.5	0.5	2198.9	790.7	3.6	1.4	28							
29	2188.6	527.8	1.2	0.1	2191.4	593.0	1.5	0.1	2195.3	692.1	2.6	0.5	2199.0	793.9	3.3	1.4	29							
30	2188.7	529.8	1.4	0.2	2191.5	596.1	1.7	0.1	2195.4	695.3	2.5	0.6	2199.1	797.4	3.5	1.4	30							
31	2188.8	532.0	1.4	0.2	2191.5	596.1	1.7	0.1	2195.6	698.5	2.5	0.6	2199.2	800.9	3.4	1.4	31							
TOTAL	28.0				40.1				1.3				77.4				102.3				41.6			
Inf. Ac. Ft.	55.5				79.6								153.4				202.9							
Chf. Ac. Ft.	16.9 + (13.9)				2.6 + (12.9)								38.1 + (13.0)				82.5 + (18.0)							
Max. Mean Daily Inf.	1.4				2.2								3.5				5.0							
Min. Mean Daily Inf.	0.5				0.9								1.3				2.1							
Storage Change	24.7				64.0								102.4				102.4							

Day	FEBRUARY				MARCH				APRIL				MAY				Day											
	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow												
1	2139.3	803.8	1.8	0	2228.8	1921.9	49.4	14.8	2228.8	1941.9	2.8	18.2	2231.3	1272.8	5.1	2.0	1											
2	2139.4	807.0	2.0	0	2230.1	2006.2	35.3	5.7	2238.7	1914.1	5.7	18.8	2231.4	1275.2	4.0	2.0	2											
3	2139.4	806.7	4.0	3.8	2231.1	2053.0	27.3	5.6	2238.7	1887.3	5.7	18.8	2231.5	1280.5	4.6	1.9	3											
4	2139.7	813.4	3.5	0	2231.7	2083.5	19.0	3.4	2237.2	1865.0	8.1	18.8	2231.5	1282.0	4.2	3.1	4											
5	2203.5	837.0	11.9	0	2232.1	2103.0	16.1	6.0	2237.6	1841.1	5.9	18.2	2231.7	1288.2	5.7	2.3	5											
6	2202.7	905.3	34.4	0	2232.3	2116.1	11.6	8.1	2245.5	1786.2	4.2	18.2	2231.8	1292.8	6.3	3.8	6											
7	2203.8	903.3	17.7	0	2232.3	2116.1	11.6	8.1	2245.5	1786.2	4.2	18.2	2231.8	1292.4	6.5	8.7	7											
8	2209.1	1118.3	89.8	0	2232.5	2123.7	13.1	8.9	2245.0	1761.7	5.4	17.6	2231.8	1290.1	5.3	6.2	8											
9	2228.5	1928.0	408.2	0	2232.6	2130.3	12.8	8.6	2244.1	1734.9	1.2	16.4	2231.6	1285.9	3.9	5.9	9											
10	2232.5	2125.7	99.7	0	2232.8	2139.3	13.4	8.6	2243.8	1708.2	3.1	16.4	2231.2	1268.6	2.6	10.8	10											
11	2234.8	2208.8	41.9	0	2232.7	2136.8	8.8	10.0	2232.2	1691.7	2.7	15.8	2231.4	1237.6	2.4	17.6	11											
12	2235.3	2286.8	29.8	8.9	2232.6	2130.8	19.4	13.2	2232.8	1662.2	6.0	15.8	2231.5	1209.8	1.7	12.6	12											
13	2236.1	2309.8	21.9	0	2232.4	2121.7	10.0	14.0	2232.5	1651.3	11.6	17.0	2231.0	1172.9	1.7	15.6	13											
14	2236.8	2348.9	19.8	0	2232.3	2113.1	10.7	14.6	2232.0	1630.4	6.9	17.0	2230.8	1142.9	1.6	15.2	14											
15	2237.5	2384.6	18.2	0	2232.0	2102.5	8.3	13.2	2231.5	1607.7	6.4	17.6	2230.9	1118.0	1.6	13.6	15											
16	2238.0	2422.4	14.1	0	2231.9	2095.5	10.2	13.2	2231.1	1588.2	7.4	17.0	2230.4	1093.4	1.6	12.8	16											
17	2237.9	2408.7	10.5	12.0	2231.7	2086.0	8.8	13.2	2230.5	1562.8	4.6	17.0	2230.7	1069.1	1.6	12.4	17											
18	2237.2	2371.3	12.2	30.8	2231.5	2076.0	8.6	13.2	2230.9	1538.9	5.2	16.2	2230.3	1054.0	1.6	8.2	18											
19	2236.5	2332.0	11.2	30.7	2231.2	2061.5	6.3	13.2	2231.3	1513.6	5.7	18.2	2230.1	1049.2	1.6	2.0	19											
20	2235.7	2287.8	8.7	30.6	2231.0	2051.5	8.3	12.8	2231.7	1489.4	7.5	19.4	2230.2	1052.6	1.6	0.5	20											
21	2234.8	2245.0	9.5	30.5	2230.7	2036.4	5.8	12.8	2231.0	1460.3	6.7	20.8	2230.6	1065.7	1.6	0.1	21											
22	2234.0	2200.0	9.1	30.5	2230.5	2021.6	7.0	12.8	2231.5	1439.0	5.4	15.8	2230.6	1065.7	1.6	0.1	22											
23	2233.1	2153.5	7.0	30.5	2230.4	2022.9	11.9	12.8	2231.0	1416.5	4.7	15.8	2230.8	1071.8	2.4	0.1	23											
24	2232.1	2108.5	7.7	30.8	2230.6	2028.4	10.3	7.4	2231.6	1398.8	5.3	17.0	2230.9	1076.0	2.4	0.1	24											
25	2231.2	2060.5	7.5	31.0	2230.6	2032.8	6.4	3.8	2231.8	1369.6	6.2	17.6	2230.8	1081.9	3.2	0.1	25											
26	2230.3	2017.0	10.0	31.5	2230.7	2036.7	6.5	3.8	2231.2	1345.8	6.5	17.6	2230.2	1087.1	3.0	0.1	26											
27	2229.3	1968.6	7.6	31.5	2230.8	2040.2	5.9	3.8	2231.6	1322.1	5.6	17.0	2230.4	1092.0	2.8	0.1	27											
28	2228.3	1920.3	7.1	31.5	2230.8	2045.7	6.4	3.6	2232.5	1297.0	3.8	16.4	2230.5	1096.9	3.6	0.1	28											
29	2227.4	1874.1	8.7	31.5	2230.6	2032.0	4.3	10.0	2231.3	1274.4	4.7	15.8	2230.6	1101.8	2.9	0.2	29											
30					2230.1	2004.7	4.3	18.2	2231.2	1267.9	3.6	6.5	2230.8	1107.4	3.2	0.2	30											
31					2229.4	1973.5	6.2	17.0	2231.2	1267.9	3.6	6.5	2230.9	1112.7	3.0	0.1	31											
TOTAL	936.1				387.2				373.1				165.3				512.3				96.1				163.2			
Inf. Ac. Ft.	1856.8				740.1								327.9								190.6							
Chf. Ac. Ft.	768.0 + (15.6)				616.1 + (24.6)								1016.1 + (17.3)				323.7 + (22.1)											
Max. Mean Daily Inf.	408.2				49.4								11.6				7.0											
Min. Mean Daily Inf.	1.8				2.0								2.7				1.6											
Storage Change	1073.2				99.4								-705.6				-355.2											

Day	JUNE				JULY				AUGUST				SEPTEMBER				Day</
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LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

DAM OPERATION RECORD

BIG TULUNGA DAM

1976-77

DRAINAGE AREA 82.3 SQ. MI.
RESERVOIR CAPACITY 6026.8 A.F.
AT SPILLWAY ELEVATION 2290.0 FT.
AS OF OCTOBER, 1970

GAGE HEIGHTS AND STORAGE
ARE AS OF MOMENT ON DAM SHOWN

Table with columns for OCTOBER, NOVEMBER, DECEMBER, and JANUARY. Each month has sub-columns for Gage Height, Acft Storage, CFS Inflow, and CFS Outflow. Rows include dates from 10/01 to 1/31. Summary statistics are provided at the bottom.

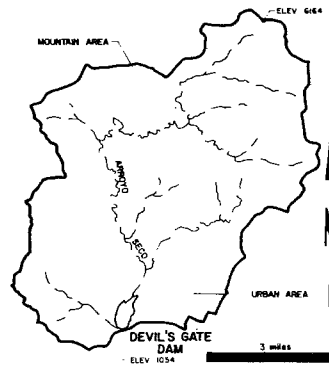
Table with columns for FEBRUARY, MARCH, APRIL, and MAY. Each month has sub-columns for Gage Height, Acft Storage, CFS Inflow, and CFS Outflow. Rows include dates from 2/01 to 5/31. Summary statistics are provided at the bottom.

Table with columns for JUNE, JULY, AUGUST, and SEPTEMBER. Each month has sub-columns for Gage Height, Acft Storage, CFS Inflow, and CFS Outflow. Rows include dates from 6/01 to 9/30. Summary statistics and remarks are provided at the bottom.

# DEVIL'S GATE DAM AND RESERVOIR



## drainage area



**PURPOSE -**  
Flood Control and Conservation

**DATE CONSTRUCTED -**  
Started May 1919 - completed June 1920

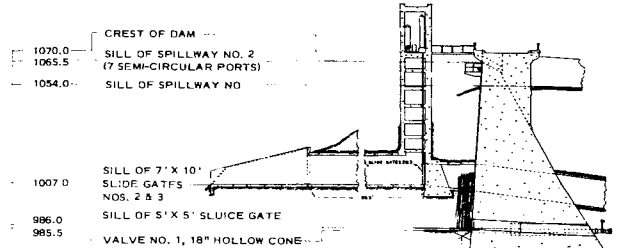
**LOCATION -**  
On Arroyo Seco, northwest of Pasadena

**DRAINAGE AREA -** 31.9 square miles

**CAPACITY -** 1,928 acre-feet

**SPILLWAY ELEVATION -** 1,054.0 feet

## cross-section



## DEVILS GATE DAM

YEARLY SEASON	RESERVOIR ANNUAL AF	OPERATION		SUMMARY		
		INFLOW MAX-DAY CFS	MIN-DAY CFS	OUTFLOW ANNUAL AF	PEAK MC	INFLOW DAY CFS
1933-34	2938	757	0	0	1	3310
1934-35	2843	N.D.	0	N.D.	10	1310
1935-36	3457	N.D.	0	86	2	939
1936-37	12030	340	0	2818	2	852
1937-38	25436	3720	0	17496	3	10840
1938-39	3044	200	0	634	12	201
1939-40	1350	142	0	745	1	859
1940-41	27013	1380	0	24582	2	3870
1941-42	689	91	0	443	12	479
1942-43	25655	2560	0	23552	1	23
1943-44	8680	1450	0	7905	2	22
1944-45	2341	288	0	2031	11	11
1945-46	2994	435	0	1343	12	22
1946-47	4045	285	0	3949	12	25
1947-48	260	32	0	57	3	24
1948-49	165	14	0	37	3	10
1949-50	318	37	0	81	2	6
1950-51	171	18	0	17	1	11
1951-52	11508	792	0	11377	1	16
1952-53	563	51	0	194	11	15
1953-54	1324	178	0	488	1	25
1954-55	651	50	0	154	1	18
1955-56	2229	591	0	1339	1	26
1956-57	926	111	0	142	2	23
1957-58	9642	447	0	6508	4	3
1958-59	1055	160	0	465	1	6
1959-60	1052	46	0	131	1	11
1960-61	1035	131	0	488	11	6
1961-62	7014	570	0	5260	2	11
1962-63	1215	289	0	251	2	9
1963-64	860	81	0	170	1	21
1964-65	1721	170	0	246	4	5
1965-66	15667	1340	0	13199	11	22
1966-67	16391	934	0	6057	12	6
1967-68	6958	698	0	2233	11	19
1968-69	44817	4220	0	39164	1	25
1969-70	2109	202	0	1311	3	4
1970-71	3098	682	0	1894	11	25
1971-72	798	152	0	+	12	24
1972-73	8298	1517	0	5615	2	11
1973-74	4032	589	0	2749	1	7
1974-75	2024	237	0	711	3	6
1975-76	2172	281	0	1204	09	10
1976-77	1662	177	0	1593	1	3

N.D. = NOT DETERMINED  
+ = LESS THAN 0.05 ACRE FEET OR LESS THAN 0.05 CFS, BUT GREATER THAN 0.





LOS ANGELES COUNTY FLOOD CONTROL DISTRICT  
**DAM OPERATION RECORD**

DEVIL'S GATE DAM  
 1976-77

DRAINAGE AREA 31.9 SQ. MI.  
 RESERVOIR CAPACITY 2502 A.F.  
 AT SPILLWAY ELEVATION 1054.0 FT.  
 AS OF MARCH, 1977

GAUGE HEIGHTS AND STORAGE  
 ARE AS OF MIDNIGHT ON DAY SHOWN

Day	OCTOBER				NOVEMBER				DECEMBER				JANUARY			
	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow
1			0.2	0.2			0.2	0.2			0.2	0.2	989.00	0	7.3	7.3
2			0.2	0.2			0.2	0.2			0.2	0.2	1021.56	67.4	40.7	5.7
3			0.2	0.2			0.2	0.2			0.2	0.2	1027.36	178.3	119.9	62.1
4			0.2	0.2			0.2	0.2			0.2	0.2	1021.88	69.6	51.2	105.0
5			0.2	0.2			0.2	0.2			0.2	0.2	998.13	0.2	27.5	61.2
6			0.2	0.2			0.2	0.2			0.2	0.2	989.00	0	18.5	18.7
7			0.2	0.2			0.2	0.2			0.2	0.2	989.00	0	131.0	131.0
8			0.2	0.2			0.2	0.2			0.2	0.2	989.00	0	12.4	12.4
9			0.2	0.2			0.2	0.2			0.2	0.2	989.00	0	7.8	7.8
10			0.2	0.2			0.2	0.2			0.2	0.2	989.00	0	5.2	5.2
11		N	0.2	0.2		N	0.2	0.2		N	0.2	0.2	989.00	0	3.1	3.1
12		O	0.2	0.2		O	7.0	7.0		O	0.2	0.2	989.00	0	1.0	1.0
13			0.2	0.2			1.0	1.0			0.2	0.2	989.00	0	0.5	0.5
14		S	0.2	0.2		S	0.5	0.5		S	0.2	0.2	989.00	0	0.5	0.5
15		T	0.2	0.2		T	0.2	0.2		T	0.2	0.2	989.00	0	0.5	0.5
16		O	0.2	0.2		O	0.2	0.2		O	0.2	0.2	989.00	0	0.5	0.5
17		R	0.2	0.2		R	0.2	0.2		R	0.2	0.2	989.00	0	0.5	0.5
18		A	0.2	0.2		A	0.2	0.2		A	0.2	0.2	989.00	0	0.5	0.5
19		G	0.2	0.2		G	0.2	0.2		G	0.2	0.2	989.00	0	0.5	0.5
20		E	0.2	0.2		E	0.2	0.2		E	0.2	0.2	989.00	0	0.5	0.5
21			0.2	0.2			0.2	0.2			0.2	0.2	989.00	0	0.5	0.5
22			5.2	5.2			0.2	0.2			0.2	0.2	989.00	0	0.5	0.5
23			1.5	1.5			0.2	0.2			0.2	0.2	989.00	0	0.5	0.5
24			0.5	0.5			0.2	0.2			0.2	0.2	989.00	0	0.5	0.5
25			0.2	0.2			0.2	0.2			0.2	0.2	989.00	0	0.5	0.5
26			0.2	0.2			0.2	0.2			0.2	0.2	989.00	0	0.5	0.5
27			0.2	0.2			0.2	0.2			0.2	0.2	989.00	0	0.5	0.5
28			0.2	0.2			0.2	0.2			0.2	0.2	989.00	0	0.5	0.5
29			0.2	0.2			0.2	0.2			0.2	0.2	989.00	0	0.4	0.4
30			0.2	0.2			0.2	0.2			11.2	11.2	989.00	0	0.4	0.4
31			0.2	0.2			0.2	0.2			11.1	11.1	989.00	0	0.4	0.4
TOTAL			12.8	12.8			13.9	13.9			28.1	28.1			435.3	430.4
Inf. Ac Ft.			25.3				27.5				55.7				863.4	
Out. Ac Ft.			25.3				27.5				55.7				852.6 + (9.7)	
Max. Mean Daily Inf.			5.2				7.0				11.2				131.1	
Min. Mean Daily Inf.			0.2				0.2				0.2				0.4	
Storage Change			0.0				0.0				0.0				0.0	

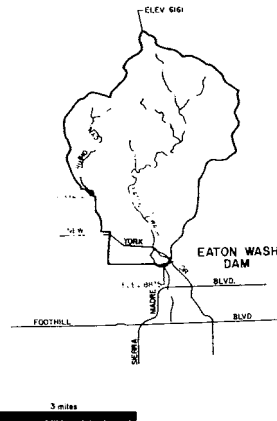
Day	FEBRUARY				MARCH				APRIL				MAY			
	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow
1	989.00	0	0.4	0.4	998.83	2.0	0.2	0.2	989.00	0	0.1	0.1	989.00	0	0	0
2	989.00	0	0.4	0.4	998.80	2.0	0.2	0.2	989.00	0	0.1	0.1	989.00	0	0	0
3	989.00	0	0.4	0.4	998.77	2.0	0.3	0.3	989.00	0	0	0	989.00	0	0	0
4	989.00	0	0.4	0.4	998.73	2.0	0.2	0.2	989.00	0	0	0	989.00	0	0	0
5	989.00	0	0.4	0.4	998.69	1.9	0.1	0.2	989.00	0	0	0	989.00	0	0	0
6	989.00	0	0.4	0.4	998.65	1.9	0.3	0.3	989.00	0	0	0	989.00	0	0	0
7	989.00	0	0.4	0.4	998.60	1.9	0.3	0.3	989.00	0	0.1	0.1	989.00	0	0	0
8	989.00	0	0.4	0.4	998.58	1.9	0.3	0.3	989.00	0	0.1	0.1	989.00	0	43.8	43.8
9	989.00	0	0.4	0.4	998.49	1.8	0.3	0.3	989.00	0	0.1	0.1	1000.87	3.3	176.7	175.0
10	989.00	0	0.4	0.4	998.43	1.8	0.3	0.3	989.00	0	0.1	0.1	989.00	0	14.6	16.3
11	989.00	0	0.4	0.4	998.36	1.8	0.2	0.2	N	0.1	0.1	989.00	0	6.3	6.3	
12	989.00	0	0.4	0.4	998.31	1.8	0.2	0.2	O	0	0	989.00	0	9.2	9.2	
13	989.00	0	0.4	0.4	998.28	1.7	0.1	0.2			0	0	989.00	0	1.2	1.2
14	989.00	0	0.3	0.3	998.22	1.7	0.2	0.2	S	0	0	989.00	0	0	0	
15	989.00	0	0.3	0.3	998.16	1.7	0.2	0.2	T	0	0	989.00	0	0	0	
16	989.00	0	0.3	0.3	1015.41	32.2	16.4	1.0	O	0	0	989.00	0	0	0	
17	989.00	0	0.3	0.3	1014.97	30.6	0.3	1.1	R	0	0	989.00	0	0	0	
18	990.30	0	0.3	0.3	1014.71	29.7	0.4	0.8	A	0	0	989.00	0	0	0	
19	990.70	0.1	0.3	0.2	1014.50	29.0	0.1	0.5	G	0	0	989.00	0	0	0	
20	991.20	0.1	0.2	0.2	1014.33	28.4	0.1	0.4	E	0	0	989.00	0	0	0	
21	991.70	0.1	0.2	0.2	1014.16	27.8	0.1	0.4			0	0	989.00	0	0	0
22	992.25	0.1	0.2	0.2	1014.03	27.4	0.1	0.3			0	0	989.00	0	0	0
23	998.03	1.4	0.9	0.2	1013.89	27.0	0.1	0.3			0	0	989.00	0	0.2	0.2
24	998.50	1.9	0.4	0.2	995.73	0.8	20.1	33.3			0	0	989.00	0	0	0
25	998.74	2.0	0.2	0.2	989.00	0	8.7	9.1			0	0	989.00	0	0	0
26	998.72	2.0	0.2	0.2	989.00	0	4.3	4.3			0	0	989.00	0	0	0
27	998.71	2.0	0.2	0.2	989.00	0	1.2	1.2			0	0	989.00	0	0	0
28	998.66	2.0	0.2	0.2	989.00	0	0.3	0.3			0	0	989.00	0	0	0
29			0.2	0.2	989.00	0	0.2	0.2			0	0	989.00	0	0	0
30			0.2	0.2	989.00	0	0.1	0.1			0	0	989.00	0	0	0
31			0.2	0.2	989.00	0	0.1	0.1			0	0	989.00	0	0	0
TOTAL			9.7	8.7			56.0	57.0			0.7	0.7			252.0	252.0
Inf. Ac Ft.			19.2				111.0				1.3				499.8	
Out. Ac Ft.			17.2				113.0				1.3				499.8	
Max. Mean Daily Inf.			0.9				20.1				0.1				176.7	
Min. Mean Daily Inf.			0.2				0.1				0				0	
Storage Change			2.0				2.0				0				0	

Day	JUNE				JULY				AUGUST				SEPTEMBER			
	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow
1			0	0			0	0	989.00	0	0	0	1019.93	54.0	0	0
2			0	0			0	0	989.00	0	0	0	1019.80	53.2	0	0
3			0	0			0	0	989.00	0	0	0	1019.65	52.3	0	0
4			0	0			0	0	989.00	0	0	0	1019.53	51.6	0	0
5			0	0			0	0	989.00	0	0	0	1019.40	50.8	0	0
6			0	0			0	0	989.00	0	0	0	1019.25	49.9	0	0
7			0	0			0	0	989.00	0	0	0	1019.13	49.2	0	0
8			0	0			0	0	989.00	0	0	0	1019.03	48.6	0	0
9			0	0			0	0	989.00	0	0	0	1018.87	47.7	0	0
10			0	0			0	0	989.00	0	0	0	1018.67	46.7	0	0
11		N	0	0		N	0	0	989.00	0	0	0	1018.53	45.9	0	0
12		O	0	0		O	0	0	989.00	0	0	0	1018.43	45.4	0	0
13			0	0			0	0	989.00	0	0	0	1018.27	44.5	0	0
14		S	0	0		S	0	0	989.00	0	0	0	1018.10	43.6	0	0
15		T	0	0		T	0	0	989.00	0	0	0	1017.95	42.9	0	0
16		O	0	0		O	0	0	993.50	0.3	0.2	0	1017.83	42.3	0	0
17		R	0	0		R	0	0	1022.48	77.1	38.7	0	1017.70	41.7	0	0
18		A	0	0		A	0	0	1022.12	72.7	0.7	0	1017.55	41.0	0	0
19		G	0	0		G	0	0	1021.83	69.7	0.1	0	1017.43	40.5	0	0
20		E	0	0		E	0	0	1021.62	67.7	0	0	1017.27	39.7	0	0
21																

# EATON WASH DAM AND RESERVOIR



## drainage area



**PURPOSE -**  
Debris Storage and Conservation

**DATE CONSTRUCTED -**  
Started January 1936 - Completed February 1937

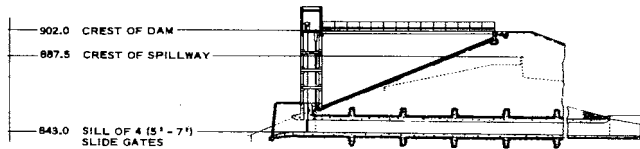
**LOCATION -**  
Eaton Wash, northeast of Pasadena

**DRAINAGE AREA -** 12.4 square miles

**CAPACITY -** 879 acre-feet

**SPILLWAY ELEVATION -** 887.5 feet

## cross-section



### EATON DAM

#### YEARLY RESERVOIR OPERATION SUMMARY

SEASON	ANNUAL AF	INFLOW MAX-DAY CFS	MIN-DAY CFS	OUTFLOW ANNUAL AF	MO	DAY	PEAK INFLOW CFS
1936-37	3062	112	0	1502			N.D.
1937-38	6993	883	0	5213	3	2	2670
1938-39	340	51	0	84	12	18	169
1939-40	390	31	0	96	1	8	220
1940-41	7323	188	0	6089	2	20	426
1941-42	78	11	0	0	12	10	73
1942-43	7212	498	0	6399	1	23	1700
1943-44	2901	265	0	1970	2	22	371
1944-45	331	52	0	101	11	11	204
1945-46	514	77	0	265	12	23	284
1946-47	746	74	0	507	11	13	286
1947-48	64	11	0	5.0	4	28	90
1948-49	36	4.7	0	1.2	1	20	10
1949-50	188	23	0	61	12	18	88
1950-51	44	3.8	0	7.5	1	11	80
1951-52	2636	151	0	2020	1	16	495
1952-53	145	18	0	0	12	1	225
1953-54	533	56	0	202	1	19	220
1954-55	146	14	0	0	1	18	91
1955-56	330	123	0	151	1	26	422
1956-57	127	20	0	9.2	2	23	138
1957-58	3114	150	0	2248	4	1	443
1958-59	301	46	0	152	1	6	702
1959-60	60	5.8	0	0	1	11	48
1960-61	61	10	0	0	1	26	39
1961-62	1729	322	0	1299	2	11	737
1962-63	177	51	0	19	2	9	198
1963-64	222	38	0	33	1	22	246
1964-65	534	49	0	328	4	9	220
1965-66	5400	415	0	4267	12	29	1520
1966-67	3856	317	0	1907	12	6	595
1967-68	1304	133	0	404	11	19	331
1968-69	20866	1110	0	18644	1	25	2540
1969-70	718	90	0	527	3	5	878
1970-71	809	178	0	581	11	29	457
1971-72	207	42	0	*	12	27	107
1972-73	4299	532	0	2844	2	11	587
1973-74	2420	200	0	1407	1	7	309
1974-75	672	79	0	418	3	6	81
1975-76	893	74	0	424	03	01	175
1976-77	461	36	0	281	1	3	191

N.D. = NOT DETERMINED

\* = LESS THAN 0.05 ACRE FEET OR LESS THAN 0.05 CFS, BUT GREATER THAN 0.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT  
**DAM OPERATION RECORD**

Eaton Dam  
 1975-76

DRAINAGE AREA 12.42 SQ. MI.  
 CAPACITY OF RESERVOIR 832.4 AC. FT.  
 @ SPILLWAY ELEVATION 887.5 FT.  
 as of July 18 75

GAGE HEIGHTS AND STORAGES  
 ARE AS OF MIDNIGHT ON DAY SHOWN.

Day	OCTOBER				NOVEMBER				DECEMBER				JANUARY				Day
	Gage Height	Acres-Fl. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Fl. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Fl. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Fl. Storage	CFS Inflow	CFS Outflow	
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			0	0			0	0	31
TOTAL			0	0			0	0			0	0			0	0	
Inf. Ac. Ft.			0				0				0				0		
Outf. Ac. Ft.			0				0				0				0		
Max. Mean Daily Inf.			0				0				0				0		
Min. Mean Daily Inf.			0				0				0				0		
Storage Change			0				0				0				0		

Day	FEBRUARY				MARCH				APRIL				MAY				Day
	Gage Height	Acres-Fl. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Fl. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Fl. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Fl. Storage	CFS Inflow	CFS Outflow	
1	845.2	0.0	0	0	868.3	172.9	28.5	0.1	846.7	0	0	0			0	0	1
2	845.2	0.0	0	0	870.1	213.1	27.3	0.2	845.2	0	0	0			0	0	2
3	845.2	0.0	0	0	870.2	216.8	8.7	0.1	845.2	0	0	0			0	0	3
4	845.2	0.0	0	0	870.1	214.4	5.6	0	845.2	0	0	0			0	0	4
5	854.3	12.1	7.1	0	863.9	209.8	4.4	0	846.7	0	0	0			0	0	5
6	827.7	32.1	12.1	1.0	859.7	206.8	3.7	0	846.7	0	0	0			0	0	6
7	857.2	32.0	2.2	1.3	869.5	200.2	4.4	0.1	846.7	0	0	0			0	0	7
8	860.7	57.7	15.4	1.3	869.3	195.4	3.4	0.1	846.7	0	0	0			0	0	8
9	867.2	150.4	50.1	0.3	869.1	191.7	3.9	0	846.7	0	0	0			0	0	9
10	867.2	156.6	6.9	0.2	869.0	187.9	3.6	0	846.7	0	0	0			0	0	10
11	867.1	148.4	0	0.2	868.8	184.0	2.9	0	846.7	0	0	0			0	0	11
12	866.7	140.6	0	0.2	868.6	180.2	2.9	0	853.2	7.7	4.7	0			0	0	12
13	866.3	134.4	0.7	0.2	868.4	176.3	2.6	0	853.7	9.8	1.9	0			0	0	13
14	866.0	129.0	0	0.2	868.3	172.5	2.6	0	853.5	9.1	0.4	0			0	0	14
15	865.8	124.2	0	0.2	868.1	168.8	2.5	0	853.4	8.6	0.6	0			0	0	15
16	865.5	120.6	0.1	0.2	868.4	135.5	1.5	15.7	853.3	8.0	0.8	0.2			0	0	16
17	865.3	116.8	0	0.2	863.1	85.0	3.2	27.1	853.1	7.3	1.7	1.3			0	0	17
18	865.1	113.2	0.1	0.3	858.3	36.7	2.8	26.2	852.9	6.5	1.5	1.3			0	0	18
19	864.9	110.1	0.3	0.3	854.6	13.6	2.3	13.1	852.6	5.6	1.6	1.5			0	0	19
20	864.7	107.2	0	0	854.4	12.6	0.5	0.2	852.2	4.5	1.4	1.5			0	0	20
21	864.5	104.4	0.2	0.1	854.1	11.3	0.6	0.5	846.7	0	0	1.9			0	0	21
22	864.3	101.5	0	0.1	853.8	9.9	0.9	0.8	845.2	0	0	0			0	0	22
23	864.1	99.0	0.2	0.2	853.4	8.5	0.8	0.8	845.2	0	0	0			0	0	23
24	863.9	96.6	0.3	0.2	852.5	5.4	0.5	1.5	845.2	0	0	0			0	0	24
25	863.8	94.3	0.4	0.2	851.0	2.0	0.1	1.1	845.2	0	0	0			0	0	25
26	863.6	92.2	0.4	0.2	849.8	0.7	0.3	0.5	845.2	0	0	0			0	0	26
27	863.6	90.1	0.4	0.2	849.1	0.3	0.4	0.2	845.2	0	0	0			0	0	27
28	863.3	87.9	0.4	0.3	848.8	0.2	0.5	0.2	845.2	0	0	0			0	0	28
29	863.1	85.9	0.8	0.5	848.3	0.1	0.1	0	845.2	0	0	0			0	0	29
30					848.2	0.1	0.1	0	845.2	0	0	0			0	0	30
31					848.2	0.1	0.1	0	845.2	0	0	0			0	0	31
TOTAL			98.1	8.1			141.4	88.9			14.7	7.8					
Inf. Ac. Ft.			194.6				280.5				29.2						
Outf. Ac. Ft.			16.2 + (92.5)				176.3 + (190.0)				15.5 + (13.8)						
Max. Mean Daily Inf.			50.1				48.4				4.7						
Min. Mean Daily Inf.			0				0.1				0						
Storage Change			85.9				-85.8				-0.1						

Day	JUNE				JULY				AUGUST				SEPTEMBER				Day
	Gage Height	Acres-Fl. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Fl. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Fl. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Fl. Storage	CFS Inflow	CFS Outflow	
1			0	0			0	0			0	0	847.1	0	0	0	1
2			0	0			0	0			0	0	847.1	0	0	0	2
3			0	0			0	0			0	0	847.1	0	0	0	3
4			0	0			0	0			0	0	847.1	0	0	0	4
5			0	0			0	0			0	0	851.7	3.3	1.7	0	5
6			0	0			0	0			0	0	850.8	1.8	0	0	6
7			0	0			0	0			0	0	850.4	1.3	0.1	0	7
8			0	0			0	0			0	0	846.8	0	0	0.5	8
9			0	0			0	0			0	0	846.8	0	0	0	9
10			0	0			0	0			0	0	866.4	135.7	73.3	0.9	10
11			0	0			0	0			0	0	872.1	265.0	74.3	0.1	11
12			0	0			0	0			0	0	871.6	241.0	1.9	0	12
13			0	0			0	0			0	0	871.2	241.2	3.5	0	13
14			0	0			0	0			0	0	870.9	233.6	4.1	0	14
15			0	0			0	0			0	0	870.7	228.9	5.2	0	15
16			0	0			0	0			0	0	870.5	223.1	4.3	0.1	16
17			0	0			0	0			0	0	870.3	217.8	4.4	0.1	17
18			0	0			0	0			0	0	870.1	212.9	4.7	0.1	18
19			0	0			0	0			0	0	869.9	208.2	4.3	0.1	19
20			0	0			0	0			0	0	868.5	177.6	4.8	15.9	20
21			0	0			0	0			0	0	866.3	133.3	3.2	23.3	21
22			0	0			0	0			0	0	863.6	92.0	2.3	21.8	22
23			0	0			0	0			0	0	860.3	53.8	2.1	20.4	23
24			0	0			0	0			0	0	857.8	32.9	1.4	10.9	24
25			0	0			0	0			0	0	857.8	32.4	1.0	0.2	25
26			0	0			0	0									

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT  
DAM OPERATION RECORD

ERTON WASH DAM  
1976-77

DRAINAGE AREA 12.42 SQ. MI.  
RESERVOIR CAPACITY 832.4 A.F.  
AT SPILLWAY ELEVATION 887.5 FT.  
AS OF JULY, 1975

DADE HEIGHTS AND STORAGES  
ARE AS OF MIDNIGHT ON DAY SHOWN

Date	OCTOBER				NOVEMBER				DECEMBER				JANUARY			
	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow
1	847.00	0	0	0	849.28	0.5	0	0	847.00	0	0	0	847.51	79.5	11.2	0
2	847.00	0	0	0	849.44	0.5	0	0	847.00	0	0	0	855.52	18.3	10.0	0
3	847.00	0	0	0	849.37	0.4	0	0	847.00	0	0	0	861.68	70.7	28.4	0.1
4	847.00	0	0	0	847.00	0	0	0	847.00	0	0	0	861.61	67.6	0.3	0
5	847.00	0	0	0	847.00	0	0	0	847.00	0	0	0	862.42	77.1	7.1	0
6	847.00	0	0	0	847.00	0	0	0	847.00	0	0	0	864.11	102.5	17.8	0
7	847.00	0	0	0	847.00	0	0	0	847.00	0	0	0	868.07	168.4	35.9	0.1
8	847.00	0	0	0	847.00	0	0	0	847.00	0	0	0	868.20	171.2	6.2	0
9	847.00	0	0	0	847.00	0	0	0	847.00	0	0	0	868.03	167.5	2.7	0
10	847.00	0	0	0	847.00	0	0	0	847.00	0	0	0	865.60	139.5	3.6	13.9
11	847.00	0	0	0	849.54	0.5	0.4	0	847.00	0	0	0	864.09	98.8	4.1	21.8
12	847.00	0	0	0	856.15	21.7	12.1	0.5	847.00	0	0	0	861.10	61.9	5.2	21.8
13	847.00	0	0	0	855.79	19.7	0.3	0.5	847.00	0	0	0	857.30	29.1	5.0	20.4
14	847.00	0	0	0	855.45	17.9	0.1	0.5	847.00	0	0	0	853.70	9.7	2.0	11.1
15	847.00	0	0	0	855.11	16.1	0	0.5	847.00	0	0	0	853.36	8.4	0.9	0.5
16	847.00	0	0	0	854.76	14.4	0	0.5	847.00	0	0	0	852.73	6.8	0.6	0.8
17	847.00	0	0	0	854.41	12.7	0	0.5	847.00	0	0	0	847.00	0	0	1.7
18	847.00	0	0	0	854.03	10.9	0	0.5	847.00	0	0	0	847.00	0	0	0
19	847.00	0	0	0	853.62	9.4	0	0.5	847.00	0	0	0	847.00	0	0	0
20	847.00	0	0	0	853.18	7.7	0	0.5	847.00	0	0	0	850.15	1.0	1.0	0
21	847.00	0	0	0	852.67	6.1	0	0.5	847.00	0	0	0	849.32	0.4	0	2.0
22	847.00	0	0	0	851.95	3.9	0	0.5	847.00	0	0	0	848.19	0.1	0	0
23	851.62	3.2	2.1	0	851.03	2.1	0	0.5	847.00	0	0	0	847.44	0	0	0
24	851.26	2.7	0.1	0	849.75	0.7	0	0.3	847.00	0	0	0	847.34	0	0	0
25	851.08	2.2	0.1	0	847.00	0	0	0.1	847.00	0	0	0	847.00	0	0	0
26	850.80	1.8	0	0	847.00	0	0	0	847.00	0	0	0	847.00	0	0	0
27	850.54	1.4	0	0	847.00	0	0	0	847.00	0	0	0	847.00	0	0	0
28	850.27	1.1	0.1	0	847.00	0	0	0	847.00	0	0	0	847.00	0	0	0
29	850.00	0.8	0.1	0	847.00	0	0	0	847.00	0	0	0	847.00	0	0	0
30	849.88	0.7	0.1	0	847.00	0	0	0	847.00	1.1	0.6	0	847.00	0	0	0
31	849.73	0.6	0.1	0	847.00	0	0	0	849.85	0.7	0.5	0	847.00	0	0	0
TOTAL			2.1	0				12.9	6.4		1.1	0			131.0	92.5
Inf. Ac. Ft.		4.1						25.5			2.1				259.8	
Diff. Ac. Ft.								12.5	(13.4)						183.4	(77.1)
Max. Mean Daily Inf.			2.1					12.1			0.6	(1.3)			35.9	
Min. Mean Daily Inf.			0.00001					0			0				0	
Storage Change			0.6					0.6			0.7				0.7	

Date	FEBRUARY				MARCH				APRIL				MAY			
	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow
1	847.00	0	0	0	847.00	0	0	0	847.00	0	0	0.3	847.00	0	0	0
2	847.00	0	0	0	847.00	0	0	0	847.00	0	0	0	847.00	0	0	0
3	847.00	0	0	0	847.00	0	0	0	847.00	0	0	0	847.00	0	0	0
4	847.00	0	0	0	847.00	0	0	0	847.00	0	0	0	847.00	0	0	0
5	847.00	0	0	0	847.00	0	0	0	847.00	0	0	0	847.00	0	0	0
6	847.00	0	0	0	847.00	0	0	0	847.00	0	0	0	847.00	0	0	0
7	847.00	0	0	0	847.00	0	0	0	847.00	0	0	0	847.00	0	0	0
8	847.00	0	0	0	847.00	0	0	0	847.00	0	0	0	859.93	50.2	26.7	0.6
9	847.00	0	0	0	847.00	0	0	0	847.00	0	0	0	864.36	102.8	29.2	0.2
10	847.00	0	0	0	847.00	0	0	0	847.00	0	0	0	864.27	101.5	1.7	0.1
11	847.00	0	0	0	847.00	0	0	0	N	0	0	0	864.01	97.6	0.1	0.1
12	847.00	0	0	0	847.00	0	0	0	O	0	0	0	863.81	95.0	0.1	0.1
13	847.00	0	0	0	847.00	0	0	0		0	0	0	863.60	92.2	0	0.1
14	847.00	0	0	0	847.00	0	0	0	S	0	0	0	863.41	89.7	0	0.1
15	847.00	0	0	0	847.00	0	0	0	T	0	0	0	863.23	87.3	0	0.1
16	847.00	0	0	0	852.76	4.3	3.7	0.2		0	0	0	863.06	85.0	0	0.1
17	847.00	0	0	0	853.00	7.0	0.8	0.2	R	0	0	0	862.89	82.9	0	0.2
18	847.00	0	0	0	852.80	6.4	0.2	0.2	A	0	0	0	862.73	80.9	0	0.2
19	847.00	0	0	0	852.40	5.2	0	0.2	G	0	0	0	862.58	79.1	0	0.3
20	847.00	0	0	0	852.10	4.3	0	0.2		0	0	0	862.42	77.1	0	0.5
21	847.00	0	0	0	851.80	3.6	0	0.2	E	0	0	0	862.27	75.3	0	0.5
22	847.00	0	0	0	851.40	2.8	0	0.2		0	0	0	862.13	73.6	0	0.5
23	847.00	0	0	0	851.02	2.0	0	0.2		0	0	0	860.11	51.9	0.2	10.4
24	847.82	0.1	0.3	0	850.67	1.6	0	0.1		0	0	0	856.15	21.7	0.1	13.8
25	847.00	0	0	0	854.77	14.4	7.3	0.2		0	0	0	851.44	2.9	0	4.9
26	847.00	0	0	0	854.63	13.8	0.4	0.2		0	0	0	847.00	0	0	0.2
27	847.00	0	0	0	854.46	13.0	0.1	0.2		0	0	0	847.00	0	0	0
28	847.00	0	0	0	854.30	12.2	0	0.2		0	0	0	847.00	0	0	0
29	847.00	0	0	0	854.15	11.5	0	0.2		0	0	0	847.00	0	0	0
30	847.00	0	0	0	853.97	10.7	0	0.2		0	0	0	847.00	0	0	0
31	847.00	0	0	0	851.94	3.2	0	1.5		0	0	0	847.00	0	0	0
TOTAL			0.3	0				12.5	4.4		0	0.3			58.0	33.0
Inf. Ac. Ft.			0.5					24.7			0				115.0	
Diff. Ac. Ft.			0					8.7	(12.0)		0.5	(3.3)			45.4	(49.5)
Max. Mean Daily Inf.			0.3					7.3			0.5				29.2	
Min. Mean Daily Inf.			0					0			0				0	
Storage Change			0					3.9			-3.9				0	

Date	JUNE				JULY				AUGUST				SEPTEMBER			
	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow
1			0	0			0	0	847.00	0	0	0			0	0
2			0	0			0	0	847.00	0	0	0			0	0
3			0	0			0	0	847.00	0	0	0			0	0
4			0	0			0	0	847.00	0	0	0			0	0
5			0	0			0	0	847.00	0	0	0			0	0
6			0	0			0	0	847.00	0	0	0			0	0
7			0	0			0	0	847.00	0	0	0			0	0
8			0	0			0	0	847.00	0	0	0			0	0
9			0	0			0	0	847.00	0	0	0			0	0
10			0	0			0	0	847.00	0	0	0			0	0
11	N		0	0	N		0	0	847.00	0	0	0	N		0	0
12	O		0	0	O		0	0	847.00	0	0	0	O		0	0
13			0	0			0	0	847.00	0	0	0			0	0
14	S		0	0	S		0	0	847.00	0	0	0	S		0	0
15	T		0	0	T		0	0	847.00	0	0	0	T		0	0
16			0	0			0	0	847.24	0	0.1	0			0	0
17	R		0	0	R		0	0	856.77	25.6	14.2	0.2	R		0	0
18	A		0	0	A		0	0	856.33	22.8	0.5	0.2	A		0	0
19	E		0	0	E		0	0	855.94	20.5	0	0.2	E			

# SANTA ANITA DAM AND RESERVOIR



## drainage area



**PURPOSE -**  
Flood Control and Conservation

**DATE CONSTRUCTED -**  
Started October 1924 - Completed March 1927

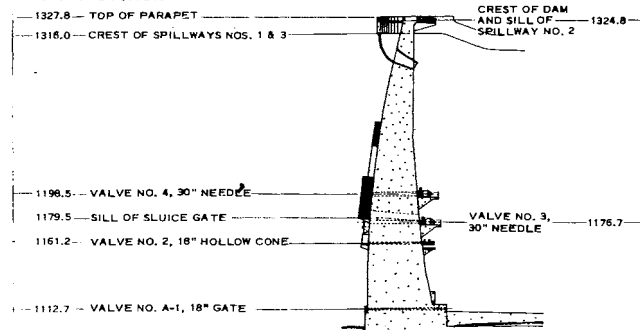
**LOCATION -** 2.5 miles north of Arcadia

**DRAINAGE AREA -** 10.8 square miles

**CAPACITY -** 836 acre-feet

**SPILLWAY ELEVATION -** 1,316.0 feet

## cross-section



### SANTA ANITA DAM

YEARLY SEASON	RESERVOIR ANNUAL AF	OPERATION		SUMMARY INFLW MAX-DAY CFS	OUTFLOW ANNUAL AF	PEAK INFLW		
		MIN-DAY CFS				MO	DAY	CFS
1926-27	1208	13	0.4	1030				N.D.
1927-28	1009	22	0.1	1162				N.D.
1928-29	1214	30	0	1256				N.D.
1929-30	1276	25	0.1	964				N.D.
1930-31	989	34	0	1155				N.D.
1931-32	4010	236	0.1	3883				N.D.
1932-33	2190	152	0	2022	1	15		390
1933-34	2603	322	0	2622	1	1		800
1934-35	3693	92	0.1	3585	4	8		449
1935-36	2480	84	0	2535	2	12		228
1936-37	8798	192	0	8616	2	6		313
1937-38	16594	1780	1.3	16689	3	2		5140
1938-39	2726	74	0.4	2461	12	15		159
1939-40	2743	62	0.4	2664	1	8		378
1940-41	15225	239	0.4	15235	3	4		300
1941-42	2070	25	0.6	2140	12	29		53
1942-43	19371	1110	0.6	15440	1	23		3100
1943-44	7463	514	1.3	7294	2	22		813
1944-45	4147	101	1.1	4133	11	11		303
1945-46	3426	164	0.8	3360	12	23		492
1946-47	4489	122	0.7	4462	11	20		382
1947-48	1075	14	0.3	1243	4	28		41
1948-49	1031	17	0.2	983	1	20		32
1949-50	1357	30	0.2	1311	12	18		115
1950-51	460	4.5	0.1	497	1	11		10
1951-52	8408	351	0.1	8292	1	16		837
1952-53	1562	20	0.5	1729	12	1		153
1953-54	3302	201	0.4	3412	1	24		1240
1954-55	1432	18	0.3	1437	11	11		173
1955-56	2218	175	0.3	2196	1	26		569
1956-57	1535	36	0.5	1431	2	23		122
1957-58	11696	298	0.7	11715	4	3		618
1958-59	2183	66	0.6	2033	1	6		622
1959-60	954	8.5	0.1	1152	2	1		16
1960-61	527	12	0.1	407	1	26		65
1961-62	6328	682	0.1	6242	2	11		1460
1962-63	1628	56	0.7	1848	2	9		368
1963-64	1219	32	*	1144	4	1		53
1964-65	2039	50	0	1988	4	9		130
1965-66	13102	600	0.4	12933	12	25		1920
1966-67	16245	645	1.5	16261	12	6		1520
1967-68	3376	56	0.1	3579	11	15		165
1968-69	38734	2292	0.3	38369	1	25		5500
1969-70	2859	85	1.0	2859	2	28		208
1970-71	3211	184	1.0	3075	11	25		674
1971-72	1316	36	0.5	1249	12	24		99
1972-73	6414	482	0.4	6258	2	11		1350
1973-74	4660	174	1.2	4546	1	7		280
1974-75	2347	36	0.1	2647	3	6		54
1975-76	1580	52	0.2	1469	03	01		101
1976-77	1320	35	1.0	1206	1	3		200

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT  
DAM OPERATION RECORD

Santa Anita Dam

1975-76

DRAINAGE AREA 10.8 SQ. MI.  
CAPACITY OF RESERVOIR 796.6 AC. FT.  
SPILLWAY ELEVATION 1316.0 FT.  
as of October 1, 1975

GAGE HEIGHTS AND STORAGE ARE AS OF MIDNIGHT ON DAY SHOWN.

Date	OCTOBER				NOVEMBER				DECEMBER				JANUARY			
	Gage Height	Acro-Fl. Storage	CFS Inflow	CFS Outflow	Gage Height	Acro-Fl. Storage	CFS Inflow	CFS Outflow	Gage Height	Acro-Fl. Storage	CFS Inflow	CFS Outflow	Gage Height	Acro-Fl. Storage	CFS Inflow	CFS Outflow
1	1196.9	0.8	0.6	0.2	1226.4	5.1	1.0	0.2	1238.6	9.2	1.2	0.2	1250.2	16.1	1.1	0.2
2	1208.2	11.5	5.6	0.2	1226.9	54.7	1.0	0.2	1239.0	101.1	1.2	0.2	1250.5	162.9	1.2	0.2
3	1208.6	13.7	4.3	0.2	1281.4	76.2	1.0	0.2	1242.4	103.9	1.1	0.2	1250.9	164.8	1.2	0.2
4	1210.1	14.5	0.6	0.2	1277.9	57.7	1.0	0.2	1239.8	104.7	1.2	0.2	1251.1	166.5	1.2	0.2
5	1210.8	15.7	0.8	0.2	1228.4	59.1	0.9	0.2	1240.2	106.0	1.2	0.2	1251.4	168.3	1.2	0.2
6	1211.5	16.9	0.8	0.2	1228.8	60.5	1.0	0.2	1240.6	108.6	1.2	0.2	1251.8	170.1	1.2	0.2
7	1212.0	17.8	0.7	0.2	1229.3	61.9	0.9	0.2	1240.9	110.5	1.2	0.2	1252.1	172.2	1.2	0.2
8	1212.4	18.5	0.6	0.2	1229.8	63.3	0.9	0.2	1241.3	112.5	1.2	0.2	1252.4	174.3	1.2	0.2
9	1213.1	19.3	0.9	0.2	1230.2	64.8	1.0	0.2	1241.7	114.3	1.1	0.2	1252.8	176.2	1.2	0.2
10	1213.7	21.0	0.8	0.2	1230.6	66.2	0.9	0.2	1242.0	115.9	1.1	0.2	1253.1	178.1	1.2	0.2
11	1214.3	22.3	0.9	0.2	1231.1	67.7	1.0	0.2	1242.3	117.3	0.9	0.2	1253.4	180.0	1.2	0.2
12	1214.9	23.5	0.8	0.2	1231.6	69.3	1.0	0.2	1242.8	120.0	1.0	0.2	1253.7	181.9	1.2	0.2
13	1215.2	24.8	0.9	0.2	1232.0	70.8	1.0	0.2	1243.3	122.8	1.0	0.2	1254.0	183.8	1.2	0.2
14	1215.2	25.2	0.9	0.2	1232.4	72.3	1.0	0.2	1243.7	125.3	1.0	0.2	1254.3	185.8	1.2	0.2
15	1216.8	27.6	0.9	0.2	1232.8	73.8	1.0	0.2	1244.3	127.7	1.1	0.2	1254.6	187.7	1.2	0.2
16	1217.4	29.1	1.0	0.2	1233.2	75.3	1.0	0.2	1244.7	129.9	1.1	0.2	1254.9	189.3	1.1	0.2
17	1218.0	30.5	0.9	0.2	1233.5	76.7	1.0	0.2	1245.1	132.1	1.0	0.2	1255.2	191.2	1.2	0.2
18	1218.6	31.9	0.9	0.2	1233.9	78.1	0.9	0.2	1245.5	134.2	1.0	0.2	1255.5	193.2	1.1	0.2
19	1219.2	33.3	0.9	0.2	1234.3	79.7	1.0	0.2	1245.8	136.2	1.2	0.2	1255.7	194.6	1.2	0.2
20	1219.8	34.8	0.9	0.2	1234.7	81.3	1.1	0.2	1246.2	138.1	1.2	0.2	1256.0	196.2	1.0	0.2
21	1220.4	36.2	0.9	0.2	1235.0	82.8	1.0	0.2	1246.6	140.1	1.2	0.2	1256.2	197.9	1.1	0.2
22	1220.9	37.7	1.0	0.2	1235.4	84.4	1.0	0.2	1246.9	142.1	1.2	0.2	1256.5	199.8	1.1	0.2
23	1221.5	39.2	1.0	0.2	1235.8	86.1	1.1	0.2	1247.3	144.1	1.2	0.2	1256.8	201.4	1.1	0.2
24	1222.1	40.8	1.0	0.2	1236.2	87.8	1.1	0.2	1247.6	146.1	1.3	0.2	1257.0	203.0	1.0	0.2
25	1222.7	42.5	1.1	0.2	1236.5	89.4	1.0	0.2	1248.0	148.2	1.3	0.2	1257.3	204.8	1.1	0.2
26	1223.3	44.1	1.0	0.2	1236.9	90.9	1.0	0.2	1248.3	150.2	1.2	0.2	1257.6	206.6	1.2	0.2
27	1223.8	45.6	1.0	0.2	1237.2	92.4	1.0	0.2	1248.7	152.0	1.2	0.2	1257.9	208.4	1.2	0.2
28	1224.3	47.2	1.0	0.2	1237.5	93.9	1.0	0.2	1249.0	154.0	1.2	0.2	1258.2	210.2	1.2	0.2
29	1224.9	48.7	1.0	0.2	1237.9	95.5	1.0	0.2	1249.3	155.8	1.2	0.2	1258.4	211.9	1.2	0.2
30	1225.3	50.0	0.9	0.2	1238.2	97.2	1.1	0.2	1249.6	157.7	1.2	0.2	1258.7	213.7	1.2	0.2
31	1225.8	51.5	1.0	0.2					1249.9	159.4	1.1	0.2	1259.0	215.5	1.1	0.2
TOTAL		32.7	6.2				30.0	6.0			30.6	6.2			36.1	6.2
Inf. Ac. Ft.		64.8					59.5				70.5				71.5	
Chaf. Ac. Ft.		12.3 + (1.0)					11.9 + (1.8)				12.3 + (2.0)				12.3 + (3.2)	
Max. Mean Daily Inf.		5.6					1.1				1.7				1.3	
Min. Mean Daily Inf.		0.6					0.9				0.9				0.9	
Storage Change		51.5					45.7				62.2				56.1	

Date	FEBRUARY				MARCH				APRIL				MAY			
	Gage Height	Acro-Fl. Storage	CFS Inflow	CFS Outflow	Gage Height	Acro-Fl. Storage	CFS Inflow	CFS Outflow	Gage Height	Acro-Fl. Storage	CFS Inflow	CFS Outflow	Gage Height	Acro-Fl. Storage	CFS Inflow	CFS Outflow
1	1259.2	217.1	3.1	0.2	1275.3	311.6	29.9	0.2	1281.0	228.8	2.3	0.2	1255.4	152.4	1.9	0.2
2	1259.4	218.6	1.1	0.2	1275.7	313.8	15.4	0.2	1281.6	232.9	2.3	0.2	1255.8	155.4	1.8	0.2
3	1259.7	220.0	0.9	0.2	1281.5	317.2	13.0	0.2	1282.2	237.2	2.4	0.2	1256.3	158.5	1.8	0.2
4	1259.9	221.7	1.0	0.2	1279.3	317.1	8.3	0.2	1282.0	242.7	2.0	0.2	1256.8	161.7	1.9	0.2
5	1260.4	225.0	1.9	0.2	1276.8	319.8	5.8	0.2	1282.6	247.5	2.7	0.2	1257.4	165.1	1.9	0.2
6	1260.5	229.3	7.4	0.2	1276.6	320.6	4.8	0.2	1283.3	252.1	2.6	0.2	1257.9	168.9	2.1	0.2
7	1260.8	248.3	4.8	0.2	1279.3	317.1	5.5	0.2	1283.9	256.5	2.5	0.2	1258.6	173.3	2.4	0.2
8	1261.1	273.7	12.9	0.2	1276.8	324.1	5.0	0.2	1284.4	260.9	2.4	0.2	1259.2	177.0	2.1	0.2
9	1271.9	375.6	51.6	0.2	1271.8	311.5	4.5	0.2	1286.1	265.8	2.7	0.2	1259.7	180.3	1.9	0.2
10	1281.0	431.0	103.0	0.2	1269.9	295.3	4.8	0.2	1286.6	270.1	2.4	0.2	1260.2	183.5	1.8	0.2
11	1285.5	427.2	8.0	0.2	1271.0	304.6	4.8	0.2	1287.2	274.5	2.5	0.2	1260.6	186.5	1.7	0.2
12	1285.7	437.7	5.6	0.2	1272.0	313.3	4.6	0.2	1287.4	278.9	2.1	0.2	1261.0	189.2	1.6	0.2
13	1284.0	421.7	2.8	0.2	1272.9	321.2	4.2	0.2	1287.8	283.7	6.7	0.2	1261.4	191.9	1.6	0.2
14	1280.9	391.9	4.0	0.2	1273.8	328.2	3.8	0.2	1288.0	288.5	5.1	0.2	1261.7	194.0	1.4	0.2
15	1277.8	353.2	3.9	0.2	1274.5	335.3	3.8	0.2	1288.3	293.5	9.0	0.2	1262.1	196.1	1.4	0.2
16	1274.1	311.8	1.6	0.2	1275.3	341.8	3.5	0.2	1288.7	298.1	3.5	0.2	1262.4	198.3	1.5	0.2
17	1270.9	303.9	3.5	0.2	1276.0	347.9	3.3	0.2	1289.1	302.9	3.1	0.2	1262.8	201.3	1.5	0.2
18	1267.1	273.8	1.5	0.2	1276.2	344.5	1.8	0.2	1289.4	307.6	2.8	0.2	1263.1	204.6	1.4	0.2
19	1263.4	244.2	0.5	0.2	1276.1	346.2	0.7	0.2	1289.7	312.3	2.8	0.2	1263.4	207.9	1.4	0.2
20	1260.3	227.9	1.7	0.2	1267.7	327.3	1.4	0.2	1290.0	317.0	2.6	0.2	1263.8	211.3	1.5	0.2
21	1261.6	232.9	2.8	0.2	1268.0	330.6	1.5	0.2	1290.3	321.7	2.4	0.2	1264.1	214.6	1.5	0.2
22	1262.2	237.6	2.7	0.2	1268.5	334.5	2.4	0.2	1290.6	326.4	2.4	0.2	1264.4	217.9	1.5	0.2
23	1262.8	241.9	2.4	0.2	1268.1	331.1	3.1	0.2	1290.9	331.1	2.4	0.2	1264.8	221.2	1.5	0.2
24	1263.4	246.0	2.3	0.2	1268.2	331.5	3.0	0.2	1291.3	335.7	2.3	0.2	1265.1	224.5	1.5	0.2
25	1264.0	250.3	2.4	0.2	1268.1	331.1	3.1	0.2	1291.6	340.3	2.2	0.2	1265.4	227.8	1.6	0.2
26	1264.6	254.3	2.3	0.2	1268.0	330.6	3.1	0.2	1291.9	344.9	2.1	0.2	1265.7	231.1	1.6	0.2
27	1265.1	258.2	2.2	0.2	1267.6	326.9	2.6	0.2	1292.1	349.5	2.0	0.2	1266.0	234.4	1.4	0.2
28	1265.5	261.4	1.9	0.2	1268.3	321.4	2.5	0.2	1292.3	354.1	2.1	0.2	1266.4	237.7	1.5	0.2
29	1266.0	264.9	2.0	0.2	1269.0	316.0	2.5	0.2	1292.5	358.7	2.1	0.2	1266.8	241.0	1.6	0.2
30					1269.7	320.4	2.5	0.2	1292.8	363.3	2.0	0.2	1267.1	244.3	1.7	0.2
31					1269.3	324.6	2.4	0.2	1293.0	367.9	2.0	0.2	1267.5	247.6	1.6	0.2
TOTAL		155.4	129.3			169.0	187.8				83.4	100.1			51.7	6.2
Inf. Ac. Ft.		308.2				325.2					165.4				162.6	
Chaf. Ac. Ft.		256.5 + (2.3)				372.5 + (3.0)					198.5 + (2.2)				12.3 + (2.7)	
Max. Mean Daily Inf.		51.6				38.9					6.7				2.4	
Min. Mean Daily Inf.		0.5				0.7					2.0				1.4	
Storage Change		49.5				-40.3					-35.4				87.6	

Date	JUNE				JULY				AUGUST				SEPTEMBER			
	Gage Height	Acro-Fl. Storage	CFS Inflow	CFS Outflow	Gage Height	Acro-Fl. Storage	CFS Inflow	CFS Outflow	Gage Height	Acro-Fl. Storage	CFS Inflow	CFS Outflow	Gage Height	Acro-Fl. Storage	CFS Inflow	CFS Outflow
1	1267.8	279.4	1.5	0.2	1251.2	166.9	0.9	0.2	1256.1	197.0	0.7	0.2	1259.6	220.0	0.5	0.2
2	1268.1	281.8	1.5	0.2	1251.4	169.1	0.9	0.2	125							

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

DAM OPERATION RECORD

WINTA ANITA DAM

DRAINAGE AREA 10.8 SQ. MI.  
RESERVOIR CAPACITY 786.6 A.F.  
AT SPILLWAY ELEVATION 1316.0 FT.  
AS OF OCTOBER, 1973

DAGE HEIGHTS AND STORAGE  
ARE AS OF MIDDNIGHT ON DAY SHOWN

Date	OCTOBER				NOVEMBER				DECEMBER				JANUARY			
	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow
1	1234.85	82.1	1.6	0.2	1250.80	164.5	1.2	0.2	1260.10	223.0	1.2	0.2	1267.94	280.1	1.7	0.2
2	1235.44	84.6	1.5	0.2	1251.08	164.3	1.2	0.2	1260.36	224.7	1.2	0.2	1268.47	284.3	2.3	0.2
3	1236.02	87.1	1.4	0.2	1251.35	167.8	1.1	0.2	1260.60	226.3	1.1	0.2	1274.72	353.9	35.3	0.2
4	1236.58	89.6	1.6	0.2	1251.55	168.9	0.9	0.2	1260.83	227.9	1.1	0.2	1277.67	362.4	4.4	0.2
5	1237.11	92.0	1.4	0.2	1251.80	170.4	1.0	0.2	1261.09	229.6	1.0	0.2	1278.84	372.9	5.4	0.2
6	1237.61	94.3	1.4	0.2	1252.05	171.9	1.0	0.2	1261.35	231.4	1.2	0.2	1281.67	399.2	13.5	0.2
7	1238.08	96.5	1.4	0.2	1252.30	173.4	1.1	0.2	1261.54	233.2	1.3	0.2	1287.27	453.4	27.5	0.2
8	1238.54	98.7	1.4	0.2	1252.56	175.0	1.0	0.2	1261.86	234.9	1.1	0.2	1289.48	475.7	11.5	0.2
9	1238.97	100.3	1.1	0.2	1252.81	176.5	1.0	0.2	1262.08	236.5	1.0	0.2	1290.78	489.0	7.0	0.2
10	1239.25	102.1	1.2	0.2	1253.04	177.9	0.9	0.2	1262.33	238.2	1.2	0.2	1289.00	470.8	4.7	13.9
11	1239.62	103.9	1.2	0.2	1253.31	179.4	1.1	0.2	1262.58	240.0	1.1	0.2	1285.68	437.8	5.7	22.2
12	1239.98	105.7	1.2	0.2	1253.54	180.8	2.8	0.2	1262.83	241.8	1.2	0.2	1278.32	368.2	5.0	0.2
13	1240.34	107.5	1.2	0.2	1253.80	182.6	1.7	0.2	1263.06	243.4	1.0	0.2	1278.58	370.6	4.8	21.5
14	1240.67	109.2	1.1	0.2	1254.09	190.0	1.5	0.2	1263.30	245.2	1.2	0.2	1276.38	350.9	3.8	13.6
15	1241.00	110.8	1.0	0.2	1254.38	193.1	1.7	0.2	1263.54	246.9	1.2	0.2	1277.10	357.3	3.5	0.2
16	1241.33	112.5	1.1	0.2	1254.65	195.5	1.5	0.2	1263.77	248.5	1.1	0.2	1277.75	363.1	3.2	0.2
17	1241.67	114.2	1.1	0.2	1254.91	197.5	1.2	0.2	1263.99	250.3	1.1	0.2	1278.32	368.2	2.5	11.1
18	1241.99	115.8	1.0	0.2	1255.19	199.5	1.4	0.2	1264.20	251.7	1.1	0.2	1274.26	332.4	2.5	17.3
19	1242.33	117.5	1.1	0.2	1255.48	201.3	1.1	0.2	1264.42	253.3	1.0	0.2	1268.17	281.9	2.4	27.7
20	1242.67	119.3	1.2	0.2	1255.78	203.2	1.2	0.2	1264.68	255.2	1.2	0.2	1264.11	251.0	2.4	17.3
21	1243.01	121.1	1.1	0.2	1256.09	205.2	1.2	0.2	1264.90	256.9	1.2	0.2	1265.15	258.7	2.4	0.2
22	1243.34	123.0	1.0	0.2	1256.41	207.2	1.3	0.2	1265.15	258.6	1.2	0.2	1265.84	263.9	2.4	0.2
23	1243.68	124.0	3.4	0.2	1256.74	209.1	1.2	0.2	1265.33	260.1	1.0	0.2	1266.56	269.4	2.4	0.2
24	1243.95	124.8	2.2	0.2	1257.08	210.9	1.2	0.2	1265.54	261.7	1.0	0.2	1267.22	274.5	2.4	0.2
25	1244.30	124.9	1.8	0.2	1257.43	212.6	1.2	0.2	1265.78	263.5	1.1	0.2	1267.85	279.4	2.4	0.2
26	1244.76	125.5	1.5	0.2	1257.79	214.3	1.0	0.2	1266.00	265.1	1.1	0.2	1268.43	284.0	2.4	0.2
27	1244.97	126.7	1.5	0.2	1258.14	216.1	1.2	0.2	1266.24	266.7	1.1	0.2	1269.32	289.3	2.4	0.2
28	1245.25	127.0	1.4	0.2	1258.50	217.5	1.0	0.2	1266.43	268.4	1.2	0.2	1269.47	292.3	2.3	0.2
29	1245.86	127.0	1.3	0.2	1258.85	219.3	1.0	0.2	1266.63	270.0	1.1	0.2	1269.99	296.5	2.3	0.2
30	1250.18	126.9	1.2	0.2	1259.23	221.2	1.3	0.2	1267.13	273.8	2.1	0.2	1270.49	300.6	2.4	0.2
31	1250.49	126.7	1.1	0.2					1267.56	277.2	1.9	0.2	1270.95	304.4	2.4	0.2
TOTAL																
Int. Ac. Ft.		98.5					74.1					72.5				347.7
Out. Ac. Ft.		12.2 + (2.9)					11.9 + (3.7)					12.2 + (4.3)				317.9 + (2.5)
Max. Mean Daily Inf.		8.0					2.8					2.1				35.3
Min. Mean Daily Inf.		1.0					0.8					1.0				1.7
Storage Change		83.4					58.5					56.0				27.2

Date	FEBRUARY				MARCH				APRIL				MAY			
	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow
1	1271.36	307.8	1.9	0.2	1280.04	384.2	1.3	0.2	1265.54	261.7	1.7	0.2	1273.48	325.7	1.5	0.2
2	1271.81	311.6	2.1	0.2	1280.28	386.2	1.3	0.2	1265.95	264.7	1.7	0.2	1273.70	327.6	1.1	0.2
3	1272.29	315.1	2.1	0.2	1280.50	388.3	1.4	0.2	1266.32	267.6	1.6	0.2	1273.88	329.1	1.1	0.2
4	1272.63	318.5	2.0	0.2	1280.74	390.5	1.4	0.2	1266.70	270.5	1.8	0.2	1274.08	330.8	1.1	0.2
5	1273.02	321.8	2.0	0.2	1281.07	392.6	1.3	0.2	1267.07	273.3	1.6	0.2	1274.30	332.7	1.2	0.2
6	1273.37	324.7	1.7	0.2	1281.18	394.6	1.4	0.2	1267.49	276.9	1.4	0.2	1274.9	334.5	1.1	0.2
7	1273.74	327.9	1.9	0.2	1281.37	396.4	1.2	0.2	1267.71	278.3	1.5	0.2	1274.75	336.6	1.4	0.2
8	1274.07	330.7	1.8	0.2	1281.58	398.4	1.3	0.2	1267.98	280.4	1.4	0.2	1278.05	365.8	14.9	0.2
9	1274.41	333.7	1.7	0.2	1281.78	400.2	1.1	0.2	1268.27	282.7	1.4	0.2	1282.31	405.2	20.0	0.2
10	1274.74	336.5	1.6	0.2	1282.02	402.5	1.4	0.2	1268.58	285.2	1.5	0.2	1284.27	424.0	9.7	0.2
11	1275.08	339.5	1.8	0.2	1282.22	404.4	1.3	0.2	1268.88	287.6	1.5	0.2	1285.35	434.5	5.6	0.2
12	1275.44	342.6	1.9	0.2	1282.41	406.2	1.2	0.2	1269.23	290.4	1.2	0.2	1286.19	442.8	4.4	0.2
13	1275.76	345.4	1.7	0.2	1282.60	408.0	1.2	0.2	1269.52	292.7	1.5	0.2	1286.87	449.4	3.5	0.2
14	1276.06	347.9	1.5	0.2	1282.79	409.8	1.1	0.2	1269.86	294.8	1.7	1.2	1287.46	455.3	3.2	0.2
15	1276.33	350.4	1.6	0.2	1282.99	411.7	1.3	0.2	1270.25	297.7	1.5	0.2	1288.00	460.7	2.9	0.2
16	1276.63	353.1	1.7	0.2	1283.52	416.8	2.8	0.2	1270.75	302.8	1.4	0.2	1284.81	429.3	3.0	18.7
17	1276.80	354.6	1.0	0.2	1283.00	383.6	1.5	18.2	1270.49	300.6	1.2	0.2	1279.51	379.1	4.6	29.9
18	1277.06	356.9	1.5	0.2	1283.65	344.5	1.1	21.2	1270.76	302.8	1.4	0.2	1274.81	337.1	4.0	25.1
19	1277.33	359.3	1.5	0.2	1284.21	315.0	1.1	15.4	1271.01	304.9	1.3	0.2	1271.19	306.4	1.7	17.2
20	1277.58	361.6	1.4	0.2	1284.54	289.9	1.1	15.4	1271.24	308.2	1.3	0.2	1269.09	289.2	2.7	11.8
21	1277.82	363.7	1.4	0.2	1284.83	276.9	1.0	6.0	1271.46	308.7	1.3	0.2	1269.66	297.7	2.6	0.2
22	1278.07	365.9	1.4	0.2	1285.01	279.1	1.0	0.2	1271.68	310.5	1.2	0.2	1270.15	297.8	2.5	0.3
23	1278.36	368.6	1.7	0.2	1285.05	282.4	1.0	17.7	1271.85	311.9	1.0	0.2	1265.90	264.4	0.3	17.1
24	1278.74	372.2	1.5	0.2	1285.40	295.0	1.0	10.9	1272.00	313.2	0.9	0.2	1269.01	215.8	2.5	27.0
25	1279.03	374.7	1.4	0.2	1285.77	294.3	5.0	0.2	1272.00	313.2	0.9	0.2	1269.92	217.6	2.8	29.0
26	1279.30	377.2	1.6	0.2	1286.56	299.9	3.1	0.2	1272.36	314.2	1.0	0.2	1261.93	171.2	3.7	6.8
27	1279.60	379.9	1.7	0.2	1286.22	294.6	2.5	0.2	1272.54	317.7	1.1	0.2	1262.65	175.6	2.4	0.2
28	1279.80	379.9	1.7	0.2	1286.75	288.4	2.1	0.2	1272.76	319.6	1.2	0.2	1253.32	179.7	2.3	0.2
29	1279.95	382.2	1.4	0.2	1287.22	281.3	2.1	0.2	1272.98	321.4	1.1	0.2	1263.92	183.4	2.0	0.2
30					1287.42	255.5	2.1	0.2	1273.19	323.2	1.2	0.2	1264.45	186.7	2.0	0.2
31					1285.16	258.8	2.0	0.2					1264.95	182.8	1.7	0.2
TOTAL																
Int. Ac. Ft.		93.2					98.7					41.3				114.5
Out. Ac. Ft.		11.1 + (4.3)					21.2 + (4.7)					13.8 + (3.5)				227.1
Max. Mean Daily Inf.		2.1					5.0					13.8				358.4 + (2.1)
Min. Mean Daily Inf.		1.0					0.9					0.9				0.3
Storage Change		77.8					123.4					64.4				133.4

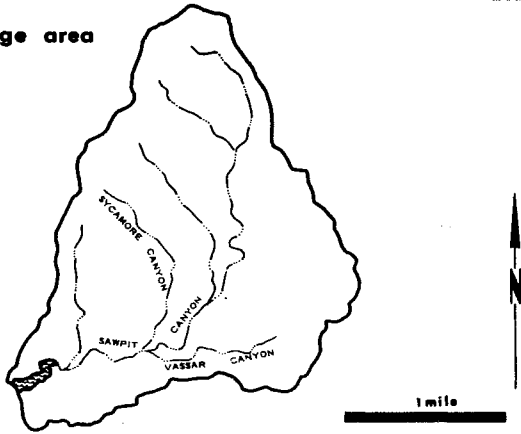
Date	JUNE				JULY				AUGUST				SEPTEMBER			
	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow
1	1255.40	192.4	1.5	0.2	1264.91											



# SAWPIT DAM AND RESERVOIR



## drainage area



**PURPOSE -**  
Flood Control and Conservation

**DATE CONSTRUCTED -**  
Started March 1926 - Completed June 1927

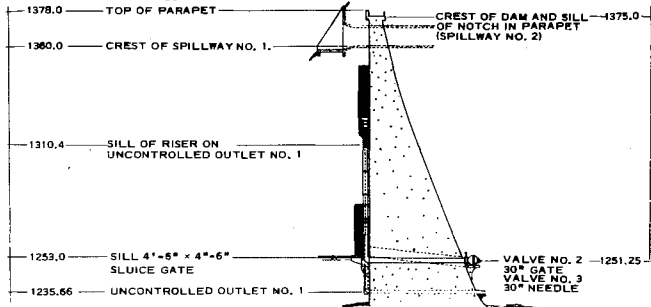
**LOCATION -** 2.0 miles north of Monrovia

**DRAINAGE AREA -** 3.2 square miles

**CAPACITY -** 391 acre-feet

**SPILLWAY ELEVATION -** 1,360.0 feet

## cross-section



### SAWPIT DAM

#### YEARLY RESERVOIR OPERATION SUMMARY

SEASON	ANNUAL AF	INFLOW		OUTFLOW ANNUAL AF	PEAK INFLCW		
		MAX-DAY CFS	MIN-DAY CFS		MO	OAY	CFS
1927-28	26	N.D.	0	39			N.O.
1928-29	96	5.3	0	108			N.O.
1929-30	219	7.9	C	208			N.O.
1930-31	97	3.5	0	68			N.O.
1931-32	710	56	0	726	2	9	76
1932-33	184	8.6	0	185			N.O.
1933-34	468	106	0	457	1	1	240
1934-35	548	36	C	540	4	8	168
1935-36	574	22	0	574	2	11	72
1936-37	1434	36	0	1401			N.O.
1937-38	2909	384	0	2868	3	2	1070
1938-39	232	17	C	170			N.O.
1939-40	264	11	J	308	1	8	39
1940-41	2180	63	0	2195	3	4	109
1941-42	107	3.7	0	39	12	25	4.8
1942-43	2966	162	0	2950	1	23	520
1943-44	747	73	C	743	2	22	138
1944-45	316	16	0	319	11	11	59
1945-46	254	24	0	250	12	23	85
1946-47	362	23	0	361	11	20	77
1947-48	23	0.3	0	5.1	4	28	2.9
1948-49	42	0.4	C	32	3	10	0.9
1949-50	86	21	0	77	12	18	7.9
1950-51	32	0.8	0	32	1	11	2.4
1951-52	1112	60	0	1092	1	16	226
1952-53	98	3.2	0	82	12	1	34
1953-54	274	14	0	263	1	24	105
1954-55	142	4.3	0	139	11	11	73
1955-56	204	37	+	210	1	26	4.8
1956-57	80	0.8	0	65	2	23	8.1
1957-58	1371	46	0	1368	4	3	112
1958-59	815	36	0.1	804	1	6	1600
1959-60	201	4.8	+	163	4	27	70
1960-61	111	1.7	0	144	11	5	12
1961-62	1269	122	0.1	1236	2	11	282
1962-63	256	12	0.1	256	2	9	77
1963-64	271	3.7	0	294	1	21	10
1964-65	405	9.7	0.1	355	4	9	27
1965-66	2224	87	0	2218	12	29	423
1966-67	3985	157	1.1	3980	12	6	307
1967-68	1510	12	0.8	1510	11	15	32
1968-69	7555	635	0.9	5498	1	25	1060
1969-70	1496	36	0.5	1407	2	28	187
1970-71	733	21	0.4	733	11	29	70
1971-72	521	5.6	0.3	521	12	24	16
1972-73	1449	94	0.3	1538	2	11	350
1973-74	1350	57	0.1	1270	1	7	109
1974-75	921	5.9	0.5	921	3	6	15
1975-76	646	6.4	0.1	646	03	01	22
1976-77	603	7.2	1.0	603	10	22	74

N.O. = NOT DETERMINED  
+ = LESS THAN 0.05 ACRE FEET OR LESS THAN 0.05 CFS, BUT GREATER THAN 0.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT  
DAM OPERATION RECORD

Station Data

DRAINAGE AREA 3.36 SQ. MI.  
CAPACITY OF RESERVOIR 5732.0 AC. FT.  
AT SPILLWAY ELEVATION 1500.0 FT.  
as of Sept. 11, 1975

GAGE HEIGHTS AND STORAGE ARE AS OF MIDNIGHT ON DAY SHOWN.

DAY	OCTOBER				NOVEMBER				DECEMBER				JANUARY				DAY
	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	
1	80.1	0.7	0.7	0.7	1510.3	80.1	0.7	0.7	1510.4	80.1	0.7	0.7	1510.4	80.1	1.0	1.0	
2	80.1	0.7	0.7	0.7	1510.4	80.1	0.7	0.7	1510.4	80.1	0.6	0.6	1510.4	80.1	1.0	1.0	
3	80.1	0.6	0.6	0.6	1510.4	80.1	0.6	0.6	1510.4	80.2	0.6	0.6	1510.4	80.1	1.0	1.0	
4	80.1	0.6	0.6	0.6	1510.4	80.1	0.7	0.7	1510.4	80.2	0.6	0.6	1510.4	80.1	1.0	1.0	
5	80.1	0.6	0.6	0.6	1510.4	80.1	0.7	0.7	1510.4	80.2	0.7	0.7	1510.4	80.1	1.0	1.0	
6	80.1	0.6	0.6	0.6	1510.4	80.1	0.7	0.7	1510.4	80.2	0.6	0.6	1510.4	80.1	1.0	1.0	
7	80.1	0.6	0.6	0.6	1510.4	80.1	0.7	0.7	1510.4	80.2	0.6	0.6	1510.4	80.1	1.0	1.0	
8	80.1	0.7	0.7	0.7	1510.4	80.1	0.6	0.6	1510.4	80.2	0.6	0.6	1510.4	80.1	1.0	1.0	
9	80.1	0.7	0.7	0.7	1510.4	80.1	0.7	0.7	1510.4	80.2	0.7	0.7	1510.4	80.1	1.0	1.0	
10	80.1	0.7	0.7	0.7	1510.4	80.1	0.5	0.5	1510.4	80.2	0.8	0.8	1510.4	80.1	1.0	1.0	
11	80.1	0.8	0.8	0.8	1510.4	80.1	0.5	0.5	1510.4	80.2	1.0	1.0	1510.4	80.1	1.0	1.0	
12	80.1	0.7	0.7	0.7	1510.4	80.1	0.5	0.5	1510.4	80.2	1.0	1.0	1510.4	80.1	1.0	1.0	
13	80.1	0.7	0.7	0.7	1510.4	80.1	0.6	0.6	1510.4	80.2	1.0	1.0	1510.4	80.2	1.0	1.0	
14	80.1	0.7	0.7	0.7	1510.4	80.1	0.7	0.7	1510.4	80.2	0.7	0.7	1510.4	80.2	0.9	0.9	
15	80.1	0.6	0.6	0.6	1510.4	80.1	0.6	0.6	1510.4	80.2	0.9	0.9	1510.4	80.2	0.9	0.9	
16	80.1	0.6	0.6	0.6	1510.4	80.1	0.7	0.7	1510.4	80.2	0.9	0.9	1510.4	80.2	0.9	0.9	
17	80.1	0.6	0.6	0.6	1510.4	80.1	0.5	0.5	1510.4	80.2	0.9	0.9	1510.4	80.2	1.0	1.0	
18	80.1	0.6	0.6	0.6	1510.4	80.1	0.5	0.5	1510.4	80.2	0.9	0.9	1510.4	80.1	1.1	1.1	
19	80.1	0.7	0.7	0.7	1510.4	80.1	0.5	0.5	1510.4	80.2	0.8	0.8	1510.4	80.1	1.1	1.1	
20	80.1	0.7	0.7	0.7	1510.4	80.1	0.5	0.5	1510.4	80.2	0.9	0.9	1510.4	80.1	1.1	1.1	
21	80.1	0.7	0.7	0.7	1510.4	80.1	0.5	0.5	1510.4	80.2	0.9	0.9	1510.4	80.1	1.1	1.1	
22	80.1	0.7	0.7	0.7	1510.4	80.1	0.5	0.5	1510.4	80.2	0.9	0.9	1510.4	80.1	1.1	1.1	
23	80.1	0.6	0.6	0.6	1510.4	80.1	0.5	0.5	1510.4	80.2	0.9	0.9	1510.4	80.1	1.2	1.2	
24	80.1	0.6	0.6	0.6	1510.4	80.1	0.6	0.6	1510.4	80.2	1.0	1.0	1510.4	80.1	1.2	1.2	
25	80.1	0.6	0.6	0.6	1510.4	80.1	0.6	0.6	1510.4	80.2	1.0	1.0	1510.4	80.1	1.3	1.3	
26	80.1	0.6	0.6	0.6	1510.4	80.1	0.5	0.5	1510.4	80.2	1.0	1.0	1510.4	80.1	1.3	1.3	
27	80.1	0.6	0.6	0.6	1510.4	80.1	0.6	0.6	1510.4	80.2	1.0	1.0	1510.4	80.1	1.3	1.3	
28	80.1	0.6	0.6	0.6	1510.4	80.1	0.6	0.6	1510.4	80.2	1.0	1.0	1510.4	80.1	1.3	1.3	
29	80.1	0.6	0.6	0.6	1510.4	80.1	0.6	0.6	1510.4	80.2	1.0	1.0	1510.4	80.1	1.3	1.3	
30	80.1	0.7	0.7	0.7	1510.4	80.1	0.6	0.6	1510.4	80.2	1.0	1.0	1510.4	80.1	1.3	1.3	
31	80.1	0.7	0.7	0.7	1510.4	80.1	0.6	0.6	1510.4	80.2	1.0	1.0	1510.4	80.1	1.3	1.3	
TOTAL		30.2	30.2	30.2			17.2	17.2			26.0	26.0			33.6	33.6	
Inf. Ac. Ft.		40.5					44.2				41.0				66.6		
Outf. Ac. Ft.		40.5					44.2				41.6				66.6		
Max. Mean Daily Inf.		0.8					0.7				1.0				0.9		
Min. Mean Daily Inf.		0.0					0.0				0.0				0.0		
Storage Change		0					0				0				0		

DAY	FEBRUARY				MARCH				APRIL				MAY				DAY
	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	
1	80.1	1.3	1.3	1.3	1510.6	80.1	6.0	5.7	1510.4	80.1	0.8	0.8	1510.4	80.1	0.7	0.7	
2	80.1	1.3	1.3	1.3	1510.7	80.1	5.9	5.7	1510.4	80.1	0.9	0.9	1510.4	80.1	0.8	0.8	
3	80.1	1.3	1.3	1.3	1510.7	80.1	5.9	5.7	1510.4	80.1	0.9	0.9	1510.4	80.1	0.8	0.8	
4	80.1	1.3	1.3	1.3	1510.7	80.1	5.9	5.7	1510.4	80.1	1.1	1.1	1510.4	80.1	0.8	0.8	
5	80.1	1.3	1.3	1.3	1510.7	80.2	1.2	1.2	1510.4	80.1	1.0	1.0	1510.4	80.1	0.9	0.9	
6	80.1	1.1	1.1	1.1	1510.5	80.2	1.1	1.1	1510.4	80.1	0.9	0.9	1510.4	80.2	0.9	0.9	
7	80.1	1.1	1.1	1.1	1510.5	80.2	1.0	1.0	1510.4	80.1	0.9	0.9	1510.4	80.1	0.8	0.8	
8	80.1	1.0	1.0	1.0	1510.5	80.2	1.0	1.0	1510.4	80.1	0.9	0.9	1510.4	80.1	0.8	0.8	
9	80.1	1.0	1.0	1.0	1510.5	80.2	1.0	1.0	1510.4	80.1	0.8	0.8	1510.4	80.1	0.8	0.8	
10	80.1	1.0	1.0	1.0	1510.5	80.1	0.9	0.9	1510.4	80.1	0.8	0.8	1510.4	80.1	0.8	0.8	
11	80.1	1.0	1.0	1.0	1510.5	80.1	1.0	1.0	1510.4	80.1	0.8	0.8	1510.4	80.1	0.7	0.7	
12	80.1	1.0	1.0	1.0	1510.5	80.1	0.9	0.9	1510.4	80.1	0.8	0.8	1510.4	80.1	0.7	0.7	
13	80.1	1.0	1.0	1.0	1510.5	80.1	0.8	0.8	1510.4	80.1	1.0	1.0	1510.4	80.1	0.7	0.7	
14	80.1	1.0	1.0	1.0	1510.5	80.1	0.8	0.8	1510.4	80.1	1.0	1.0	1510.4	80.1	0.8	0.8	
15	80.1	1.0	1.0	1.0	1510.5	80.1	0.8	0.8	1510.4	80.1	1.1	1.1	1510.4	80.1	0.8	0.8	
16	80.1	1.0	1.0	1.0	1510.5	80.1	0.7	0.7	1510.4	80.1	1.0	1.0	1510.4	80.1	0.8	0.8	
17	80.1	1.0	1.0	1.0	1510.5	80.1	0.6	0.6	1510.4	80.1	0.9	0.9	1510.4	80.1	0.8	0.8	
18	80.1	1.0	1.0	1.0	1510.5	80.1	0.6	0.6	1510.4	80.1	0.9	0.9	1510.4	80.1	0.8	0.8	
19	80.1	1.0	1.0	1.0	1510.5	80.1	0.6	0.6	1510.4	80.1	0.9	0.9	1510.4	80.1	0.9	0.9	
20	80.1	1.0	1.0	1.0	1510.5	80.1	0.6	0.6	1510.4	80.1	0.8	0.8	1510.4	80.1	0.9	0.9	
21	80.1	1.0	1.0	1.0	1510.5	80.1	0.5	0.5	1510.4	80.1	0.8	0.8	1510.4	80.1	1.0	1.0	
22	80.1	1.0	1.0	1.0	1510.5	80.1	0.5	0.5	1510.4	80.1	0.8	0.8	1510.4	80.1	0.8	0.8	
23	80.1	1.0	1.0	1.0	1510.5	80.1	0.5	0.5	1510.4	80.1	0.9	0.9	1510.4	80.1	0.8	0.8	
24	80.1	1.0	1.0	1.0	1510.5	80.1	0.5	0.5	1510.4	80.1	0.9	0.9	1510.4	80.1	0.8	0.8	
25	80.1	1.0	1.0	1.0	1510.5	80.1	0.6	0.6	1510.4	80.1	0.9	0.9	1510.4	80.1	0.8	0.8	
26	80.1	1.0	1.0	1.0	1510.5	80.1	0.7	0.7	1510.4	80.1	0.9	0.9	1510.4	80.1	0.7	0.7	
27	80.1	1.0	1.0	1.0	1510.5	80.1	0.8	0.8	1510.4	80.1	0.9	0.9	1510.4	80.2	0.6	0.6	
28	80.1	1.0	1.0	1.0	1510.5	80.1	0.8	0.8	1510.4	80.1	0.9	0.9	1510.4	80.2	0.7	0.7	
29	80.1	1.0	1.0	1.0	1510.5	80.1	0.8	0.8	1510.4	80.1	0.8	0.8	1510.4	80.2	0.8	0.8	
30	80.1	1.0	1.0	1.0	1510.5	80.1	0.9	0.9	1510.4	80.1	0.8	0.8	1510.4	80.1	0.8	0.8	
31	80.1	1.0	1.0	1.0	1510.5	80.1	1.0	1.0	1510.4	80.1	0.8	0.8	1510.4	80.1	0.7	0.7	
TOTAL		52.8	52.8	52.8			46.0	46.1			27.4	27.4			24.5	24.5	
Inf. Ac. Ft.		104.8					71.5				54.5				48.6		
Outf. Ac. Ft.		104.7					71.0				54.3				48.6		
Max. Mean Daily Inf.		6.4					6.0				1.4				1.0		
Min. Mean Daily Inf.		1.3					0.5				0.1				0.6		
Storage Change		0					0				0.1				0		

DAY	JUNE				JULY				AUGUST				SEPTEMBER				DAY
	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	
1	80.1	0.8	0.8	0.8	1510.4	80.0	0.9	0.9	1510.4	80.1	0.4	0.4	1510.4	80.1	0.5	0.5	
2	80.1	0.7	0.7	0.7	1510.4	80.1	0.7	0.7	1510.4	80.1	0.4	0.4	1510.4	80.1	0.4	0.4	
3	80.1	0.8	0.8	0.8	1510.4	80.1	0.8	0.8	1510.4	80.1	0.5	0.5	1510.4	80.1	0.4	0.4	
4	80.1	1.0	1.0	1.0	1510.4	80.1	0.8	0.8	1510.4	80.1	0.4	0.4	1510.4	80.1	0.5	0.5	
5	80.1																

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

DAM OPERATION RECORD

SWAMPIT DAM

1975-77

DRAINAGE AREA 3,241 SQ. MI.  
RESERVOIR CAPACITY 371.2 A.F.  
AT SPILLWAY ELEVATION 1360.0 FT.  
AS OF SEPTEMBER, 1973

GAGE HEIGHTS AND STORAGES  
ARE AS OF MIDNIGHT ON DAY SHOWN

#	OCTOBER				NOVEMBER				DECEMBER				JANUARY				#
	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	
1	1310.40	80.1	0.4	0.4	1310.40	80.1	1.7	1.0	1310.41	80.1	0.7	0.7	1310.41	80.1	1.0	1.1	
2	1310.40	80.1	0.4	0.4	1310.40	80.1	0.9	0.9	1310.41	80.1	0.7	0.7	1310.55	80.3	1.4	1.1	
3	1310.40	80.1	0.4	0.4	1310.41	80.1	0.8	0.8	1310.41	80.1	0.7	0.7	1310.49	80.4	5.3	5.4	
4	1310.40	80.1	0.4	0.4	1310.41	80.1	0.7	0.7	1310.41	80.1	0.8	0.8	1310.45	80.3	2.3	2.4	
5	1310.40	80.1	0.4	0.4	1310.40	80.2	0.7	0.7	1310.41	80.1	0.8	0.8	1310.63	80.8	3.1	2.8	
6	1310.40	80.1	0.4	0.4	1310.40	80.1	0.6	0.6	1310.41	80.1	0.8	0.8	1310.65	80.9	5.8	5.8	
7	1310.40	80.1	0.4	0.4	1310.40	80.1	0.5	0.5	1310.41	80.1	0.8	0.8	1310.61	80.7	7.2	7.3	
8	1310.40	80.1	0.7	0.7	1310.40	80.1	0.5	0.5	1310.41	80.1	0.8	0.8	1310.51	80.4	3.9	4.0	
9	1310.40	80.1	0.8	0.8	1310.40	80.1	0.4	0.4	1310.41	80.1	0.8	0.8	1310.49	80.4	3.0	3.0	
10	1310.40	80.1	0.9	0.9	1310.40	80.1	0.5	0.5	1310.41	80.1	0.8	0.8	1310.47	80.3	2.6	2.7	
11	1310.40	80.1	1.1	1.1	1310.43	80.2	0.6	0.6	1310.41	80.1	0.8	0.8	1310.46	80.3	2.2	2.2	
12	1310.40	80.1	1.1	1.1	1310.42	80.2	1.1	1.1	1310.41	80.1	0.8	0.8	1310.45	80.3	1.9	1.9	
13	1310.40	80.1	1.1	1.1	1310.41	80.1	0.6	0.7	1310.41	80.1	0.8	0.8	1310.44	80.2	1.5	1.6	
14	1310.40	80.1	1.2	1.2	1310.41	80.1	0.7	0.7	1310.41	80.1	0.8	0.8	1310.44	80.2	1.5	1.5	
15	1310.40	80.1	1.2	1.2	1310.41	80.1	0.7	0.7	1310.40	80.1	0.8	0.8	1310.44	80.2	1.4	1.4	
16	1310.40	80.1	1.2	1.2	1310.41	80.1	0.6	0.6	1310.40	80.1	0.8	0.8	1310.44	80.2	1.3	1.3	
17	1310.40	80.1	1.0	1.0	1310.41	80.1	0.6	0.6	1310.40	80.1	0.7	0.7	1310.44	80.2	1.3	1.3	
18	1310.40	80.1	1.0	1.0	1310.41	80.1	0.5	0.5	1310.41	80.1	0.7	0.7	1310.43	80.2	1.3	1.3	
19	1310.40	80.1	0.9	0.9	1310.41	80.1	0.5	0.5	1310.41	80.1	0.7	0.7	1310.43	80.2	1.3	1.3	
20	1310.40	80.1	0.8	0.8	1310.41	80.1	0.6	0.6	1310.41	80.1	0.7	0.7	1310.43	80.2	1.3	1.3	
21	1310.40	80.1	0.8	0.8	1310.41	80.1	0.6	0.6	1310.41	80.1	0.8	0.8	1310.43	80.2	1.3	1.3	
22	1310.40	80.1	5.9	5.9	1310.41	80.1	0.6	0.6	1310.41	80.1	0.7	0.7	1310.42	80.2	1.4	1.4	
23	1310.40	80.1	2.3	2.3	1310.41	80.1	0.6	0.6	1310.40	80.1	0.7	0.7	1310.42	80.2	1.3	1.3	
24	1310.40	80.1	1.8	1.8	1310.41	80.1	0.7	0.7	1310.40	80.1	0.7	0.7	1310.42	80.2	1.3	1.3	
25	1310.40	80.1	1.5	1.5	1310.41	80.1	0.6	0.6	1310.40	80.1	0.7	0.7	1310.42	80.2	1.4	1.4	
26	1310.40	80.1	1.3	1.3	1310.41	80.1	0.6	0.6	1310.40	80.1	0.7	0.7	1310.42	80.2	1.4	1.4	
27	1310.40	80.1	1.3	1.3	1310.40	80.1	0.7	0.7	1310.40	80.1	0.7	0.7	1310.42	80.2	1.5	1.5	
28	1310.40	80.1	1.2	1.2	1310.40	80.1	0.7	0.7	1310.40	80.1	0.7	0.7	1310.42	80.2	1.4	1.4	
29	1310.40	80.1	1.2	1.2	1310.40	80.1	0.7	0.7	1310.41	80.1	0.8	0.8	1310.41	80.1	1.4	1.4	
30	1310.40	80.1	1.1	1.1	1310.41	80.1	0.7	0.7	1310.42	80.2	1.2	1.2	1310.42	80.2	1.4	1.4	
31	1310.40	80.1	1.1	1.1	1310.41	80.1	0.7	0.7	1310.45	80.3	1.1	1.1	1310.41	80.1	1.5	1.5	
TOTAL			35.5	35.5			19.6	19.6			24.1	24.1			66.1	66.2	
Inf. Ac. Ft.			70.4				38.8				47.8				131.1		
Out. Ac. Ft.			70.4				38.8				47.6				131.3		
Max. Mean Daily Inf.			5.7				0.4				1.2				7.2		
Min. Mean Daily Inf.			0.3				0.4				0.7				1.0		
Storage Change			0.0				0.0				0.2				0.2		

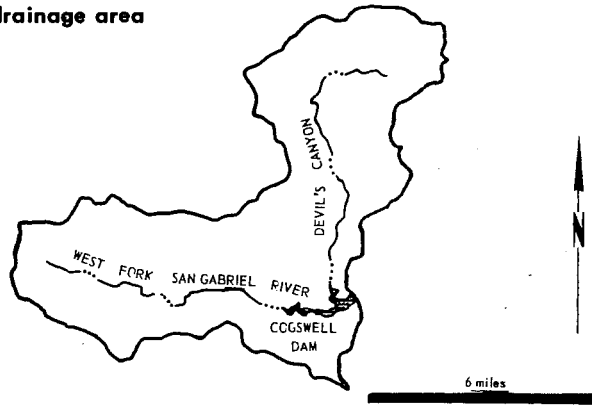
#	FEBRUARY				MARCH				APRIL				MAY				#
	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	
1	1310.41	80.1	1.4	1.4	1310.40	80.1	1.1	1.1	1310.40	80.1	0.6	0.6	1310.40	80.1	0.5	0.5	
2	1310.41	80.1	1.3	1.3	1310.41	80.1	1.1	1.1	1310.40	80.1	0.7	0.7	1310.40	80.1	0.4	0.4	
3	1310.41	80.1	1.1	1.1	1310.40	80.1	1.1	1.1	1310.40	80.1	0.7	0.7	1310.40	80.1	0.4	0.4	
4	1310.41	80.1	1.0	1.0	1310.41	80.1	1.0	1.0	1310.40	80.1	0.8	0.8	1310.40	80.1	0.4	0.4	
5	1310.41	80.1	1.0	1.0	1310.41	80.1	1.0	1.0	1310.38	80.0	0.8	0.8	1310.40	80.1	0.5	0.5	
6	1310.41	80.1	1.0	1.0	1310.41	80.1	0.9	0.9	1310.38	80.0	0.8	0.8	1310.40	80.1	0.6	0.6	
7	1310.41	80.1	1.0	1.0	1310.39	80.1	0.7	0.7	1310.38	80.0	0.8	0.8	1310.40	80.1	0.6	0.6	
8	1310.41	80.1	0.9	0.9	1310.39	80.1	0.6	0.6	1310.40	80.1	0.8	0.8	1310.52	80.5	2.8	2.6	
9	1310.41	80.1	0.9	0.9	1310.39	80.1	0.6	0.6	1310.40	80.1	0.9	0.9	1310.54	80.5	3.6	3.6	
10	1310.41	80.1	1.0	1.0	1310.38	80.0	0.3	0.3	1310.40	80.1	0.8	0.8	1310.46	80.4	1.7	1.8	
11	1310.41	80.1	0.9	0.9	1310.41	80.1	0.5	0.4	1310.40	80.1	0.7	0.7	1310.44	80.2	1.1	1.1	
12	1310.41	80.1	0.9	0.9	1310.41	80.1	0.4	0.4	1310.38	80.0	0.4	0.5	1310.43	80.2	1.1	1.1	
13	1310.41	80.1	0.9	0.9	1310.41	80.1	0.4	0.4	1310.38	80.0	0.4	0.4	1310.42	80.2	1.0	1.0	
14	1310.41	80.1	0.8	0.8	1310.41	80.1	0.4	0.4	1310.38	80.0	0.4	0.4	1310.42	80.2	1.1	1.1	
15	1310.41	80.1	0.8	0.8	1310.41	80.1	0.4	0.4	1310.38	80.0	0.4	0.4	1310.42	80.2	1.1	1.1	
16	1310.40	80.1	0.7	0.7	1310.43	80.3	1.0	0.9	1310.38	80.0	0.4	0.4	1310.42	80.2	1.1	1.1	
17	1310.40	80.1	0.7	0.7	1310.43	80.2	0.7	0.7	1310.38	80.0	0.4	0.4	1310.41	80.1	0.8	0.9	
18	1310.40	80.1	0.8	0.8	1310.42	80.2	0.5	0.5	1310.38	80.0	0.5	0.5	1310.39	80.1	0.9	0.9	
19	1310.40	80.1	0.9	0.9	1310.42	80.2	0.4	0.4	1310.38	80.0	0.4	0.4	1310.40	80.1	0.7	0.7	
20	1310.40	80.1	1.0	1.0	1310.42	80.2	0.4	0.4	1310.37	80.0	0.4	0.4	1310.40	80.1	0.8	0.8	
21	1310.40	80.1	1.1	1.1	1310.42	80.2	0.4	0.4	1310.38	80.0	0.4	0.4	1310.41	80.1	0.8	0.8	
22	1310.40	80.1	1.2	1.2	1310.42	80.2	0.4	0.4	1310.37	80.0	0.4	0.4	1310.41	80.1	0.8	0.8	
23	1310.40	80.1	1.4	1.4	1310.42	80.2	0.5	0.5	1310.37	80.0	0.4	0.4	1310.43	80.2	0.9	0.8	
24	1310.42	80.2	1.6	1.5	1310.44	80.2	1.2	1.2	1310.37	80.0	0.4	0.4	1310.43	80.2	1.0	1.0	
25	1310.40	80.1	1.1	1.2	1310.47	80.3	2.7	2.7	1310.37	80.0	0.4	0.4	1310.41	80.1	0.7	0.8	
26	1310.40	80.1	1.1	1.1	1310.44	80.2	2.0	2.0	1310.37	80.0	0.4	0.4	1310.38	80.0	0.6	0.7	
27	1310.40	80.1	1.1	1.1	1310.43	80.2	1.8	1.8	1310.37	80.0	0.4	0.4	1310.38	80.0	0.7	0.7	
28	1310.40	80.1	1.1	1.1	1310.43	80.2	1.4	1.4	1310.40	80.1	0.6	0.5	1310.40	80.1	0.8	0.7	
29					1310.42	80.2	1.0	1.0	1310.40	80.1	0.5	0.5	1310.40	80.1	0.7	0.7	
30					1310.42	80.2	0.7	0.7	1310.40	80.1	0.5	0.5	1310.40	80.1	0.6	0.6	
31					1310.40	80.1	0.5	0.6	1310.40	80.1	0.5	0.5	1310.40	80.1	0.6	0.6	
TOTAL			28.7	28.7			24.1	24.1			14.3	14.3			29.4	29.4	
Inf. Ac. Ft.			54.9				31.7				32.3				58.3		
Out. Ac. Ft.			54.9				31.7				32.3				58.3		
Max. Mean Daily Inf.			1.6				2.7				0.9				2.4		
Min. Mean Daily Inf.			0.7				0.3				0.4				0.4		
Storage Change			0.0				0.0				0.0				0.0		

#	JUNE				JULY				AUGUST				SEPTEMBER				#
	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	
1	1310.40	80.1	0.5	0.5	1310.37	80.0	0.4	0.4	1310.39	80.1	0.3	0.3	1310.39	80.1	0.6	0.6	
2	1310.40	80.1	0.6	0.6	1310.37	8											

# COGSWELL DAM AND RESERVOIR



## drainage area



**PURPOSE -**  
Flood Control, Conservation, and Recreation

**DATE CONSTRUCTED -**  
Started March 1932 - Completed April 1934

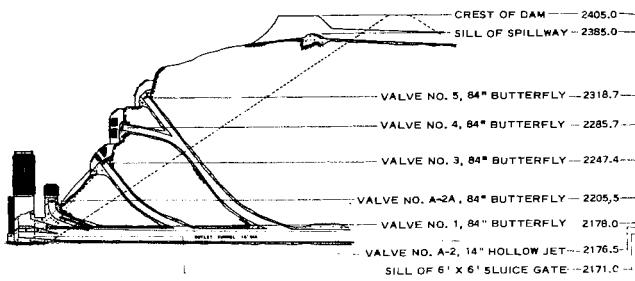
**LOCATION -** 22.0 miles north of Azusa

**DRAINAGE AREA -** 39.2 square miles

**CAPACITY -** 9,339 acre-feet

**SPILLWAY ELEVATION -** 2,385.0 feet

## cross-section



### COGSWELL DAM

#### YEARLY RESERVOIR OPERATION SUMMARY

SEASON	ANNUAL AF	INFLOW		CUTFLOW ANNUAL AF	PEAK INFLOW		
		MAX-DAY CFS	MIN-DAY CFS		MO	DAY	CFS
1934-35	3517	54	0.1	3517		N.D.	
1935-36	7154	265	0	7138		N.D.	
1936-37	32986	943	0.1	32596	2	14	1240
1937-38	60336	7990	1.4	58799	3	2	24710
1938-39	11560	673	0.9	11369	9	25	1360
1939-40	9634	309	0.8	9569	1	8	2020
1940-41	61270	1400	0.5	59951	2	20	1640
1941-42	6060	108	0.3	7331	12	10	294
1942-43	54700	2320	0.7	52703	1	23	15000
1943-44	38150	2660	1.4	37460	2	22	4650
1944-45	11887	424	1.4	10385	11	11	1600
1945-46	14711	1260	0.8	16377	3	30	2790
1946-47	20135	1030	0.1	20135	12	25	2290
1947-48	3103	86	0.3	3032	4	29	262
1948-49	2911	32	0.3	2765	1	20	65
1949-50	3778	99	0.4	3536	12	18	239
1950-51	887	346	0.3	568	4	29	24
1951-52	33783	1260	0.3	25439	1	16	2640
1952-53	4410	70	0.8	12345	12	1	254
1953-54	8004	412	0.3	7500	1	24	1030
1954-55	3941	51	0.3	3165	4	30	176
1955-56	4070	419	0.1	3564	1	26	1040
1956-57	3421	225	0.2	3757	1	13	685
1957-58	36476	1460	0	34530	4	3	3710
1958-59	4904	340	0.4	6205	1	6	1760
1959-60	1935	27	0.5	2006	1	10	65
1960-61	1106	36	0.4	572	1	26	116
1961-62	25497	3480	0.3	23255	2	11	7010
1962-63	3220	153	0.6	4783	2	5	1017
1963-64	2587	89	0.4	2647	4	1	276
1964-65	5037	266	0.3	4159	4	5	479
1965-66	41747	2640	0.3	42170	12	12	5220
1966-67	40504	1860	0.6	32757	12	6	4650
1967-68	9569	338	0.6	12713	11	15	893
1968-69	95676	6380	0.1	90488	1	25	15700
1969-70	10222	410	1.0	13859	2	28	1020
1970-71	10822	1030	0.8	11683	11	25	2930
1971-72	4009	297	0.4	4557	12	24	798
1972-73	19613	2210	0.4	16632	2	11	6970
1973-74	12746	424	1.1	12051	1	7	880
1974-75	6610	241	1.1	8344	3	6	432
1975-76	5550	509	0.1	5040	02	09	824
1976-77	4955	206	.3	5000	1	3	421

N.D. = NOT DETERMINED

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Cogswell Dam

DRAINAGE AREA 32.2 sq. mi. CAPACITY OF RESERVOIR 9200 AC. FT. AT SPILLWAY ELEVATION 285.5 FT. no. of May, 1973

DAM OPERATION RECORD

1975-76

GAGE HEIGHTS AND STORAGES ARE AS OF MIDNIGHT UNLESS SHOWN.

Table with columns for months (OCTOBER, NOVEMBER, DECEMBER, JANUARY) and rows for Gage Height, Inflow, Storage, and Outflow. Includes summary rows for Inf. Ac. Ft., Def. Ac. Ft., and Storage Change.

Table with columns for months (FEBRUARY, MARCH, APRIL, MAY) and rows for Gage Height, Inflow, Storage, and Outflow. Includes summary rows for Inf. Ac. Ft., Def. Ac. Ft., and Storage Change.

Table with columns for months (JUNE, JULY, AUGUST, SEPTEMBER) and rows for Gage Height, Inflow, Storage, and Outflow. Includes summary rows for Inf. Ac. Ft., Def. Ac. Ft., and Storage Change. Includes additional summary statistics for W.S. Elev., Max. Inflow, and Max. Outflow.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

DAM OPERATION RECORD

COGSMELL DAM

DRAINAGE AREA 39.2 SQ. MI. RESERVOIR CAPACITY 9320 A.F. AT SPILLWAY ELEVATION 2385.0 FT. AS OF MAY, 1973

GAGE HEIGHTS AND STORAGE ARE AS OF MIDNIGHT ON DAY SHOWN

1976-77

Table with columns for months (OCTOBER, NOVEMBER, DECEMBER, JANUARY) and rows for Gage Height, Acre-ft Storage, CFS Inflow, CFS Outflow. Includes summary rows for Inflow, Outflow, Max Mean Daily Inflow, etc.

Table with columns for months (FEBRUARY, MARCH, APRIL, MAY) and rows for Gage Height, Acre-ft Storage, CFS Inflow, CFS Outflow. Includes summary rows for Inflow, Outflow, Max Mean Daily Inflow, etc.

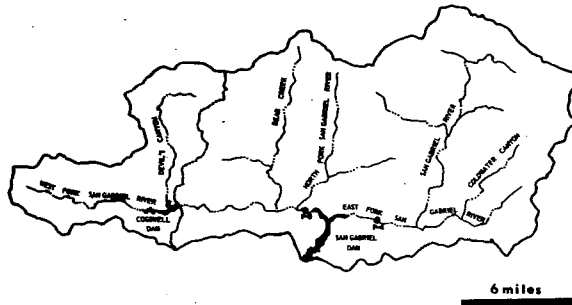
Table with columns for months (JUNE, JULY, AUGUST, SEPTEMBER) and rows for Gage Height, Acre-ft Storage, CFS Inflow, CFS Outflow. Includes summary rows for Inflow, Outflow, Max Mean Daily Inflow, etc.

Remarks: ( ) INDICATES EVAPORATION AND OTHER LOSSES. Max W.S. Elev. 2339.6, Min W.S. Elev. 2277.33, Max Peak Inflow 421, Max Peak Outflow 29.4.

# SAN GABRIEL DAM AND RESERVOIR



## drainage area



**PURPOSE -**  
Flood Control and Conservation

**DATE CONSTRUCTED -**  
Started December 1932 - Completed July 1939

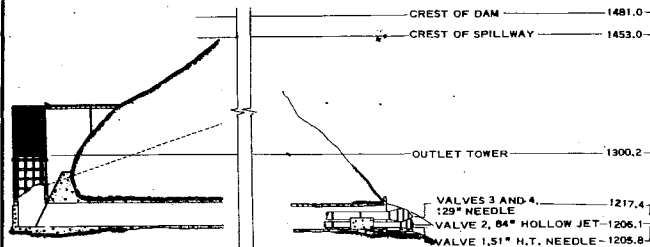
**LOCATION -**  
San Gabriel Canyon, 7.5 miles north of Azusa

**DRAINAGE AREA -** 163.5 square miles (uncontrolled)  
39.2 square miles (controlled)  
Total 202.7 square miles  
(includes Cagswell drainage)

**CAPACITY -** 41,549 acre-feet

**SPILLWAY ELEVATION -** 1,453 feet

## cross-section



### SAN GABRIEL DAM

#### YEARLY RESERVOIR OPERATION SUMMARY

SEASON	ANNUAL AF	INFLOW		OUTFLOW ANNUAL AF	PEAK INFLOW		
		MAX-DAY CFS	MIN-DAY CFS		MO	DAY	CFS
1937-38	339155	30720	37	332893	3	2	85320
1938-39	67231	1330	23	51655	12	15	2780
1939-40	58554	757	18	63386	1	8	2270
1940-41	306801	3940	20	305515	2	20	5780
1941-42	50285	297	20	49759	12	25	468
1942-43	271286	17180	20	267085	1	23	46000
1943-44	184923	5710	43	184822	2	22	9860
1944-45	91961	1300	28	90131	11	11	6440
1945-46	99531	2960	28	89502	12	21	5760
1946-47	107688	3340	18	104088	12	26	6520
1947-48	29259	257	3.9	37794	4	25	506
1948-49	24728	94	11	21546	1	20	120
1949-50	27797	266	9.5	27736	12	15	448
1950-51	10169	54	3.0	13002	1	11	174
1951-52	159048	3340	3.9	118918	1	16	6130
1952-53	41270	375	7.5	77961	12	1	544
1953-54	60515	1280	8.3	56517	1	25	2940
1954-55	39159	171	18	37304	4	30	313
1955-56	35215	950	14	38127	1	26	2250
1956-57	37210	1090	15	35069	1	13	2850
1957-58	230745	4270	21	229610	4	3	6900
1958-59	43762	1030	14	43100	1	6	3080
1959-60	19474	112	5.0	19258	4	28	168
1960-61	12041	122	2.2	12698	11	5	634
1961-62	116890	6350	3.4	112380	2	11	13960
1962-63	25930	512	6.2	24587	2	5	2440
1963-64	24009	287	5.2	22601	4	1	504
1964-65	36281	396	5.5	34427	4	9	1070
1965-66	220689	9030	12	217503	12	25	27180
1966-67	224903	6700	30	224538	12	6	12420
1967-68	66761	697	26	68771	11	15	1620
1968-69	52783	28020	24	524874	1	25	44400
1969-70	66842	1250	26	66688	2	28	2550
1970-71	60375	2120	29	55358	11	25	6400
1971-72	34908	975	14	38192	12	25	1390
1972-73	124722	5075	14.1	124333	2	11	17430
1973-74	72959	1140	32	67194	1	7	1820
1974-75	47681	423	27	46194	3	6	880
1975-76	38598	978	18.7	33781	09	11	1630
1976-77	36322	407	15	34846	1	3	1137

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

San Gabriel Dam

DRAINAGE AREA 202.7 SQ. MI. CAPACITY RESERVOIR 46,554 AC. FT. AT SPILLWAY ELEVATION 1453. FT. as of October, 1973

DAM OPERATION RECORD

GAGE HEIGHTS AND STORAGE AREAS AS OF MIDNIGHT ON DAY SHOWN.

Table with columns for Date, Gage Height, Acro-Fl. Storage, CFS Inflow, CFS Outflow for months OCTOBER, NOVEMBER, DECEMBER, and JANUARY. Includes summary rows for totals and inf. ac. fl.

Table with columns for Date, Gage Height, Acro-Fl. Storage, CFS Inflow, CFS Outflow for months FEBRUARY, MARCH, APRIL, and MAY. Includes summary rows for totals and inf. ac. fl.

Table with columns for Date, Gage Height, Acro-Fl. Storage, CFS Inflow, CFS Outflow for months JUNE, JULY, AUGUST, and SEPTEMBER. Includes summary rows for totals and inf. ac. fl.



DAM OPERATION RECORD

SAN GABRIEL DAM  
1976-77

DRAINAGE AREA 202.7 SQ. MI.  
RESERVOIR CAPACITY 46554 A.F.  
AT SPILLWAY ELEVATION 1453.0 FT.  
AS OF OCTOBER, 1973

RAISE HEIGHTS AND STORAGES  
ARE AS OF MIDNIGHT ON DAY SHOWN

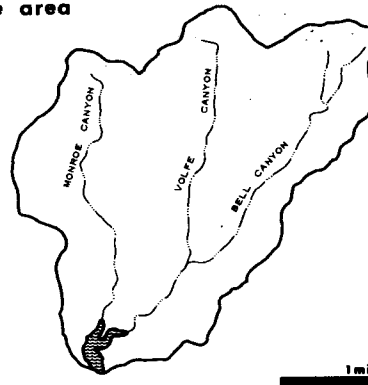
#	OCTOBER				NOVEMBER				DECEMBER				JANUARY			
	Gage Height	Area-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Area-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Area-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Area-ft Storage	CFS Inflow	CFS Outflow
1	1346.64	8373.7	65.3	70.7	1312.84	2284.9	27.0	56.4	1311.68	2132.4	25.6	25.4	1311.83	2151.9	30.2	25.3
2	1346.58	8360.3	65.5	70.7	1312.48	2237.4	27.6	50.4	1311.68	2132.4	26.2	25.4	1312.11	2188.5	43.6	25.2
3	1346.51	8347.0	64.2	70.1	1312.12	2187.8	27.7	50.3	1311.69	2132.7	27.0	25.4	1312.28	2255.8	312.2	25.4
4	1346.42	8324.7	62.7	70.0	1311.74	2140.2	27.2	50.0	1311.69	2133.7	27.0	25.4	1312.43	2293.9	65.5	25.8
5	1344.93	7994.7	62.7	226.7	1311.37	2092.1	27.2	50.0	1311.69	2133.7	27.0	25.4	1312.56	2293.8	80.0	26.2
6	1342.50	7469.0	62.8	326.0	1310.97	2040.2	25.0	50.0	1311.70	2135.0	26.7	25.2	1312.15	2181.0	149.6	28.0
7	1339.91	6923.5	59.2	326.0	1310.58	1991.1	26.5	50.0	1311.71	2136.3	26.7	25.1	1322.20	3677.6	277.9	28.0
8	1337.28	6427.0	52.3	326.4	1310.43	1972.2	26.2	34.5	1311.71	2136.3	25.7	25.0	1322.50	3897.0	139.3	28.0
9	1334.55	5857.1	59.6	325.6	1310.44	1973.4	26.6	25.2	1311.71	2137.6	26.4	25.0	1324.10	4001.0	80.2	27.9
10	1331.80	5347.0	66.4	321.4	1310.47	1977.2	28.1	25.2	1311.72	2137.6	25.7	25.0	1324.46	4062.2	72.5	40.9
11	1329.00	4849.0	69.6	319.1	1310.52	1983.5	28.6	25.2	1311.72	2137.6	25.6	25.0	1324.58	4082.6	63.3	52.4
12	1326.00	4325.0	58.9	320.3	1311.99	2042.7	55.7	25.2	1311.72	2137.6	26.0	25.0	1324.68	4099.6	59.5	50.3
13	1322.97	3819.0	51.1	318.8	1311.14	2062.2	35.3	25.2	1311.72	2137.6	25.8	25.0	1324.77	4114.9	59.8	51.4
14	1319.83	3289.8	56.8	317.4	1311.25	2076.5	33.1	25.5	1311.71	2136.3	25.0	25.0	1324.83	4125.1	56.7	51.1
15	1318.12	3022.4	58.2	191.9	1311.31	2084.3	30.2	25.6	1311.69	2133.7	24.7	25.0	1324.90	4137.0	57.2	50.5
16	1317.95	2996.7	58.4	70.2	1311.37	2092.1	30.0	25.6	1311.66	2129.8	24.1	25.0	1324.91	4138.7	52.5	50.5
17	1317.75	2967.5	56.5	70.3	1311.42	2098.6	29.5	25.6	1311.64	2127.2	24.7	25.0	1324.92	4140.4	51.8	50.4
18	1317.54	2939.0	57.1	70.2	1311.44	2101.2	27.5	25.2	1311.62	2124.6	24.1	25.1	1324.98	4150.4	55.9	49.8
19	1317.35	2909.1	55.8	70.2	1311.48	2106.4	26.8	25.5	1311.60	2123.3	25.3	25.3	1325.08	4167.8	59.2	49.8
20	1317.14	2879.4	55.4	70.1	1311.51	2110.3	27.9	25.2	1311.62	2122.0	25.3	25.3	1325.20	4189.4	60.5	49.8
21	1316.95	2850.9	57.2	70.4	1311.54	2114.2	27.9	25.2	1311.58	2119.4	24.9	25.2	1325.45	4231.4	72.0	49.8
22	1316.93	2840.4	67.1	70.4	1311.58	2119.4	28.7	25.2	1311.57	2118.1	24.5	25.2	1325.64	4264.1	66.8	49.8
23	1316.88	2841.0	67.8	70.9	1311.61	2124.6	28.1	25.2	1311.58	2117.0	24.6	25.1	1325.77	4286.4	61.6	49.8
24	1316.72	2818.2	59.6	70.2	1311.62	2124.6	26.7	25.1	1311.31	2084.3	25.4	25.3	1325.87	4303.6	59.3	49.8
25	1316.54	2792.2	58.3	70.2	1311.62	2124.6	26.0	25.2	1311.30	2082.0	25.3	25.3	1325.95	4317.4	57.4	49.8
26	1316.26	2752.9	51.6	70.1	1311.65	2128.5	27.9	25.2	1311.28	2080.4	24.8	25.3	1326.04	4332.9	58.6	49.8
27	1315.70	2694.3	31.9	70.2	1311.66	2129.8	26.9	25.2	1311.26	2077.8	24.7	25.3	1326.10	4343.3	55.4	49.8
28	1315.12	2593.7	30.8	70.2	1311.67	2131.1	26.9	25.2	1311.25	2075.9	24.5	25.3	1326.16	4355.8	49.8	49.8
29	1314.55	2515.4	31.7	69.9	1311.69	2133.7	27.5	25.4	1311.21	2071.3	23.8	25.3	1326.19	4359.9	55.0	49.8
30	1313.92	2429.3	27.6	69.9	1311.69	2133.7	26.2	25.4	1311.58	2119.4	49.8	25.3	1326.22	4364.1	54.1	50.1
31	1313.30	2346.2	29.2	69.9	1311.69	2133.7	26.2	25.4	1311.76	2142.8	37.5	25.3	1326.23	4365.8	52.4	50.8
TOTAL	1733.1	4732.0			1733.1	4732.0	867.7	947.7			867.7	947.7	1733.1	4732.0	491.2	1355.9
Inf. Ac. Ft.	3435.1						1721.0					1721.0			491.2	
Out. Ac. Ft.	9385.7	(90.6)					1879.4	(53.7)				1579.0	(46.0)		2649.5	(37.6)
Max. Mean Daily Inf.	69.6						55.7					49.8			312.2	
Min. Mean Daily Inf.	27.6						25.0					23.8			30.2	
Storage Change	6040.9						212.5					9.1			2223.0	

#	FEBRUARY				MARCH				APRIL				MAY			
	Gage Height	Area-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Area-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Area-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Area-ft Storage	CFS Inflow	CFS Outflow
1	1326.22	4364.1	50.4	50.8	1325.26	4198.7	37.7	39.8	1329.74	4977.2	40.5	25.4	1333.44	5647.8	34.8	25.0
2	1326.22	4364.1	51.3	50.5	1325.30	4205.6	38.5	33.6	1329.92	5010.9	41.6	25.6	1333.51	5660.9	33.3	25.0
3	1326.21	4364.3	50.9	50.5	1325.40	4222.8	39.4	29.6	1330.07	5037.5	40.8	26.0	1333.58	5673.9	33.1	25.0
4	1326.16	4325.0	47.3	50.5	1325.48	4236.6	37.8	29.6	1330.19	5058.8	37.9	25.7	1333.64	5685.0	32.0	25.0
5	1326.11	4245.0	47.2	50.5	1325.54	4246.2	36.2	29.6	1330.32	5080.1	40.3	25.7	1333.70	5696.2	31.4	25.0
6	1326.06	4236.4	47.0	50.3	1325.60	4257.2	36.5	29.8	1330.44	5103.3	37.3	25.3	1333.78	5707.4	30.7	25.0
7	1326.00	4236.0	45.9	50.3	1325.64	4264.1	35.3	30.5	1330.60	5131.8	40.3	25.0	1333.88	5727.9	35.8	25.0
8	1325.94	4231.5	45.4	49.8	1325.66	4267.5	33.2	30.5	1330.75	5158.5	39.4	25.0	1333.73	5728.8	30.4	25.0
9	1325.88	4226.4	45.2	49.5	1325.71	4276.2	35.7	30.5	1330.93	5190.5	41.7	25.0	1334.45	5799.0	40.6	25.6
10	1325.79	4228.9	42.7	50.3	1325.72	4277.8	32.3	30.2	1331.09	5219.2	40.4	25.0	1334.82	5839.1	45.2	25.6
11	1325.68	4217.0	42.5	50.8	1325.75	4283.0	34.2	30.2	1331.24	5246.2	40.5	25.8	1335.28	5876.5	43.2	25.6
12	1325.57	4252.0	42.2	50.3	1325.77	4286.4	32.9	30.0	1331.39	5273.2	39.8	25.0	1334.18	5892.6	35.8	25.6
13	1325.45	4231.4	40.9	50.0	1325.80	4291.6	34.0	30.0	1331.54	5300.2	39.6	25.0	1334.95	5922.1	31.4	25.6
14	1325.42	4226.2	43.4	49.4	1325.83	4296.8	33.7	30.0	1331.69	5327.2	39.7	25.0	1335.68	5953.3	31.7	25.6
15	1325.42	4226.2	41.5	39.9	1325.84	4298.5	31.9	30.0	1331.84	5354.2	39.7	25.0	1336.44	5989.1	31.2	25.6
16	1325.24	4195.3	40.5	53.8	1326.15	4352.0	54.6	27.1	1331.97	5377.6	37.9	25.0	1337.24	6028.0	26.0	25.6
17	1325.23	4193.6	42.1	40.9	1326.36	4388.3	44.4	25.4	1332.11	5403.1	38.9	25.0	1337.96	6067.0	26.0	25.6
18	1325.21	4190.1	40.9	40.9	1326.50	4412.5	38.7	25.4	1332.25	5428.8	38.9	25.0	1338.67	6103.8	10.9	25.6
19	1325.19	4186.7	40.7	40.9	1326.60	4429.3	35.0	25.3	1332.39	5454.4	40.3	25.0	1339.40	6139.0	11.0	25.6
20	1325.18	4185.0	40.2	40.4	1326.70	4447.1	35.1	25.2	1332.50	5474.5	37.4	25.0	1339.18	6178.1	10.3	25.6
21	1325.17	4183.2	40.8	40.4	1326.80	4464.4	35.3	25.2	1332.60	5492.8	36.2	25.0	1339.05	6210.7	13.0	25.6
22	1325.17	4183.2	40.7	40.4	1326.87	4476.5	32.2	25.2	1332.71	5512.9	37.2	25.0	1339.04	6242.4	14.8	25.6
23	1325.20	4188.4	43.4	40.4	1326.94	4488.6	31.8	25.2	1332.82	5532.6	34.4	25.0	1339.05	6271.0	14.7	25.6
24	1325.27	4217.4	44.1	40.4	1327.10	4527.1	31.9	25.2	1332.97	5569.4	34.6	25.0	1339.16	6309.1	14.6	25.6
25	1325.32	4202.0	45.4	39.5	1327.58	4599.9	67.8	25.2	1332.93	5553.2	32.4	25.0	1339.30	6347.0	13.1	25.6
26	1325.30	4205.6	38.7	39.3	1327.92	4659.1	56.3	25.2	1333.02	5569.7	34.5	25.0	1339.52	6384.4	12.1	25.6
27	1325.30	4205.6	40.8	39.7	1328.16	4701.2	47.1	25.2	1333.11	5586.5	34.5	25.0	1339.16	6401.2	11.5	25.6
28	1325.30	4205.6	40.8	39.7	1328.40	4743.4	47.9	25.2	1333.19	5601.3	33.9	25.0	1339.78	6433.1	11.3	25.6
29					1328.80	4813.8	48.7	25.2	1333.27	5616.7	34.1	25.0	1340.35	6469.8	9.4	25.6
30					1329.28	4898.3	45.0	1.3	1333.35	5631.1	33.9	25.0	1341.90	6510.2	10.5	25.6
31					1329.58	4951.1	43.4	15.8					1343.39	6552.5	10.0	25.6
TOTAL	1226.0	1273.8			1230.0	1230.0	820.4									

# BIG DALTON DAM AND RESERVOIR



## drainage area



**PURPOSE** -  
Flood Control and Conservation

**DATE CONSTRUCTED** -  
Started December 1927 - Completed August 1929

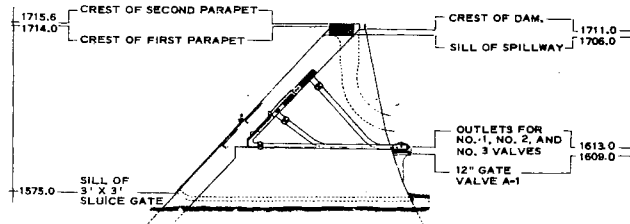
**LOCATION** -  
Big Dalton Canyon, 4.0 miles northeast of Glandora

**DRAINAGE AREA** - 4.5 square miles

**CAPACITY** - 963 acre-feet

**SPILLWAY ELEVATION** - 1,706.0 feet

## cross-section



### BIG DALTON DAM

#### YEARLY RESERVOIR OPERATION SUMMARY

SEASON	ANNUAL AF	INFLOW MAX-DAY CFS	MIN-DAY CFS	CLTFLOW ANNUAL AF	PEAK INFLOW		
					MC	DAY	CFS
1929-30	52	3.2	0	52			N.C.
1930-31	41	2.0	0	41	4	26	3.0
1931-32	69C	5.4	0	688	2	9	86
1932-33	79	5.2	0	81	1	20	12
1933-34	448	.93	0	448	1	1	227
1934-35	553	21	0	575	4	8	49
1935-36	36C	12	0	370	2	11	72
1936-37	1879	51	0	1868	2	6	98
1937-38	3271	415	0	3192	3	2	1320
1938-39	28C	4.3	0	288	1	5	26
1939-40	232	4.0	0	236	1	8	29
1940-41	2767	56	+	2748	3	4	88
1941-42	209	2.3	0	233	3	14	6.0
1942-43	3143	160	0.1	3110	1	23	595
1943-44	1087	109	+	1085	2	22	226
1944-45	734	19	0	729	11	11	47
1945-46	525	40	0	509	12	23	148
1946-47	452	16	0	512	11	20	56
1947-48	58	0.7	0	7.7	4	28	9.7
1948-49	54	0.8	0	113	12	17	3.3
1949-50	142	2.0	0	130	2	6	3.5
1950-51	27	2.1	+	14	1	11	4.8
1951-52	1626	73	0	1577	1	16	154
1952-53	12C	1.4	+	68	12	1	4.8
1953-54	346	13	0	359	1	25	53
1954-55	87	0.5	+	5.0	1	18	2.4
1955-56	15C	14	+	213	1	26	56
1956-57	76	0.9	+	27	1	13	1.8
1957-58	2104	97	0	2052	4	3	169
1958-59	16C	6.4	+	133	2	16	26
1959-60	54	0.6	+	11	4	27	4.8
1960-61	187	18	0	1510	11	7	462
1961-62	1222	63	0	933	12	2	1130
1962-63	248	20	0.1	159	2	9	92
1963-64	165	2.8	0	300	3	22	30
1964-65	38C	18	0	15	4	9	73
1965-66	2210	113	0	2013	11	22	489
1966-67	4787	292	0.1	4790	12	6	685
1967-68	771	15	0.1	681	11	19	56
1968-69	13251	1210	0	12995	1	25	1540
1969-70	728	15	0.1	610	2	28	91
1970-71	856	22	0.1	1100	12	21	38
1971-72	217	10	+	+	12	27	11
1972-73	1386	100	+	1046	2	11	163
1973-74	86C	43	0.1	1030	1	7	68
1974-75	379	4.0	0.1	211	3	6	7.8
1975-76	237	6.4	0	467	03	01	17.0
1976-77	171	3.1	0	20	1	3	14

N.O. = NOT DETERMINED  
+ = LESS THAN 0.05 ACRE FEET OR LESS THAN 0.05 CFS, BUT GREATER THAN 0.

**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT**  
**DAM OPERATION RECORD**

Big Dalton Dam

1975-76

DRAINAGE AREA 3.49 SQ. MI.  
CAPACITY OF RESERVOIR 954.4 AC. FT.  
SPILLWAY ELEVATION 1706.0 FT.  
as of January 1976

GAGE HEIGHTS AND STORAGE ARE AS OF MIDNIGHT ON DAY SHOWN.

Date	OCTOBER				NOVEMBER				DECEMBER				JANUARY			
	Gage Height	Accre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Accre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Accre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Accre-Ft. Storage	CFS Inflow	CFS Outflow
1 1975-10	339.2	0.1	0	0	1671.6	336.4	0	0	1671.7	336.8	0.1	0	1671.9	340.7	0.2	0
2 1975-10	339.2	0.1	0	0	1671.6	336.5	0	0	1671.7	337.0	0.1	0	1671.9	340.7	0.2	0
3 1975-10	339.5	0.1	0	0	1671.7	336.8	0	0	1671.7	336.8	0.1	0	1671.9	340.8	0.2	0
4 1975-10	339.5	0.1	0	0	1671.7	337.0	0	0	1671.7	336.8	0.1	0	1672.0	341.2	0.2	0
5 1975-10	339.5	0.1	0	0	1671.6	336.4	0.1	0	1671.7	336.8	0.1	0	1672.0	341.3	0.2	0
6 1975-10	339.2	0.1	0	0	1671.6	336.2	0.1	0	1671.7	336.8	0.1	0	1672.0	341.3	0.2	0
7 1975-10	339.2	0.1	0	0	1671.6	336.4	0.1	0	1671.7	337.2	0.1	0	1672.0	341.8	0.2	0
8 1975-10	339.2	0.1	0	0	1671.7	337.3	0.1	0	1671.7	336.8	0.1	0	1672.0	342.9	0.2	0
9 1975-10	338.8	0.1	0	0	1671.6	336.6	0.1	0	1671.8	338.2	0.1	0	1672.0	342.0	0.2	0
10 1975-10	338.7	0.1	0	0	1671.6	336.4	0.1	0	1671.8	338.2	0.1	0	1672.1	342.2	0.2	0
11 1975-10	338.8	0.1	0	0	1671.7	336.8	0.1	0	1671.7	337.4	0.1	0	1672.1	342.4	0.2	0
12 1975-10	338.8	0.1	0	0	1671.7	337.0	0.1	0	1671.7	337.2	0.1	0	1672.1	342.6	0.2	0
13 1975-10	338.7	0.1	0	0	1671.7	337.3	0.1	0	1671.8	338.1	0.1	0	1672.1	342.8	0.2	0
14 1975-10	339.1	0.1	0	0	1671.7	336.9	0.1	0	1671.8	338.5	0.1	0	1672.1	343.3	0.2	0
15 1975-10	339.5	0.1	0	0	1671.7	336.9	0.1	0	1671.8	338.7	0.1	0	1672.2	343.5	0.2	0
16 1975-10	339.5	0.1	0	0	1671.7	336.8	0.1	0	1671.8	339.1	0.1	0	1672.2	344.1	0.2	0
17 1975-10	339.6	0.1	0.2	0	1671.6	336.5	0.1	0	1671.8	339.2	0.1	0	1672.2	344.4	0.1	0
18 1975-10	339.2	0.1	0	0	1671.6	336.4	0.1	0	1671.9	339.5	0.1	0	1672.2	344.7	0.1	0
19 1975-10	339.0	0	0	0	1671.6	336.6	0.1	0	1671.9	339.6	0.2	0	1672.2	344.1	0.1	0
20 1975-10	339.2	0	0	0	1671.6	336.6	0.1	0	1671.9	339.5	0.2	0	1672.2	344.4	0.1	0
21 1975-10	339.2	0	0	0	1671.7	336.8	0.1	0	1671.9	339.7	0.2	0	1672.2	344.9	0.1	0
22 1975-10	339.1	0	0	0	1671.6	336.8	0.1	0	1671.9	339.7	0.2	0	1672.2	344.1	0.1	0
23 1975-10	339.5	0	0	0	1671.7	336.8	0.1	0	1671.9	339.8	0.2	0	1672.2	344.3	0.1	0
24 1975-10	339.5	0	0	0	1671.7	337.0	0.1	0	1671.9	340.1	0.2	0	1672.2	344.5	0.1	0
25 1975-10	339.4	0	0	0	1671.7	337.0	0.1	0	1671.9	340.3	0.2	0	1672.2	344.1	0.1	0
26 1975-10	339.4	0	0	0	1671.7	336.8	0.1	0	1671.9	340.5	0.2	0	1672.2	344.5	0.1	0
27 1975-10	339.1	0	0	0	1671.9	336.2	0.1	0	1671.9	340.4	0.2	0	1672.2	344.9	0.1	0
28 1975-10	339.4	0	0	0	1671.7	336.4	0.1	0	1671.9	340.2	0.2	0	1672.2	345.2	0.1	0
29 1975-10	339.1	0	0	0	1671.6	336.2	0.1	0	1672.0	341.2	0.2	0	1672.3	345.0	0.1	0
30 1975-10	339.1	0	0	0	1671.6	336.2	0.1	0	1672.0	340.9	0.2	0	1672.3	344.9	0.1	0
31 1975-10	339.1	0	0	0	1671.6	336.2	0.1	0	1672.0	340.8	0.2	0	1672.3	345.3	0.1	0
TOTAL			1.8	0.2			2.6	0			4.2	0			4.7	0
Inf. Acc. Ft.			3.6				5.2				8.2				9.2	
Conf. Acc. Ft.			0.4 + (5.8)				0 + (5.0)				0 + (3.5)				0 + (4.8)	
Max. Mean Daily Inf.			0.1				0.1				0.2				0.2	
Min. Mean Daily Inf.			0				0				0.1				0.1	
Storage Change			-2.7				0				4.6				4.5	

Date	FEBRUARY				MARCH				APRIL				MAY			
	Gage Height	Accre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Accre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Accre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Accre-Ft. Storage	CFS Inflow	CFS Outflow
1 1975-2	345.4	0.2	0	0	1676.5	403.6	5.4	0	1665.8	261.5	0.3	0	1668.1	289.9	0.4	0
2 1975-2	345.7	0.3	0	0	1677.1	412.8	4.7	0	1665.9	262.7	0.7	0	1668.1	290.0	0.2	0
3 1975-2	346.1	0.3	0	0	1677.6	419.9	3.5	0	1666.1	264.2	0.9	0	1668.1	290.2	0.2	0
4 1975-2	346.4	0.2	0	0	1677.8	422.9	1.6	0	1666.2	265.9	0.8	0	1668.2	290.6	0.3	0
5 1975-2	347.3	0.2	0	0	1678.3	419.4	2.3	0	1666.3	266.8	0.5	0	1668.3	291.2	0.2	0
6 1975-2	349.5	0.2	0	0	1678.4	398.2	1.4	10.0	1666.3	267.0	0.2	0	1668.3	292.1	0.2	0
7 1975-2	351.7	1.2	0	0	1675.1	365.7	2.5	9.7	1666.4	267.9	0.5	0	1668.3	293.0	0.5	0
8 1975-2	351.1	2.7	0	0	1673.9	368.0	1.7	9.5	1666.5	269.2	0.7	0	1668.4	293.5	0.4	0
9 1975-2	346.1	4.5	0	0	1672.8	391.6	1.3	9.5	1666.5	270.0	0.5	0	1668.4	294.1	0.3	0
10 1975-2	347.8	3.4	0	0	1671.4	374.2	1.4	9.5	1666.6	270.6	0.4	0	1668.5	294.6	0.4	0
11 1975-2	347.2	1.3	0	0	1670.3	317.9	0.3	8.9	1666.6	271.4	0.3	0	1668.5	295.0	0.2	0
12 1975-2	347.8	0.9	0	0	1669.0	301.1	0.7	9.2	1666.8	273.4	1.0	0	1668.5	295.3	0.3	0
13 1975-2	349.9	0.9	0	0	1667.6	284.1	0.7	9.2	1666.9	274.9	0.8	0	1668.5	295.5	0.3	0
14 1975-2	348.1	1.0	0	0	1666.3	267.7	0.7	8.9	1667.0	275.9	0.5	0	1668.6	295.9	0.3	0
15 1975-2	349.4	0	0	0	1665.0	251.0	0.4	8.7	1667.1	277.7	1.2	0	1668.6	296.2	0.3	0
16 1975-2	349.0	0.1	0	0	1664.5	245.3	0.3	3.1	1667.1	277.9	1.2	0	1668.6	296.6	0.2	0
17 1975-2	349.5	0	0	0	1664.6	246.8	0.9	0	1667.4	280.7	0.5	0	1668.6	296.8	0.3	0
18 1975-2	349.8	0.2	0	0	1664.7	248.0	0.7	0	1667.4	281.0	0.2	0	1668.7	297.1	0.3	0
19 1975-2	349.2	0.3	0	0	1664.8	249.2	0.6	0	1667.5	281.7	0.5	0	1668.7	297.3	0.2	0
20 1975-2	349.1	0.3	0	0	1664.9	250.7	0.8	0	1667.5	282.2	0.4	0	1668.7	297.7	0.3	0
21 1975-2	349.5	0.1	0	0	1665.1	252.1	0.8	0	1667.6	283.1	0.5	0	1668.7	297.9	0.2	0
22 1975-2	349.8	0.2	0	0	1665.1	252.9	0.5	0	1667.6	283.7	0.4	0	1668.7	298.1	0.2	0
23 1975-2	349.1	0.3	0	0	1665.2	253.5	0.5	0	1667.7	284.4	0.4	0	1668.8	298.3	0.2	0
24 1975-2	349.7	0.4	0	0	1665.3	254.9	0.8	0	1667.7	285.3	0.5	0	1668.8	298.6	0.2	0
25 1975-2	349.4	0.2	0	0	1665.4	256.0	0.6	0	1667.8	286.0	0.4	0	1668.8	298.8	0.2	0
26 1975-2	349.2	0.4	0	0	1665.5	257.0	0.5	0	1667.8	286.5	0.3	0	1668.8	299.0	0.2	0
27 1975-2	349.4	0.4	0	0	1665.6	258.1	0.7	0	1667.9	287.0	0.3	0	1668.8	299.3	0.2	0
28 1975-2	349.2	0.2	0	0	1665.7	259.4	0.8	0	1667.9	287.7	0.4	0	1668.9	299.7	0.2	0
29 1975-2	349.9	0.9	0	0	1665.7	259.8	0.3	0	1668.0	288.3	0.4	0	1668.9	299.9	0.2	0
30 1975-2					1665.8	260.3	0.5	0	1668.1	289.3	0.7	0	1668.9	300.2	0.2	0
31 1975-2					1665.9	261.0	0.3	0					1668.9	300.4	0.2	0
TOTAL			24.6	0			38.8	102.4			16.5	0			24.4	0
Inf. Acc. Ft.			48.7				76.9				32.7				16.6	
Conf. Acc. Ft.			0 + (5.1)				203.1 + (3.7)				0 + (4.4)				0 + (5.0)	
Max. Mean Daily Inf.			4.5				6.4				1.2				0.9	
Min. Mean Daily Inf.			0				0.3				0.2				0.2	
Storage Change			45.6				-129.9				28.3				11.1	

Date	JUNE				JULY				AUGUST				SEPTEMBER			
	Gage Height	Accre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Accre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Accre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Accre-Ft. Storage	CFS Inflow	CFS Outflow
1 1975-6	300.7	0.2	0	0	1638.9	50.0	0.2	0	1638.8	49.9	0.1	0	1636.3	39.5	0	0
2 1975-6	301.0	0.2	0	0	1639.0	50.4	0.3	0	1638.8	49.9	0.1	0	1636.3	39.4	0	0
3 1975-6	301.4	0.2	0	0	1639.0	50.8	0.2	0	1638.3	47.7	0.2	1.3	1636.3	39.4	0	0
4 1975-6	301.5	0.2	0	0	1639.1	51.1	0.2	0	1637.9	46.1	0	0.8	1636.3	39.4	0	

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT  
DAM OPERATION RECORD

BIG DALTON DAM

1976-77

DRAINAGE AREA 4.49 SQ. MI.  
RESERVOIR CAPACITY 963 A.C.F.  
AT SPILLWAY ELEVATION 1706.0 FT.  
AS OF JANUARY, 1972

GAGE HEIGHTS AND STORAGES  
ARE AS OF MIDNIGHT ON DAY SHOWN

DATE	OCTOBER				NOVEMBER				DECEMBER				JANUARY			
	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow
1	1638.44	48.2	0.1	0	1639.46	52.7	0.2	0	1640.71	55.4	0.1	0	1642.07	58.3	0.2	0
2	1638.29	47.5	0.1	0	1639.50	52.9	0.1	0	1640.74	58.6	0.1	0	1642.28	65.3	0.2	0
3	1638.19	47.1	0.1	0	1639.53	53.0	0.1	0	1640.78	58.8	0.1	0	1642.50	72.3	0.1	0
4	1638.24	47.3	0.1	0	1639.55	53.1	0.1	0	1640.84	59.0	0.2	0	1642.67	73.2	0.5	0
5	1638.27	47.5	0.1	0	1639.59	53.3	0.1	0	1640.89	59.3	0.2	0	1642.15	75.7	1.2	0
6	1638.31	47.6	0.1	0	1639.63	53.4	0.1	0	1640.92	59.4	0.2	0	1642.90	80.1	2.3	0
7	1638.35	47.8	0.1	0	1639.67	53.6	0.2	0	1640.96	59.6	0.1	0	1642.01	86.0	2.9	0
8	1638.39	48.0	0.1	0	1639.71	53.8	0.1	0	1640.99	59.8	0.2	0	1642.41	88.3	1.3	0
9	1638.44	48.2	0.2	0	1639.75	54.0	0.1	0	1641.03	59.9	0.1	0	1642.80	90.6	1.2	0
10	1638.49	48.4	0.1	0	1639.81	54.2	0.2	0	1641.07	60.1	0.1	0	1642.96	92.2	0.8	0
11	1638.53	48.6	0.1	0	1639.85	54.4	0.1	0	1641.11	60.3	0.1	0	1642.27	93.4	0.6	0
12	1638.59	48.8	0.2	0	1639.97	55.0	0.3	0	1641.15	60.5	0.1	0	1642.45	95.6	0.5	0
13	1638.61	48.9	0.1	0	1639.99	55.1	0.1	0	1641.19	60.7	0.2	0	1642.63	94.5	0.6	0
14	1638.65	49.1	0.1	0	1640.03	55.2	0.1	0	1641.21	60.8	+	0	1642.78	96.6	0.5	0
15	1638.67	49.2	0.2	0	1640.07	55.4	0.1	0	1641.25	61.0	0.1	0	1642.92	97.4	0.5	0
16	1638.72	49.4	0.1	0	1640.11	55.6	0.2	0	1641.28	61.2	0.1	0	1642.06	98.3	0.4	0
17	1638.78	49.7	0.1	0	1640.15	55.8	0.1	0	1641.31	61.3	0.2	0	1642.20	99.2	0.5	0
18	1638.83	49.9	0.1	0	1640.19	56.0	0.1	0	1641.36	61.5	0.1	0	1642.30	99.9	0.3	0
19	1638.88	50.1	0.2	0	1640.23	56.2	0.1	0	1641.41	61.8	0.1	0	1642.41	100.6	0.5	0
20	1638.94	50.3	0.1	0	1640.28	56.4	0.2	0	1641.45	62.0	0.1	0	1642.52	101.3	0.4	0
21	1638.99	50.6	0.2	0	1640.33	56.7	0.1	0	1641.49	62.2	0.1	0	1642.61	102.1	0.4	0
22	1639.07	50.9	0.1	0	1640.37	56.8	0.1	0	1641.52	62.3	0.2	0	1642.74	102.7	0.3	0
23	1639.12	51.1	0.2	0	1640.41	57.0	0.1	0	1641.54	62.4	+	0	1642.86	103.5	0.4	0
24	1639.17	51.4	0.3	0	1640.45	57.2	0.2	0	1641.58	62.6	0.1	0	1642.95	104.1	0.3	0
25	1639.21	51.5	+	0	1640.49	57.4	0.1	0	1641.65	62.9	0.1	0	1642.05	104.7	0.4	0
26	1639.25	51.7	0.2	0	1640.52	57.5	+	0	1641.68	63.0	0.1	0	1642.14	105.4	0.3	0
27	1639.28	51.9	0.2	0	1640.56	57.7	0.1	0	1641.70	63.2	0.2	0	1642.24	106.0	0.3	0
28	1639.30	52.0	0.1	0	1640.59	57.9	0.2	0	1641.74	63.4	0.1	0	1642.31	106.5	0.3	0
29	1639.31	52.0	0.1	0	1640.63	58.1	0.1	0	1641.78	63.5	0.1	0	1642.41	107.2	0.3	0
30	1639.37	52.3	0.2	0	1640.67	58.2	0.1	0	1641.82	63.8	0.3	0	1642.50	107.8	0.3	0
31	1639.43	52.5	0.1	0					1642.01	64.7	0.3	0	1642.56	108.2	0.3	0
TOTAL			3.8	0			3.7	0			3.9	0			3.9	0
Infl. Ac. Ft.	7.5				7.3				7.7				44.4			
Outfl. Ac. Ft.	0 + (2.1)				0 + (1.5)				0 + (1.1)				0 + (0.9)			
Max. Mean Daily Inf.	0.3				0.3				0.3				0.3			
Min. Mean Daily Inf.	+				+				+				+			
Storage Change	5.4				5.7				6.5				43.5			

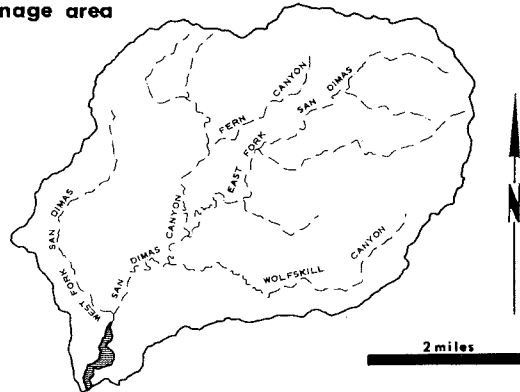
DATE	FEBRUARY				MARCH				APRIL				MAY			
	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow
1	1649.65	108.8	0.3	0	1651.25	120.3	0.2	0	1653.04	134.0	0.3	0	1653.52	137.9	0.2	0
2	1649.72	109.3	0.3	0	1651.30	120.7	0.2	0	1653.09	134.4	0.2	0	1653.53	137.9	0.1	0
3	1649.77	109.6	0.1	0	1651.35	121.0	0.3	0	1653.13	134.7	0.1	0	1653.53	137.9	0.1	0
4	1649.82	110.0	0.2	0	1651.37	121.2	0.2	0	1653.17	135.0	0.3	0	1653.49	137.6	+	0
5	1649.86	110.4	0.3	0	1651.40	121.4	0.1	0	1653.22	135.5	0.2	0	1653.45	137.3	0.3	0
6	1649.98	111.1	0.4	0	1651.44	121.7	0.2	0	1653.26	135.8	0.3	0	1653.41	137.0	0.4	0
7	1650.07	111.7	0.4	0	1651.48	122.0	0.3	0	1653.30	136.1	0.2	0	1653.39	136.8	0.5	0
8	1650.13	112.1	0.2	0	1651.51	122.2	0.2	0	1653.34	136.4	0.3	0	1653.73	139.5	1.9	0
9	1650.20	112.6	0.3	0	1651.55	122.5	0.1	0	1653.38	136.7	0.2	0	1653.37	139.5	3.1	0
10	1650.26	113.1	0.3	0	1651.59	122.8	0.3	0	1653.42	137.1	0.2	0	1653.42	142.4	1.9	0
11	1650.31	113.4	0.2	0	1651.62	123.1	0.2	0	1653.46	137.4	0.3	0	1654.81	148.5	0.7	0
12	1650.34	113.6	0.1	0	1651.63	123.1	0.1	0	1653.46	137.3	0.3	0	1654.95	149.7	0.7	0
13	1650.40	114.1	0.4	0	1651.66	123.4	0.3	0	1653.49	137.6	0.8	0	1655.03	150.4	0.6	0
14	1650.44	114.5	0.3	0	1651.70	123.7	0.1	0	1653.41	137.0	0.1	0	1655.11	151.1	0.4	0
15	1650.50	114.8	0.2	0	1651.73	123.9	0.2	0	1653.39	136.8	0.1	0	1655.19	151.8	0.5	0
16	1650.55	115.2	0.3	0	1651.86	124.9	0.5	0	1653.37	136.7	0.4	0	1655.27	152.4	0.4	0
17	1650.59	115.4	0.1	0	1651.93	125.4	0.3	0	1653.35	136.5	0.8	0	1655.35	153.1	0.5	0
18	1650.62	115.7	0.3	0	1651.98	125.8	0.3	0	1653.34	136.4	0.5	0	1655.40	153.6	0.5	0
19	1650.65	115.9	0.1	0	1652.00	125.9	+	0	1653.35	136.5	0.1	0	1655.45	154.0	0.4	0
20	1650.71	116.3	0.3	0	1652.03	126.1	0.1	0	1653.37	136.7	0.2	0	1655.50	154.5	0.4	0
21	1650.77	116.7	0.2	0	1652.08	126.5	0.2	0	1653.39	136.8	0.2	0	1655.52	154.6	0.2	0
22	1650.81	117.0	0.1	0	1652.12	126.8	0.3	0	1653.41	137.0	0.2	0	1655.55	154.9	0.3	0
23	1650.87	117.6	0.4	0	1652.16	127.1	0.1	0	1653.42	137.1	0.1	0	1655.60	155.3	0.4	0
24	1651.04	118.7	0.1	0	1652.23	128.5	0.8	0	1653.43	137.1	0.1	0	1655.66	156.3	0.6	0
25	1651.11	119.2	0.2	0	1652.33	130.0	0.9	0	1653.44	137.2	0.2	0	1655.77	156.8	0.4	0
26	1651.13	119.4	0.2	0	1652.63	130.8	0.4	0	1653.46	137.4	0.2	0	1655.81	157.1	0.2	0
27	1651.15	119.5	0.1	0	1652.71	131.4	0.3	0	1653.47	137.5	0.1	0	1655.85	157.5	0.4	0
28	1651.20	119.9	0.3	0	1652.78	132.0	0.3	0	1653.48	137.5	+	0	1655.99	157.8	0.4	0
29					1652.94	132.5	0.4	0	1653.49	137.6	0.2	0	1655.92	158.1	0.2	0
30					1652.90	132.9	0.2	0	1653.51	137.8	0.2	0	1655.95	158.4	0.4	0
31					1652.97	133.5	0.4	0					1655.98	158.6	0.3	0
TOTAL			7.1	0			8.5	0			7.8	3.6			12.0	5.2
Infl. Ac. Ft.	14.0				16.8				15.4				34.5			
Outfl. Ac. Ft.	0 + (2.3)				0 + (2.9)				0 + (3.9)				10.3 + (3.3)			
Max. Mean Daily Inf.	0.6				0.9				0.8				0.9			
Min. Mean Daily Inf.	0.1				0				0				0			
Storage Change	11.7				13.4				4.3				20.8			

DATE	JUNE				JULY				AUGUST				SEPTEMBER			
	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow
1	1656.00	158.0	0.3	0	1656.12	159.9	0.2	0	1655.95	158.4	+	0	1655.97	158.5	+	0
2	1656.02	159.0	0.2	0	1656.12	159.9	0.1	0	1655.94	158.3	0.1	0	1655.96	158.5	0.1	0
3	1656.04	159.2	0.3	0	1656.12	159.9	0.1	0	1655.94	158.3	0.1	0	1655.95	158.4	0.1	0
4	1656.06	159.3	0.2	0	1656.12	159.9	0.1	0	1655.93	158.2	+	0	1655.94	158.3	+	0
5	1656.07	159.4	0.2	0	1656.12	159.9	0.1	0	1655.93	158.2	0.1	0	1655.93	158.2	0.1	0
6	1656.09	159.6	0.3	0	1656.12	159.9	0.1	0	1655.91	158.0	+	0	1655.91	158.0	+	0
7	1656.11	159.8	0.3	0	1656.12	159.9	0.1	0	1655.90	157.9	0.1	0	1655.90	157.9	0.1	0
8	1656.13	160.0	0.2	0	1656.12	159.9	0.1	0	1655.89	157.8	+	0	1655.89	157.8	0.1	0
9	1656.14	160.0	0.2	0	1656.12	159.9	0.1									

# SAN DIMAS DAM AND RESERVOIR

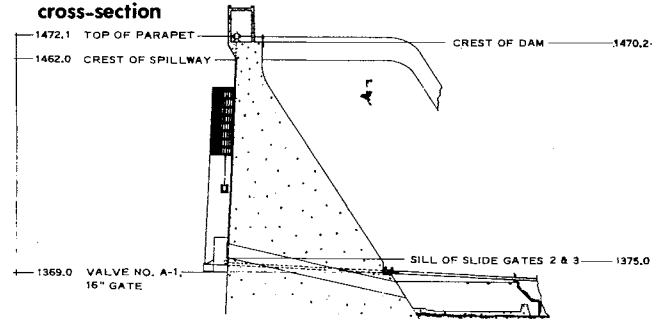


## drainage area



PURPOSE - Flood Control and Conservation  
 DATE CONSTRUCTED - Started November 1920 - Completed September 1922  
 LOCATION - 3.0 miles northeast of San Dimas  
 DRAINAGE AREA - 16.2 square miles  
 CAPACITY - 1,515 acre-feet  
 SPILLWAY ELEVATION - 1,462.0 feet

## cross-section



### SAN DIMAS DAM

#### YEARLY RESERVOIR OPERATION SUMMARY

SEASON	ANNUAL AF	INFLW MAX-DAY CFS	MIN-DAY CFS	CUTFLOW ANNUAL AF	PEAK INFLW	
					MO	DAY
1928-29	N=0	N=0	0	N=0		N=0
1929-30	551	28	0	573		N=0
1930-31	565	23	0	466		N=C
1931-32	2502	162	0	2496		N=C
1932-33	652	50	0	648		N=0
1933-34	1351	229	0	1357	1	1 422
1934-35	1753	60	0	1682	4	8 145
1935-36	1094	35	0	1136	2	11 155
1936-37	6316	154	0	6126	2	6 296
1937-38	12492	1600	0.4	12494	3	2 4920
1938-39	2165	43	0.2	2024	1	5 80
1939-40	1532	60	0	1600	1	8 302
1940-41	9645	131	0.1	9240	3	4 235
1941-42	1603	16	0.2	1855	12	10 29
1942-43	9271	573	0.5	9095	1	23 1700
1943-44	5348	398	0.1	5423	2	22 785
1944-45	3747	97	0.9	3811	11	11 375
1945-46	2560	149	0.1	2368	12	23 519
1946-47	2705	100	0.1	2982	11	20 340
1947-48	720	10	0	706	2	5 15
1948-49	728	11	0.1	694	1	20 19
1949-50	734	25	0.1	750	12	18 65
1950-51	300	5.3	0.1	301	4	29 16
1951-52	4864	208	0.1	4593	1	16 453
1952-53	822	9.8	0.1	1092	12	1 25
1953-54	1514	97	0.1	1501	1	25 327
1954-55	561	11	0.1	526	1	18 27
1955-56	736	98	0.1	767	1	26 362
1956-57	452	12	0.1	433	1	13 41
1957-58	6786	299	0	6503	4	3 753
1958-59	931	37	0.1	1239	2	16 189
1959-60	408	6.7	0.1	455	2	8 11
1960-61	468	31	0.1	250	11	5 397
1961-62	3206	224	*	2664	11	20 2520
1962-63	1001	81	0.1	1108	2	9 440
1963-64	680	20	0.1	711	1	22 121
1964-65	1118	53	0	1175	4	9 232
1965-66	6494	305	0.2	6326	12	29 1010
1966-67	12352	674	0	11598	12	6 1720
1967-68	3148	80	0.1	3058	11	19 414
1968-69	28645	1710	0.7	28808	1	25 3620
1969-70	4314	71	0.7	4736	3	1 114
1970-71	2465	70	0.5	2125	11	29 127
1971-72	1040	33	0.2	1217	12	24 77
1972-73	4252	346	0.7	4000	2	11 685
1973-74	2447	121	0.3	2389	1	7 185
1974-75	1487	28	0.1	1566	3	6 67
1975-76	1002	52	0.1	926	09	10 443
1976-77	1094	41	0	1146	1	3 260

N=0 = NOT DETERMINED

\* = LESS THAN 0.05 ACRE FEET OR LESS THAN 0.05 CFS, BUT GREATER THAN 0.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

San Dimas Dam

DRAINAGE AREA 16.2 SQ. MI.

DAM OPERATION RECORD

CAPACITY OF RESERVOIR 1214.9 AC. FT.

1975-76

at SPILLWAY ELEVATION 1462.0 FT. as of November, 1970

GAUGE HEIGHTS AND STORAGE AREAS AS OF MIDNIGHT ON DAY SHOWN.

Day	OCTOBER				NOVEMBER				DECEMBER				JANUARY				Day
	Gauge Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gauge Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gauge Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gauge Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	
1	1408.8	143.3	0.2	0.8	1407.2	124.5	0.7	0.6	1408.1	136.5	0.9	0.3	1410.6	166.5	0.6	0.3	
2	1408.7	139.9	0.2	0.8	1407.2	124.5	0.6	0.6	1408.1	136.5	0.8	0.3	1410.5	167.1	0.8	0.3	
3	1408.5	140.3	0.1	0.8	1407.2	124.4	0.6	0.6	1408.2	136.4	0.9	0.3	1410.6	168.2	0.8	0.3	
4	1408.4	138.8	0.2	0.8	1407.2	124.2	0.6	0.6	1408.3	137.4	0.8	0.3	1410.6	169.1	0.8	0.3	
5	1408.3	137.6	0.4	0.8	1407.2	124.0	0.5	0.6	1408.4	138.5	0.9	0.3	1410.7	170.0	0.8	0.3	
6	1408.2	136.1	0.1	0.8	1407.2	124.1	0.7	0.6	1408.5	139.6	0.8	0.3	1410.8	170.8	0.8	0.3	
7	1408.1	134.7	0.5	0.8	1407.2	124.1	0.6	0.6	1408.5	140.4	0.7	0.5	1410.8	171.6	0.7	0.3	
8	1408.0	133.6	0.3	0.8	1407.2	124.1	0.6	0.6	1408.6	141.3	0.7	0.2	1410.9	172.4	0.8	0.3	
9	1407.9	132.4	0.3	0.8	1407.2	124.2	0.6	0.6	1408.7	142.1	0.6	0.2	1410.9	173.2	0.7	0.3	
10	1407.8	131.3	0.1	0.6	1407.2	124.4	0.6	0.5	1408.8	143.0	0.7	0.2	1411.0	174.1	0.8	0.3	
11	1407.8	131.1	0.2	0.1	1407.3	124.6	0.7	0.5	1408.8	143.8	0.6	0.2	1411.0	174.8	0.7	0.3	
12	1407.8	131.1	0.2	0.2	1407.3	124.9	0.7	0.5	1408.9	144.6	0.6	0.2	1411.1	175.6	0.7	0.3	
13	1407.8	131.1	0.3	0.2	1407.3	125.1	0.5	0.5	1409.2	148.8	1.4	0.2	1411.1	176.5	0.8	0.3	
14	1407.8	131.2	0.3	0.2	1407.3	125.2	0.6	0.5	1409.3	149.9	0.9	0.3	1411.2	177.2	0.7	0.3	
15	1407.8	131.3	0.3	0.2	1407.3	125.3	0.6	0.5	1409.4	151.1	1.0	0.3	1411.2	178.0	0.7	0.3	
16	1407.8	131.0	0.2	0.3	1407.3	125.4	0.6	0.5	1409.4	152.2	0.9	0.3	1411.3	178.6	0.7	0.3	
17	1407.7	129.7	0.2	0.2	1407.3	125.7	0.5	0.4	1409.5	153.2	0.8	0.3	1411.3	179.2	0.7	0.3	
18	1407.6	128.6	0.9	1.4	1407.4	126.0	0.6	0.4	1409.6	154.1	0.8	0.3	1411.3	179.8	0.7	0.3	
19	1407.5	128.0	0.9	1.2	1407.4	126.4	0.6	0.4	1409.6	155.1	0.8	0.3	1411.4	180.3	0.6	0.3	
20	1407.5	127.4	0.7	1.0	1407.4	126.8	0.7	0.4	1409.7	156.1	0.8	0.3	1411.4	180.8	0.6	0.3	
21	1407.5	127.1	0.8	0.9	1407.5	127.3	0.7	0.4	1409.8	157.0	0.8	0.3	1411.4	181.2	0.6	0.3	
22	1407.4	126.5	0.5	0.7	1407.5	127.7	0.6	0.4	1409.9	158.1	0.9	0.3	1411.5	181.7	0.6	0.3	
23	1407.4	126.0	0.4	0.6	1407.5	128.1	0.7	0.4	1409.9	159.1	0.8	0.3	1411.5	182.1	0.6	0.3	
24	1407.3	125.7	0.5	0.6	1407.6	128.5	0.6	0.4	1410.0	159.9	0.8	0.3	1411.5	182.9	0.7	0.3	
25	1407.3	125.1	0.4	0.6	1407.6	129.0	0.7	0.4	1410.1	160.8	0.8	0.3	1411.6	183.5	0.7	0.3	
26	1407.3	124.6	0.4	0.6	1407.6	129.2	0.6	0.4	1410.1	161.8	0.8	0.3	1411.6	184.1	0.7	0.3	
27	1407.2	124.6	0.7	0.6	1407.7	130.1	0.9	0.4	1410.2	162.6	0.9	0.3	1411.7	184.6	0.6	0.3	
28	1407.2	124.2	0.6	0.6	1407.8	131.4	1.1	0.4	1410.3	163.7	0.8	0.3	1411.7	185.2	0.7	0.3	
29	1407.2	123.9	0.5	0.6	1407.9	132.3	0.9	0.4	1410.3	164.4	0.7	0.3	1411.7	185.8	0.7	0.3	
30	1407.2	123.9	0.7	0.6	1408.0	133.3	1.0	0.4	1410.4	165.3	0.8	0.3	1411.8	186.3	0.6	0.3	
31	1407.2	124.4	0.9	0.6					1410.4	166.0	0.7	0.3	1411.8	186.9	0.7	0.3	
TOTAL		13.0	21.1				20.4	14.4			26.2	8.6			21.6	9.3	
Inf. Ac. Ft.		25.9					40.4				52.0				62.9		
Chaf. Ac. Ft.		41.9 + (4.1)					28.6 + (2.9)				17.1 + (2.2)				18.4 + (3.6)		
Max. Mean Daily Inf.		0.9					1.1				1.6				0.8		
Min. Mean Daily Inf.		0.1					0.5				0.6				0.6		
Storage Change		-20.0					9.0				32.7				20.9		

Day	FEBRUARY				MARCH				APRIL				MAY				Day
	Gauge Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gauge Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gauge Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gauge Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	
1	1411.8	187.5	0.7	0.3	1427.9	497.0	14.9	1.0	1421.5	359.9	1.3	0.4	1424.5	423.0	1.0	1.0	
2	1411.8	187.5	0.7	0.6	1428.8	517.2	11.1	0.9	1421.6	361.5	1.3	0.4	1424.6	423.8	1.2	0.6	
3	1411.8	187.3	0.6	0.6	1429.7	538.2	11.4	0.8	1421.7	364.3	1.3	0.4	1424.7	425.3	1.4	0.6	
4	1412.0	193.3	1.7	0.6	1430.2	548.9	6.3	0.8	1421.8	367.8	1.5	0.4	1424.8	426.4	1.1	0.5	
5	1412.2	193.3	2.5	0.6	1430.0	544.0	6.3	0.8	1422.1	372.0	1.9	0.4	1424.8	428.3	1.6	0.5	
6	1413.0	206.1	7.3	0.8	1429.5	531.3	2.5	0.3	1422.2	374.2	1.8	0.6	1424.9	430.4	1.7	0.5	
7	1413.8	217.9	6.7	0.8	1428.8	517.2	2.3	0.3	1422.3	376.5	1.8	0.6	1425.0	433.0	1.8	0.5	
8	1415.4	246.3	15.1	0.8	1428.2	503.3	2.4	0.3	1422.4	378.6	1.7	0.6	1425.1	434.3	1.8	0.5	
9	1420.0	346.7	51.5	0.9	1427.6	489.3	2.3	0.3	1422.5	380.4	1.6	0.6	1425.1	434.3	1.9	0.5	
10	1421.9	368.5	16.6	0.6	1426.9	475.4	2.3	0.3	1422.6	381.4	1.4	0.8	1425.2	436.3	1.1	0.5	
11	1422.4	377.3	4.9	0.4	1426.3	461.3	2.2	0.3	1422.6	382.4	1.5	0.9	1425.2	436.9	1.0	0.5	
12	1422.7	383.2	3.6	0.4	1425.6	446.8	2.0	0.3	1422.7	384.9	2.2	0.9	1425.2	436.5	0.8	0.8	
13	1422.9	388.4	2.9	0.4	1425.0	432.2	1.5	0.8	1422.7	390.9	4.0	0.9	1425.1	436.8	0.3	1.2	
14	1423.1	393.0	2.7	0.4	1424.3	417.6	1.5	0.8	1422.8	393.8	1.8	0.8	1425.0	437.2	0.5	1.0	
15	1423.3	396.7	2.3	0.4	1423.6	403.4	1.7	0.7	1422.9	400.0	4.2	0.7	1425.0	437.7	0.6	1.2	
16	1423.5	400.1	2.0	0.3	1422.9	389.2	1.2	0.2	1423.0	407.0	2.6	0.6	1424.9	430.2	0.6	1.2	
17	1423.6	403.2	1.9	0.3	1422.4	377.1	1.2	0.2	1424.0	410.6	1.9	0.6	1424.8	428.9	0.8	1.2	
18	1423.8	406.0	1.7	0.3	1421.7	363.9	1.2	0.2	1424.1	413.8	1.7	0.7	1424.8	428.9	0.6	1.2	
19	1423.9	408.9	1.8	0.3	1421.1	351.5	1.0	0.2	1424.2	417.0	1.7	0.7	1424.7	427.7	0.7	1.2	
20	1424.0	411.4	1.6	0.3	1420.7	346.4	1.6	0.2	1424.3	419.9	0.8	0.7	1424.7	425.5	0.7	0.6	
21	1424.1	413.5	1.5	0.3	1420.4	338.7	1.7	0.4	1424.4	419.3	0.7	0.7	1424.7	425.7	0.7	0.4	
22	1424.2	415.5	1.4	0.3	1420.5	339.1	2.1	0.3	1424.4	420.4	1.1	0.6	1424.6	424.9	0.6	0.9	
23	1424.3	417.6	1.5	0.3	1420.6	341.3	1.6	0.4	1424.5	421.5	1.6	1.0	1424.6	424.2	0.7	0.9	
24	1424.4	419.7	1.6	0.4	1420.7	343.6	1.7	0.4	1424.5	422.3	1.5	1.0	1424.6	423.8	0.8	0.9	
25	1424.5	422.1	1.7	0.4	1420.8	346.2	1.7	0.4	1424.6	423.2	1.5	1.0	1424.6	423.8	1.0	0.9	
26	1424.6	424.2	1.5	0.4	1420.9	348.1	1.5	0.4	1424.6	423.6	1.3	1.0	1424.6	423.6	0.9	0.9	
27	1424.7	426.0	1.4	0.4	1421.0	350.3	1.7	0.4	1424.6	423.6	1.1	1.0	1424.6	423.2	0.8	0.9	
28	1424.8	427.7	1.6	0.6	1421.1	352.5	1.6	0.4	1424.6	423.6	1.1	1.0	1424.6	423.2	1.1	0.9	
29	1424.9	429.8	1.7	0.6	1421.2	354.7	1.6	0.4	1424.6	423.6	1.1	1.0	1424.6	423.6	0.8	0.9	

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

DAM OPERATION RECORD

SAN DIMAS DAM

1976-77

DRAINAGE AREA 16.2 SQ. MI. RESERVOIR CAPACITY 1455 A.F. AT SPILLWAY ELEVATION 1462.0 FT. AS OF JULY, 1977

GAUGE HEIGHTS AND STORAGES ARE AS OF MIDNIGHT ON DAY SHOWN

Table with columns for months (OCTOBER, NOVEMBER, DECEMBER, JANUARY) and rows for gauge heights and storage. Includes sub-totals and summary statistics like Max. Mean Daily Inf and Min. Mean Daily Inf.

Table with columns for months (FEBRUARY, MARCH, APRIL, MAY) and rows for gauge heights and storage. Includes sub-totals and summary statistics like Max. Mean Daily Inf and Min. Mean Daily Inf.

Table with columns for months (JUNE, JULY, AUGUST, SEPTEMBER) and rows for gauge heights and storage. Includes sub-totals and summary statistics like Max. Mean Daily Inf and Min. Mean Daily Inf.

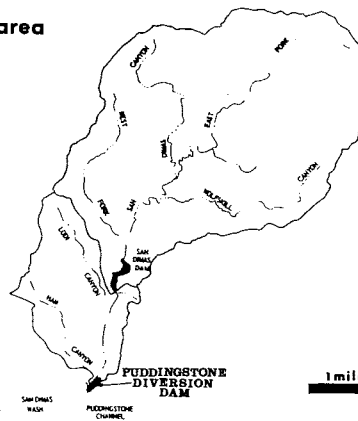
Max. W.S. Elev. 1431.33 feet on 03-27-77 Storage 516.6 Acft. Min. W.S. Elev. 1279 feet on VARIOUS Storage 0 Acft. Max. Peak Inf. 260 CFS from 0223 on 01-03-77 to 0323 on 01-03-77 Min. Peak Cal. 56 CFS from 1045 on 05-10-77 to on

REMARKS: ( ) INDICATES EVAPORATION AND OTHER LOSSES

# PUDDINGSTONE DIVERSION DAM AND RESERVOIR



## drainage area



**PURPOSE -**  
Flood Control and Diversion of flow and Conservation

**DATE CONSTRUCTED -**  
Started September 1927 - Completed July 1928

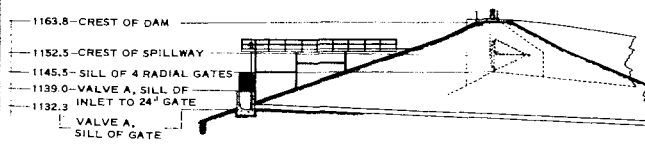
**LOCATION -** 2.0 miles northeast of San Dimas

**DRAINAGE AREA -** 3.7 square miles (uncontrolled)  
16.2 square miles (controlled)  
Total 19.9 square miles

**CAPACITY -** 148 acre-feet

**SPILLWAY ELEVATION -** 1,152.0 feet

## cross-section



### PUDDINGSTONE DIVERSION DAM

#### YEARLY RESERVOIR OPERATION SUMMARY

SEASON	ANNUAL AF	INFLOW MAX-DAY CFS	MIN-DAY CFS	CUTFLOW ANNUAL AF	PEAK INFLOW MC DAY	CFS
1935-36	304	48	0	304	4	10 85
1936-37	5019	104	C	4646		N.D.
1937-38	11697	1640	C	11506	3	2 5760
1938-39	1288	28	0	1293	1	10 23
1939-40	350	26	C	155	1	8 33
1940-41	7213	133	0	6776	3	14 155
1941-42	341	13	0	203	12	12 24
1942-43	8593	970	C	7939	1	23 2040
1943-44	3406	357	C	3010	2	22 724
1944-45	1719	64	0	1294	2	2 88
1945-46	970	159	C	773	12	23 234
1946-47	1400	55	C	1109	12	26 58
1947-48	0	C	0	0		0
1948-49	C	C	0	0		0
1949-50	0	C	0	0		0
1950-51	C	0	0	0		0
1951-52	3366	158	0	2910	1	16 201
1952-53	0	C	0	0		0
1953-54	628	57	0	429	2	14 82
1954-55	C	C	0	0		0
1955-56	196	34	0	128	1	26 93
1956-57	C	0	0	0		0
1957-58	5938	227	0	5172	4	3 284
1958-59	89	14	0	49	2	18 19
1959-60	C	0	C	0		0
1960-61	146	11	0	64	11	26 137
1961-62	3277	152	C	3106	11	20 2110
1962-63	827	95	0	515	2	9 640
1963-64	112	19	C	67	1	22 55
1964-65	873	69	0	538	4	9 239
1965-66	6471	320	C	5864	11	22 864
1966-67	13656	558	C	12140	12	6 2230
1967-68	2744	62	0	2180	11	30 125
1968-69	35110	2610	0	34200	1	25 5600
1969-70	4005	27	0	2788	3	4 62
1970-71	2181	35	C	1524	12	21 61
1971-72	764	15	0	488	12	24 56
1972-73	3746	163	0	3321	2	11 219
1973-74	1660	75	0	1371	1	7 110
1974-75	969	15	0	786	3	6 46
1975-76	423	9.1	C	333	03	01 16
1976-77	844	29	C	578	1	3 57

N.D. = NOT DETERMINED

\* = LESS THAN 0.05 ACRE FEET OR LESS THAN 0.05 CFS, BUT GREATER THAN 0.

A = ANNUAL ACRE-FEET INCLUDES IMPORTED WATER



LOS ANGELES COUNTY FLOOD CONTROL DISTRICT  
DAM OPERATION RECORD

Puddingstone Diversion Dam  
1975-76

DRAINAGE AREA 3.67 SQ. MI.  
CAPACITY OF RESERVOIR 164.6 AC. FT.  
SPILLWAY ELEVATION 1152.5 FT.  
as of January, 1976

GAGE HEIGHTS AND STORAGES  
ARR. AS OF MIDNIGHT ON DAY SHOWN.

Day	OCTOBER				NOVEMBER				DECEMBER				JANUARY				ft
	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	
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			0	0			0	0	31
TOTAL			0	0			0	0			0	0			0	0	
Inf. Ac. Ft.			0	0			0	0			0	0			0	0	
Outf. Ac. Ft.			0	0			0	0			0	0			0	0	
Max. Mean Daily Inf.			0	0			0	0			0	0			0	0	
Min. Mean Daily Inf.			0	0			0	0			0	0			0	0	
Storage Change			0	0			0	0			0	0			0	0	

Day	FEBRUARY				MARCH				APRIL				MAY				ft
	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	
1	1132.0	0	0	0	1138.0	14.4	6.4	0	1134.6	1.7	0	0	1133.9	0.8	0	0	1
2	1132.0	0	0	0	1138.5	17.3	2.0	0	1134.4	1.5	0	0	1133.8	0.7	0	0	2
3	1132.0	0	0	0	1138.8	18.9	1.4	0	1134.4	1.4	0	0	1133.6	0.6	0	0	3
4	1132.0	0	0	0	1138.8	18.9	0.6	0	1134.5	1.6	0.2	0	1133.5	0.6	0	0	4
5	1132.0	0	0	0	1140.0	27.2	5.0	0	1134.4	1.5	0.1	0	1133.5	0.5	0	0	5
6	1134.4	1.5	0.9	0	1142.0	62.9	9.1	0	1134.4	1.5	0.1	0	1133.4	0.5	0	0	6
7	1134.7	1.9	0.3	0	1143.7	56.9	8.7	0	1134.4	1.5	0.1	0	1133.3	0.4	0	0	7
8	1136.0	5.0	1.8	0	1143.6	56.3	7.9	6.6	1134.4	1.4	0	0	1133.2	0.4	0	0	8
9	1137.6	12.1	4.0	0	1142.8	48.9	7.8	10.2	1134.2	1.3	0	0	1133.1	0.3	0	0	9
10	1137.6	11.9	0	0	1142.8	42.9	7.8	9.7	1134.2	1.2	0	0	1133.0	0.2	0	0	10
11	1137.4	11.2	0.1	0	1141.7	40.3	7.6	7.8	1134.2	1.1	0	0	1133.0	0.2	0	0	11
12	1137.3	10.5	0	0	1141.8	41.2	7.3	5.8	1134.3	1.2	0.2	0	1132.1	0	0	0	12
13	1137.2	9.8	0	0	1141.8	41.3	7.0	5.8	1134.7	1.9	0.5	0	1132.0	0	0	0	13
14	1137.0	9.1	0	0	1141.8	41.2	6.8	5.8	1134.6	1.8	0.1	0	1132.0	0	0	0	14
15	1136.9	8.4	0	0	1141.8	40.8	6.7	5.8	1134.9	2.2	0.4	0	1132.0	0	0	0	15
16	1136.8	7.9	0	0	1141.6	39.9	6.4	5.8	1134.8	2.1	0.1	0	1132.0	0	0	0	16
17	1136.6	7.4	0	0	1141.3	37.2	5.2	5.6	1134.7	2.0	0.1	0	1132.0	0	0	0	17
18	1136.5	6.8	0	0	1141.0	35.4	5.7	5.6	1134.6	1.8	0	0	1132.0	0	0	0	18
19	1136.3	6.3	0	0	1140.8	33.7	5.7	5.6	1134.5	1.7	0	0	1132.0	0	0	0	19
20	1136.2	5.7	0	0	1140.0	27.7	3.3	3.5	1134.4	1.5	0	0	1132.0	0	0	0	20
21	1136.0	5.1	0	0	1139.4	23.0	2.7	4.4	1134.3	1.4	0	0	1132.0	0	0	0	21
22	1135.9	4.6	0	0	1138.4	16.4	0.7	3.5	1134.2	1.2	0	0	1132.0	0	0	0	22
23	1135.7	4.3	0	0	1136.5	7.1	0	3.8	1134.1	1.0	0	0	1132.0	0	0	0	23
24	1135.6	4.0	0	0	1135.5	3.8	0	1.5	1134.0	0.9	0	0	1132.0	0	0	0	24
25	1135.5	3.7	0	0	1135.4	3.5	0	0	1133.9	0.8	0	0	1132.0	0	0	0	25
26	1135.3	3.3	0	0	1135.3	3.2	0	0	1133.8	0.7	0	0	1132.0	0	0	0	26
27	1135.3	3.1	0.1	0	1135.2	2.8	0	0	1133.7	0.7	0	0	1132.0	0	0	0	27
28	1135.2	2.8	0	0	1135.0	2.5	0	0	1133.7	0.7	0	0	1132.0	0	0	0	28
29	1135.1	2.6	0	0	1134.9	2.3	0	0	1133.8	0.7	0	0	1132.0	0	0	0	29
30					1134.8	2.1	0	0	1134.0	0.8	0.1	0	1132.0	0	0	0	30
31					1134.7	1.9	0	0					1132.0	0	0	0	31
TOTAL			7.5	0			121.6	98.8			2.0	0			0	0	
Inf. Ac. Ft.			15.0	0			241.2	0			6.0	0			0	0	
Outf. Ac. Ft.			0 + (12.4)	0			196.0 + (65.9)	0			0 + (5.1)	0			0 + (0.8)	0	
Max. Mean Daily Inf.			4.0	0			9.1	0			0.5	0			0	0	
Min. Mean Daily Inf.			0	0			0	0			0	0			0	0	
Storage Change			2.6	0			-0.7	0			-1.1	0			-0.8	0	

Day	JUNE				JULY				AUGUST				SEPTEMBER				ft
	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	
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	</				

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT  
DAM OPERATION RECORD

PIDDINGSTONE DIVERSION DAM  
1976-77

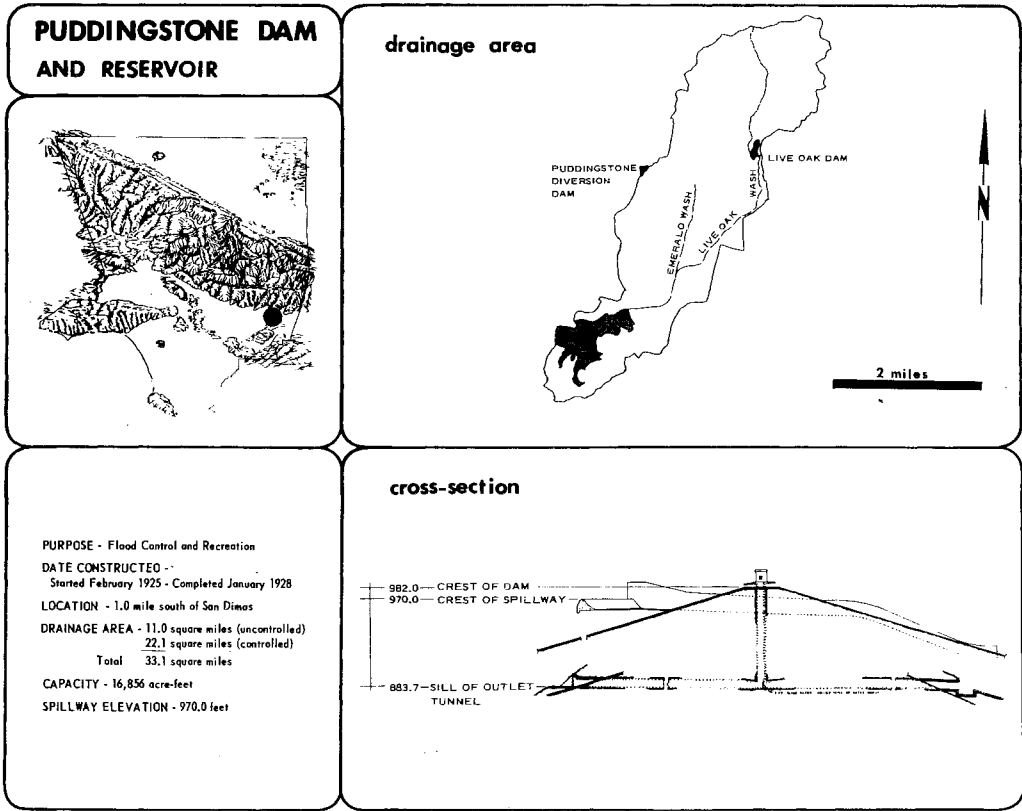
DRAINAGE AREA 3.67 SQ. MI.  
RESERVOIR CAPACITY 167.8 A.F.  
AT SPILLWAY ELEVATION 1152.5 FT.  
AS OF NOVEMBER, 1976

GAGE HEIGHTS AND STORAGE  
ARE AS OF MIDNIGHT UNLESS SHOWN

Date	OCTOBER				NOVEMBER				DECEMBER				JANUARY			
	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow
1			0	0	1131.00	0	0	0	1131.00	0	0	0	1135.53	3.3	0.2	0
2			0	0	1131.00	0	0	0	1131.00	0	0	0	1136.06	4.6	0.9	0
3			0	0	1131.00	0	0	0	1131.00	0	0	0	1138.60	15.8	6.1	0
4			0	0	1131.00	0	0	0	1131.00	0	0	0	1138.47	15.1	0.1	0
5			0	0	1131.00	0	0	0	1131.00	0	0	0	1139.40	20.8	3.6	0
6			0	0	1131.00	0	0	0	1131.00	0	0	0	1140.49	28.6	4.9	0
7			0	0	1131.00	0	0	0	1131.00	0	0	0	1141.23	34.3	3.8	0
8			0	0	1131.00	0	0	0	1131.00	0	0	0	1141.10	33.3	0.5	0
9			0	0	1131.00	0	0	0	1131.00	0	0	0	1140.70	31.7	0.1	0
10			0	0	1131.00	0	0	0	1131.00	0	0	0	1140.69	30.1	0.1	0
11		N	0	0	1131.00	0	0	0	1131.00	0	0	0	1140.48	28.5	0.1	0
12		O	0	0	1131.00	0	0	0	1131.00	0	0	0	1140.28	27.0	0	0
13		S	0	0	1131.00	0	0	0	1131.00	0	0	0	1140.08	25.5	0.1	0
14		O	0	0	1131.00	0	0	0	1131.00	0	0	0	1139.88	24.1	0.1	0
15		T	0	0	1131.00	0	0	0	1131.00	0	0	0	1139.70	22.9	0	0
16		O	0	0	1131.00	0	0	0	1131.00	0	0	0	1139.50	21.5	0	0
17		R	0	0	1131.00	0	0	0	1131.00	0	0	0	1139.33	20.3	0	0
18		A	0	0	1131.00	0	0	0	1131.00	0	0	0	1139.15	19.1	0	0
19		C	0	0	1131.00	0	0	0	1131.00	0	0	0	1138.99	18.0	0	0
20		E	0	0	1131.00	0	0	0	1131.00	0	0	0	1141.69	37.9	11.1	0
21			0	0	1131.00	0	0	0	1131.00	0	0	0	1144.75	64.7	15.5	0
22			0	0	1131.00	0	0	0	1131.00	0	0	0	1145.33	70.6	5.0	0
23			0	0	1131.00	0	0	0	1131.00	0	0	0	1146.53	83.6	9.2	0
24			0	0	1131.00	0	0	0	1131.00	0	0	0	1147.35	93.1	11.7	0
25			0	0	1131.00	0	0	0	1131.00	0	0	0	1144.99	67.0	0	10.4
26			0	0	1131.00	0	0	0	1131.00	0	0	0	1142.53	44.6	0	9.0
27			0	0	1131.00	0	0	0	1131.00	0	0	0	1140.09	25.6	0	7.7
28			0	0	1131.00	0	0	0	1131.00	0	0	0	1137.87	11.8	0	4.8
29			0	0	1131.00	0	0	0	1131.00	0	0	0	1134.77	1.7	0	4.0
30			0	0	1133.79	0.7	0.5	0	1133.02	0	0	0	1133.02	0.2	0	0.8
31			0	0	1135.56	3.3	1.5	0	1132.10	0	0	0	1132.10	0.1	0	0
TOTAL			0	0			0.1	0.1				2.0				41.1
Inf Ac Ft			0	0			0.2	0.2				3.9				104.9
Cull Ac Ft			0	0			0	0				0				81.5 + (66.6)
Max Mean Daily Inf							0.1	0.1				1.5				15.5
Min Mean Daily Inf							0	0				0				0
Storage Change							0	0				3.3				3.2

Date	FEBRUARY				MARCH				APRIL				MAY			
	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow
1			0	0	1131.00	0	0	0	1143.64	54.2	12.2	11.8	1133.37	0.4	0.9	0.9
2			0	0	1131.00	0	0	0	1143.86	56.2	14.4	11.8	1133.35	0.4	0.9	0.9
3			0	0	1131.00	0	0	0	1143.64	54.2	12.1	11.5	1133.27	0.4	0.8	0.8
4			0	0	1131.00	0	0	0	1142.84	47.2	9.0	11.1	1133.25	0.4	1.0	1.0
5			0	0	1131.00	0	0	0	1141.99	40.2	8.1	10.6	1134.48	1.4	1.1	0.5
6			0	0	1131.00	0	0	0	1141.84	39.1	10.5	9.9	1135.30	2.7	0.9	0
7			0	0	1131.00	0	0	0	1142.94	48.0	16.5	10.6	1135.89	4.1	0.9	0
8			0	0	1131.00	0	0	0	1143.73	55.0	16.4	11.3	1140.54	29.0	13.3	0
9			0	0	1131.00	0	0	0	1144.22	59.5	15.6	11.5	1146.56	83.9	28.6	0
10			0	0	1131.00	0	0	0	1144.51	62.3	15.0	11.8	1147.66	96.9	9.2	0
11		N	0	0	1131.00	0	0	0	1144.56	62.3	13.8	12.0	1147.94	100.3	4.9	0
12		O	0	0	1131.00	0	0	0	1144.24	59.7	13.3	12.8	1148.07	101.9	4.0	0
13		S	0	0	1131.00	0	0	0	1143.91	56.6	11.6	11.5	1147.38	93.5	2.9	4.3
14		O	0	0	1131.00	0	0	0	1143.29	51.1	10.2	11.5	1147.39	93.6	3.0	0
15		T	0	0	1131.00	0	0	0	1141.02	32.7	2.4	10.6	1147.37	93.4	2.8	0
16		O	0	0	1131.00	0	0	0	1139.56	15.6	0	7.5	1147.33	92.9	2.6	0
17		R	0	0	1131.00	0	0	0	1135.91	4.2	0.1	1.9	1147.24	91.8	2.4	0
18		A	0	0	1131.00	0	0	0	1133.10	0.3	0	0.2	1147.11	90.2	2.0	0
19		C	0	0	1131.00	0	0	0	1133.32	0.4	0.1	0	1146.98	88.7	2.0	0
20		E	0	0	1131.00	0	0	0	1133.27	0.4	0.2	0.2	1146.82	86.9	1.8	0
21			0	0	1131.00	0	0	0	1133.02	0.2	1.0	1.0	1146.65	84.9	1.6	0
22			0	0	1131.00	0	0	0	1133.02	0.2	1.0	1.0	1146.48	83.0	1.5	0
23			0	0	1131.00	0	0	0	1133.02	0.2	1.0	1.0	1143.90	56.5	0.5	12.1
24			0	0	1131.00	0	0	0	1133.09	0.3	1.0	1.0	1139.85	23.9	1.0	16.8
25			0	0	1134.55	1.5	0.9	0	1133.23	0.2	1.0	1.0	1139.64	22.5	2.2	2.2
26			0	0	1134.49	1.4	0	0	1133.33	0.4	1.1	1.0	1139.96	24.6	1.9	0
27			0	0	1138.19	13.5	6.6	0	1133.37	0.4	1.0	1.0	1140.20	26.4	1.7	0
28			0	0	1141.24	34.4	11.5	0	1133.36	0.4	1.0	1.0	1140.58	29.3	1.5	0
29			0	0	1143.67	56.5	11.8	0	1133.36	0.4	0.9	0.9	1140.70	30.2	1.3	0
30			0	0	1143.91	56.6	10.2	7.5	1133.36	0.4	0.9	0.9	1140.76	30.0	1.2	0
31			0	0	1143.91	56.6	10.2	7.5	1133.36	0.4	0.9	0.9	1140.76	30.0	1.2	0
TOTAL			0	0			41.1	7.5				191.5			190.1	39.5
Inf Ac Ft			0	0			81.5					379.8				202.3
Cull Ac Ft			0	0			14.8 + (10.1)					377.0 + (58.9)				78.3 + (93.6)
Max Mean Daily Inf							0	0				16.5				28.4
Min Mean Daily Inf							0	0				0				0.5
Storage Change							56.6					56.2				30.3

Date	JUNE				JULY				AUGUST				SEPTEMBER			
	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-ft Storage	CFS Inflow	CFS Outflow
1	1140.81	31.1	1.1	0	1131.00	0	0	0	1131.00	0	0	0	1131.00	0	0	0
2	1140.83	31.2	1.0	0	1131.00	0	0	0	1131.00	0	0	0	1131.00	0	0	0
3	1140.83	31.2	0.9	0	1131.00	0	0	0	1131.00	0	0	0	1131.00	0	0	0
4	1140.81	31.1	0.8	0	1131.00	0	0	0	1131.00	0	0	0	1131.00	0	0	0
5	1140.80	31.0	0.9	0	1131.00	0	0	0	1131.00	0	0	0	1131.00	0	0	0
6	1140.83	31.2	1.0	0	1131.00	0	0	0	1131.00	0	0	0	1131.00	0	0	0
7	1140.78	30.8	0.7	0	1131.00	0	0	0	1131.00	0	0	0	1131.00	0	0	0
8	1140.70	30.2	0.5	0	1131.00	0	0	0	1131.00	0	0	0	1131.00	0	0	0
9	1140.49	28.6	0.1	0	1131.00	0	0	0	1131.00	0	0	0	1131.00	0	0	0
10	1140.28	27.0	0	0	1131.00	0	0	0	1131.00	0	0	0	1131.00	0	0	0
11	1140.07	25.4	0	0	1131.00	0	0	0	1131.00	0	0	0	1131.00	0	0	0
12	1139.91	24.3	0.3	0	1131.00	0	0	0	1131.00	0	0	0	1131.00	0	0	0
13	1138.86	17.3	0	2.2	1131.00	0	0	0	1131.00	0	0	0	1131.00	0	0	0
14	1137.17	8.6	0	2.9	1131.00	0	0	0	1131.00	0	0	0	1131.00	0	0	0
15	1135.40	3.0	0	2.3	1131.00	0	0	0	1131.00	0	0	0	1131.00	0	0	



PUDDINGSTONE DAM

YEARLY RESERVOIR OPERATION SUMMARY

SEASON	ANNUAL AF	INFLOW MAX-DAY CFS	MIN-DAY CFS	CLTFLOW ANNUAL AF	PEAK MC	INFLOW DAY CFS
1928-29	114	12	G	151		N.D.
1929-30	255	15	C	223		N.C.
1930-31	73	8.5	O	119		N.C.
1931-32	1547	162	C	1086		N.C.
1932-33	314	30	O	906		N.C.
1933-34	2669	596	C	1809		N.C.
1934-35	61C	N.O.	N.O.	846	1	15 205
1935-36	703	54	C	969	4	10 590
1936-37	5732	303	O	2173	2	6 1480
1937-38	12221	2200	C	7544	3	2 5310
1938-39	1576	101	O	5305		N.O.
1939-40	646	54	C	2524	1	7 448
1940-41	12030	377	C	3308	3	4 1080
1941-42	475	30	O	4385	12	10 409
1942-43	10043	1130	C	4836	1	23 2300
1943-44	3408	525	O	3178	2	22 1030
1944-45	1615	139	C	2376	11	11 484
1945-46	1551	275	O	6009	12	23 929
1946-47	1414	96	O	788	11	13 445
1947-48	324	31	O	362	12	5 195
1948-49	336A	21	C	201	3	13 240
1949-50	493	55	C	140	2	6 178
1950-51	162	15	C	145	1	29 162
1951-52	4673	353	O	1857	1	16 952
1952-53	928	32	O	1140	12	1 358
1953-54	31282A	244	C	31609	1	25 600
1954-55	26065A	255	O	23287	11	11 338
1955-56	57309A	458	O	50771	1	26 1360
1956-57	50583A	216	J	53781	1	13 262
1957-58	6670	302	O	1976	4	3 690
1958-59	394	68	C	72	1	6 871
1959-60	837	80	C	40	1	12 148
1960-61	10900A	198	G	9416	11	6 179
1961-62	4463	173	C	33	12	2 963
1962-63	927	139	C	466	2	10 325
1963-64	594	43	O	0	1	22 242
1964-65	2675	153	O	7401	4	5 1770
1965-66	10456	444	C	3066	11	22 1590
1966-67	11508	1090	O	9988	12	6 2440
1967-68	15811	174	C	14275	3	8 760
1968-69	36802	2830	C	35754	1	25 4340
1969-70	1650	163	C-2	*	3	1 507
1970-71	1454	149	C-1	4094	12	18 365
1971-72	1007	186	+	*	12	24 538
1972-73	4038	341	O-1	+	2	11 604
1973-74	2409	1070	O-1	1069	1	7 660
1974-75	1832	153	O	1832	12	4 769
1975-76	2644	180	O-1	0	09	10 493
1976-77	2655	138	-1	197	1	3 812

N.D. = NOT DETERMINED

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

DAM OPERATION RECORD

Puddingstone Dam

1976-76

DRAINAGE AREA 55.1 SQ. MI.  
CAPACITY OF RESERVOIR 11,340 AC. FT.  
at SPILLWAY ELEVATION 1070.0 FT.  
as of November 19 1962

DAGE HEIGHTS AND STORAGES ARE AS OF MIDNIGHT ON DAY SHOWN.

Day	OCTOBER				NOVEMBER				DECEMBER				JANUARY				Day
	Gage Height	Acres-Fl. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Fl. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Fl. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Fl. Storage	CFS Inflow	CFS Outflow	
1	937.7	5668.9	0.3	0	937.3	5688.1	0.4	0	937.0	5655.9	0.0	0	936.9	5670.2	0.1	0	1
2	937.7	5666.6	0.3	0	937.3	5686.1	0.4	0	937.0	5651.0	0.0	0	936.9	5660.1	0.2	0	2
3	937.6	5662.0	0.3	0	937.3	5686.1	0.4	0	937.0	5651.0	0.0	0	936.9	5650.1	0.2	0	3
4	937.6	5657.4	0.3	0	937.3	5685.8	0.4	0	937.0	5651.2	0.0	0	936.9	5649.2	0.2	0	4
5	937.6	5652.8	0.3	0	937.3	5684.4	0.4	0	937.0	5651.0	0.0	0	936.9	5648.3	0.2	0	5
6	937.6	5648.2	0.3	0	937.3	5679.1	0.4	0	937.0	5651.0	0.0	0	936.8	5647.1	0.2	0	6
7	937.6	5643.9	0.3	0	937.3	5676.8	0.4	0	937.0	5651.0	0.0	0	936.8	5646.9	0.2	0	7
8	937.6	5639.6	0.3	0	937.3	5676.8	0.4	0	937.0	5651.0	0.0	0	936.8	5646.9	0.2	0	8
9	937.5	5635.3	0.3	0	937.3	5674.5	0.4	0	937.0	5651.0	0.0	0	936.8	5646.9	0.2	0	9
10	937.5	5631.0	0.3	0	937.3	5674.5	0.4	0	937.0	5651.0	0.0	0	936.8	5646.9	0.2	0	10
11	937.5	5626.7	0.3	0	937.3	5674.5	0.4	0	937.0	5651.0	0.0	0	936.8	5646.9	0.2	0	11
12	937.5	5622.4	0.3	0	937.2	5674.5	0.4	0	937.0	5651.0	0.0	0	936.8	5646.9	0.2	0	12
13	937.5	5618.1	0.3	0	937.2	5674.5	0.4	0	937.0	5651.0	0.0	0	936.8	5646.9	0.2	0	13
14	937.5	5613.8	0.3	0	937.2	5674.5	0.4	0	937.0	5651.0	0.0	0	936.8	5646.9	0.2	0	14
15	937.5	5609.5	0.3	0	937.2	5674.5	0.4	0	937.0	5651.0	0.0	0	936.8	5646.9	0.2	0	15
16	937.5	5605.2	0.3	0	937.2	5674.5	0.4	0	937.0	5651.0	0.0	0	936.8	5646.9	0.2	0	16
17	937.5	5600.9	0.3	0	937.2	5674.5	0.4	0	937.0	5651.0	0.0	0	936.8	5646.9	0.2	0	17
18	937.5	5596.6	0.3	0	937.2	5674.5	0.4	0	937.0	5651.0	0.0	0	936.8	5646.9	0.2	0	18
19	937.4	5592.3	0.3	0	937.1	5674.5	0.4	0	937.0	5651.0	0.0	0	936.7	5646.9	0.2	0	19
20	937.4	5588.0	0.3	0	937.1	5674.5	0.4	0	937.0	5651.0	0.0	0	936.7	5646.9	0.2	0	20
21	937.4	5583.7	0.3	0	937.1	5674.5	0.4	0	937.0	5651.0	0.0	0	936.7	5646.9	0.2	0	21
22	937.4	5579.4	0.3	0	937.1	5674.5	0.4	0	937.0	5651.0	0.0	0	936.7	5646.9	0.2	0	22
23	937.4	5575.1	0.3	0	937.1	5674.5	0.4	0	937.0	5651.0	0.0	0	936.7	5646.9	0.2	0	23
24	937.4	5570.8	0.3	0	937.1	5674.5	0.4	0	937.0	5651.0	0.0	0	936.7	5646.9	0.2	0	24
25	937.4	5566.5	0.3	0	937.1	5674.5	0.4	0	937.0	5651.0	0.0	0	936.7	5646.9	0.2	0	25
26	937.4	5562.2	0.3	0	937.1	5674.5	0.4	0	937.0	5651.0	0.0	0	936.7	5646.9	0.2	0	26
27	937.3	5557.9	0.3	0	937.1	5674.5	0.4	0	937.0	5651.0	0.0	0	936.7	5646.9	0.2	0	27
28	937.3	5553.6	0.3	0	937.1	5674.5	0.4	0	937.0	5651.0	0.0	0	936.7	5646.9	0.2	0	28
29	937.3	5549.3	0.3	0	937.1	5674.5	0.4	0	937.0	5651.0	0.0	0	936.7	5646.9	0.2	0	29
30	937.3	5545.0	0.3	0	937.1	5674.5	0.4	0	937.0	5651.0	0.0	0	936.7	5646.9	0.2	0	30
31	937.3	5540.7	0.3	0	937.1	5674.5	0.4	0	937.0	5651.0	0.0	0	936.7	5646.9	0.2	0	31
TOTAL		18.0	0				11.7	0				17.8	0			12.5	0
Inf. Ac. Ft.		35.7					23.2					35.3				34.8	
Outf. Ac. Ft.		0 + (116.2)					0 + (87.8)					0 + (64.6)				0 + (101.0)	
Max. Mean Daily Inf.		4.7					1.1					6.3				0.5	
Min. Mean Daily Inf.		0.3					0.3					0.2				0.3	
Storage Change		-80.5					-66.7					-29.3				-76.2	

Day	FEBRUARY				MARCH				APRIL				MAY				Day
	Gage Height	Acres-Fl. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Fl. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Fl. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Fl. Storage	CFS Inflow	CFS Outflow	
1	936.5	5815.9	0.4	0	938.0	5961.9	71.4	0	938.8	5935.9	1.4	0	938.8	5945.0	0.3	0	1
2	936.5	5809.4	0.3	0	938.0	5960.4	14.5	0	938.8	5935.6	0.9	0	938.8	5945.0	0.7	0	2
3	936.5	5804.9	0.2	0	938.1	5960.1	5.7	0	938.9	5935.1	0.4	0	938.8	5945.0	0.7	0	3
4	936.7	5800.4	0.2	0	938.2	5960.1	1.2	0	938.9	5934.8	11.0	0	938.8	5945.0	0.7	0	4
5	936.8	5795.9	0.2	0	938.2	5960.1	1.0	0	938.9	5934.4	0.4	0	938.8	5945.0	0.7	0	5
6	937.1	5791.4	0.2	0	938.2	5959.7	0.9	0	938.9	5934.1	0.4	0	938.8	5945.0	0.7	0	6
7	937.3	5786.9	0.2	0	938.1	5959.3	0.9	0	938.9	5933.7	0.4	0	938.8	5945.0	0.7	0	7
8	937.7	5782.4	0.2	0	938.1	5958.9	0.9	0	938.9	5933.4	0.4	0	938.8	5945.0	0.7	0	8
9	938.4	5777.9	0.2	0	938.2	5958.5	0.9	0	938.8	5933.0	0.4	0	938.7	5945.0	0.5	0	9
10	938.4	5773.4	0.2	0	938.2	5958.1	0.9	0	938.8	5932.6	0.4	0	938.7	5945.0	0.5	0	10
11	938.4	5768.9	0.2	0	938.2	5957.7	0.9	0	938.8	5932.2	0.4	0	938.7	5945.0	0.5	0	11
12	938.4	5764.4	0.2	0	938.2	5957.3	0.9	0	938.8	5931.8	1.2	0	938.7	5945.0	0.5	0	12
13	938.4	5759.9	0.2	0	938.2	5956.9	0.9	0	938.8	5931.4	1.2	0	938.6	5945.0	0.5	0	13
14	938.4	5755.4	0.2	0	938.2	5956.5	0.9	0	938.8	5931.0	1.2	0	938.6	5945.0	0.5	0	14
15	938.4	5750.9	0.2	0	938.2	5956.1	0.9	0	938.8	5930.6	1.2	0	938.6	5945.0	0.5	0	15
16	938.4	5746.4	0.2	0	938.2	5955.7	0.9	0	938.8	5930.2	1.2	0	938.6	5945.0	0.5	0	16
17	938.4	5741.9	0.2	0	938.2	5955.3	0.9	0	938.8	5929.8	1.2	0	938.5	5945.0	0.5	0	17
18	938.4	5737.4	0.2	0	938.2	5954.9	0.9	0	938.8	5929.4	1.2	0	938.5	5945.0	0.5	0	18
19	938.4	5732.9	0.2	0	938.2	5954.5	0.9	0	938.8	5929.0	1.2	0	938.5	5945.0	0.5	0	19
20	938.4	5728.4	0.2	0	938.2	5954.1	0.9	0	938.8	5928.6	1.2	0	938.5	5945.0	0.5	0	20
21	938.4	5723.9	0.2	0	938.2	5953.7	0.9	0	938.8	5928.2	1.2	0	938.5	5945.0	0.5	0	21
22	938.4	5719.4	0.2	0	938.2	5953.3	0.9	0	938.8	5927.8	1.2	0	938.5	5945.0	0.5	0	22
23	938.4	5714.9	0.2	0	938.2	5952.9	0.9	0	938.8	5927.4	1.2	0	938.5	5945.0	0.5	0	23
24	938.4	5710.4	0.2	0	938.2	5952.5	0.9	0	938.8	5927.0	1.2	0	938.5	5945.0	0.5	0	24
25	938.4	5705.9	0.2	0	938.2	5952.1	0.9	0	938.8	5926.6	1.2	0	938.5	5945.0	0.5	0	25
26	938.4	5701.4	0.2	0	938.2	5951.7	0.9	0	938.8	5926.2	1.2	0	938.5	5945.0	0.5	0	26
27	938.4	5696.9	0.2	0	938.2	5951.3	0.9	0	938.8	5925.8	1.2	0	938.5	5945.0	0.5	0	27
28	938.4	5692.4	0.2	0	938.2	5950.9	0.9	0	938.8	5925.4	1.2	0	938.5	5945.0	0.5	0	28
29	938.4	5687.9	0.2	0	938.2	5950.5	0.9	0	938.8	5925.0	1.2	0	938.5	5945.0	0.5	0	29
30	938.4	5683.4	0.2	0	938.2	5950.1	0.9	0	938.8	5924.6	1.2	0	938.5	5945.0	0.5	0	30
31	938.4	5678.9	0.2	0	938.2	5949.7	0.9	0	938.8	5924.2	1.2	0	938.5	5945.0	0.5	0	31
TOTAL		239.4	0				116.9	0				66.1	0			16.8	0
Inf. Ac. Ft.		474.8					231.9					131.1				92.8	
Outf. Ac. Ft.		0 + (73.0)					0 + (111.5)					0 + (121.7)				0 + (220.1)	
Max. Mean Daily Inf.		82.4					71.4					13.2				22.9	
Min. Mean Daily Inf.		0.3					0.8					0.4				0.4	
Storage Change		401.9					120.4					32.4				-127.4	

Day	JUNE				JULY				AUGUST				SEPTEMBER				Day
	Gage Height	Acres-Fl. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Fl. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Fl. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Fl. Storage	CFS Inflow	CFS Outflow	
1	937.3	5815.0	0.4	0	937.1	5947.7	1.1	0	936.6	5947.7	11.9	0					

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

DAM OPERATION RECORD

FLOODINGSTONE DAM

DRAINAGE AREA 33.1 SQ. MI.  
RESERVOIR CAPACITY 16856 A.F.  
AT SPILLWAY ELEVATION 970.0 FT.  
AS OF NOVEMBER, 1965

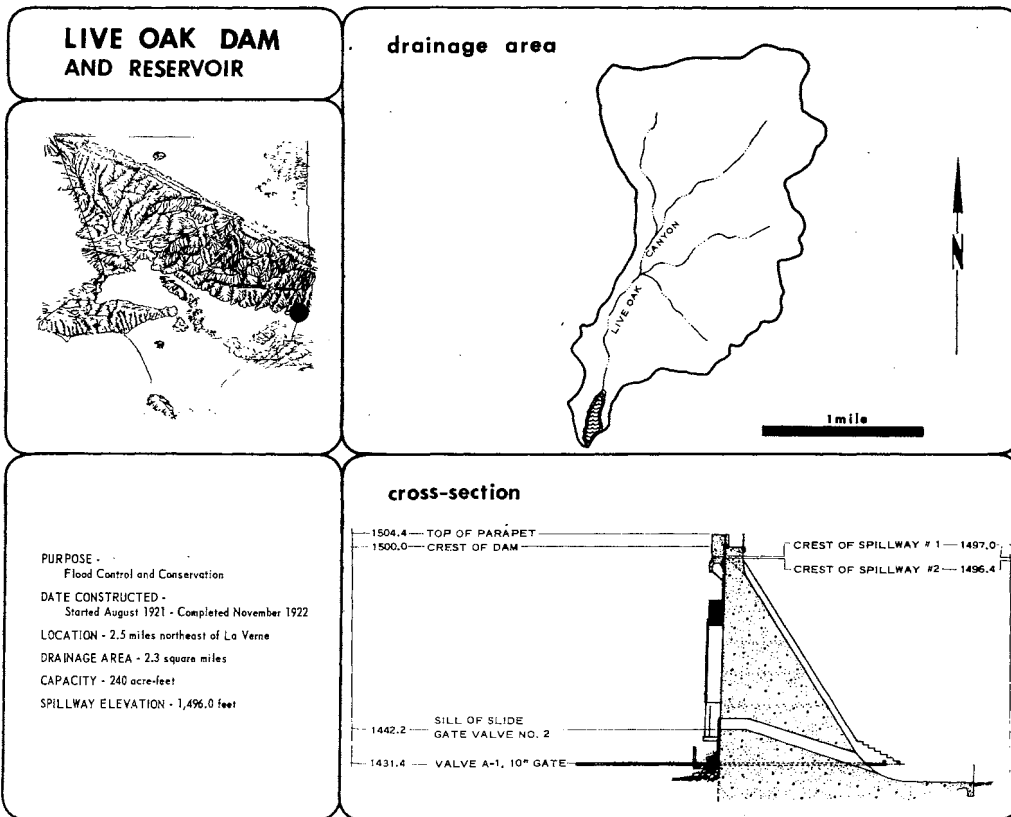
GAUGE HEIGHTS AND STORAGE  
ARE AS OF MIDNIGHT ON DAY SHOWN

1976-77

St	OCTOBER				NOVEMBER				DECEMBER				JANUARY				St
	Gage Height	Area-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Area-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Area-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Area-ft Storage	CFS Inflow	CFS Outflow	
1	940.18	6267.4	1.1	0	939.79	6171.9	0.6	0	939.55	6113.8	0.8	0	939.75	6152.2	2.7	0	
2	940.16	6262.4	1.1	0	939.76	6164.6	0.9	0	939.54	6111.4	0.8	0	939.95	6210.6	20.5	0	
3	940.11	6257.5	1.1	0	939.74	6159.8	1.5	0	939.53	6109.0	0.8	0	940.53	6354.4	72.6	0	
4	940.09	6245.1	1.1	0	939.72	6155.0	2.1	0	939.51	6104.2	0.8	0	941.05	6483.9	110.0	0	
5	940.07	6240.1	1.1	0	939.70	6150.1	2.1	0	939.50	6101.8	0.8	0	941.05	6483.9	66.1	0	
6	940.06	6237.6	1.1	0	939.68	6145.3	4.4	0	939.49	6099.3	0.8	0	941.71	6552.5	85.1	0	
7	940.03	6230.2	1.1	0	939.66	6140.5	1.1	0	939.48	6096.9	0.8	0	942.11	6755.5	92.0	0	
8	940.01	6225.2	1.1	0	939.64	6135.6	1.1	0	939.46	6092.1	0.8	0	942.13	6760.7	3.5	0	
9	939.98	6217.9	1.1	0	939.61	6129.4	1.1	0	939.45	6089.7	0.8	0	942.13	6760.7	0.6	0	
10	939.97	6215.4	1.1	0	939.59	6123.5	1.0	0	939.44	6087.2	0.8	0	942.12	6758.1	0.6	0	
11	939.95	6210.6	1.1	0	939.58	6118.7	2.6	0	939.43	6084.8	0.8	0	942.11	6755.5	0.6	0	
12	939.94	6208.2	1.1	0	939.57	6114.0	0.7	0	939.42	6082.4	0.8	0	942.11	6755.5	0.6	0	
13	939.91	6200.9	1.1	0	939.56	6109.3	0.7	0	939.40	6077.6	0.8	0	942.11	6755.5	0.6	0	
14	939.91	6200.9	1.1	0	939.56	6109.3	0.7	0	939.39	6075.1	0.8	0	942.11	6755.5	0.6	0	
15	939.91	6200.9	1.1	0	939.56	6109.3	0.7	0	939.37	6070.3	0.8	0	942.11	6755.5	0.6	0	
16	939.90	6198.5	1.1	0	939.55	6104.6	0.7	0	939.36	6067.9	0.8	0	942.10	6752.9	0.5	0	
17	939.89	6196.1	1.1	0	939.54	6100.0	0.7	0	939.34	6063.0	0.8	0	942.09	6750.2	0.5	0	
18	939.88	6193.7	1.1	0	939.53	6095.3	0.7	0	939.33	6060.6	0.8	0	942.08	6747.6	0.5	0	
19	939.86	6188.8	1.1	0	939.52	6090.6	0.7	0	939.32	6058.2	0.8	0	942.07	6745.0	0.5	0	
20	939.85	6186.4	1.1	0	939.51	6085.9	0.7	0	939.31	6055.8	0.8	0	942.09	6750.2	4.5	0	
21	939.82	6179.2	1.0	0	939.50	6081.2	0.7	0	939.29	6051.0	0.8	0	942.12	6758.1	5.8	0	
22	939.82	6179.2	1.0	0	939.50	6081.2	0.7	0	939.28	6048.6	0.8	0	942.12	6758.1	0.7	0	
23	939.79	6213.0	0.5	0	939.49	6147.7	0.7	0	939.27	6046.1	0.8	0	942.12	6758.1	1.0	0	
24	939.76	6213.0	0.5	0	939.46	6143.0	0.6	0	939.26	6043.7	0.8	0	942.12	6758.1	0.6	0	
25	939.75	6210.6	0.4	0	939.45	6140.5	0.6	0	939.25	6041.3	0.8	0	942.13	6760.7	2.5	0	
26	939.74	6208.2	0.4	0	939.44	6135.6	0.6	0	939.24	6038.9	0.8	0	942.12	6758.1	0.6	0	
27	939.70	6198.5	0.4	0	939.42	6130.8	0.6	0	939.23	6036.4	0.7	0	942.13	6760.7	0.6	0	
28	939.67	6191.3	0.4	0	939.40	6125.9	0.6	0	939.22	6034.0	0.7	0	942.13	6760.7	0.6	0	
29	939.65	6186.4	0.4	0	939.38	6121.1	0.6	0	939.21	6031.6	0.7	0	942.13	6760.7	0.6	0	
30	939.63	6181.6	0.4	0	939.37	6116.4	0.6	0	939.20	6029.2	0.7	0	942.13	6760.7	0.6	0	
31	939.61	6176.7	0.4	0	939.35	6111.7	0.6	0	939.19	6026.8	0.7	0	942.11	6755.5	0.6	0	
TOTAL			48.7	0			55.4	0			175.7	0			339.9	0	
Inf. Ac. Ft.			96.5				109.8				175.7				662.2		
Diff. Ac. Ft.			0	+ (192.1)			0	+ (167.8)			0	+ (134.6)			0	+ (66.6)	
Max. Mean Daily Inf.			21.9				26.6				39.6				85.1		
Min. Mean Daily Inf.			0.4				0.6				0.7				0.5		
Storage Change			- 95.7				- 58.0				- 41.1				- 595.7		

St	FEBRUARY				MARCH				APRIL				MAY				St
	Gage Height	Area-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Area-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Area-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Area-ft Storage	CFS Inflow	CFS Outflow	
2	942.11	6755.5	1.0	0	942.31	6808.0	1.4	0	942.40	6831.6	1.3	0	942.12	6758.1	0.9	0	
3	942.12	6758.1	2.0	0	942.30	6805.4	1.4	0	942.39	6829.0	1.3	0	942.11	6755.5	0.9	0	
4	942.13	6760.7	3.6	0	942.30	6805.4	1.3	0	942.39	6829.0	1.3	0	942.10	6752.9	0.9	0	
5	942.12	6758.1	1.0	0	942.29	6800.1	1.3	0	942.37	6823.7	1.3	0	942.09	6750.2	0.9	0	
6	942.10	6752.9	0.9	0	942.27	6797.5	1.3	0	942.35	6818.5	1.3	0	942.08	6747.6	0.9	0	
7	942.09	6750.2	0.9	0	942.25	6792.2	1.3	0	942.34	6815.9	1.3	0	942.07	6745.0	0.9	0	
8	942.07	6745.0	0.9	0	942.23	6787.0	1.3	0	942.32	6810.6	1.3	0	942.07	6745.0	0.6	0	
9	942.07	6745.0	0.9	0	942.22	6784.4	1.3	0	942.31	6808.0	1.3	0	942.07	6745.0	69.1	0	
10	942.06	6742.4	0.9	0	942.20	6779.1	1.3	0	942.29	6805.4	1.3	0	942.06	6742.4	137.7	0.3	
11	942.05	6739.7	1.1	0	942.19	6776.5	1.3	0	942.27	6802.7	1.3	0	942.05	6739.7	74.8	0	
12	942.05	6739.7	2.0	0	942.17	6771.2	1.3	0	942.26	6802.7	1.3	0	942.05	6739.7	3.0	15.2	
13	942.04	6737.1	1.5	0	942.16	6768.6	1.3	0	942.25	6800.1	1.3	0	942.04	6737.1	2.5	15.2	
14	942.03	6734.5	1.5	0	942.14	6763.4	1.3	0	942.24	6797.5	1.3	0	942.03	6734.5	1.5	8.5	
15	942.02	6731.9	3.5	0	942.12	6758.1	1.3	0	942.23	6794.9	1.3	0	942.02	6731.9	0.8	0.1	
16	942.00	6726.6	1.4	0	942.11	6753.5	1.3	0	942.22	6792.2	1.3	0	942.01	6729.5	0.8	0.1	
17	942.00	6726.6	3.9	0	942.10	6750.9	1.3	0	942.21	6789.6	1.3	0	942.00	6726.6	2.5	0.1	
18	941.98	6721.5	0.9	0	942.09	6748.3	1.3	0	942.20	6787.0	1.3	0	941.99	6721.5	1.6	0.1	
19	941.97	6718.9	0.9	0	942.08	6745.7	1.3	0	942.19	6784.4	1.3	0	941.98	6718.9	0.8	0.1	
20	941.97	6718.9	0.9	0	942.08	6745.7	1.3	0	942.18	6781.8	1.2	0	941.97	6718.9	0.8	0.1	
21	941.95	6713.8	0.9	0	942.07	6743.1	0.8	0	942.17	6779.1	1.2	0	941.95	6713.8	0.8	0.1	
22	941.96	6716.4	2.4	0	942.06	6740.5	0.8	0	942.16	6776.5	1.2	0	941.96	6716.4	0.7	0.1	
23	942.00	6726.6	0.6	0	942.05	6737.9	0.8	0	942.15	6773.9	1.2	0	941.99	6721.5	8.8	0.2	
24	942.37	6823.7	50.7	0	942.04	6735.3	4.0	0	942.14	6771.2	1.2	0	941.98	6718.9	5.1	0.4	
25	942.37	6823.7	1.7	0	942.03	6732.7	52.7	8.7	942.13	6768.6	1.2	0	941.97	6716.4	705.2	0.6	0.2
26	942.36	6821.1	0.2	0	942.02	6730.1	1.8	13.4	942.12	6766.0	1.2	0	941.96	6713.8	705.5	0.5	0.1
27	942.35	6818.5	0.2	0	942.01	6727.5	1.3	4.6	942.11	6763.4	1.2	0	941.95	6711.2	705.1	0.5	0.1
28	942.34	6815.9	0.1	0	942.00	6724.9	0.7	0.4	942.10	6760.7	1.2	0	941.94	6708.6	704.7	0.5	0.1
29					942.00	6722.3	0.7	0.2	942.09	6758.1	1.2	0	941.93	6706.0	704.3	0.5	0.1
30					942.00	6722.3	0.7	0.6	942.08	6755.5	1.2	0	941.92	6703.7	703.6	0.5	0.1
31					942.00	6722.3	0.7	0.2	942.07	6752.9	1.2	0	941.91	6701.1	703.2	0.5	0.1
TOTAL			94.5	0			120.4	28.1			37.9	0			251.6	49.3	
Inf. Ac. Ft.			187.4				238.8	28.1			75.1				499.0		
Diff. Ac. Ft.			0	+ (126.9)			55.7	+ (156.8)			0	+ (151.3)			0	+ (129.7)	
Max. Mean Daily Inf.			50.7				52.7				1.3				137.7		
Min. Mean Daily Inf.			0.1				0.7				1.2				0.4		
Storage Change			60.4				26.2				- 76.1				- 371.5		

St	JUNE				JULY				AUGUST				SEPTEMBER				St
	Gage Height	Area-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Area-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Area-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Area-ft Storage	CFS Inflow	CFS Outflow	
1	943.14	7024.8	0.9	0.1	942.38	6824.4	2.0	0.1	941.83	6683.2	1.7	0.4	942.44	6842.1	1.0	0.1	
2	943.11	7018.7	0.9	0.1	942.36	6821.1	2.0	0.1	941.81	6678.1	1.7	0.1	942.43	6839.5	1.0	0.1	
3	943.08	7010.7	0.9	0.2	942.35	6818.5	2.0	0.1	941.80								



LIVE OAK DAM

YEARLY RESERVOIR OPERATION SUMMARY

SEASON	ANNUAL AF	INFLOW MAX-DAY CFS	MIN-DAY CFS	OUTFLOW ANNUAL AF	PEAK INFLOW		
					MO	DAY	CFS
1932-33	C	0	0	0			0
1933-34	N.D.	N.D.	N.D.	142			N.D.
1934-35	27	2.3	0	27	4	8	16
1935-36	N.D.	4.1	0	0			N.D.
1936-37	494	35	0	413	2	6	139
1937-38	800	147	0	785	3	2	339
1938-39	21	1.0	0	3.2	2	3	1.4
1939-40	16	1.2	0	1.4	1	8	11
1940-41	719	39	0	718	3	4	90
1941-42	C	+	+	0			+
1942-43	827	78	0	827	1	22	170
1943-44	218	33	0	218	2	22	74
1944-45	177	9.4	0	177	2	2	67
1945-46	105	22	0	89	12	23	127
1946-47	64	7.5	0	45	11	20	25
1947-48	C	0	0	0			0
1948-49	C	0	0	0			0
1949-50	4.7	0.3	0	3.6	12	19	2.6
1950-51	0	C	0	0			0
1951-52	36.2	3.4	0	34.3	1	16	148
1952-53	2.0	+	0	3.2	12	1	0.8
1953-54	78	13	0	64	1	25	82
1954-55	C.3	+	0	0.3			N.D.
1955-56	77	25	0	72	1	26	128
1956-57	1.9	0.1	0	0.1	1	13	1.1
1957-58	699	38	C	699	4	3	67
1958-59	5.6	0.8	0	5.4	1	6	9.2
1959-60	C	C	C	0			0
1960-61	4.8	C.7	C	0	11	6	22
1961-62	186	29	0	111	11	20	366
1962-63	13	5.8	0	5.4	2	9	23
1963-64	4.8	C.8	C	C	3	22	6.2
1964-65	20	6.8	0	15	4	9	58
1965-66	243	23	0	241	11	22	116
1966-67	699	112	+	672	12	6	360
1967-68	131	6.0	0	130	3	8	39
1968-69	2146	152	0	2115	1	25	403
1969-70	258	8.4	0	258	2	28	14
1970-71	243	7.2	C	243	12	21	16
1971-72	71	3.5	0	71	12	24	5
1972-73	291	34	0	290	2	11	52
1973-74	132	13	0	132	1	7	31
1974-75	71	2.0	0	61	3	6	14
1975-76	30	2.5	C	24	03	01	7.2
1976-77	32	2.0	C	33	1	3	13

N.D. = NOT DETERMINED  
 + = LESS THAN 0.05 ACRE FEET OR LESS THAN 0.05 CFS, BUT GREATER THAN 0.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT  
DAM OPERATION RECORD

Live Oak Dam

1975-76

DRAINAGE AREA 2.28 SQ. MI.  
CAPACITY OF RESERVOIR 244.5 AC. FT.  
SPILLWAY ELEVATION 1496.2 FT.  
as of October 19 79.

GAGE HEIGHTS AND STORAGE  
ARE AS OF MIDNIGHT ON DAY SHOWN.

#	OCTOBER				NOVEMBER				DECEMBER				JANUARY				#
	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	
1	1442.0	1.0	0	0	1445.2	1.2	0	0	1447.1	2.2	0	0	1448.7	3.1	0	0	1
2	1444.0	1.0	0	0	1445.0	1.3	0	0	1447.1	2.2	0	0	1448.8	3.1	0	0	2
3	1443.9	1.0	0	0	1445.0	1.5	0	0	1447.2	2.2	0	0	1448.8	3.1	0	0	3
4	1443.9	1.0	0	0	1445.7	1.6	0	0	1447.3	2.2	0	0	1448.9	3.2	0	0	4
5	1443.9	1.0	0	0	1445.8	1.6	0	0	1447.3	2.3	0.1	0	1448.9	3.2	0	0	5
6	1443.9	1.0	0	0	1445.8	1.6	0	0	1447.4	2.3	0	0	1449.0	3.2	0	0	6
7	1443.9	1.0	0	0	1445.9	1.6	0	0	1447.4	2.3	0	0	1449.0	3.3	0.1	0	7
8	1443.8	1.0	0	0	1446.0	1.7	0.1	0	1447.4	2.3	0	0	1449.1	3.3	0	0	8
9	1443.8	1.0	0	0	1446.0	1.7	0	0	1447.5	2.4	0	0	1449.1	3.4	0	0	9
10	1443.9	1.0	0	0	1446.1	1.7	0	0	1447.5	2.4	0	0	1449.2	3.4	0	0	10
11	1443.9	1.0	0	0	1446.1	1.7	0	0	1447.6	2.4	0	0	1449.2	3.4	0	0	11
12	1444.0	1.0	0	0	1446.2	1.7	0	0	1447.7	2.5	0.1	0	1449.3	3.5	0.1	0	12
13	1444.1	1.0	0	0	1446.2	1.8	0	0	1447.8	2.5	0	0	1449.3	3.5	0	0	13
14	1444.2	1.1	0	0	1446.3	1.8	0	0	1447.8	2.5	0	0	1449.4	3.5	0	0	14
15	1444.2	1.1	0	0	1446.3	1.8	0	0	1447.9	2.6	0	0	1449.4	3.6	0	0	15
16	1444.3	1.1	0	0	1446.3	1.8	0	0	1447.9	2.6	0	0	1449.5	3.6	0	0	16
17	1444.3	1.1	0	0	1446.4	1.9	0.1	0	1448.0	2.6	0	0	1449.5	3.7	0.1	0	17
18	1444.4	1.1	0	0	1446.5	1.9	0	0	1448.0	2.6	0	0	1449.6	3.7	0	0	18
19	1444.5	1.2	0.1	0	1446.5	1.9	0	0	1448.1	2.7	0.1	0	1449.6	3.7	0	0	19
20	1444.6	1.2	0	0	1446.6	1.9	0	0	1448.1	2.7	0	0	1449.7	3.8	0	0	20
21	1444.7	1.2	0	0	1446.6	1.9	0	0	1448.2	2.7	0	0	1449.7	3.8	0	0	21
22	1444.8	1.2	0	0	1446.7	2.0	0	0	1448.2	2.8	0	0	1449.8	3.8	0	0	22
23	1444.8	1.3	0	0	1446.7	2.0	0	0	1448.3	2.8	0	0	1449.8	3.9	0.1	0	23
24	1444.9	1.3	0	0	1446.8	2.0	0	0	1448.3	2.8	0	0	1449.9	3.9	0	0	24
25	1445.0	1.3	0	0	1446.8	2.0	0	0	1448.4	2.9	0.1	0	1449.9	3.9	0	0	25
26	1445.0	1.3	0	0	1446.9	2.0	0	0	1448.4	2.9	0	0	1450.0	4.0	0	0	26
27	1445.1	1.4	0.1	0	1446.9	2.1	0.1	0	1448.5	2.9	0	0	1450.0	4.0	0.1	0	27
28	1445.2	1.4	0	0	1447.0	2.1	0	0	1448.5	3.0	0	0	1450.1	4.0	0	0	28
29	1445.3	1.4	0	0	1447.0	2.1	0	0	1448.6	3.0	0	0	1450.1	4.1	0	0	29
30	1445.4	1.4	0	0	1447.1	2.1	0	0	1448.6	3.0	0	0	1450.1	4.1	0	0	30
31	1445.4	1.5	0.1	0					1448.7	3.1	0.1	0	1450.2	4.2	0.1	0	31
TOTAL							0.3	0			0.5	0				0.5	0
Inf. Ac. Ft.			0.5					0.7				0.9					1.1
Outf. Ac. Ft.			0					0				0					0
Max. Mean Daily Inf.			0.1				0.1				0.1					0.1	
Min. Mean Daily Inf.			0				0				0					0	
Storage Change			0.5				0.7				0.9					1.1	

#	FEBRUARY				MARCH				APRIL				MAY				#
	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	
1	1450.2	4.2	0	0	1458.6	16.4	2.5	0	1461.8	24.3	0	0	1444.7	1.2	0	0	1
2	1450.2	4.2	0	0	1459.2	17.8	0.7	0	1461.8	24.3	0	0	1444.7	1.2	0	0	2
3	1450.2	4.3	0.1	0	1459.4	18.9	0.5	0	1461.9	24.5	0.1	0	1444.7	1.2	0	0	3
4	1450.2	4.3	0.1	0	1459.4	19.4	0.3	0	1462.1	25.1	0.3	0	1444.7	1.2	0	0	4
5	1450.6	4.5	0	0	1460.0	19.7	0.2	0	1462.3	25.7	0.3	0	1444.7	1.2	0	0	5
6	1450.8	4.7	0.1	0	1460.1	20.0	0.1	0	1462.3	25.9	0.3	0	1444.8	1.2	0	0	6
7	1450.9	4.8	0.1	0	1460.2	20.2	0.1	0	1462.3	25.9	0	0	1444.7	1.2	0	0	7
8	1451.8	5.7	0.8	0	1460.3	20.4	0.1	0	1462.4	26.0	0	0	1444.7	1.2	0	0	8
9	1454.3	8.6	1.5	0	1460.4	20.6	0.1	0	1462.4	26.1	0.1	0	1444.7	1.2	0	0	9
10	1454.8	9.3	0.3	0	1460.5	20.9	0.1	0	1462.4	26.2	0	0	1444.7	1.2	0	0	10
11	1454.9	9.6	0.1	0	1460.9	21.9	0.5	0	1462.4	26.2	0.1	0	1444.7	1.2	0	0	11
12	1455.1	9.8	0.1	0	1461.0	22.3	0.2	0	1462.5	26.5	0.1	0	1444.7	1.2	0	0	12
13	1455.2	10.0	0.1	0	1461.1	22.4	0.1	0	1462.5	27.6	0.6	0	1444.7	1.2	0	0	13
14	1455.3	10.1	0.1	0	1461.1	22.6	0.1	0	1462.5	28.0	0.2	0	1444.7	1.2	0	0	14
15	1455.4	10.3	0.1	0	1461.2	22.7	0.1	0	1462.5	28.4	0.5	0	1444.7	1.2	0	0	15
16	1455.5	10.5	0.1	0	1461.2	22.8	0.1	0	1462.5	29.4	0.3	0	1444.7	1.2	0	0	16
17	1455.6	10.6	0.1	0	1461.3	22.9	0.1	0	1462.6	29.7	0.1	0	1444.7	1.2	0	0	17
18	1455.6	10.7	0.1	0	1461.3	23.0	0.1	0	1462.6	29.7	0.1	0	1444.7	1.2	0	0	18
19	1455.7	10.7	0	0	1461.4	23.2	0.1	0	1462.6	29.8	0	0	1444.7	1.2	0	0	19
20	1455.7	10.8	0.1	0	1461.4	23.3	0.1	0	1462.6	29.8	0	0	1444.7	1.2	0	0	20
21	1455.7	10.9	0	0	1461.4	23.4	0	0	1462.6	29.8	0	0	1444.7	1.2	0	0	21
22	1455.8	10.9	0	0	1461.5	23.5	0.1	0	1462.7	29.9	0.1	0	1444.7	1.2	0	0	22
23	1455.8	11.0	0.1	0	1461.5	23.5	0	0	1462.7	29.9	0	0	1444.7	1.2	0	0	23
24	1455.8	11.1	0	0	1461.5	23.6	0	0	1462.7	30.0	0	0	1444.7	1.2	0	0	24
25	1455.9	11.1	0	0	1461.6	23.7	0.1	0	1462.7	30.0	0	0	1444.7	1.2	0	0	25
26	1455.9	11.2	0.1	0	1461.6	23.8	0	0	1461.0	22.2	0	5.3	1444.7	1.2	0	0	26
27	1456.0	11.3	0	0	1461.6	23.9	0	0	1455.7	10.7	0	4.8	1444.7	1.2	0	0	27
28	1456.0	11.4	0.1	0	1461.6	24.0	0	0	1455.9	1.6	0	3.7	1444.7	1.2	0	0	28
29	1456.1	11.4	0	0	1461.7	24.1	0.1	0	1444.8	1.2	0	0.2	1444.7	1.2	0	0	29
30					1461.7	24.1	0	0	1444.7	1.2	0	0	1444.8	1.2	0	0	30
31					1461.7	24.2	0	0					1444.7	1.2	0	0	31
TOTAL		3.7	0			6.4	0				2.9	12.0				0	0
Inf. Ac. Ft.		7.3				12.8					5.8					0.1	
Outf. Ac. Ft.		0				0					23.8 + (5.0)					0	
Max. Mean Daily Inf.		1.5				2.5					0.6					0	
Min. Mean Daily Inf.		0				0					0					0	
Storage Change		7.3				12.8					-23.0					0	

#	JUNE				JULY				AUGUST				SEPTEMBER				#
	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acres-Ft. Storage	CFS Inflow	CFS Outflow	
1	1444.7	1.2	0	0	1444.6	1.2	0	0	1444.6	1.2	0	0	1444.5	0.9	0	0	1
2	1444.7	1.2	0	0	1444.7	1.2	0	0	1444.6	1.2	0	0	1444.5	0.9	0	0	2
3	1444.7	1.2	0	0	1444.7	1.2	0	0	1444.6	1.2	0	0	1444.6	0.9	0	0	3
4	1444.7	1.2	0	0	1444.7	1.2	0	0	1444.6	1.2	0	0	1444.5	0.9	0	0	4
5	1444.7	1.2	0	0	1444.6	1.2	0	0	1444.5	1.2	0	0	1444.5	0.9	0	0	5
6	1444.7	1.2	0	0	1444.6	1.2	0	0	1444.5	1.2	0	0	1444.5	0.9	0	0	6
7	1444.7	1.2	0	0	1444.6	1.2	0	0	1444.5	1.2	0	0	1444.5	0.9	0	0	7
8	1444.7	1.2	0	0	1444.6	1.2	0	0	1444.5	1.2	0	0	14				

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

DAM OPERATION RECORD

LIVE OAK DAM

DRAINAGE AREA 2.28 SQ. MI.  
RESERVOIR CAPACITY 249.1 A.F.  
AT SPILLWAY ELEVATION 1496.4 FT.  
AS OF OCTOBER, 1977

GAUGE HEIGHTS AND STORAGES  
ARE AS OF MIDNIGHT ON DAY SHOWN

8	OCTOBER				NOVEMBER				DECEMBER				JANUARY				8
	Gage Height	Acce-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acce-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acce-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acce-ft Storage	CFS Inflow	CFS Outflow	
1	1444.62	0.1	0.1	0.1	1446.77	0.4	+	+	1448.51	1.1	0.1	+	1450.50	2.1	+	+	
2	1444.62	0.1	0.1	0.1	1446.79	0.4	+	+	1448.54	1.1	+	+	1450.97	2.4	0.2	+	
3	1444.62	0.1	0.1	0.1	1446.82	0.4	+	+	1448.60	1.1	+	+	1453.69	4.7	1.1	+	
4	1444.60	0.1	0.1	0.1	1446.86	0.5	0.1	+	1448.64	1.1	+	+	1453.72	4.7	+	+	
5	1444.60	0.1	0.1	0.1	1446.96	0.5	+	+	1448.67	1.1	+	+	1450.74	2.2	0.5	1.7	
6	1444.65	0.1	+	+	1447.00	0.5	+	+	1448.73	1.2	+	+	1452.66	3.9	1.3	0.6	
7	1444.71	0.1	+	+	1447.04	0.5	+	+	1448.76	1.2	+	+	1455.76	7.4	1.9	+	
8	1444.79	0.1	+	+	1447.08	0.5	+	+	1448.79	1.2	+	+	1456.20	8.0	0.3	+	
9	1444.86	0.1	+	+	1447.11	0.5	+	+	1448.86	1.2	+	+	1456.31	8.2	0.1	+	
10	1444.97	0.1	+	+	1447.15	0.5	+	+	1448.89	1.2	+	+	1456.36	8.3	+	+	
11	1444.97	0.1	+	+	1447.21	0.5	+	+	1448.92	1.3	0.1	+	1456.40	8.3	0.1	+	
12	1445.05	0.1	+	+	1447.67	0.7	0.1	+	1448.95	1.3	+	+	1456.42	8.4	+	+	
13	1445.11	0.1	+	+	1447.72	0.7	+	+	1448.97	1.3	+	+	1456.45	8.4	+	+	
14	1445.20	0.1	+	+	1447.77	0.7	+	+	1449.01	1.3	+	+	1456.47	8.5	+	+	
15	1445.31	0.1	+	+	1447.81	0.7	+	+	1449.04	1.3	+	+	1456.49	8.5	+	+	
16	1445.39	0.1	+	+	1447.85	0.7	+	+	1449.07	1.3	+	+	1456.52	8.5	+	+	
17	1445.46	0.1	+	+	1447.88	0.8	+	+	1449.12	1.4	+	+	1456.56	8.6	0.1	+	
18	1445.55	0.2	0.1	+	1447.92	0.8	+	+	1449.15	1.4	+	+	1456.58	8.6	+	+	
19	1445.61	0.2	+	+	1447.97	0.8	+	+	1449.17	1.4	+	+	1456.61	8.7	+	+	
20	1445.65	0.2	+	+	1448.01	0.8	+	+	1449.21	1.4	+	+	1456.67	8.8	0.1	+	
21	1445.70	0.2	+	+	1448.05	0.8	+	+	1449.23	1.4	+	+	1456.71	8.8	+	+	
22	1445.88	0.2	+	+	1448.10	0.9	0.1	+	1449.26	1.4	+	+	1456.75	8.9	+	+	
23	1445.92	0.2	+	+	1448.15	0.9	+	+	1449.30	1.5	0.1	+	1456.78	8.9	+	+	
24	1445.96	0.2	+	+	1448.26	0.9	+	+	1449.33	1.5	+	+	1456.82	9.0	0.1	+	
25	1446.05	0.2	+	+	1448.30	1.0	+	+	1449.36	1.5	+	+	1456.87	9.1	+	+	
26	1446.35	0.3	+	+	1448.33	1.0	+	+	1449.39	1.5	+	+	1456.91	9.2	0.1	+	
27	1446.42	0.3	+	+	1448.35	1.0	+	+	1449.41	1.5	+	+	1456.95	9.2	+	+	
28	1446.50	0.4	0.1	+	1448.37	1.0	+	+	1449.44	1.5	+	+	1457.01	9.3	+	+	
29	1446.63	0.4	+	+	1448.46	1.0	+	+	1449.47	1.5	+	+	1457.04	9.4	0.1	+	
30	1446.68	0.4	+	+	1448.49	1.0	+	+	1450.07	1.8	0.1	+	1457.07	9.4	+	+	
31	1446.73	0.4	+	+					1450.47	2.1	0.2	+	1457.09	9.5	+	+	
TOTAL			0.7	0.5			0.3	+			0.6	+			6.0	2.3	
Int Ac Ft			1.3				0.5				1.1				11.9		
Out Ac Ft			0.9				+				+				4.5		
Max Mean Daily Inf			0.1				0.1				0.2				1.9		
Min Mean Daily Inf			+				+				+				+		
Storage Change			0.3				0.6				1.1				7.4		

8	FEBRUARY				MARCH				APRIL				MAY				8
	Gage Height	Acce-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acce-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acce-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acce-ft Storage	CFS Inflow	CFS Outflow	
1	1457.15	9.6	0.1	+	1458.54	12.2	0.1	+	1444.75	0.1	0.1	0.1	1444.72	0.1	0.1	0.1	
2	1457.18	9.5	+	+	1458.55	12.2	+	+	1444.74	0.1	0.1	0.1	1444.72	0.1	+	+	
3	1457.21	9.5	+	+	1458.56	12.2	+	+	1444.73	0.1	0.1	0.1	1444.72	0.1	0.1	0.1	
4	1457.25	9.8	0.1	+	1458.60	12.3	+	+	1444.72	0.1	0.1	0.1	1444.72	0.1	+	+	
5	1457.28	9.8	+	+	1458.63	12.4	0.1	+	1444.72	0.1	0.1	0.1	1444.72	0.1	+	+	
6	1457.32	9.9	+	+	1458.66	12.4	+	+	1444.72	0.1	+	+	1444.72	0.1	+	+	
7	1457.36	9.9	+	+	1458.70	12.5	+	+	1444.74	0.1	+	+	1444.72	0.1	+	+	
8	1457.39	10.0	0.1	+	1458.73	12.6	0.1	+	1444.73	0.1	+	+	1445.29	0.1	0.3	0.3	
9	1457.43	10.1	+	+	1458.76	12.6	+	+	1444.74	0.1	+	+	1449.07	1.3	1.9	1.3	
10	1457.47	10.1	+	+	1458.79	12.7	+	+	1444.73	0.1	+	+	1444.90	0.1	0.3	0.9	
11	1457.52	10.2	0.1	+	1458.81	12.7	+	+	1444.73	0.1	+	+	1444.80	0.1	+	+	
12	1457.56	10.3	+	+	1458.84	12.8	0.1	+	1444.73	0.1	+	+	1444.81	0.1	+	+	
13	1457.57	10.4	0.1	+	1458.87	12.8	+	+	1444.74	0.1	+	+	1444.81	0.1	+	+	
14	1457.67	10.5	+	+	1458.89	12.9	+	+	1444.73	0.1	+	+	1444.81	0.1	+	+	
15	1457.74	10.6	0.1	+	1458.91	12.9	+	+	1444.74	0.1	+	+	1444.77	0.1	+	+	
16	1457.79	10.7	+	+	1459.11	13.3	0.2	+	1444.73	0.1	+	+	1444.76	0.1	+	+	
17	1457.82	10.8	0.1	+	1459.16	13.5	0.1	+	1444.73	0.1	+	+	1444.75	0.1	+	+	
18	1457.86	10.8	+	+	1459.19	13.5	+	+	1444.73	0.1	+	+	1444.76	0.1	+	+	
19	1457.89	10.9	+	+	1459.22	13.6	0.1	+	1444.73	0.1	+	+	1444.74	0.1	+	+	
20	1457.92	11.0	0.1	+	1459.25	13.7	+	+	1444.72	0.1	+	+	1444.76	0.1	+	+	
21	1457.97	11.0	+	+	1457.99	10.2	+	1.8	1444.72	0.1	+	+	1444.75	0.1	+	+	
22	1458.01	11.1	+	+	1458.05	10.1	+	2.5	1444.73	0.1	+	+	1444.74	0.1	0.1	0.1	
23	1458.10	11.3	0.1	+	1448.64	1.1	+	2.0	1444.72	0.1	+	+	1444.80	0.1	0.2	0.2	
24	1458.30	11.7	0.2	+	1444.82	0.1	0.1	0.7	1444.72	0.1	+	+	1444.81	0.1	0.2	0.2	
25	1458.36	11.8	0.1	+	1444.88	0.1	0.6	0.6	1444.72	0.1	+	+	1444.77	0.1	0.2	0.2	
26	1458.40	11.9	+	+	1444.76	0.1	0.1	0.1	1444.73	0.1	+	+	1444.76	0.1	0.1	0.1	
27	1458.44	12.0	0.1	+	1444.74	0.1	+	+	1444.73	0.1	+	+	1444.68	0.1	0.1	0.1	
28	1458.48	12.1	+	+	1444.74	0.1	+	+	1444.72	0.1	+	+	1444.73	0.1	+	+	
29					1444.73	0.1	+	+	1444.73	0.1	+	+	1444.74	0.1	+	+	
30					1444.73	0.1	+	+	1444.73	0.1	+	+	1444.72	0.1	+	+	
31					1444.73	0.1	+	+					1444.74	0.1	0.1	0.1	
TOTAL			1.3	+			1.6	7.7			0.5	0.5			3.7	3.7	
Int Ac Ft			2.5				3.1				0.9				7.3		
Out Ac Ft			+				15.2				0.9				7.3		
Max Mean Daily Inf			0.2				0.6				0.1				1.9		
Min Mean Daily Inf			+				+				+				+		
Storage Change			2.6				12.0				0				0		

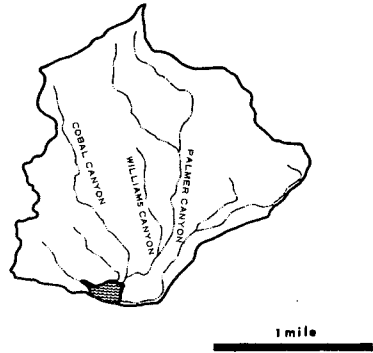
8	JUNE				JULY				AUGUST				SEPTEMBER				8
	Gage Height	Acce-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acce-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acce-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acce-ft Storage	CFS Inflow	CFS Outflow	
1	1444.73	0.1	0.1	0.1			+	+			+	+			+	+	
2	1444.71	0.1	+	+			+	+			+	+			+	+	
3	1444.08	0	+	0.1			+	+			+	+			+	+	
4	1444.06	0	+	+			+	+			+	+			+	+	
5	1444.03	0	+	+			+	+			+	+			+	+	
6	1444.00	0	0.1	0.1			+	+			+	+			+	+	
7	1444.00	0	+	+			+	+			+	+			+	+	
8	1444.00	0	+	+			+	+			+	+			+	+	
9	1444.00	0	+	+			0.1	0.1			+	+			+	+	
10	1444.00	0	+	+			0.1	0.1			+	+			+	+	
11	1444.00	0	+	+	N		0.1	0.1			N	+			+	+	
12	1444.00	0	+	+	O		0.1	0.1			O	+			+	+	
13	1444.00	0	+	+			+	+				+			+	+	
14	1444.00	0	+	+	S		+	+			S	+			+	+	
15	1444.00	0	+	+	T		+	+			T	+			+	+	
16	1444.00	0	+	+	O		+	+			O	+			+	+	
17	1444.00	0	+	+	R		+	+			R	0.4			+	+	
18	1444.00	0	+	+	A		+	+			A	0.1			+	+	



# THOMPSON CREEK DAM AND RESERVOIR



## drainage area



**PURPOSE -**  
Flood Control and Conservation

**DATE CONSTRUCTED -**  
Started September 1925 - Completed March 1928

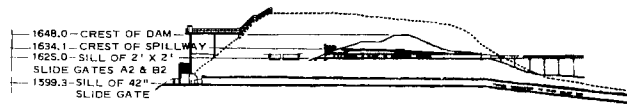
**LOCATION -** 3.0 miles north of Claremont

**DRAINAGE AREA -** 3.5 square miles

**CAPACITY -** 447.5 acre-feet

**SPILLWAY ELEVATION -** 1,634.1 feet

## cross-section



### THOMPSON CREEK DAM

#### YEARLY RESERVOIR OPERATION SUMMARY

SEASON	ANNUAL AF	INFLOW MAX-DAY CFS	MIN-DAY CFS	OUTFLOW ANNUAL AF	PEAK MC	INFLCW DAY CFS
1931-32	81	12	0	81	2	9
1932-33	0	0	0	0		0
1933-34	N.D.	N.D.	N.D.	0		N.D.
1934-35	1.0	N.D.	N.D.	0		N.D.
1935-36	0.5	N.D.	N.D.	0		N.D.
1936-37	274	24	0	0		N.D.
1937-38	1099	259	0	1096	3	2
1938-39	21	0.6	0	0	1	30
1939-40	49	4.5	0	0	1	7
1940-41	640	46	0	2.8	3	4
1941-42	0.3	+	0	0	12	10
1942-43	767	121	0	334	1	23
1943-44	286	56	0	0	2	22
1944-45	149	18	0	0	11	12
1945-46	148	25	0	0	12	23
1946-47	88	16	0	0	11	20
1947-48	0	0	0	0		0
1948-49	0	0	0	0		0
1949-50	6.2	1.6	0	0	12	19
1950-51	0	0	0	0		0
1951-52	314	30	0	34	1	16
1952-53	12	1.3	0	0	12	1
1953-54	194	19	0	0	1	25
1954-55	4.4	0.6	0	0	1	18
1955-56	58	25	0	0	1	26
1956-57	4.4	1.5	0	0	1	13
1957-58	389	34	0	219	4	3
1958-59	5.6	1.4	0	0	2	16
1959-60	2.0	0.3	0	0	4	28
1960-61	5.2	0.8	0	0	11	12
1961-62	101	9.3	0	0	11	20
1962-63	88	26	0	17	2	9
1963-64	23	4.2	0	0	3	22
1964-65	26	9.9	0	0	4	9
1965-66	258	34	0	0	11	23
1966-67	842	200	0	305	12	6
1967-68	167	6.8	0	0	11	19
1968-69	2556	279	0	2061	1	25
1969-70	54	4.8	0	1.6	3	1
1970-71	32	5.5	0	0	12	21
1971-72	6	1.3	0	0	12	27
1972-73	161	34	0	7.5	2	11
1973-74	37	10	0	37	1	7
1974-75	0	0	0	0		0
1975-76	15	3.5	0	0	02	29
1976-77	37	6.8	0	0		N.D.

N.D. = NOT DETERMINED  
+ = LESS THAN 0.05 ACRE FEET OR LESS THAN 0.05 CFS, BUT GREATER THAN 0.

**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT  
DAM OPERATION RECORD**

Thompson Creek Dam

DRAINAGE AREA ... 3.51 SQ. MI.  
CAPACITY OF RESERVOIR ... 247 ± 5 AC. FT.,  
at SPILLWAY ELEVATION ... 1634.1 FT.,  
as of February 19 59.

GAGE HEIGHTS AND STORAGE  
ARE AS OF MIDNIGHT ON DAY SHOWN.

1975-76

Day	OCTOBER				NOVEMBER				DECEMBER				JANUARY				Day
	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	
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			0	0			0	0	31
TOTAL			0	0			0	0			0	0			0	0	
Inf. Ac. Ft.			0				0				0				0		
Chff. Ac. Ft.			0				0				0				0		
Max. Mean Daily Inf.			0				0				0				0		
Min. Mean Daily Inf.			0				0				0				0		
Storage Change			0				0				0				0		

Day	FEBRUARY				MARCH				APRIL				MAY				Day
	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	
1	1595.0	0	0	0	1600.3	11.8	1.7	0			0	0			0	0	1
2	1595.0	0	0	0	1600.3	12.2	0.2	0			0	0			0	0	2
3	1595.0	0	0	0	1600.2	12.9	0.3	0			0	0			0	0	3
4	1595.0	0	0	0	1600.5	12.9	0	0			0	0			0	0	4
5	1595.0	0	0	0	1600.4	12.5	0	0			0	0			0	0	5
6	1595.0	0	0	0	1600.4	12.5	0	0			0	0			0	0	6
7	1595.0	0	0	0	1600.3	12.0	0	0			0	0			0	0	7
8	1595.0	0	0	0	1600.2	11.6	0	0			0	0			0	0	8
9	1595.0	0	0	0	1600.1	11.1	0	0			0	0			0	0	9
10	1598.0	3.8	1.9	0	1600.0	10.7	0	0			0	0			0	0	10
11	1597.9	3.6	0	0	1599.9	10.3	0	0			0	0			0	0	11
12	1597.9	3.6	0	0	1599.8	9.9	0	0			0	0			0	0	12
13	1597.8	3.4	0	0	1599.6	9.2	0	0			0	0			0	0	13
14	1597.8	3.4	0	0	1599.6	8.4	0	0			0	0			0	0	14
15	1597.7	3.2	0	0	1599.2	7.7	0	0			0	0			0	0	15
16	1597.7	3.2	0	0	1599.1	7.3	0	0			0	0			0	0	16
17	1597.6	2.9	0	0	1599.0	6.9	0	0			0	0			0	0	17
18	1597.6	2.9	0	0	1598.9	6.6	0	0			0	0			0	0	18
19	1597.5	2.7	0	0	1598.6	5.7	0	0			0	0			0	0	19
20	1597.5	2.7	0	0	1598.3	4.8	0	0			0	0			0	0	20
21	1597.4	2.5	0	0	1598.0	3.8	0	0			0	0			0	0	21
22	1597.4	2.5	0	0	1597.6	2.9	0	0			0	0			0	0	22
23	1597.3	2.3	0	0	1597.2	2.0	0	0			0	0			0	0	23
24	1597.3	2.3	0	0	1596.8	1.3	0	0			0	0			0	0	24
25	1597.2	2.0	0	0	1596.5	1.0	0	0			0	0			0	0	25
26	1597.2	2.0	0	0	1596.1	0.5	0	0			0	0			0	0	26
27	1597.1	1.8	0	0	1595.8	0.3	0	0			0	0			0	0	27
28	1597.0	1.6	0	0	1595.6	0.2	0	0			0	0			0	0	28
29	1597.4	8.4	3.5	0	1595.4	0.1	0	0			0	0			0	0	29
30					1595.2	0.1	0	0			0	0			0	0	30
31					1595.0	0	2.2	0			0	0			0	0	31
TOTAL			5.4	0			2.2	0			0	0			0	0	
Inf. Ac. Ft.			10.8				4.4				0				0		
Chff. Ac. Ft.			0 # (2.4)				0 + (12.8)				0				0		
Max. Mean Daily Inf.			3.5				1.7				0				0		
Min. Mean Daily Inf.			0				0				0				0		
Storage Change			8.4				-8.4				0				0		

Day	JUNE				JULY				AUGUST				SEPTEMBER				Day
	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	
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			0	0			0	0	31
TOTAL			0	0			0	0			0	0			0	0	
Inf. Ac. Ft.			0				0				0				0		
Chff. Ac. Ft.			0				0				0				0		
Max. Mean Daily Inf.			0														

**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT**  
**DAM OPERATION RECORD**

THOMPSON CREEK DAM  
1976-77

DRAINAGE AREA 3.51 SQ. MI.  
RESERVOIR CAPACITY 562.8 A.F.  
AT SPILLWAY ELEVATION 1634.1 FT.  
AS OF DECEMBER, 1972

DAM HEIGHTS AND STORAGES  
ARE AS OF MIDNIGHT ON DAY SHOWN

#	OCTOBER				NOVEMBER				DECEMBER				JANUARY				#
	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	
1			0	0			0	0			0	0	1595.00	0	0	0	
2			0	0			0	0			0	0	1596.06	0.5	0.3	0	
3			0	0			0	0			0	0	1600.26	11.8	6.8	0	
4			0	0			0	0			0	0	1600.19	11.5	0.9	0	
5			0	0			0	0			0	0	1600.34	12.7	1.5	0	
6			0	0			0	0			0	0	1600.46	12.7	1.4	0	
7			0	0			0	0			0	0	1600.38	12.4	1.0	0	
8			0	0			0	0			0	0	1600.17	11.4	0.4	0	
9			0	0			0	0			0	0	1599.96	10.6	0.2	0	
10			0	0			0	0			0	0	1599.71	9.1	0.1	0	
11	N	0	0	0	N	0	0	0	N	0	0	0	1599.56	9.1	0	0	
12	O	0	0	0	O	0	0	0	O	0	0	0	1599.52	8.9	0	0	
13			0	0			0	0			0	0	1599.45	8.7	0	0	
14	S	0	0	0	S	0	0	0	S	0	0	0	1599.40	8.5	0	0	
15	T	0	0	0	T	0	0	0	T	0	0	0	1599.34	8.3	0	0	
16	O	0	0	0	O	0	0	0	O	0	0	0	1599.28	8.0	0	0	
17	R	0	0	0	R	0	0	0	R	0	0	0	1599.26	8.0	0	0	
18	A	0	0	0	A	0	0	0	A	0	0	0	1599.18	7.7	0	0	
19	G	0	0	0	G	0	0	0	G	0	0	0	1599.15	7.6	0	0	
20	E	0	0	0	E	0	0	0	E	0	0	0	1599.13	7.5	0	0	
21			0	0			0	0			0	0	1599.10	7.4	0	0	
22			0	0			0	0			0	0	1599.07	7.3	0	0	
23			0	0			0	0			0	0	1599.04	7.1	0	0	
24			0	0			0	0			0	0	1599.02	7.1	0	0	
25			0	0			0	0			0	0	1599.00	7.0	0	0	
26			0	0			0	0			0	0	1599.00	7.0	0	0	
27			0	0			0	0			0	0	1599.00	7.0	0	0	
28			0	0			0	0			0	0	1598.93	6.8	0	0	
29			0	0			0	0			0	0	1598.87	6.6	0	0	
30			0	0			0	0			0	0	1598.80	6.4	0	0	
31			0	0			0	0			0	0	1598.74	6.2	0	0	
TOTAL			0	0			0	0			0	0			12.6	0	
Inl. Ac. Ft.			0	0			0	0			0	0			24.9	0	
Outl. Ac. Ft.			0	0			0	0			0	0			0	0	
Max. Mean Daily Inf.			0	0			0	0			0	0			6.8	(18.8)	
Min. Mean Daily Inf.			0	0			0	0			0	0			0	0	
Storage Change			0	0			0	0			0	0			0	0	

#	FEBRUARY				MARCH				APRIL				MAY				#
	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	
1	1598.67	5.9	0	0	1598.84	1.4	0	0			0	0	1595.00	0	0	0	
2	1598.61	5.8	0	0	1598.77	1.3	0	0			0	0	1595.00	0	0	0	
3	1598.54	5.5	0	0	1598.70	1.2	0	0			0	0	1595.00	0	0	0	
4	1598.48	5.3	0	0	1598.64	1.2	0	0			0	0	1595.00	0	0	0	
5	1598.41	5.1	0	0	1598.57	1.1	0	0			0	0	1595.00	0	0	0	
6	1598.34	4.9	0	0	1598.51	1.0	0	0			0	0	1595.00	0	0	0	
7	1598.28	4.7	0	0	1598.44	0.9	0	0			0	0	1595.00	0	0	0	
8	1598.21	4.5	0	0	1598.38	0.9	0	0			0	0	1598.00	3.8	2.4	0	
9	1598.15	4.3	0	0	1598.31	0.8	0	0			0	0	1599.00	7.0	2.6	0	
10	1598.08	4.1	0	0	1598.25	0.7	0	0			0	0	1598.90	6.7	0.7	0	
11	1598.02	3.9	0	0	1598.18	0.6	0	0			0	0	1598.78	6.3	0.2	0	
12	1597.95	3.7	0	0	1598.11	0.5	0	0	N	0	0	0	1598.60	5.7	0	0	
13	1597.89	3.6	0	0	1598.05	0.5	0	0	O	0	0	0	1598.42	5.1	0	0	
14	1597.82	3.4	0	0	1598.08	0.4	0	0	S	0	0	0	1598.24	4.6	0	0	
15	1597.75	3.3	0	0	1598.02	0.4	0	0	T	0	0	0	1598.06	4.0	0	0	
16	1597.69	3.1	0	0	1598.05	0.3	0	0	O	0	0	0	1597.88	3.5	0	0	
17	1597.62	3.0	0	0	1598.01	0.3	0	0	R	0	0	0	1597.70	3.1	0	0	
18	1597.56	2.8	0	0	1598.02	0.3	0	0	A	0	0	0	1597.52	2.7	0	0	
19	1597.49	2.7	0	0	1598.06	0.3	0	0	G	0	0	0	1597.34	2.3	0	0	
20	1597.42	2.5	0	0	1598.02	0.2	0	0	E	0	0	0	1597.16	2.0	0	0	
21	1597.36	2.4	0	0	1598.02	0.2	0	0			0	0	1598.98	1.6	0	0	
22	1597.30	2.3	0	0	1598.06	0.2	0	0			0	0	1598.80	1.4	0	0	
23	1597.23	2.1	0	0	1598.06	0.2	0	0			0	0	1598.62	1.1	0	0	
24	1597.16	2.0	0	0	1598.06	0.1	0	0			0	0	1598.44	0.9	0	0	
25	1597.10	1.8	0	0	1598.06	0.1	0	0			0	0	1598.26	0.7	0	0	
26	1597.03	1.7	0	0	1598.02	0.1	0	0			0	0	1598.08	0.5	0	0	
27	1596.97	1.6	0	0	1598.02	0.1	0	0			0	0	1598.00	0.4	0	0	
28	1596.90	1.5	0	0	1598.07	0	0	0			0	0	1598.72	0.3	0	0	
29			0	0	1598.00	0	0	0			0	0	1598.54	0.2	0	0	
30			0	0	1598.00	0	0	0			0	0	1598.36	0.1	0	0	
31			0	0	1598.00	0	0	0			0	0	1598.18	0.1	0	0	
TOTAL			0	0			0	0			0	0			5.9	0	
Inl. Ac. Ft.			0	0			0	0			0	0			11.7	0	
Outl. Ac. Ft.			0	0			0	0			0	0			0	0	
Max. Mean Daily Inf.			0	0			0	0			0	0			0	(11.5)	
Min. Mean Daily Inf.			0	0			0	0			0	0			2.6	0	
Storage Change			4.7	0			1.5	0			0	0			0	0	

#	JUNE				JULY				AUGUST				SEPTEMBER				#
	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-ft Storage	CFS Inflow	CFS Outflow	
1			0	0			0	0			0	0			0	0	
2			0	0			0	0			0	0			0	0	
3			0	0			0	0			0	0			0	0	
4			0	0			0	0			0	0			0	0	
5			0	0			0	0			0	0			0	0	
6			0	0			0	0			0	0			0	0	
7			0	0			0	0			0	0			0	0	
8			0	0			0	0			0	0			0	0	
9			0	0			0	0			0	0			0	0	
10			0	0			0	0			0	0			0	0	
11	N	0	0	0	N	0	0	0	N	0	0	0	N	0	0	0	
12	O	0	0	0	O	0	0	0	O	0	0	0	O	0	0	0	
13			0	0			0	0			0	0			0	0	
14	S	0	0	0	S	0	0	0	S	0	0	0	S	0	0	0	
15	T	0	0	0	T	0	0	0	T	0	0	0	T	0	0	0	
16	O	0	0	0	O	0	0	0	O	0	0	0	O	0	0	0	
17	R	0	0	0	R	0	0	0	R	0	0	0	R	0	0	0	
18	A	0	0	0	A	0	0	0	A	0	0	0	A	0	0	0	
19	G	0	0	0	G	0	0	0	G	0	0	0	G	0	0	0	
20	E	0	0	0	E	0	0	0	E	0	0	0	E	0	0	0	
21			0	0			0	0			0	0			0	0	
22			0	0			0	0			0	0			0	0	
23			0	0			0	0			0	0			0	0	
24			0	0			0	0			0	0			0	0	
25			0	0			0	0			0	0			0	0	
26			0	0			0	0			0	0			0	0	
27			0	0			0	0			0	0			0	0	
28			0	0			0	0			0	0			0	0	
29			0	0			0	0			0	0			0	0	
30			0	0			0	0			0	0			0	0	
31			0	0			0										

# EROSION CONTROL

## FOREWORD

Each year eroded material in various forms (trees, rock, sand, etc.) flows out of the mountain watersheds of Los Angeles County. In an effort to control this potentially disruptive force, the District maintains a series of debris basins in canyon mouths and upstream stabilization structures in selected watersheds.

## PURPOSE

The purpose of a debris basin is to entrap the debris flows emanating from the canyons and let the relatively desilted water pass into flood control channels for transportation to major watercourses. In the 1975-76 water year, 97 debris basins were in operation, 96 of which were operated and maintained by the District. This figure represents an increase of 7 debris basins over the previous year. Cassara, Denivelle, Linda Vista, Mullally, Oak, Rowley Upper, and Upper Shields were added to the list of District facilities during the year. The maximum capacity of all 97 basins is 8,663,100 cubic yards, of which 7,854,100 cubic yards were available at the end of the water year.

In the 1976-77 water year, the number of debris basins in operation decreased by 2 to 95 with the conversion of Bell Creek and Wilbur Debris Basins to inlets. Ninety-four of the basins were operated and maintained by the District. The maximum capacity of all 95 debris basins is 8,617,800 cubic yards, of which 7,753,800 cubic yards were available at the end of the water year.

Haines Debris Basin is operated and maintained by the Corps of Engineers.

## STABILIZATION STRUCTURES

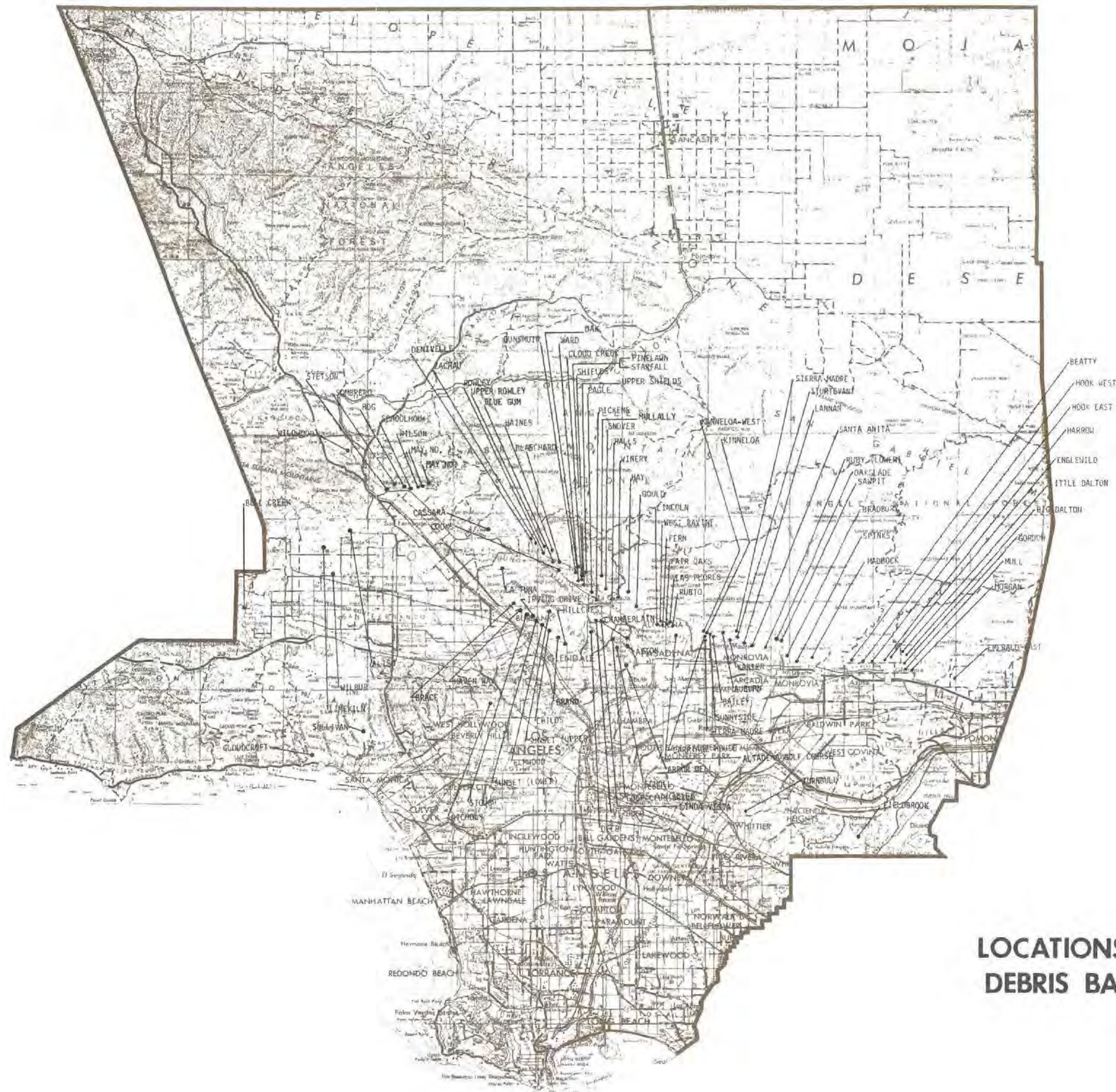
Stabilization structures are constructed to control erosion in natural canyons. They serve to prevent downcutting by stabilizing alluvium deposits. In addition, they store debris generated by the watershed and serve to stabilize side banks reducing side slope sloughing and bank erosion.

The District maintains 225 stabilization structures in 47 watersheds. No structures have been constructed since the 1973-74 water year.



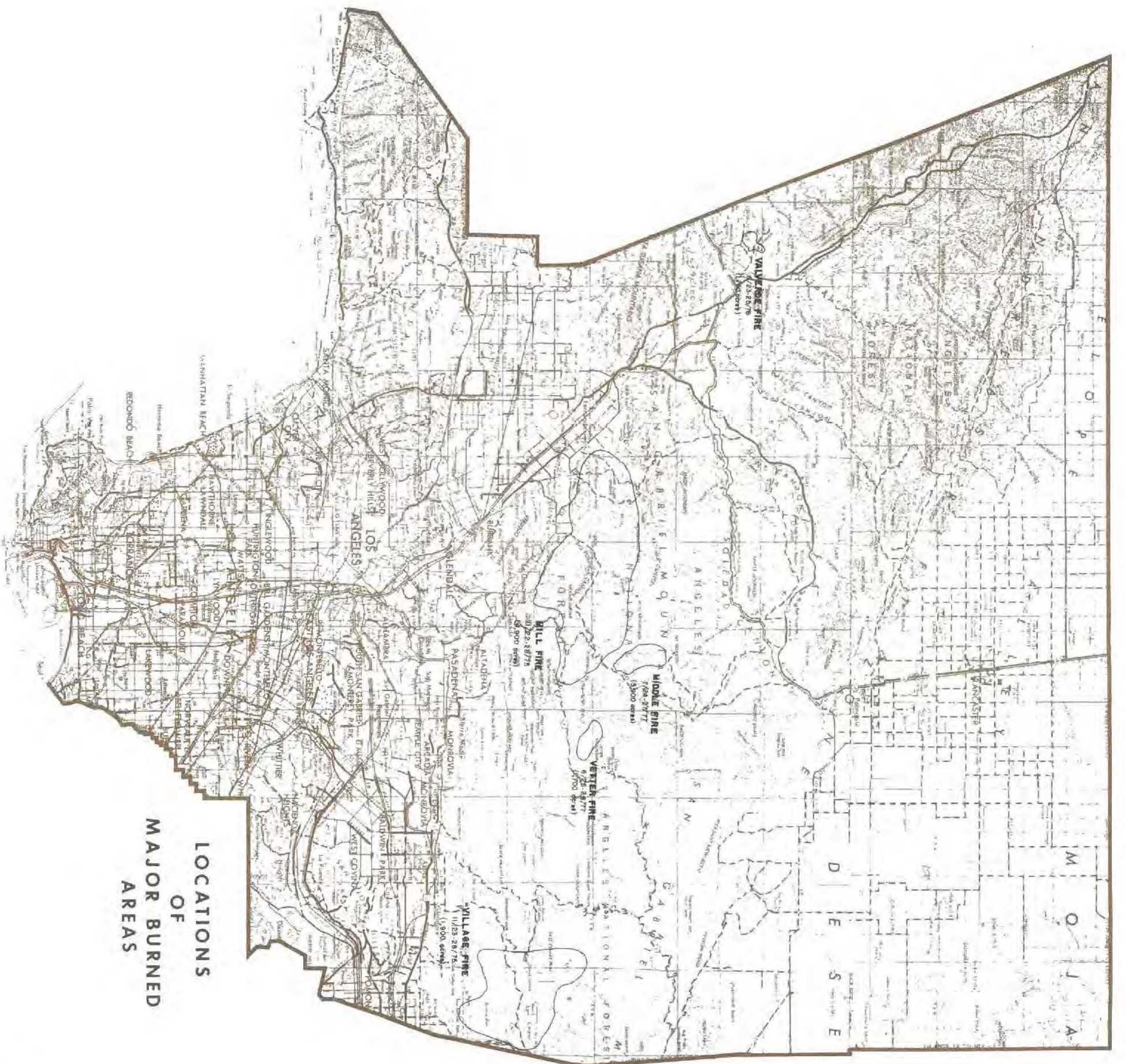
Emergency Fire Structure - Serving to Protect Downstream Development from Debris Flows





**LOCATIONS OF  
DEBRIS BASINS**





**LOCATIONS  
OF  
MAJOR BURNED  
AREAS**



# DEBRIS PRODUCTION HISTORY

## INCLUDING 1975-76 SEASON

DEBRIS BASINS	FIRST DEBRIS SEASON	NUMBER OF SEASONS	TOTAL DEBRIS DEPOSITED CU. YDS.	UNCONTROLLED DRAINAGE AREA ABOVE BASIN SQ. MI.	MAX. DEB. CAP. CU. YDS.	MAXIMUM SEASONAL DEBRIS PRODUCTION		
						CU. YDS.	CU. YDS.	CU. YDS. PER SQ. MI.
AFTON	1974-75	2	800	0.06	8,000	800	13,800	1974-75
ALISO	1970-71	6	39,800	2.77	41,700	13,100	8,900	1972-73
ALTADENA GOLF COURSE	1945-46	31	20,000	0.20	12,500	3,900	19,900	1958-59
ARBOR DELL	1971-72	5	NEG	0.11	16,800	NEG	NEG	1971-72
AUBURN	1954-55	22	49,000	0.19	46,800	20,100	105,900	1961-62
BAILEY	1945-46	31	105,600	0.60	158,100	35,800	59,600	1953-54
BEATTY	1970-71	6	1,800	0.27	56,500	1,800	6,800	1972-73
BELL CREEK (6)	1967-68	9	139,000	7.00	21,200	24,200	3,500	1968-69
BIG DALTON	1959-60	17	639,000	2.62	616,800	296,700	113,200	1968-69
BLANCHARD	1968-69	8	19,700	0.50	71,300	15,900	31,800	1968-69
BLUE GUM	1968-69	8	10,300	0.19	44,100	5,900	31,300	1975-76
BRACE	1971-72	5	3,200	0.29	24,000	3,200	7,500	1972-73
BRADBURY	1954-55	22	175,300	0.68	77,500	10,200	103,300	1968-69
BRAND	1935-36	41	154,100	1.03	208,200	39,400	38,300	1968-69
CARRIAGE HOUSE	1970-71	6	200	0.03	14,300	200	5,900	1972-73
CARTER	1954-55	22	19,600	0.12	22,000	11,200	93,000	1961-62
CASSARA	1976-77	0	(1)	0.21	24,400	(1)	(1)	(1)
CHAMBERLAIN	1974-75	2	3,900	0.04	8,100	300	9,900	1974-75
CHILDS	1963-64	13	24,200	0.31	54,000	8,200	26,600	1964-65
CLOUD CREEK	1972-73	4	700	0.02	16,800	700	32,000	1975-76
CLOUDCROFT	1973-74	3	7,400	0.21	42,000	6,100	28,900	1973-74
COOKS	1951-52	25	55,700	0.58	47,500	20,700	35,600	1951-52
DEB	1954-55	22	119,300	0.59	66,700	44,200	74,200	1968-69
DENVILLE	1976-77	0	(1)	0.18	9,900	(1)	(1)	(1)
DUNSMUIR	1935-36	41	200,100	0.84	124,500	78,200 E	93,100 E	1937-38
EAGLE	1936-37	40	148,200	0.48	72,400	41,700	68,300	1937-38
ELMWOOD	1964-65	12	18,300	0.31	66,300	12,200	39,200	1964-65
EMERALD EAST	1964-65	12	70,300	0.32	14,500	10,000	14,500	1968-69
ENGLEWILD	1961-62	15	71,400 (2)	0.40	46,000	60,200	150,500 (2)	1968-69
FAIROAKS	1935-36	41	105,300	0.21	28,500	15,700	74,800	1935-36
FERN	1935-36	41	147,500	0.30	34,000	23,900	79,600	1968-69
FIELDBROOK	1974-75	2	NEG	0.35	3,700	NEG	NEG	1974-75
GOLF CLUB DRIVE	1974-75	2	3,900	0.32	15,600	2,700	8,600	1974-75
GORDON	1973-74	3	NEG	0.18	20,300	NEG	NEG	1973-74
GOULD	1947-48	29	99,700	0.47	53,900	18,000	38,300	1965-66
HAINES	1935-36	41	180,600	1.53	158,600	31,500	31,500 E	1937-38
HALLS	1935-36	41	445,800	1.06	95,600	102,100	96,300	1937-38
HARROW	1958-59	18	70,200	0.43	89,300	64,400	147,400 (2)	1968-69
HAVEN WAY	1971-72	5	NEG	0.22	14,800	NEG	NEG	1971-72
HAY	1936-37	40	55,800	0.20	39,800	18,200	63,000 E	1937-38
HILLCREST	1962-63	14	34,900	0.35	71,700	11,700	33,300	1964-65
HOG	1969-70	7	NEG	0.30	48,100	NEG	NEG	1969-70
HOOK EAST	1968-69	8	41,200 E (2)	0.18	29,000	40,200	233,100 E (2)	1968-69
HOOK WEST	1970-71	6	NEG	0.17	45,700	NEG	NEG	1970-71
IRVING DRIVE	1974-75	2	NEG	0.03	2,400	NEG	NEG	1974-75
KINNELOA EAST	1964-65	12	38,200	0.20	18,400	17,600	88,100 (2)	1968-69
KINNELOA WEST	1966-67	10	40,400	0.16	28,800	22,200	138,500 (2)	1968-69
LANNAN	1954-55	22	79,900	0.25	55,000	18,200	73,000	1968-69
LAS FLORES	1935-36	41	160,800	38.45	63,600	38,000	80,000 E	1937-38
LA TUNA	1955-56	21	181,000	5.34	518,400	71,300	13,400	1968-69
LIMEKILN	1963-64	13	162,500	3.69	198,200	42,300	11,500	1965-66
LINCOLN	1935-36	41	114,500	0.50	42,000	28,400	56,800	1968-69
LINDA VISTA	1970-71	6	1,800	0.81	3,800	1,100	3,300	1972-73
LITTLE DALTON	1959-60	17	741,100	3.11	733,500	337,800	102,100	1968-69
MADDOCK	1954-55	22	31,300	0.25	32,600	11,000	43,800	1968-69
MAY NO. 1	1953-54	23	161,200	0.70	78,500	26,500	91,900	1966-67
MAY NO. 2	1953-54	23	20,200	0.09	15,500	6,200	68,600	1966-67
MORGAN	1964-65	12	13,600	0.60	49,000	12,900	21,500	1968-69
MULL	1973-74	3	NEG	0.15	19,000	NEG	NEG	1973-74
MULLALLY	1974-75	2	4,800	0.34	15,000	4,300	12,600	1975-76
NICHOLS	1937-38	39	100,200	0.94	32,200	24,100	25,600	1937-38
OAK	1975-76	1	1,400	0.05	7,900	1,400	28,400	1975-76
OAKLADE	1974-75	2	NEG	0.06	15,900	NEG	NEG	1974-75
PICKENS	1936-36	41	485,200	1.50	120,300	132,200	68,400	1937-38
PINELAWN	1973-74	3	1,200	0.02	8,200	1,100	55,200	1975-76
ROWLEY	1953-54	23	42,700	0.58	44,900	15,900	27,400	1975-76
ROWLEY UPPER	1976-77	0	(1)	0.31	49,000 E	(1)	(1)	(1)
RUBIO	1943-44	33	130,000	1.26	152,300	55,000	43,700	1968-69
RUBY LOWER	1955-56	21	16,800	0.28	32,400	8,300	29,700	1968-69
SANTA ANITA	1959-60	17	561,700 (2,3)	1.70	478,600	132,000	73,600	1961-62
SAWPIIT	1954-55	22	548,100 (2,4)	2.84	740,800	233,800	82,300 (2)	1968-69
SCHOLL	1945-46	31	14,700	0.66	13,700	3,500	5,200	1968-69
SCHOOLHOUSE	1962-63	14	32,000	0.28	78,600	21,600	77,200	1962-63
SHIELDS	1937-38	39	108,300	0.03	47,200	35,100	130,200	1937-38
SIERRA MADRE	1927-28	49	307,300	2.39	160,000	95,200	39,800 (2,5)	1968-69
SIERRA MADRE VILLA	1957-58	19	388,400	1.46	490,900	118,600	81,200	1961-62
SNOVER (6)	1936-37	37	73,500	0.23	37,900	21,100	33,300	1938-39
SOMBRERO	1969-70	7	NEG	1.06	87,100	NEG	NEG	1969-70
SPINKS	1958-59	18	41,100	0.44	64,600	16,400	37,200	1968-69
STARFALL	1973-74	3	5,300	0.13	32,100	3,600	27,400	1975-76
STETSON	1969-70	7	1,200	0.29	48,100	1,200	4,100	1969-70
STOUGH	1940-41	36	131,800	1.65	186,700	44,100	26,700	1964-65
STURTEVANT	1967-68	9	700	0.03	2,300	300	11,200	1968-69
SULLIVAN	1970-71	6	13,300	2.38	62,900	11,600	4,900	1972-73
SUNNYSIDE	1970-71	6	100	0.02	4,400	100	5,200	1972-73
SUNSET (LOWER)	1963-64	13	64,400	0.65	221,500	19,500	30,000	1963-64
SUNSET (UPPER)	1928-29	48	80,800	0.44	17,700	27,000	61,400	1964-65
TURNBULL	1952-53	24	36,200	0.99	27,300	15,900	16,000 (2)	1968-69
UPPER SHIELDS	1976-77	0	(1)	0.20	7,800	(1)	(1)	(1)
VERDUGO	1935-36	41	645,200	9.40	155,500	105,400	9,900	1937-38
WARD	1956-57	20	20,800	0.10	14,400	5,200	51,900	1957-58
WEST Ravine	1935-36	41	140,600	0.25	52,700	29,900	119,500	1937-38
WILBUR (6)	1942-43	34	482,900	5.86	45,500	61,700	7,100	1951-52
WILDWOOD	1967-68	9	30,000	0.65	23,400	16,000	24,600 (2)	1968-69
WILSON	1962-63	14	165,800	2.58	363,000	55,500	21,500	1968-69
WINERY	1968-69	8	11,000	0.18	32,500	9,400	52,200	1968-69
ZACHAU	1956-57	20	28,600	0.35	36,700	10,300	29,400	1968-69
<b>97 DEBRIS BASINS</b>			<b>9,572,100</b>		<b>8,663,100</b>			

**E ESTIMATE**

- (1) NEW DEBRIS BASINS.
- (2) VOLUME OF DEBRIS DEPOSITED IN BASIN DOES NOT INCLUDE DEBRIS WHICH PASSED OVER SPILLWAY DURING THE STORMS IN 1968-69 SEASON.
- (3) INCLUDES DEBRIS FROM SANTA ANITA DAM.
- (4) INCLUDES DEBRIS SLICED FROM SAWPIIT DAM.
- (5) VOLUME OF DEBRIS DEPOSITED IN SIERRA MADRE DOES NOT INCLUDE DEBRIS SLICED THROUGH OPEN PORTS OR NOTCH.
- (6) BASINS WILL BE ALLOWED TO FILL WITH DEBRIS AND ACT AS AN INLET STRUCTURE.

# DEBRIS PRODUCTION HISTORY

## INCLUDING 1976-77 SEASON

DEBRIS BASINS	FIRST DEBRIS SEASON	NUMBER OF SEASONS	TOTAL DEBRIS DEPOSITED CU. YDS. (1)	UNCONTROLLED DRAINAGE AREA ABOVE BASIN SQ. MI.	MAX. DEB. CAP. CU. YDS.	MAXIMUM SEASONAL DEBRIS PRODUCTION			SEASON
						CU. YDS.	SQ. MI.	CU. YDS. PER SQ. MI.	
AFTON	1974-75	3	800	0.06	8,000	800	13,800	1974-75	
ALISO	1970-71	7	39,900	2.77	41,700	19,100	6,900	1972-73	
ALTADENA GOLF COURSE	1945-46	32	29,000	0.20	12,500	3,800	18,900	1958-59	
ARBOR DELL	1971-72	6	NEG	0.11	16,800	NEG	NEG	1971-72	
AUBURN	1954-55	23	48,700	0.18	46,300	20,100	105,900	1961-62	
BAILEY	1943-38	22	105,600	0.60	158,000	35,800	59,600	1953-54	
BEATTY	1970-71	7	1,800	0.27	54,700	1,800	6,800	1972-73	
BIG DALTON	1959-60	18	639,000	2.62	616,900	296,700	113,200	1968-69	
BLANCHARD	1968-69	9	24,300	0.50	81,200	15,900	31,800	1968-69	
BLUE GUM	1968-69	9	14,300	0.19	48,300	5,900	31,300	1975-76	
BRACE	1971-72	6	3,200	0.23	24,000	2,200	7,500	1972-73	
BRADBURY	1954-55	23	175,300	0.68	90,000	70,200	103,300	1968-69	
BRAND	1935-36	42	154,100	1.03	208,200	30,400	38,300	1968-69	
CARRIAGE HOUSE	1970-71	7	200	0.03	14,300	200	5,900	1972-73	
CARTER	1954-55	23	19,600	0.12	22,000	11,200	93,000	1961-62	
CASSARA	1976-77	1	NEG	0.21	32,600	NEG	NEG	1976-77	
CHAMBERLAIN	1974-75	3	300	0.04	8,100	300	7,900	1974-75	
CHILDS	1963-64	14	24,200	0.31	54,000	8,200	26,600	1964-65	
CLOUD CREEK	1972-73	5	700	0.02	19,800	700	33,000	1975-76	
CLOUDBROFT	1973-74	4	7,400	0.21	42,000	6,100	28,900	1973-74	
COOKS	1951-52	26	55,800	0.58	47,500	20,700	35,600	1951-52	
DEER	1954-55	23	119,300	0.59	66,700	44,200	74,900	1968-69	
DENIVILLE	1976-77	1	NEG	0.18	9,800	NEG	NEG	1976-77	
DUNSMUIR	1935-36	42	203,900	0.84	124,500	78,200	93,100	1937-38	
EAGLE	1936-37	41	153,300	0.48	72,400	41,700	68,300	1937-38	
ELMWOOD	1964-65	13	19,300	0.31	66,300	12,200	38,200	1964-65	
EMERALD EAST	1964-65	13	4,900	0.32	14,500	1,600	10,000	1968-69	
ENGLEWILD	1961-62	16	71,400 (2)	0.40	46,000	60,200	150,500 (2)	1968-69	
FAIR OAKS	1935-36	42	105,300	0.21	28,500	15,700	74,800	1935-36	
FERN	1935-36	42	147,500	0.30	34,000	23,900	79,600	1968-69	
FIELDBROOK	1974-75	3	NEG	0.35	37,000	NEG	NEG	1974-75	
GOLF CLUB DRIVE	1970-71	7	7,000	0.32	15,600	3,100	9,600	1976-77	
GORDON	1973-74	4	NEG	0.18	20,300	NEG	NEG	1973-74	
GOULD	1947-48	30	103,000	0.47	53,900	18,000	38,300	1965-66	
HAINES	1935-36	42	188,000	1.53	158,600	51,500	33,700	1937-38	
HALLS	1935-36	42	456,900	1.06	95,600	102,100	95,300	1937-38	
HARROW	1958-59	19	70,200 (2)	0.43	86,300	63,400	147,400 (2)	1968-69	
HAVEN WAY	1971-72	6	6,300	0.22	14,600	1,300	1,300	1976-77	
HAY	1936-37	41	55,700	0.20	39,800	18,200	63,000	1937-38	
HILLCREST	1962-63	15	34,900	0.35	71,700	11,700	33,300	1964-65	
FOG	1969-70	8	NEG	0.30	48,100	NEG	NEG	1969-70	
HOOK EAST	1968-69	9	41,200 (2)	0.18	29,000	40,200	223,100 (2)	1968-69	
HOOK WEST	1970-71	7	NEG	0.17	45,700	NEG	NEG	1970-71	
IRVING DRIVE	1974-75	3	NEG	0.03	2,500	NEG	NEG	1974-75	
KINNELDA	1964-65	13	41,200 (2)	0.20	18,400	17,600	89,100 (2)	1968-69	
KINNELDA WEST	1966-67	11	45,800 (2)	0.16	28,800	22,200	138,500 (2)	1968-69	
LANNAN	1954-55	23	70,900	0.25	56,500	18,200	73,000	1969-70	
LAS FLORES	1935-36	42	160,800	0.45	63,600	36,000	80,000	1937-38	
LA TUNA	1955-56	22	182,900	5.34	518,400	71,300	13,400	1968-69	
LIMEKILN	1963-64	14	162,100	3.69	198,200	42,300	11,500	1965-66	
LINCOLN	1935-36	42	114,300	0.50	42,000	28,400	56,800	1968-69	
LINDA WATA	1970-71	7	2,200	0.37	4,000	1,300	3,900	1972-73	
LITTLE DALTON	1959-60	18	741,100	3.31	733,500	337,800	102,100	1968-69	
MADDOCK	1954-55	23	31,300	0.25	32,600	11,000	43,800	1968-69	
MAY NO. 1	1953-54	24	182,600	0.70	78,500	26,300	91,900	1966-67	
MAY NO. 2	1953-54	24	23,600	0.09	15,500	6,200	68,600	1968-67	
MORGAN	1964-65	13	13,600	0.60	49,000	12,900	21,500	1968-69	
MULL	1973-74	4	NEG	0.15	19,500	NEG	NEG	1973-74	
MULLALLY	1974-75	3	13,100	0.34	14,100	8,300	24,400	1976-77	
NICHOLS	1937-38	40	101,700	0.34	32,200	21,800	23,200	1951-52	
OAK	1975-76	2	3,500	0.05	8,900	2,100	41,300	1976-77	
OAKGLADE	1974-75	3	NEG	0.06	15,900	NEG	NEG	1974-75	
PICKENS	1935-36	42	514,600	1.50	120,300	122,200	66,400	1937-38	
PINELAWN	1973-74	4	2,400	0.27	7,400	1,200	60,000	1976-77	
ROWLEY	1953-54	24	47,400 (3)	0.22	44,800	15,800	27,400	1975-76	
ROWLEY UPPER	1976-77	1	8,800	0.31	36,500	8,800	28,400	1976-77	
RUBIO	1943-44	34	133,800	1.26	152,300	55,000	43,700	1968-69	
RUBY LOWER	1955-56	22	16,800	0.28	32,400	8,300	29,700	1968-69	
SANTA ANITA	1959-60	18	561,700 (2,3)	1.70	478,600	132,000	77,600 (2,3)	1961-62	
SAWPIT	1954-55	23	548,100 (2,3)	2.84	740,800	233,800	82,300 (2,3)	1968-69	
SCHOLL	1945-46	32	15,100	0.66	13,700	3,500	5,200	1968-69	
SCHOOLHOUSE	1962-63	15	32,000	0.28	78,600	21,600	77,200	1962-63	
SHIELDS	1937-38	40	114,800 (3)	0.03	40,000	35,100	130,200	1937-38	
SIERRA MADRE	1927-28	50	307,300	2.39	160,000	95,200	39,800 (2)	1968-69	
SIERRA MADRE VILLA	1957-58	20	388,400	1.46	490,900	118,600	81,200	1961-62	
SNOVER (4)	1936-37	41	74,400	0.23	37,900	21,100	91,700	1938-39	
SOMBRERO	1969-70	8	NEG	1.06	97,100	NEG	NEG	1969-70	
SPINKS	1958-59	19	41,100	0.44	64,600	16,400	37,200	1968-69	
STARFALL	1973-74	4	9,700	0.13	32,100	4,400	33,700	1976-77	
STETSON	1969-70	8	1,200	0.20	48,100	1,200	4,100	1969-70	
STOUGH	1940-41	37	131,800	1.65	186,700	44,100	26,700	1964-65	
STURTEVANT	1967-68	10	700	0.03	2,700	300	11,200	1968-69	
SULLIVAN	1970-71	7	13,300	2.38	62,900	11,600	4,900	1972-73	
SUNNYSIDE	1970-71	7	100	0.02	4,400	100	5,200	1972-73	
SUNSET (LOWER)	1963-64	14	64,400	0.85	221,500	19,300	30,000	1963-64	
SUNSET (UPPER)	1928-29	49	82,100	0.44	17,700	27,000	61,400	1964-65	
TURNBULL	1952-53	25	36,200	0.39	27,300	15,900	16,000 (2)	1968-69	
UPPER SHIELDS	1976-77	1	8,000	0.20	6,900	8,000	39,900	1976-77	
VERDUGO	1935-36	42	646,700	9.40	155,500	105,400	9,900	1937-38	
WARD	1956-57	21	22,600	0.12	13,300	5,200	51,900	1957-58	
WEST Ravine	1935-36	42	140,600	0.25	52,700	29,900	119,500	1937-38	
WILDWOOD	1967-68	10	31,000	0.65	23,400	16,000	24,600	1968-69	
WILSON	1962-63	5	163,800	2.58	363,000	55,500	21,500	1968-69	
WINERY	1968-69	9	11,200	0.18	32,500	9,400	52,200	1968-69	
ZACHAU	1956-57	21	43,000	0.35	44,000	16,300	46,600	1975-76	
<b>95 DEBRIS BASINS</b>			<b>9,237,100</b>		<b>8,617,800</b>				

- (1) VOLUME OF DEBRIS DEPOSITED IN BASINS DOES NOT INCLUDE DEBRIS SLICED THROUGH OPEN PORTS OR NOTCH.
- (2) VOLUME OF DEBRIS DEPOSITED DOES NOT INCLUDE DEBRIS WHICH PASSED OVER SPILLWAY DURING THE STORMS IN 1968-69 SEASON.
- (3) INCLUDES DEBRIS FROM UPSTREAM BASIN OR DAM.
- (4) BEING ALLOWED TO FILL WITH DEBRIS AND ACT AS AN INLET STRUCTURE.



# WATER QUALITY

## WATER QUALITY OBLIGATION

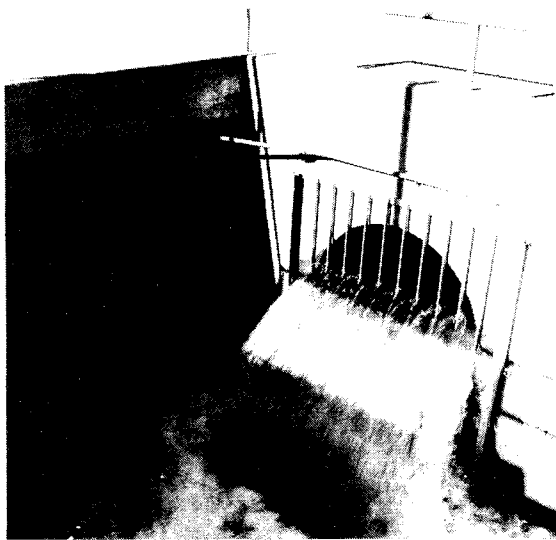
The District, created by an act of State Legislation, is held with the responsibility of controlling flood, storm, and other waste water, and to conserve these waters for beneficial and useful purposes by spreading, storing, retaining, or to cause percolation into the soil within its jurisdictional area.

To successfully fulfill these obligations, this District has found it necessary to concern itself not only with the quantities of the various conservable waters, but with their respective qualities as well.

Since its conception, this District has actively engaged in operations which have proven indispensable in preserving the integrity of our water resources, and has aided in the establishment of regulations or controlling criteria by those agencies so empowered.

## WATER QUALITY ACTIVITIES

District activities in the field of water quality control are carried out by the Water Conservation Division, Water Quality Section. These activities include the collection of water quality samples, their analyses, and the interpretation and reporting of the resulting data. Areas of involvement include the monitoring of all groundwater basins through the sampling of numerous wells, the monitoring of storm and low water flows at various strategic locations on the major stream or channels, and an assumed or obligated duty to monitor the quality effects and subsurface travel of applied storm, imported and reclaimed water at this District's Whittier Narrows Spreading Grounds areas.



Conserving Reclaimed Water at San Gabriel Coastal Basin Spreading Grounds Headworks

The Water Quality Section, together with personnel of other District Divisions, also conducts investigations into pollutional problems, particularly those manifested from industrial discharges, vehicle accidents, ruptured pipelines, or from the indiscriminate dumping of various waste products.

The principal objectives of these investigations are to determine the degree and apparent source or origin of the pollution and to take the necessary action that will immediately abate the existing problem and possibly provide a means to prevent recurrence.

## SURFACE WATER QUALITY

The Surface Water Quality Monitoring Program involves the sampling of dry weather flows of the principal water conveyance systems within the County area. Currently, samples are collected at 31 stations located on the Los Angeles River, San Gabriel River, Santa Clara River, Rio Hondo Channel, Coyote Creek, Dominguez Channel, Ballona Creek, Centinela Creek, San Jose Creek, Topanga Canyon Channel, Malibu Creek, and Kenter Avenue Drain. Samples are collected monthly at each station and analyzed by the District's Water Quality Laboratory for major minerals, total dissolved solids (TDS), total hardness, electrical conductivity, pH, dissolved oxygen demand, coliform, fecal coliform, and enterococci. In addition to these constituents, residual chlorine is also determined at selective locations as well as an annual analysis for trace metals.

A selective list of total dissolved solids is shown (Table 1) for some of the sampling locations on the streams and channels monitored under the Surface Water Quality Program. For a conception of the analysis performed on surface flows, a yearly compilation of constituent determination is shown (Table 2) for one (Los Angeles River at 6th Street) of the 31 stations sampled.

To achieve an even greater insight into surface water quality, this District has recently supplemented the monthly monitoring program by including within this program a series of scheduled investigation tours on each of the major conveyance systems.

This work consists basically of traversing each of the principal streams and channels for compliance to existing water quality standards. Observations are also conducted on tributary systems, and the respective drainage areas.

## STORM WATER QUALITY

The annual Storm Water Quality Program is a comprehensive sampling of major storm flows at many locations throughout the County. The samples are analyzed by the Water Quality Laboratory for major minerals, electrical conductivity,

suspended solids, pH, dissolved oxygen, biochemical oxygen demand, coliform, fecal coliform, enterococci, pesticides, herbicides, trace metals, oil and grease, chemical oxygen demand, and nutrients levels.

In addition, storm samples are taken at various gaging stations and spreading grounds. The flow data is recorded at the time each sample is taken and these samples are analyzed for electrical conductivity.

## **GROUND WATER QUALITY**

The annual sampling of water wells, under a selected scheduling, in five major basins in Los Angeles County comprise the Ground-Water Quality Program. The program, initiated in 1970, is coordinated with the State of California Department of Water Resources and the City of Los Angeles Department of Water and Power.

These agencies participate in the obtainment and analysis of samples. All the water wells sampled are active production wells used either for municipal supply, irrigation, or for industrial purposes and are selected to represent a general portrayal of basin water quality conditions. The samples taken under this program are analyzed for major mineral, total dissolved solids, electrical conductivity, pH and, in some cases, phosphate, iron, manganese, flouride, or boron.

## **WATER QUALITY DATA ACCESSIBILITY**

Data acquired from programs is on file in the Water Quality Section. Also, with the exception of TDS and bacteria, most data has been processed by the Department of Water Resources and is available on their computer generated listings. In addition, all data will be accessible to any user through STORET, an Environmental Protection Agency computer system that stores, retrieves, and manipulates data using agency code 21CALAFD.

**WATER CONSERVATION DIVISION**  
**SURFACE WATER QUALITY MONITORING**  
**SELECTED SURFACE STATION**  
**TABLE 1**  
**TOTAL DISSOLVED SOLIDS-Mg/L**  
**1975-1976 SEASON**

Sampling Location	July 1975	Aug. 1975	Sept. 1975	Oct. 1975	Nov. 1975	Dec. 1975	Jan. 1976	Feb. 1976	Mar. 1976	April 1976	May 1976	June 1976	Average Value
<b>Ballona Creek at</b>													
Sawtelle Blvd.	569	1317	11735	1867	1564	1368	1361	1867	1432	1419	1507	1673	1454
Centinela Ave.	848	1396	1923	3877	3762	2602	1763	1516	1681	1563	1602	1496	2002
<b>Coyote Creek at</b>													
Leffingwell Rd.	933	851	908	884	834	968	954	830	746	860	767	767	859
Valley View St.	1109	1100	1092	1148	972	632	1018	1010	803	727	1084	1091	982
Willow St.	1141	1101	1149	1294	1300	1121	1400	1689	1671	1212	1436	969	1290
<b>Dominguez Channel</b>													
Above Vermont Ave.	662	574	636	775	671	583	623	578	-	569	536	606	619
<b>Los Angeles River at</b>													
Tujunga Ave.	870	866	809	893	793	792	962	984	-	1009	905 <sup>2)</sup>	877	886
Downey Rd.	1036	1117	1033	976	966	947	1180	909	-	872	816 <sup>2)</sup>	867	990
Willow St.	815	943	936	941	982	1028	1061	910	-	967	-	909	949
<b>Malibu Creek at</b>													
Cross Creek Rd.	1376	1396	1462	1520	1547	1407	1499	1366	1089	1224	1329	1230	1370
<b>Rio Hondo Channel at</b>													
Southern Avenue	841	804	1232	837	707	631	828	648	-	2775	725	489	956
<b>Santa Clara River at</b>													
Highway 99	1095	1557	1134	1312	1212	1259	1341	1322	-	1385	1380	1161	1242
<b>San Gabriel River at</b>													
Spreading Grounds	376	661	354	737	320	480	362	334	342	-	-	629	460
Willow St.	975	1074	1013	1030	1062	1159	963	1021	1002	919	1016	950	1015
<b>San Jose Creet at</b>													
Workman Mill Rd.	983	928	956	801	870	850	797	1135	818	871	973	915	908

1) Influenced by tide water, not included in average  
2) Influenced by storm water, not included in average

WATER CONSERVATION DIVISION  
**SURFACE WATER QUALITY MONITORING**  
 SELECTED SURFACE STATION

**TABLE 2**  
**TOTAL DISSOLVED SOLIDS-Mg/L**  
**1976-1977 SEASON**

Sampling Location	July 1976	Aug. 1976	Sept. 1976	Oct. 1976	Nov. 1976	Dec. 1976	Jan. 1977	Feb. 1977	Mar. 1977	April 1977	May 1977	June 1977	Average Value
Ballona Creek at													
Sawtelle Blvd.	1302	870	912	838	985	899	921	1004	465 <sup>1)</sup>	980*	1180*	1044*	946
Centinela Ave.	No Flow	1379	2807	895	3437	3338	7502	2199	319 <sup>1)</sup>	1865*	No Flow	1015	2476
Coyote Creek at													
Leffingwell Rd.	711	678	724	700	664	547	529	671	247 <sup>1)</sup>	684*	543*	684*	615
Valley View St.	1009	1427	796	1069	906	1119	1022	1027	249 <sup>1)</sup>	938*	792*	932*	943
Willow St.	1232	1453	1414	1448	1217	1181	1130	1287	360 <sup>1)</sup>	1649*	-	1701*	1279
Dominguez Channel													
Above Vermont Ave.	622	570	559	7850 <sup>3)</sup>	1582	14999 <sup>3)</sup>	327 <sup>2)</sup>	657	21947 <sup>3)</sup>	772	866*	995*	-
Los Angeles River at													
Tujunga Ave.	-	741	741	-	798	898	497 <sup>2)</sup>	773	1111	-	949*	970*	831
Downey Rd.	883	1140	921	846	892	915	544 <sup>2)</sup>	1097	1003	1183	967*	923*	943
Willow St.	852	891	759	890	882	1013	404 <sup>2)</sup>	861	1044	1106	1106*	791*	876
Malibu Creek at													
Cross Creek Rd.	1315	-	1466	-	1374	1365	1144	1227	1052	1232*	1100*	1308*	1258
Rio Hondo Channel at													
Southern Avenue	718	1144	993	881	562	No Flow	351 <sup>2)</sup>	605	853	721	591*	1360*	831
Santa Clara River at													
Highway 99	1245	1195	1246	1561	1498	1553	1423	1439	1478	1949	1370*	1160*	1426
San Gabriel River at													
Spreading Grounds	-	-	402	739	523 <sup>1)</sup>	760	618	635	171 <sup>1)</sup>	694*	617*	694*	585
Willow St.	993	989	961	932	927	920	923	1051	952 <sup>1)</sup>	882*	761*	965*	938
San Jose Creek at													
Workman Mill Rd.	923	940	837	862	879	881	873	967	276 <sup>1)</sup>	732*	1080*	644*	824

1) Sampled during rainfall of 11/12/76 and 3/17/77  
 2) Influenced by storm water runoff occurring 1/3/77

3) Influenced by tide water  
 \* Total dissolved solids (evaporation)

**WATER CONSERVATION DIVISION**  
**WATER QUALITY ANALYSIS**  
**MONTHLY MONITORING 1975-1976**

**TABLE 3**

**LOS ANGELES RIVER AT DOWNEY ROAD**

CONSTITUENT mg/l	July 1975	Aug. 1975	Sept. 1975	Oct. 1975	Nov. 1975	Dec. 1975	Jan. 1976	Feb. 1976	Mar. 1976	April 1976	May 1976	June 1976	AVERAGE
Hardness	402	457	420	422	412	395	510	379	-	385	291	372	415
Calcium	105.3	120.0	106.0	108.0	105.0	105.0	133.0	97.8	-	97.7	93.0	94.4	107.9
Magnesium	33.6	38.1	33.9	38.0	34.5	32.2	43.3	32.7	-	34.3	13.9	32.6	35.3
Sodium	161.0	142.0	149.0	120.0	132.0	132.0	156.0	129.0	-	110.0	135.0	111.0	134.0
Potassium	6.4	7.3	10.2	9.0	8.0	9.6	7.2	10.4	-	7.6	10.9	7.5	8.3
Ammonium	0.0	0.0	0.16	0.0	0.12	0.18	0.17	0.0	-	0.35	8.54	0.16	0.11
1)													
Hydroxide	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbonate	12	-	0	0	0	0	0	0	-	0	0	0	1
Bicarbonate	276	349	275	279	271	236	316	257	-	251	113	264	277
Sulfate	257	309	274	293	269	265	314	220	-	235	277	227	266
Chloride	181	145	171	117	125	136	190	145	-	120	122	119	145
Nitrate	0.5	3.2	2.4	9.1	14.7	21.3	17.3	10.2	-	14.3	36.3	7.1	10.0
Phosphate (P)	1.13	1.21	1.73	1.63	1.04	3.26	1.17	2.38	-	0.65	1.26	1.24	1.54
Total Ions	1,036	1,117	1,033	976	966	947	1,180	909	-	872	816	867	990
CO	10.6	9.0	7.3	4.0	10.2	7.4	9.1	7.5	-	10.7	-	9.7	8.6
BOD	13.0	3.0	9.0	3.0	3.0	3.0	5.0	5.0	-	8.0	66.0	5.0	6.7
COD	44	43	49	36	24	53	35	45	-	61	322	46	44
Per/100ml													
Fecal Coli	1,900	1,200	1,600	4,200	480	5,000	10,000	700	-	540	5,400	320	2,590
Total Coli	33,400	40,000	37,000	34,000	21,000	30,000	91,000	18,000	-	5,900	16,000	2,700	31,300
Fecal Strep	34,700	9,100	5,500	15,200	1,900	9,600	7,000	1,700	-	6,900	76,300	8,200	10,000
pH	8.5	8.4	8.3	8.2	8.2	7.9	7.9	8.1	-	8.5	7.5	8.3	8.2
Temp. F	64.0	70.0	64.0	67.0	62.0	57.0	45.0	55.0	-	58.0	61.0	66.0	61.0

1) Hydroxide parameter no longer in use  
2) Influenced by storm; not included in averages  
3) No sample taken

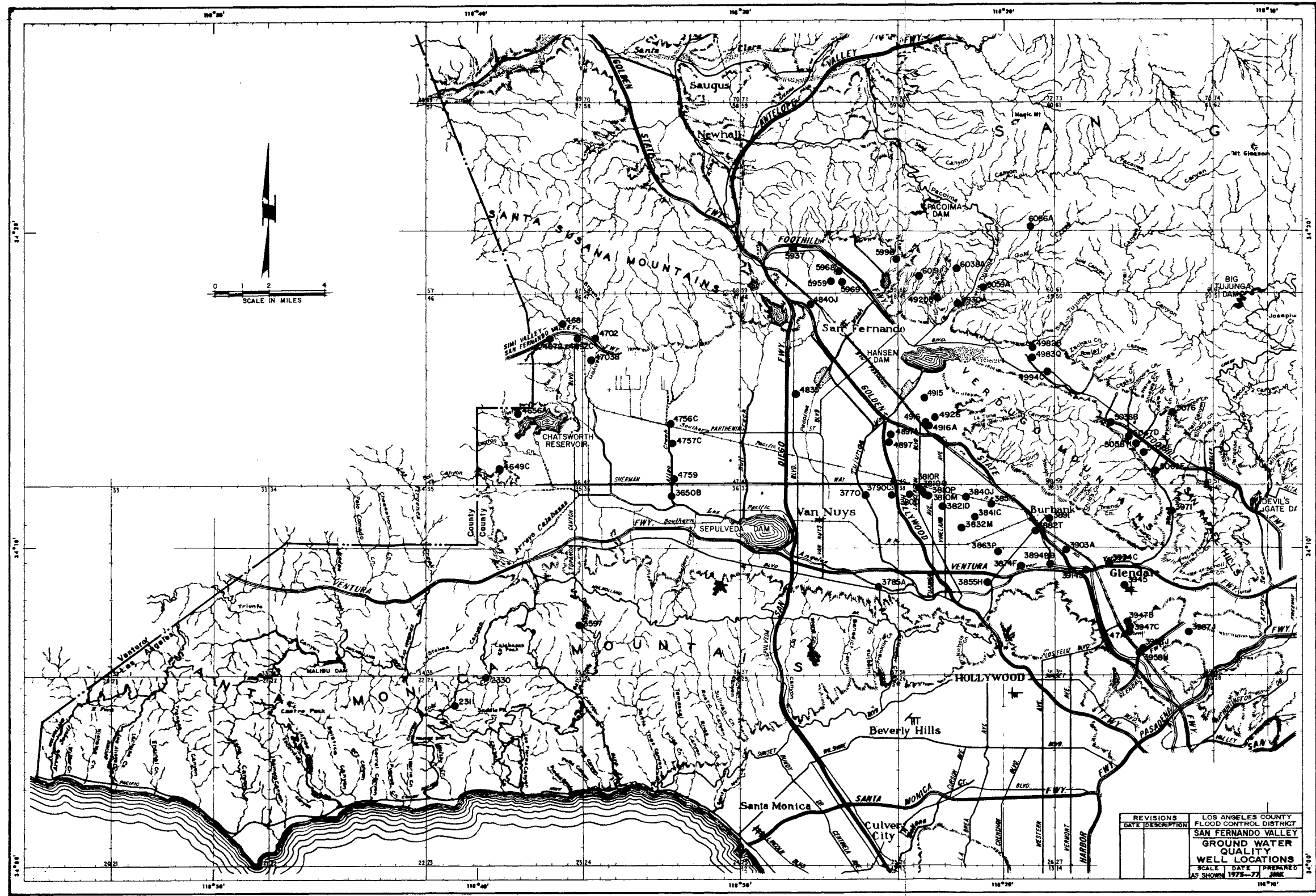
**WATER CONSERVATION DIVISION**  
**WATER QUALITY ANALYSIS**  
**MONTHLY MONITORING 1976-1977**

**TABLE 4**

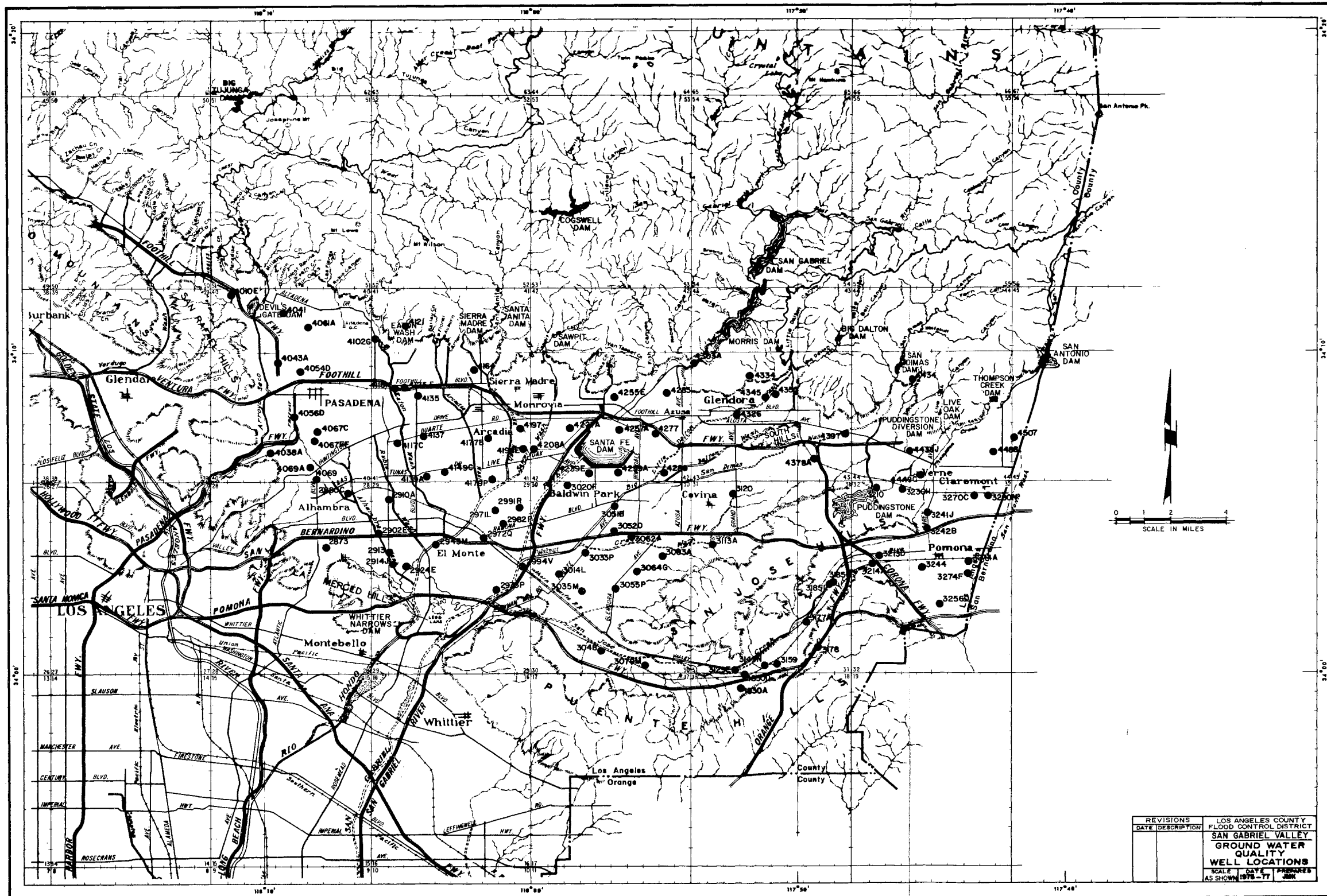
**LOS ANGELES RIVER AT DOWNEY ROAD**

CONSTITUENT mg/l	July 1976	Aug. 1976	Sept. 1976	Oct. 1976	Nov. 1976	Dec. 1976	Jan.* 1977	Feb. 1977	Mar. 1977	April 1977	May 1977	June 1977	AVERAGE
Hardness	366	481	290	367	387	381	239	382	361	471	-	-	372.5
Calcium	95.2	116.0	97.6	93.7	103.0	102.0	67.2	102.0	93.4	126.0	-	-	99.6
Magnesium	30.7	45.7	35.4	32.2	31.3	30.8	17.4	31.0	31.1	37.9	-	-	32.4
Sodium	118.0	161.0	113.0	101.0	113.0	116.0	58.8	200.0	150.0	170.0	-	-	130.1
Potassium	8.8	7.1	9.7	7.5	8.9	8.3	7.1	8.4	13.9	12.0			9.2
Ammonium	0.12	0.23	0.00	0.12	0.90	2.10	1.90	0.99	6.21	0.18	0.00	0.23	1.08
Hydroxide	0	0	0	0	0	0	0	0	0	0	0	0	0
Carbonate	0	0	0	0	0	0	0	0	0	0	0	0	0
Bicarbonate	243	314	289	267	264	234	173	239	196	184	206	269	239.8
Sulfate	230	282	252	218	244	255	145	240	294	416	334	292	266.8
Chloride	147	209	114	104	111	120	61	264	164	168	157	130	145.8
Nitrate	4.6	1.3	4.0	17.8	11.6	38.0	10.0	1.8	43.6	62.5	31.9	32.0	21.6
Phosphate (P)	1.96	1.24	1.99	1.57	1.34	2.71	0.85	3.26	3.26	2.09	2.22	0.75	1.94
Total Ions	883	1,140	921	846	892	915	544	1,097	1,003	1,183	-	-	942.4
DO	7.4	8.0	4.5	7.7	13.8	10.0	8.2	7.5	9.5	14.5	7.7	8.1	8.9
BOD	7.0	6.0	3.0	4.0	1.0	4.0	9.0	56.0	14.0	4.0	12.0	8.0	10.7
COD	66	51	55	35	36	41	58	90	60	45	104	36	57.8
Per/100ml													
Fecal Coli	700	860	310	1,200	3,200	1,600	2,600	60,000	360	960	3,600	10,200	7,132.5
Total Coli	7,100	11,100	6,000	15,400	20,000	16,800	30,600	13,900	29,900	42,000	65,000	224,000	40,150.0
Fecal Strep	1,200	1,400	500	2,700	4,800	2,000	58,000	69,900	5,100	1,300	5,100	3,000	12,916.7
pH	8.4	8.3	8.0	8.0	8.8	8.0	8.0	7.8	8.0	8.5	8.1	8.4	8.2
Temp. F	67	68	70	65	62	50	50	50	46	54	60	69	59.3

\* Influenced by storm of 1/3/77



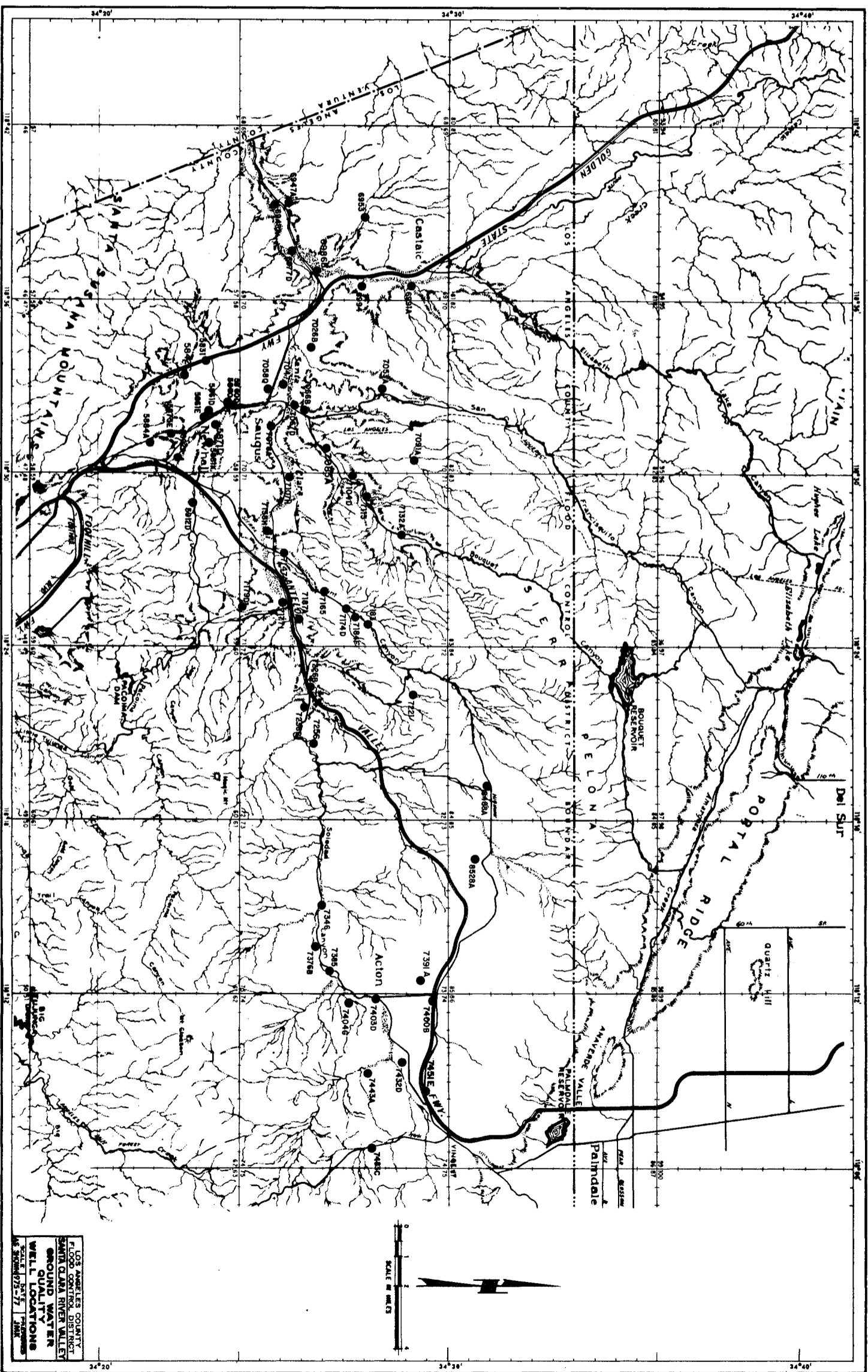
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DATE	DESCRIPTION	



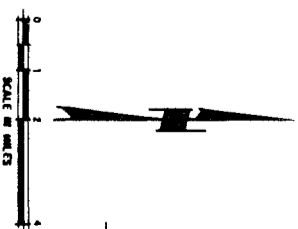
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DATE DESCRIPTION	FLOOD CONTROL DISTRICT
	<b>SAN GABRIEL VALLEY</b>
	<b>GROUND WATER</b>
	<b>QUALITY</b>
	<b>WELL LOCATIONS</b>
	SCALE: DATE: PRESSURE:
	AS SHOWN 1976-77

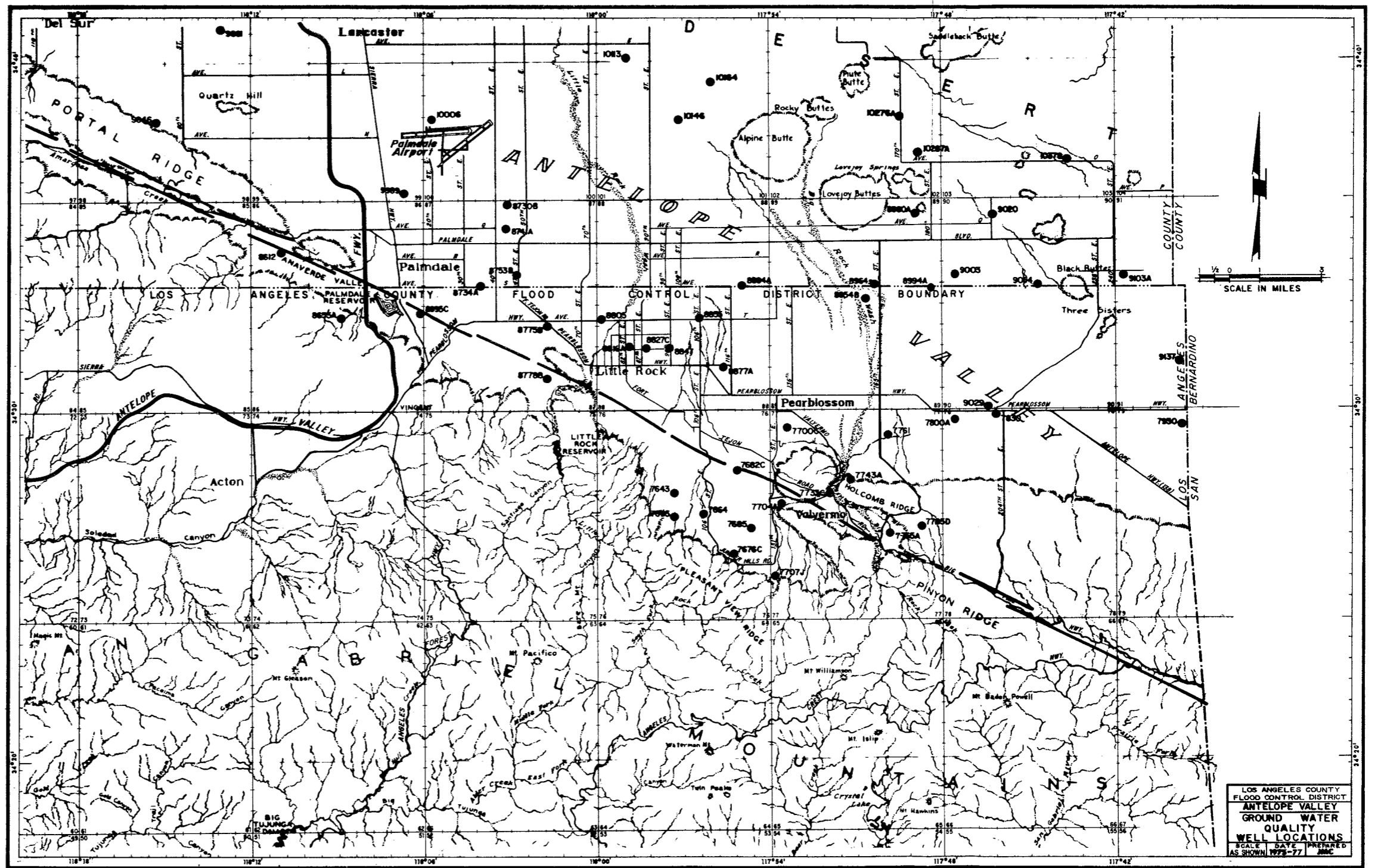






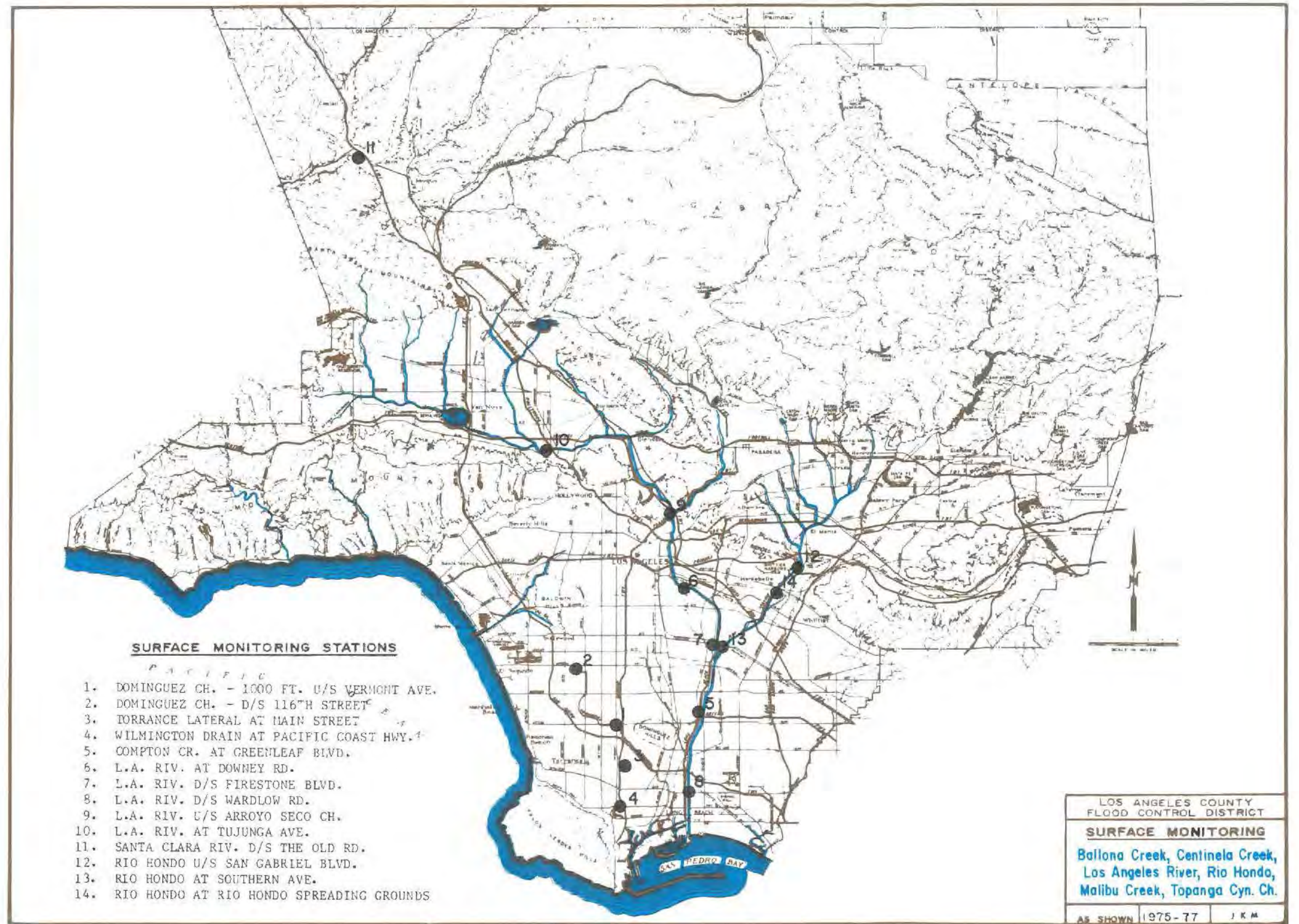
LOS ANGELES COUNTY  
 SANTA CLARA RIVER VALLEY  
 GROUND WATER  
 QUALITY  
 WELL LOCATIONS  
 SCALE DATE DRAWN  
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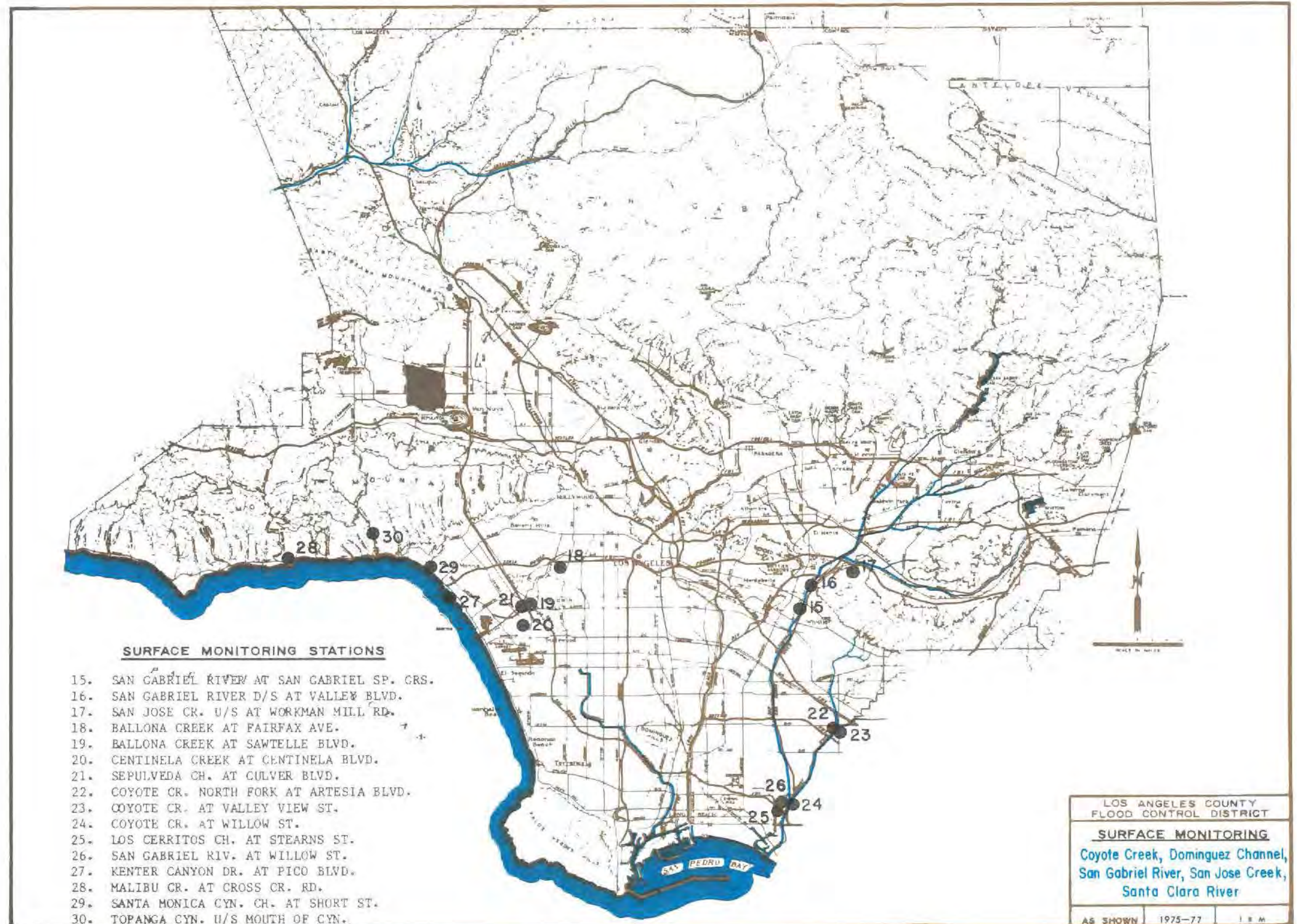


LOS ANGELES COUNTY  
 FLOOD CONTROL DISTRICT  
**ANTELOPE VALLEY**  
 GROUND WATER  
 QUALITY  
 WELL LOCATIONS  
 SCALE DATE PREPARED  
 AS SHOWN 1973-77 MAC











# WATER CONSERVATION

## FOREWORD

Information presented in this section includes amounts of local, imported, and reclaimed water conserved in spreading grounds, spreading basins, reservoirs, and unlined channels. Also, information on the sea-water barrier projects which prevent salt-water intrusion in the coastal area and information on the District's water quality monitoring programs of surface and ground water are included. Pertinent data are presented regarding the locations and descriptions of District conservation facilities, as well as facilities owned by others. Also included are ground-water maps delineating elevations recorded during the report period, hydrographs of selected key wells, and maps indicating the District's water quality monitoring programs.

The various types of water conserved, namely local, imported, and reclaimed, are construed to have the following meanings in this section: Local water is derived from runoff due to rainfall on the mountain and valley watersheds within or tributary to the District. Imported water is water derived outside the District which is transported and delivered within the District. Reclaimed water is the effluent produced by the Whittier Narrows Water Reclamation Plant and the San Jose Creek Water Renovation Plant, both operated by the Los Angeles County Sanitation Districts.

The rainfall amounts during the water years 1975-76 and 1976-77 were approximately 51 and 78 per cent of normal, and the local water conserved during these periods were over 59,700 and 50,500 acre-feet, respectively.



Pacoima Spreading Grounds

## SPREADING GROUNDS

The total gross acreage of spreading grounds owned and operated by the District during this annual report period amounted to 2,201 acres. The District also assisted in the operation and maintenance of 679 acres of spreading grounds owned by others. An additional 246 acres of spreading grounds are controlled, maintained, and operated by other agencies. The total gross acreage of spreading grounds in the County is 3,126 acres, with a combined infiltration capacity of more than 2,400 cfs.

## IMPORTED WATER

During this annual period, imported Colorado River water and State Project water for spreading was obtained from The Metropolitan Water District. This water was purchased with funds provided by the Central and West Basin Water Replenishment District and the Upper San Gabriel Valley Municipal Water District. Funds were also provided by the Water Conservation Zone I, prior to its termination on June 30, 1972. The Zone was established by the Board of Supervisors in January 1952 to finance the acquisition and conservation of untreated Colorado River Water in the Coastal Plain. The funds were provided by taxation at a rate of \$.05 per \$100 assessed value. The Zone had a life of five years with provisions for renewal by the Board of Supervisors. Zone I was renewed three times before its termination in 1972.

Imported water for the Coastal Plain, purchased with funds from the Central and West Basin Water Replenishment District, was spread in the District's facilities in the Rio Hondo and San Gabriel River systems south of Whittier Narrows Dam.

Imported water for the San Gabriel Valley groundwater basin, purchased by the Upper San Gabriel Valley Municipal Water District, was spread in Santa Fe Spreading Grounds and in the San Gabriel River between Morris Dam and the spreading grounds.

The San Gabriel Valley Municipal Water District made the first delivery of replacement water through its Devil Canyon-Azusa pipeline to the San Gabriel River on November 18, 1974. They also used the pipeline for the delivery of water for cyclic storage, as per agreement with the Watermaster.

## RECLAIMED WATER

The County Sanitation Districts' Whittier Narrows Water Reclamation Plant, in operation since 1962, produced from 12 to 18 mgd of high quality effluent during the annual period. The effluent is purchased by the Central and West Basin Water Replenishment District and transported to the Rio Hondo and San Gabriel River systems for groundwater replenishment.

The County Sanitation Districts' San Jose Creek Water Reclamation Plant, activated in May 1972, made its first delivery of effluent in November 1972.

This effluent is also purchased by the Central and West Basin Water Replenishment District and is transported by pipeline to the San Gabriel River system for ground-water replenishment.

Reclaimed water comprised about 25 per cent of the total purchased water spread in the Montebello Forebay between October 1, 1975 and September 30, 1977.

## BARRIER PROJECTS

The West coast Basin Barrier Project, just inland of the Santa Monica Bay coastline, prevents the intrusion of ocean water into the fresh-water aquifers by the injection of fresh water to form a pressure barrier.

During December 1975 and January 1976, 11 newly constructed injection wells (Unit 6A) were put into operation. Ten of these wells inject into the lower San Pedro aquifer and the remaining one injects into the Silverado aquifer. Also, two observation wells were constructed, one in the Silverado aquifer and the other in the 200 Foot Sand aquifer, during the report period.

During the two year period, 69,480 acre-feet of fresh water was injected, at an average rate of 48 cfs.

The Dominguez Gap Barrier Project was designed to prevent sea-water intrusion from the San Pedro Bay into the West Coast Basin through the Dominguez Gap area.

Seven observation wells were constructed at three sites during the report period. Also, modification of 11 of the Unit 1A injection wells to dual wells were completed in October 1976. Five additional piezometers were also constructed.

A leak in the supply line resulted in the shutdown of all injection wells on March 30, 1976. Injection was resumed on April 9, 1976 following completion of repair work. During the report period, 14,216 acre-feet of water was injected, at an average rate of about 10 cfs.

The existing operational facilities of the Alamitos Barrier Project consist of 20 injection wells and 4 extraction wells. The project facilities are designed to protect the ground-water supplies of the Central Basin of Los Angeles County and the Eastern Coastal Plain Basin of Orange County from intrusion of sea water through the Alamitos Gap area.

Construction of Units 9A and 9B, consisting of a dual-injection well and 12 observation wells, was begun in March 1977 and was completed in early 1978. During the two year-period, 10,429 acre-feet of fresh water was injected, at an average rate of about 7 cfs, and 2,720 acre-feet of saline water was extracted.

## EXPLORATION AND OBSERVATION WELLS

During this biennial report period, nine wells were drilled for monitoring ground-water levels and obtaining geologic data. These wells were constructed to replace important observation wells that have been destroyed.

## SEASONAL DATA AND MAPS

During this biennial report period several thousand observations of ground-water levels of over 3,000 wells were made and processed, monthly or semiannually. Those wells were scattered over the ground-water basins in the County. Hydrographs of selected key wells are included in this report.

## GROUNDWATER BASINS

The natural ground water reservoirs underlying Los Angeles County consist of ground-water basins which are grouped under five local watersheds. These watersheds are identified as San Fernando Valley, San Gabriel Valley, Coastal Plain, Santa Clarita Valley, and Antelope Valley.

The following paragraphs relate the change in ground-water levels as taken from wells considered representative of average basin conditions. The change is measured as the difference in ground-water level occurring on September 30, 1977, as compared to the level on October 1, 1975.

## SAN FERNANDO VALLEY

The San Fernando Valley watershed overlies the San Fernando Main Basin and five subbasins. The subbasins are named Sylmar, Pacoima, Tujunga, Glenoaks, and Verdugo. The ground-water level was stable in the western portion of the San Fernando Valley, but historic lows occurred in other portions of the Valley.

## SAN GABRIEL VALLEY

Eighteen ground-water basins exist under the San Gabriel Valley watershed. Ground-water levels decreased throughout most of these basins.

## COASTAL PLAIN

Ground-water level changes in the Coastal Plain varied throughout the basin.

## SANTA CLARITA VALLEY

Ground-water levels in the main portion of the basin for this period had decreased. The water level records as obtained from Well 7048A indicate that the water table in the Saugus area had declined about 6 feet during this report period.

## ANTELOPE VALLEY

The Lancaster ground-water level, as determined from measurements from Well 9974 (Well 9926D was previously used), has continued to decline. The decline for this report period has reached a record low. Available records show this declining trend continuing from 1921 at the approximate rate of 5 feet per year.



LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

WATER CONSERVATION DIVISION

RESERVOIR AND CHANNEL ABSORPTION

EXCLUSIVE OF SPREADING GROUNDS

WATER YEARS 1975-77

<u>Stream</u>	<u>Reach of Stream Where Absorption Occurred</u>	<u>Year</u>	<u>Total Release To Reach A.F.</u>	<u>Absorption in Channels, Reservoirs and Diversions A.F.</u>	<u>Excess of Release Over Absorption A.F.</u>
Pacoima	Dam to Lined Channel	1975-76	486	486	0
		1976-77	508	508	0
Tujunga	Mouth to Lined Channel	1975-76	7,631	1,857 (1)(2)	5,774
		1976-77	7,896	3,588 (1)(2)	4,308
Arroyo Seco	Devil's Gate Reservoir	1975-76	0	967 (1)	0
		1976-77	0	N.A. (1)	0
Eaton Wash	Eaton Wash Dam	1975-76	0	496 (1)	0
		1976-77	0	290 (1)	0
Santa Anita	Dam to Lined Channel	1975-76	1,470	280	1,190
		1976-77	1,207	142	1,065
Santa Fe Diversion	Santa Fe Dam to Sawpit Wash	1975-76	0	0	0
		1976-77	N.A.	N.A.	N.A.
San Gabriel	Mouth to Foothill Boulevard	1975-76	34,050	13,590	20,460
		1976-77	27,834	9,340	18,503
San Gabriel	Foothill Boulevard to Santa Fe Dam	1975-76	20,160	2,380 (1)	17,780
		1976-77	18,139	4,414 (1)	13,725
San Dimas	Dam to Lined Channel	1975-76	928	587 (1)	341
		1976-77	1,150	581 (1)	569
Walnut	Puddingstone Dam to Lined Channel	1975-76	0	0 (3)	0
		1976-77	159	-16 (3)	175
Thompson	Thompson Creek Reservoir	1975-76	0	0	0
		1976-77	0	0	0

- NOTES: (1) Includes percolation and evaporation losses in reservoirs.  
(2) Includes water diverted for municipal water supply.  
(3) Indicates rising water.

**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT  
WATER CONSERVATION DIVISION  
SUMMARY OF DATA ON SPREADING FACILITIES  
OWNED AND OPERATED BY THE DISTRICT  
UPDATED THROUGH SEPTEMBER 1977**

GROUNDS	TYPE	SEASON FIRST USED	AREA IN ACRES		CAPACITIES				LOCATION	SOURCE OF WATER	REMARKS
			GROSS	WETTED	CHANNEL** CFS	INTAKE CFS	STORAGE A.F.	PERC.* CFS			
LOPEZ	SHALLOW BASINS	1956-57	18	13	-	25	25	7	SOUTHEASTERLY SIDE OF PACOIMA WASH, NORTHEASTERLY OF FOOTHILL BOULEVARD	CONTROLLED FLOW FROM PACOIMA DAM AND LOPEZ FLOOD CONTROL BASIN.	THE FLOW IS DIVERTED FROM LOPEZ FLOOD CONTROL BASIN VIA CANAL TO THE SPREADING GROUNDS.
PACOIMA	SHALLOW BASINS	1932-33	169	116	17,000	400	299	100	BOTH SIDES OF OLD PACOIMA WASH CHANNEL FROM ARLETA STREET SOUTHWESTERLY TO WOODMAN AVENUE.	CONTROLLED FLOW FROM PACOIMA DAM. PARTIALLY CONTROLLED FLOW FROM LOPEZ FLOOD CONTROL BASIN, UNCONTROLLED FLOW FROM EAST CANYON AND PACOIMA WASH.	DIVERSION LEVEE ADDED TO BASIN I IN 1976.
HANSEN	SHALLOW BASIN	1944-45	156	110	22,000	450	230	185	NORTHWESTERLY SIDE OF TUJUNGA WASH FROM ABOVE GLENOAKS BOULEVARD SOUTHWESTERLY TO SAN FERNANDO ROAD.	CONTROLLED FLOW FROM HANSEN DAM AND BIG TUJUNGA DAM.	GENERALLY WATER IS AVAILABLE FOR SPREADING ONLY DURING YEARS OF NORMAL OR ABOVE NORMAL RAINFALL.
BRANFORD	OEEP BASIN	1956-57	12	8	1,540	1,540	179	1	SOUTHWESTERLY OF ARLETA STREET ABOVE CONFLUENCE OF TUJUNGA CHANNEL AND PACOIMA DIVERSION CHANNEL	UNCONTROLLED FLOWS FROM BRANFORD STREET DRAIN.	BASIN DEVELOPMENT 85 PER CENT COMPLETE. OUTLET CAPACITY 1540 CFS TO PACOIMA DIVERSION CHANNEL.
ARROYO SECO	SHALLOW BASINS	1948-49	24	13	-	100	30	15	EASTERLY SIDE OF ARROYO SECO, LOWER END 0.5 MILE ABOVE DEVIL'S GATE DAM.	UNCONTROLLED FLOW FROM ARROYO SECO AND THE AL TADENA STORM DRAIN, CONTROLLED FLOW FROM CITY OF PASADENA.	SPREADING GROUNDS ARE HELD UNDER EASEMENT FROM THE CITY OF PASADENA.
EATON WASH	OEEP AND SHALLOW BASINS	1947-48	28	24	6,600	100	525	20	EASTERLY SIDE OF EATON WASH FROM BELOW EATON DAM TO FOOTHILL BLVD.	CONTROLLED FLOW FROM EATON WASH DAM AND SIERRA MADRE VILLA CHANNEL.	THREE DEEP BASINS COMPRISE 15 ACRES. THE SHALLOW STRIP BASINS TOTAL 13 ACRES.
SANTA ANITA	SHALLOW BASINS	1944-45	20	8	-	20	25	7	WESTERLY SIDE OF SANTA ANITA WASH 1.25 MILES ABOVE FOOTHILL BOULEVARD.	CONTROLLED FLOW FROM SANTA ANITA DAM AND SANTA ANITA DEBRIS DAM.	THE HEADWORKS LOCATED UPSTREAM OF THE DEBRIS DAM DIVERTS WATER TO SANTA ANITA SPREADING GROUNDS AND CITY OF SIERRA MADRE SPREADING GROUNDS.
SAWPIT	SHALLOW BASINS	1946-47	12	4	-	30	13	12	WESTERLY SIDE OF SAWPIT WASH BELOW MOUTH OF CANYON AT HEAD OF NORUMBEGA STREET, MONROVIA.	CONTROLLED FLOWS FROM SAWPIT DAM AND SAWPIT DEBRIS DAM.	
SAN GABRIEL CANYON	DITCHES AND CHECKS	ABOUT 1917	165	-	-	-	-	35	EASTERLY SIDE OF SAN GABRIEL RIVER, BELOW MOUTH OF CANYON, NORTH OF THE CITY OF AZUSA.	SAN GABRIEL RIVER CONTROLLED RELEASES FROM COGSWELL DAM, SAN GABRIEL DAM, AND MORRIS DAM.	THE DISTRICT TOOK OVER OPERATION OF THIS FACILITY IN NOVEMBER 1969. RECEIVES SURPLUS WATER FROM THE WATER RIGHTS OF THE COMMITTEE OF NINE.
LITTLE DALTON	SHALLOW BASINS, DITCHES, AND CHECKS	1931-32	14	4.7	-	20	5	10	WESTERLY OF GLENDORA MT. ROAD, FROM LITTLE DALTON DEBRIS DAM SOUTH TO EAST PALM DRIVE.	CONTROLLED FLOW FROM LITTLE DALTON DEBRIS DAM.	
BIG DALTON	SHALLOW BASINS, DITCHES, AND CHECKS	1930-31	24	13	-	45	25	15	WESTERLY SIDE OF BIG DALTON WASH. INTAKE ONE HALF MILE ABOVE SIERRA MADRE AVENUE.	CONTROLLED FLOWS FROM BIG DALTON DAM AND BIG DALTON DEBRIS DAM.	
LIVE OAK	SHALLOW BASINS	1961-62	5	2	-	15	2	5	WESTERLY SIDE OF LIVE OAK WASH, NORTH OF BASE LINE ROAD (PROJECTED).	CONTROLLED FLOW FROM LIVE OAK DAM AND LIVE OAK DEBRIS DAM.	
LAGUNA	SHALLOW BASINS	1962-63	6	3	-	-	5	1	EAST SIDE LONG BEACH FREEWAY, ONE HALF MILE NORTH OF BROOKLYN AVENUE.	LOCAL RUNOFF FROM ALHAMBRA AND EL SERENO VIA DORCHESTER DRAIN.	THE PIT IN WHICH BASINS ARE LOCATED WAS DESIGNED AS A RETENTION BASIN FOR THE DORCHESTER STORM DRAIN.
EATON BASIN	DEEP BASIN	1956-57	16	10.6	9,600	400	280	10	EAST SIDE OF EATON CHANNEL NORTH OF DUARTE ROAD, 0.6 MILE SOUTH OF HUNTINGTON DRIVE.	CONTROLLED FLOW FROM EATON WASH DAM AND UNCONTROLLED FLOWS BETWEEN DAM AND SPREADING BASIN.	
PECK ROAD	DEEP BASIN	1959-60	157	85	30,100	30,100	3,347	17	CONFLUENCE OF SAWPIT AND SANTA ANITA WASHES.	ALL FLOWS IN SAWPIT AND SANTA ANITA WASHES.	
BUENA VISTA	DEEP BASIN	1954-55	10	6	2,900	2,900	194	8	1.0+ MILE EASTERLY OF SAWPIT WASH. 0.5+ MILE NORTHERLY OF ARROW HIGHWAY, BETWEEN MERIDIAN STREET AND BUENA VISTA CHANNEL.	CONTROLLED FLOW FROM SANTA FE DAM AND UNCONTROLLED FLOW FROM BUENA VISTA CHANNEL.	NO OUTFLOW EXPECTED EXCEPT CAPITAL STORM, BUT A SMALL OUTLET STRUCTURE OF 150 CFS PROVIDED. INLET CAPACITY OF SANTA FE DIVERSION 120 CFS.

\*THE CAPACITIES LISTED ARE BASED ON INFILTRATION RATES WHICH MAY BE EXPECTED TO PERSIST FOR AT LEAST FIVE DAYS BUT ARE NOT VALID FOR SUSTAINED SPREADING OPERATIONS.

\*\*DESIGN CAPACITY OF MAIN CONCRETE CHANNEL.

**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT  
WATER CONSERVATION DIVISION  
SUMMARY OF DATA ON SPREADING FACILITIES  
OWNED AND OPERATED BY THE DISTRICT  
UPDATED THROUGH SEPTEMBER 1977**

GROUNDS	TYPE	SEASON FIRST USED	AREA IN ACRES		CHANNEL** CFS	CAPACITIES		PERC.* CFS	LOCATION	SOURCE OF WATER	REMARKS
			GROSS	WETTED		INTAKE CFS	STORAGE A.F.				
SANTA FE***	SHALLOW BASINS	1953-54	260	230	-	600	370	350	WITHIN SANTA FE DAM RESERVOIR AND SPILLWAY AREAS.	CONTROLLED FLOWS FROM SAN GABRIEL CANYON AND UNCONTROLLED FLOWS FROM BRADBURY CHANNEL AND SAN GABRIEL RIVER BELOW MORRIS RESERVOIR.	RIGHT OF WAY, HELD UNDER LICENSE FROM THE FEDERAL GOVERNMENT INCLUDES 30± ACRES IN SAN GABRIEL RIVER BED FOR EARTH DIVERSION LEVEE. CONSTRUCTION OF THE 605 FREEWAY REDUCED THE SPREADING AREA IN THE RESERVOIR AND A SUBSTITUTE AREA WILL BE PROVIDED DOWNSTREAM OF THE SPILLWAY. FLOCCULANT FACILITY ADDED IN 1976.
IRWINDALE	DEEP BASIN	1958-59	17	14	20,000	450	403.3	40	NORTHEASTERLY OF INTERSECTION OF BIG DALTON CHANNEL AND IRWINDALE AVENUE; CONTIGUES 1,300 FEET EAST OF IRWINDALE AVENUE.	BIG DALTON CHANNEL CONTROLLED FLOWS FROM BIG AND LITTLE DALTON DEBRIS DAMS AND PUDDINGSTONE DIVERSION DAM; UNCONTROLLED FLOWS.	
CITRUS	SHALLOW BASIN	1960-61	19	15	-	25	20	28	SOUTH SIDE OF BIG DALTON WASH BETWEEN CITRUS AND CERRITOS AVENUES.		AZUSA IRRIGATION COMPANY ABANDONED PIPELINE IN 1967; NO SPREADING OPERATIONS AFTER THAT DATE.
BEN LOMOND	SHALLOW BASIN	1958-59	24	17	-	25	25	34	BOTH NORTH AND SOUTH SIDES OF SAN DIMAS WASH CHANNEL AT SOUTHWESTERLY CORNER OF INTERSECTION OF ARROW HIGHWAY AND BEN LOMOND AVENUE.	CONTROLLED RELEASES FROM COVINA IRRIGATING COMPANY PIPELINE	SPREADING GROUNDS UTILIZED TO CONSERVE EXCESS SURFACE SAN GABRIEL CANYON WATER RELEASES TO THE COVINA IRRIGATING COMPANY PIPELINE.
WALNUT CREEK SPREADING BASIN	DEEP BASIN	1962-63	16	8	8,000	150	166	5	WEST SIDE OF WALNUT WASH CHANNEL, NORTH OF SAN BERNARDINO FREEWAY.	CONTROLLED FLOW FROM PUDDINGSTONE DAM AND UNCONTROLLED FLOW FROM WALNUT WASH CHANNEL; EXCESS WATER FROM COVINA IRRIGATING COMPANY.	
SAN DIMAS CANYON SPREADING GROUNDS	SHALLOW BASIN	1965-66	22	11	-	25	22	12	SOUTHEAST SIDE OF SAN DIMAS WASH BETWEEN PUDDINGSTONE DIVERSION AND SAN DIMAS CANYON ROAD.	CONTROLLED RELEASES FROM PUDDINGSTONE DIVERSION DAM; UNCONTROLLED FLOW FROM SAN DIMAS CHANNEL.	
FORBES SPREADING BASIN	DEEP BASIN	1964-65	21	9.6	-	50	45	10	SOUTH SIDE OF SAN DIMAS WASH BETWEEN LONE HILL AVENUE AND VALLEY CENTER AVENUE.	CONTROLLED RELEASES FROM PUDDINGSTONE DIVERSION DAM AND LOCAL STORM RUNOFF FROM SAN DIMAS WASH.	
SAN GABRIEL COASTAL	SHALLOW BASIN	1938-39	128	91	-	300	316	80	WESTERLY SIDE OF SAN GABRIEL RIVER, SOUTHERLY FROM WHITTIER BOULEVARD TO WASHINGTON BOULEVARD.	CONTROLLED FLOW FROM DAMS IN SAN GABRIEL CANYON AND SANTA FE DAM, AND UNCONTROLLED VALLEY RUNOFF BELOW SANTA FE DAM VIA SAN GABRIEL RIVER; ALSO IMPORTED AND RECLAIMED WATER.	
SAN GABRIEL RIVER UPPER	TEMPORARY CHECK LEVEES	1965-66	196±	196±	-	-	-	180	SAN GABRIEL RIVER FROM SANTA FE DAM TO RISING WATER.	CONTROLLED FLOW FROM DAMS IN SAN GABRIEL CANYON AND SANTA FE DAM AND UNCONTROLLED VALLEY RUNOFF BELOW SANTA FE DAM, ALSO IMPORTED WATER.	CHECK LEVEES DEVELOPED IN RIVER TO SPREAD WATER.
SAN GABRIEL RIVER LOWER	TEMPORARY CHECK LEVEES	1954-55	133	133	-	-	-	100	SAN GABRIEL RIVER FROM WHITTIER NARROWS DAM TO FLORENCE AVENUE.	SAME AS UPPER PORTION. ALSO RECLAIMED WATER.	SAME AS UPPER PORTION. SEE SAN GABRIEL COASTAL REMARKS.
RIO HONDO COASTAL	SHALLOW BASIN	1937-38	570	455	40,000	900	1,875	450	EASTERLY SIDE OF RIO HONDO SOUTHERLY FROM U.P.R.R. (SOUTH OF WHITTIER BOULEVARD) TO SLAUSON AVENUE; WEST SIDE OF RIO HONDO CHANNEL FROM 0.2± MILE ABOVE WHITTIER BOULEVARD SOUTH TO FOSTER BRIDGE BOULEVARD.	CONTROLLED RELEASES FROM SAN GABRIEL CANYON DAMS AND SANTA FE DAM, AND CONTROLLED RELEASES OUT OF WHITTIER NARROWS DAM FROM VALLEY RUNOFF VIA RIO HONDO; ALSO IMPORTED AND RECLAIMED WATER.	IN COOPERATION WITH THE CORPS OF ENGINEERS, THE DISTRICT OPERATES 4000-ACRE-FOOT POOL AT WHITTIER NARROWS DAM FOR RETENTION OF STORM WATERS. FLOCCULANT FACILITY ADDED AT WHITTIER NARROWS DAM IN 1967.
DOMINGUEZ GAP	DEEP BASIN	1957-58	54	31	-	20	254	3	CONTIGUES 1.0 MILE SOUTH FROM DEL AMO BOULEVARD, AND BORDERS THE EASTERN AND WESTERN SIDES OF THE LOS ANGELES RIVER.	CONTROLLED FLOW FROM LOS ANGELES RIVER LOW FLOW CHANNEL AND UNCONTROLLED FLOWS FROM STORM DRAINS.	EAST SIDE BASIN USED FOR FLOOD REGULATION WITH SOME CONSERVATION STORAGE. INTAKE OF 20 CFS IS THE FIGURE FOR LOW FLOW DIVERSION FROM THE LOS ANGELES RIVER. THE WEST SIDE BASIN IS FED BY A 42-INCH CONCRETE PIPE FROM THE EAST SIDE BASIN.
WALTERIA SPREADING BASIN	DEEP BASIN	1962-63	26	-	-	-	85	6	WEST SIDE OF HAWTHORNE AVENUE AT 236TH STREET.	LOCAL STORM DRAINS.	BASIN USED FOR FLOOD REGULATIONS WITH SOME CONSERVATION STORAGE.
TOTALS			2,201	1,515.9			8,688.3	1,611			

\*THE CAPACITIES LISTED ARE BASED ON INFILTRATION RATES WHICH MAY BE EXPECTED TO PERSIST FOR AT LEAST FIVE DAYS BUT ARE NOT VALID FOR SUSTAINED SPREADING OPERATIONS.

\*\*\* DOES NOT INCLUDE AREA DOWNSTREAM FROM SANTA FE DAM SPILLWAY WHICH IS BEING TESTED TO DETERMINE AREA NECESSARY TO COMPENSATE FOR CAPACITY LOSS DUE TO FREEWAY CONSTRUCTED ACROSS THE SPREADING GROUNDS PROPER.

\*\*DESIGN CAPACITY OF MAIN CONCRETE CHANNEL.

**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT  
WATER CONSERVATION DIVISION  
SUMMARY OF WATER SPREAD AT GROUNDS  
OWNED AND OPERATED BY THE DISTRICT  
UPDATED THROUGH SEPTEMBER 1977  
RECORD OF LOCAL WATER SPREAD  
ACRE - FEET**

SEASON	SAN FERNANDO VALLEY					SAN GABRIEL VALLEY - FOOTHILLS							SUBTOTAL	SEASON
	LOPEZ	PACOIMA	HANSEN	BRANFORD	ARROYO SECO	EATON S.G.	SANTA ANITA	SAWPIT	SAN GABRIEL CANYON*	LITTLE DALTON	BIG DALTON	LIVE OAK		
1930-31											10		10	1930-31
32										160	394		554	32
33		26								0	0		26	33
34		230								0	100		330	34
35		1,200								0	131		1,331	35
36		2,000								0	0		2,000	36
37		4,680								275	866		5,821	37
38		3,844								287	397		4,528	38
39		363								12	49		424	39
40		907								0	0		907	40
41		9,775								1,166	1,528		12,469	41
42		37								0	0		37	42
43		3,744								1,084	1,191		6,019	43
44		7,223								469	543		8,235	44
45		1,467	7,651					337		290	64		9,809	45
46		514	2,268					0		73	47		2,902	46
47		3,763	8,725					141	89	89	174		12,981	47
48		0	0					1	0	0	0		1	48
49		0	0			108		61	0	8	88		204	49
50		245	0			283		61	0	0	28		683	50
51		0	0			19		0	19	0	0		38	51
52		6,121	16,780			986		1,196	448	517	563	856	27,467	52
53		1,651	1,271			216		0	58	56	9	3	3,264	53
54		1,891	1,014			455		190	265	0	161	370	4,346	54
55		205	0			197		0	145	0	0	0	547	55
56	0	566	2	0	301	181	161	180	0	30	180		1,601	56
57	28	475	0	38	397	0	2	38	0	11	17		1,005	57
58	1,030	10,922	18,407	20	2,088	861	1,576	978	0	658	2,380		38,920	58
59	0	352	1,023	0	352	130	185	199	0	22	145		2,408	59
60	0	379	0	6	0	0	810	38	0	0	0		1,233	60
61	0	78	0	183	0	0	304	29	0	27	0		621	61
62	673	5,635	12,570	402	1,103	1,021	664	547	394	1,212	38		24,259	62
63	52	643	0	415	249	7	449	126	43	77	0		2,061	63
64	212	1,206	0	376	317	24	327	135	18	165	0		2,780	64
65	0	1,199	0	563	744	324	575	161	100	193	0		3,859	65
66	1,020	11,701	19,806	391	1,036	2,000	1,641	1,367	987	2,063	89		42,101	66
67	1,472	22,800	31,383	623	1,828	1,450	1,563	2,458	1,846	3,766	330		69,519	67
68	1,938	1,819	9,836	339	855	305	638	790	187	848	0		17,555	68
69	893	14,262	32,464	461	609	3,249	494	321	335	2,074	803		55,965	69
70	0	1,577	11,927	724	195	483	1,415	769	19,583	220	562		37,500	70
71	727	4,049	11,657	507	644	583	334	529	14,037	226	888		34,181	71
72	0	1,113	1,932	191	173	0	31	216	6,481	23	44		10,204	72
73	0	6,343	11,755	430	1,214	1,689	732	1,396	13,428	484	1,253		38,812	73
74	946	2,378	6,287	285	1,478	1,581	427	1,043	14,233	136	1,130		29,924	74
75	915	2,476	5,423	667	664	337	59	808	15,225	46	237		26,870	75
76	562	13,07	31,28	468	344	295	36	581	9904	19	390		17,037	76
77	63	19,44	26,56	378	374	218	0	487	7140	0	0		13,269	77
TOTALS	10531	143,110	217,965	7467	17,229	16,886	13,817	13,885	100,031	10,451	24,527	1,418	576,617	TOTALS

\* The District took over operation of this facility in November of 1969.

**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT  
WATER CONSERVATION DIVISION  
SUMMARY OF WATER SPREAD AT GROUNDS  
OWNED AND OPERATED BY THE DISTRICT  
UPDATED THROUGH SEPTEMBER 1977  
RECORD OF LOCAL WATER SPREAD  
ACRE - FEET**

SEASON	MAIN SAN GABRIEL VALLEY													COASTAL PLAIN				TOTAL	SEASON
	EATON S.P.	PECK ROAD S.B.	BUENA VISTA S.B.	SANTA FE S.G.	IRVINDALE S.B. (A)	CITRUS S.G.	BEN LOMOND S.G.	WALNUT S.B.	SAN DIMAS CANYON S.G. (B)	FORBES S.B. SAN DIMAS S.D. (C)	SAN GABRIEL SYSTEM UPPER (D)	SAN GABRIEL SYSTEM LOWER (E)	RIO HONDO SYSTEMS (F)	LAGUNA S.B.	WALTERIA S.B.	DOMINGUEZ S.B.			
1930-31																	10	1930-31	
32																	554	32	
33																	26	33	
34																	330	34	
35																	1,331	35	
36																	2,000	36	
37																	5,821	37	
38													3,660				8,188	38	
39												2,603	0				3,027	39	
40												0	1,702				2,609	40	
41												4,684	9,830				26,983	41	
42												0	2,170				2,207	42	
43												0	0				6,019	43	
44												0	0				8,235	44	
45												0	0				9,809	45	
46												0	9,548				12,450	46	
47												384	4,842				18,207	47	
48												0	3,760				3,761	48	
49												0	0				204	49	
50												0	0				683	50	
51												0	0				38	51	
52												5,412	400				33,279	52	
53												4,023	3,368				10,655	53	
54				3,500								4,859	4,621				17,326	54	
55			10	0								9,518	0				10,075	55	
56	0		227	0								5,869	1,924				9,621	56	
57	260		817	0								7,789	7,486				17,357	57	
58	1,236		2,730	12,752								46,474	30,407		107		132,626	58	
59	441		1,097	181	242 (A)		1,431					16,009	5,464		87		27,350	59	
60	501	986	1,234	59	934 (A)		1,055					7,669	7,266		80		21,017	60	
61	165	478	700	30	256	1,133	732					4,874	2,960		360		12,309	61	
62	902	8,876	869	11,818	1,817	2,194	2,857	292	50			19,932	17,120	0	2,414		93,400	62	
63	532	1,895	273	121	593	1,292	2,428	367	286			5,405	4,464	+	289	1,406	21,412	63	
64	869	1,841	195	120	1,126	906	1,008	502	62	5		3,979	5,531	+	135	544	19,603	64	
65	1,007	2,490	945	6,287	2,121	1,287	1,435	0	3	331		4,481	7,975	+	244	1,248	33,713	65	
66	783	13,018	854	23,502	3,317	4,010	3,799	1,412	2,413	0	45,730	14,437	24,325	+	537	803	181,041	66	
67	1,046	17,914	2,192	73,910	6,792	1,064	6,444	2,147	2,099	1,199	51,160	22,392	28,854	+	436	373	287,541	67	
68	605	2,616	262	17,501	4,603	0	5,096	1,201	2,180	0	1,784	11,875	25,166	+	468	274	91,186	68	
69	1,104	7,543	2,231	42,523	7,339	0	3,447	2,016	4,836	0	55,585	50,340	69,056	+	525	375	302,885	69	
70	333	4,044	299	8,396	490	0	5,912	1,120	2,604	0	18,368	28,247	24,671	+	152	187	132,323	70	
71	0	3,954	387	14,016	313	0	3,018	532	1,490	0	9,275	20,389	24,368	+	272	1,521	113,716	71	
72	359	1,555	195	4,443	879	0	1,414	233	484	0	3,990	6,726	10,964	+	165	1,109	42,720	72	
73	1,158	6,460	502	43,943	2,796	0	5,109	669	1,318	0	22,327	12,016	33,061	+	435	1,074	169,680	73	
74	1,096	5,595	386	18,737	1,624	0	3,936	547	1,052	0	7,379	9,169	20,627	+	206	610	100,688	74	
75	527	2,476	184	4,151	1,310	0	1,286	612	786	686	5,781	10,360	19,305	+	577	1,130	76,041	75	
76	716	2,023	864	970	1,118	0	1,267	310	333	16	9,904	9,298	15,536	+	58	326	59,776	76	
77	666	3,425	436	3,851	1,207	0	1,535	410	289	243	135	8,121	16,412	+	NA	673	50,672	77	
TOTALS	14,306	86,989	17,879	290,811	38,877	11,886	53,209	12,370	20,285	2,480	231,418	357,334	446,843		4,499	14,701	2,180,504	TOTALS	

(A) Includes Metropolitan Water District water purchased under contract with San Gabriel Valley Labor Association.

(B) San Dimas Canyon water spread prior 1965-66 in temporary development below Puddingstone Diversion.

(C) San Dimas Spreading development inoperative after 1968-69 water year.

(D) San Gabriel River from Santa Fe Dam to rising water. Hook levees developed in river, 1965.

(E) San Gabriel River from Whittier Narrows Dam to Florence Avenue; (Hook levees developed in river, 1954) and the San Gabriel Coastal Spreading Grounds.

(F) Spreading grounds only up through 1967-68 water year, thereafter figures include Whittier Narrows Dam (Rio Hondo side) percolation.

**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT  
WATER CONSERVATION DIVISION  
SUMMARY OF DATA ON SPREADING FACILITIES  
NOT OWNED BY THE DISTRICT  
UPDATED THROUGH SEPTEMBER 1977**

GROUNDS	TYPE	SEASON FIRST USED	AREA IN ACRES		CAPACITIES				LOCATION	SOURCE OF WATER	REMARKS
			GROSS	WETTED	CHANNEL** CFS	INTAKE CFS	STORAGE A.F.	PERC.* CFS			
<b>GROUNDS IN WHICH DISTRICT DOES CONSTRUCTION, MAINTENANCE, AND SOME OPERATIONS:</b>											
SIERRA MADRE	SHALLOW BASINS	ABOUT 1933	22	9	-	25	47	18	CITY OF SIERRA MADRE, SOUTH SIDE OF GRANDVIEW AVENUE, ONE HALF MILE WEST OF SANTA ANITA AVENUE.	LITTLE SANTA ANITA CREEK AND STREET RUNOFF ONLY PRIOR TO 1951-52. STARTING IN 1951-52 ALSO CONTROLLED FLOWS FROM SANTA ANITA DAM.	NO RECORDS OF WATER SPREAD PRIOR TO 1951-52. GROUNDS REBUILT IN 1951. ULTIMATE CAPACITY ESTIMATED 25 CFS. THREE BASINS ADDED IN SUMMER OF 1959.
FISH CREEK	SHALLOW BASINS	ABOUT 1917	61	4	-	-	-	7	WESTERLY SIDE OF SAN GABRIEL RIVER BELOW MOUTH OF FISH CANYON AND NORTH OF THE CITY OF AZUSA.	SAN GABRIEL RIVER, CONTROLLED RELEASES FROM COGSWELL DAM, SAN GABRIEL DAM, AND MORRIS DAM, VIA DUARTE DITCH.	DISTRICT DELIVERS WATER, DOES HYDROGRAPHIC WORK AND SOME CONSTRUCTION. SOME WATER ALSO PERCOLATES IN SAN GABRIEL RIVER IN VICINITY OF SPREADING GROUNDS AND IN BRUSH LAND WHERE IRRIGATION WASTE LINES DISCHARGE. NO SEPARATE RECORDS KEPT PRIOR TO 1926-27.
THOMPSON CREEK	DITCHES CHECKS AND DEEP BASIN	ABOUT 1928	53	37	-	70	-	37	SOUTHERLY FROM, AND ADJACENT TO THOMPSON CREEK DAM, EAST SIDE OF CREEK.	COBAL, WILLIAMS, PALMER, AND PADUA CREEKS, ALSO THOMPSON CREEK, WHEN RESERVOIR ABOVE ELEV. 1625.	HELD UNDER EASEMENT BY THE DISTRICT, OPERATED BY POMONA VALLEY PROTECTIVE ASSOCIATION. IN ADDITION TO THE 53 ACRES, SOME AREA WITHIN THOMPSON CREEK RESERVOIR IS USED TO SPREAD STORM FLOWS. WATER SPREAD IN AREA SINCE ABOUT 1918.
SAN ANTONIO	DITCHES CHECKS AND SHALLOW BASINS	1921-22	598	300	8,000	900	-	300	BOTH SIDES OF SAN ANTONIO CREEK. FROM TWO AND ONE HALF MILES ABOVE BASE LINE SOUTHWESTERLY TO BASE LINE.	CONTROLLED RELEASES FROM THE SAN ANTONIO FLOOD CONTROL DAM.	HELD UNDER EASEMENT BY THE DISTRICT, OPERATED BY POMONA VALLEY PROTECTIVE ASSOCIATION. WEST SIDE OF CHANNEL 500 ACRES. EAST SIDE OF CHANNEL 98 ACRES. IN ADDITION THERE ARE 207 ACRES EAST OF CHANNEL IN SAN BERNARDINO COUNTY; WATER SPREAD IN VICINITY ON AND OFF AS EARLY AS ABOUT 1896.
TOTALS			679					362			
<b>GROUNDS CONTROLLED BY OTHERS. THE DISTRICT COOPERATING:</b>											
CITY OF POMONA	DITCHES CHECKS AND SHALLOW BASINS	(SEE REMARKS)	10	8	-	-	-	-	NORTH OF CLAREMONT, ONE HALF MILE NORTH OF FOOTHILL BOULEVARD AND 1.8 MILE WEST OF MILLS AVENUE.	SAN ANTONIO CREEK WATER DELIVERED THROUGH LOOP MERSERVE CANYON WATER CO'S. PIPE LINE. ALSO SOME LOCAL RUNOFF.	WATER SPREAD IN VICINITY ON AND OFF SINCE ABOUT 1897. GROUND ACQUIRED BY CITY OF POMONA, OCTOBER 1926. NO RECORD OF WATER SPREAD PRIOR TO 1949-50. DEEP BASIN COMPLETED IN 1957.
L.A. CITY DEPT. OF WATER & POWER TUJUNGA	SHALLOW BASINS	1931-32	188	130	22,000	400	-	390	SAN FERNANDO VALLEY, EAST SIDE OF TUJUNGA WASH AT ROSCOE BOULEVARD.	LOS ANGELES CITY'S OWENS VALLEY AQUEDUCT AND CONTROLLED RELEASES FROM HANSEN DAM.	PRIOR TO 1938 FLOOD, USED 80 ACRES NET. TUJUNGA CHANNEL ON WESTERLY SIDE OF GROUNDS PAVED IN 1950.
HEADWORKS	SHALLOW BASINS	1938-39	48	28	57,000	-	40	40	SAN FERNANDO VALLEY, SOUTH OF LOS ANGELES RIVER, ABOVE MARIPOSA STREET.	LOS ANGELES RIVER, PARTIALLY CONTROLLED BY VARIOUS DAMS. RELEASE OF OWENS VALLEY WATER FROM CHATSWORTH RESERVOIR. GROUND WATER FROM WELLS IN THE WEST END OF SAN FERNANDO VALLEY.	CRYSTAL SPRINGS INFILTRATION AREA, NOT REGULAR SPREADING GROUNDS. WATER PUMPED OUT FROM COLLECTING GALLERIES UNDER AREA. IN OCTOBER 1958 A 130-FOOT COLLAPSIBLE RUBBER DAM WAS INSTALLED ACROSS LOS ANGELES RIVER.
TOTALS			246	166							

\*THE CAPACITIES LISTED ARE BASED ON INFILTRATION RATES WHICH MAY BE EXPECTED TO PERSIST FOR AT LEAST FIVE DAYS BUT ARE NOT VALID FOR SUSTAINED SPREADING OPERATIONS.

\*\*DESIGN CAPACITY OF MAIN CONCRETE CHANNEL

**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT  
WATER CONSERVATION DIVISION  
SUMMARY OF WATER SPREAD IN GROUNDS  
NOT OWNED BY THE DISTRICT  
THROUGH SEPTEMBER 1977  
RECORD OF WATER SPREAD  
ACRE - FEET**

SEASON	GROUNDS IN WHICH DISTRICT DOES CONSTRUCTION, MAINTENANCE, AND SOME OPERATIONS							GROUNDS CONTROLLED BY OTHERS, THE DISTRICT COOPERATING			TOTAL	SEASON
	CITY OF SIERRA MADRE		CALIFORNIA AMERICAN	SAN GABRIEL SPREADING CORPORATION			LOS ANGELES CITY DEPT. OF WATER AND POWER					
	SANTA ANITA WATER	LOCAL WATER	FISH CANYON (G)	CANYON BASIN (F)	MAIN BASIN	THOMPSON CREEK (B)	SAN ANTONIO (B)	CITY OF POMONA	TUJUNGA	HEADWORKS		
1919-20				7,974							7,974	1919-20
21				10,082							10,082	21
22				6,132				(C)			6,132	22
23				12,408				(C)			12,408	23
24				5,069				(C)			5,069	24
25				2,878				(C)			2,878	25
26				8,443				(C)			8,443	26
27				18,560	2,707			8,090	(C)		29,357	27
28				17,537	3,270		(C)	(C)			20,807	28
29				15,615	3,501		(C)	(C)	(C)		19,116	29
30				16,607	5,898		(C)	(C)	(C)		22,505	30
31				8,360	5,827		(C)	201	(C)		14,388	31
32				25,328	12,106		(C)	7,801	(C)	20,338	65,573	32
33				13,386	6,620		(C)	111	(C)	26,873	46,990	33
34		(C)		12,401	4,506		(C)	630	(C)	20,795	38,332	34
35		(C)		34,315	17,692		(C)	6,834	(C)	24,775	83,616	35
36		(C)		17,997	6,975		(C)	1,652	(C)	19,310	45,934	36
37		(C)		33,814	20,297		(C)	22,552	(C)	8,736	85,399	37
38		(C)		31,627	13,134		(C)	15,000	(C)	5,732	65,493	38
39		(C)		17,815	6,194		(C)	1,433	(C)	12,258	37,700	39
40		(C)		19,304	8,544		0	2,670	(C)	3,024	33,542	40
41		(C)		45,618	13,298		563	28,093	(C)	3,446	91,018	41
42		(C)		21,392	8,241		0	83	(C)	11,290	41,006	42
43		(C)		24,502	7,702		505	26,000	(C)	12,134	70,843	43
44		(C)		31,130	9,820		37	10,270	(C)	3,192	54,449	44
45		(C)		34,681	14,467		18	4,957	(C)	0	71,641	45
46		(C)		23,351	12,745		5	3,271	(C)	0	60,513	46
47		(C)		23,716	8,936		0	5,801	(C)	1,686	58,877	47
48		(C)		4,796	2,218		0	6	(C)	0	26,036	48
49		(C)		2,874	1,343		0	0	(C)	0	6,451	49
50		(C)		9,125	2,590		0	55	450±	762	20,673	50
51		(C)		1,378	622		0	3	0	2,355	9,275	51
52	1,547	384		27,847	8,361		163	10,467	952	7,269	58,514	52
53	257	5		15,765	5,705		0	1,011	357	0	30,524	53
54	470	113		18,021	4,960		0	3,150	916	0	34,278	54
55	288	50		20,328	6,096		0	0	838	0	38,467	55
56	349	80		19,135	8,406		0	927	660	0	36,110	56
57	295	36		16,225	6,199		0	0	1,341	0	28,880	57
58	3,897	313		47,419	7,616		164	12,881	3,026	0	81,594	58
59	343	14		24,558	6,176 (A)		0	0	2,820	0	42,956	59
60	43	2		6,111	(E)		0	0	963	0	15,159	60
61	41	2		2,534			0	0	12	0	8,710	61
62	1,313	219		34,008			27	2,525	234	6,894	55,862	62
63	874	21		25,345			0	0	73	0	36,592	63
64	427	54		12,785			0	0	70	0	24,648	64
65	905	99		17,463			0	+	71	0	31,419	65
66	4,075	386		22,981			0	13,056	508	4,537	57,326	66
67	4,236	767		34,415			45	10,727	856	8,331	68,247	67
68	1,723	107		26,955			21	549	407	0	41,622	68
69	1,871	2,024		17,733			850	29,960	340	16,728	76,204	69
70	521	67	7,635	1,697 (H)			0	365	242	2,380	23,928	70
71	1,299	118	10,968				0	26	251	399	19,065	71
72	857	17	5,303				0	45 (J)	127	0	13,738	72
73	3,017	376	7,619				0	6,725 (J)	851	2,274	26,044	73
74	2,786	114	9,170				0	330 (J)	297	0	18,902	74
75	2,179	115	7,403				21	9	263	9,224	23,284	75
76	1,150	16	5,990				0	153	338	5,500	16,984	76
77	919	41	5,297				10	273	197	16	9,890	77
TOTALS	35,682	5,540	59,385	949,540	252,772	2,429	238,692	17,460	240,258	294,726	2,096,484	TOTALS

- (A) Beginning in 1958-59, this excludes canyon water spread at Ben Lomond.  
 (B) Operated by Pomona Valley Protective Association.  
 (C) Water spread, no records kept.  
 (D) Daily measurements made. Total volume not computed.  
 (E) East Side Water Committee discontinued keeping records as of 1959-60 season. The San Gabriel Spreading Corporation was dissolved in the Spring of 1965. The Canyon Basin Spreading Grounds were then operated by the Committee of Nine until November 1969, at which time the Flood Control District took over operations.  
 (F) Water Spread, records not available.  
 (G) Previously to 1969-70 Fish Canyon Spreading Grounds records were incorporated into San Gabriel Canyon Spreading Grounds.  
 (H) The District took over operation of this facility in November 1969.  
 (J) Record supplied by Pomona Valley Protective Association.

**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT  
WATER CONSERVATION DIVISION  
DISTRIBUTION OF PURCHASED WATER  
THROUGH SEPTEMBER 1977**

**IMPORTED WATER ( ACRE - FEET )**

SEASON	WATER FOR UPPER SAN GABRIEL VALLEY			SUBTOTAL	WATER FOR COASTAL PLAIN			SUBTOTAL	TOTAL IMPORTED	SEASON
	SANTA FE SPREADING GROUNDS (F)	SAN GABRIEL RIVER CANYON (A)	SAN GABRIEL SYSTEM UPPER		MAIN SAN GABRIEL BASIN (B)	SAN GABRIEL SYSTEM LOWER	RIO HONDO SYSTEM (D)			
1953-54					15,610	7,760	7,230	30,600	30,600	1953-54
55					9,750	4,770	9,730	23,250	23,250	55
56					18,820	16,920	14,990	50,730	50,730	56
57					15,220	18,120	20,400	53,740	53,740	57
58					13,557	26,644	64,911	105,112	105,112	58
59					6,013	24,338	24,089	54,420	54,420	59
60					10,959	32,227	37,450	80,636	80,636	60
61					25,740	51,090	70,166	146,996	146,996	61
62					28,164	77,183	102,781	208,128	208,128	62
63					12,418	36,798	29,411	80,627	80,627	63
64					18,830	40,150	45,917	104,897	104,897	64
65			12,400	12,400	29,700	69,995	66,510	166,205	178,605	65
66			12,600	12,600	21,140	38,625 (c)	62,735	122,600	135,100	66
67			29,871	29,871	17,105	20,813	46,322	84,240	114,111	67
68			22,170	22,170	16,487	12,402	66,501	95,390	117,560	68
69			18,567	18,567	4,43	4,895	12,442	17,780	36,347	69
70			0	0	7,901	35,164	25,800	68,865	68,865	70
71			0	0	9,133	21,211	41,802	72,146	72,146	71
72	2,312	604	0	2,916	4,546	14,491	15,413	34,450	37,366	72
73	5,477	1,611	0	7,088	11,285	32,823	47,712	91,820	98,908	73
74	12,376	5,370	0	17,746	12,482	33,771	45,848	92,071	109,817	74
75	17,885	9,439	0	27,324	3,553	32,974	34,234	70,761	98,085	75
76	16,438	13,461 E	0	29,899	12,971	19,611	18,202	50,784	80,648	76
77	8,066	11,834	0	19,902	6,339	5,462	18,767	30,568	50,470	77

- (A) San Gabriel River from Morris Dam to Santa Fe Spreading Grounds.
- (B) Includes unidentifiable minor losses.
- (C) 6,500 Acre-Foot make-up water purchased by the Upper San Gabriel Valley Municipal Water District and spread in the Lower San Gabriel System.
- (D) Rio Hondo Spreading Grounds and Whittier Narrows Reservoir.
- (E) Approximately 15,948 Acre-Foot State Project Water held in temporary Cyclic Storage in the Upper San Gabriel System.
- (F) Water Conserved to Include area From Foothill Blvd, Finger Levees And Reservoir.



**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT  
WATER CONSERVATION DIVISION  
DISTRIBUTION OF PURCHASED WATER  
THROUGH SEPTEMBER 1977**

SEASON	RECLAIMED WATER (ACRE- FEET)			DISTRIBUTED WATER (a)			FINANCED BY			SEASON	
	WHITTIER SAN GABRIEL SYSTEM LOWER	NARROWS RIO HONDO SYSTEM (b)	PLANT SUBTOTAL	SAN JOSE SAN GABRIEL SYSTEM LOWER	PLANT TOTAL RECLAIMED (c)	TOTAL ZONE 1	C&WBWRD	USGVMWD	SGVMWD		
1953-54						30,600	30,032				1953-54
55						23,250	24,764				55
56						50,730	54,539				56
57						53,740	50,030				57
58						105,112	105,112				58
59						54,420	54,420				59
60						80,636	80,926				60
61						146,996	80,807	66,374			61
62	0	1,178	1,178		1,178	209,306	39,492	169,814			62
63	0	12,405	12,405		12,405	93,032	4,780	88,252			63
64	4,145	9,115	13,260		13,260	118,157	0	118,157			64
65	4,866	9,662	14,528		14,528	193,133	75,456	99,196	12,400		65
66	3,130	11,926	15,056		15,056	150,156	67,813	68,903	19,100(d)		66
67	2,105	14,119	16,224		16,224	130,335	74,060	26,404	29,871		67
68	1,975	16,300	18,275		18,275	135,835	66,591	47,074	22,170		68
69	7,772	6,105	13,877		13,877	50,224	12,529	19,128	18,567		69
70	3,683	13,474	17,157		17,157	86,022	25,792	60,230	0		70
71	8,367	11,128	19,495		19,495	91,641	46,726	44,915	0		71
72	4,959	12,584	17,543		17,543	54,909	0	51,993	2,916		72
73	1,440	12,238	13,678	8,327	22,005	120,913	0	113,825	7,088		73
74	2,560	10,877	13,437	7,956	21,393	131,210	0	113,484	17,421		74
75	877	13,799	14,676	7,207	21,883	119,968	0	92,644	24,611	2,713	75
76	1,235	11,169	12,404	9,062	21,466	87,757	0	72,249	7,692	7,816	76
77	3,002	7,155	10,157	12,705	22,862	72,867	0	53,312	10,448	9,107	77
TOTALS	50,116	173,219	223,335	45,257	268,609	2,389,849	903,869	1,305,934	172,284	19,636	TOTALS

- (a) Differences between water distributed and water financed by due to the following:
1. Water temporarily held in storage at Puddingstone Reservoir from one water year to the next.
  2. Losses in Puddingstone Reservoir.
  3. District records are based on 12 midnight readings, amounts shown under Financing Column are based on meter readings taken during normal working hours.
  4. Includes unidentifiable minor losses.
- (b) Rio Hondo Spreading Grounds and Whittier Narrows Reservoir.
- (c) All reclaimed water purchased by Central and West Basin Water Replenishment District.
- (d) 6,500 Acre-Feet make-up water purchased by the Upper San Gabriel Valley Municipal Water District and spread in the lower San Gabriel System.
- (e) Approximately 15,948 Acre-Feet State Project Water held in temporary Cyclic Storage in the Upper San Gabriel System.

**LOS ANGELES COUNTY FLOOD CONTROL DISTRICT  
WATER CONSERVATION DIVISION  
SUMMARY OF WATER INJECTED AT BARRIER PROJECTS  
UPDATED THROUGH SEPTEMBER 1977**

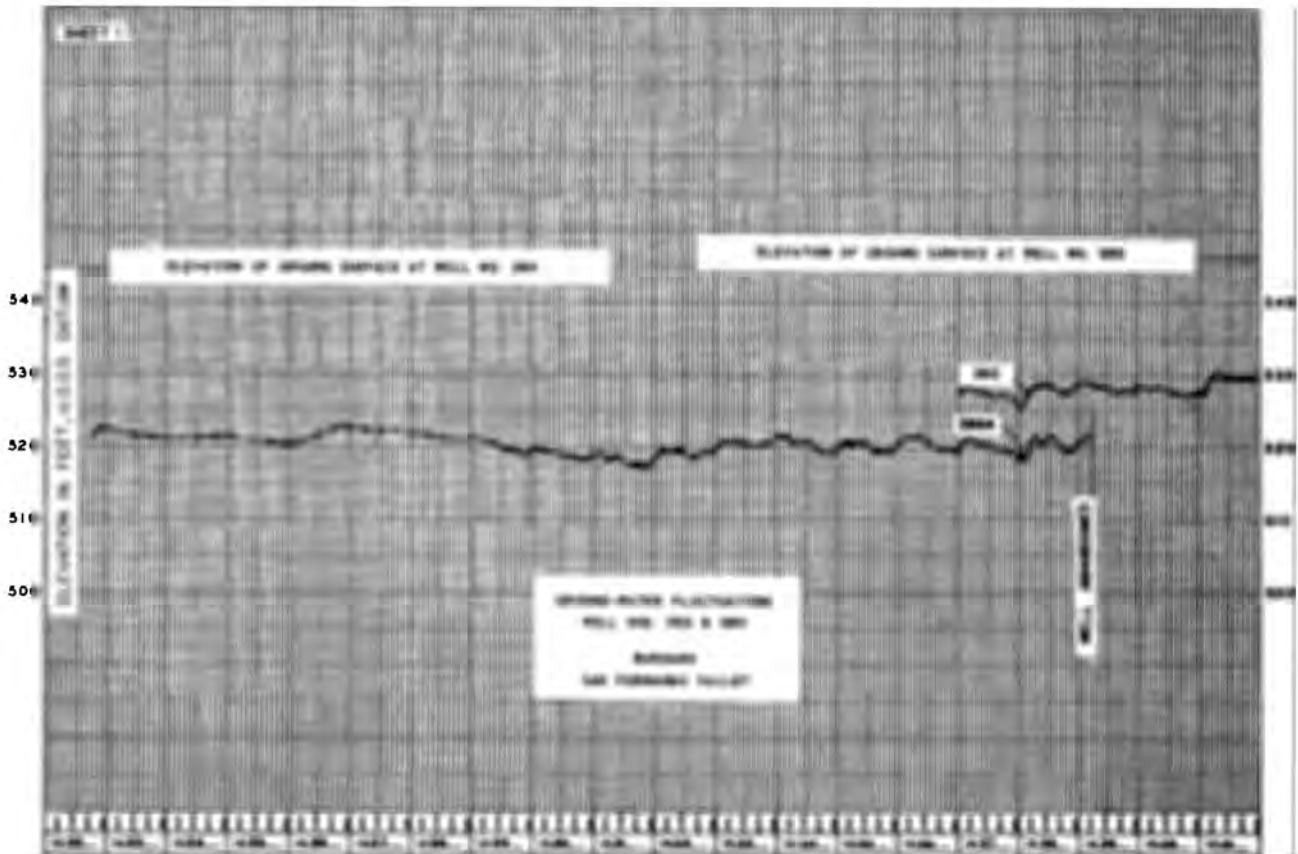
WATER YEAR	WEST COAST BASIN BARRIER PROJECT				ALAMITOS BARRIER PROJECT			DOMINGUEZ GAP BARRIER PROJECT			TOTAL ALL PROJECTS	
	STATE APPROPRIATION	C & WBWRD	WBWA	ZONE II	TOTAL WCBBP	C & WBWRD	OCWD	TOTAL ABP	C & WBWRD	ZONE II		TOTAL DGBP
1952-53	1,141*				1,141							1,141
54	761*		1,673	856	3,290							3,290
55				2,744	2,744							2,744
56				2,840	2,840							2,840
57				3,592	3,592							3,592
58				4,331	4,331							4,331
59				3,695	3,695							3,695
60				3,804	3,804							3,804
61		2,944		1,532	4,476							4,476
62		4,512			4,512							4,512
63		4,194			4,194							4,194
64		10,450			10,450							10,450
65		33,015			33,015	2,758	198	2,956				35,971
66		44,388			44,388	3,368	347	3,715				48,103
67		32,658		10,402	43,060	3,395	485	3,880				46,940
68		6,127		33,456	39,583	4,214	735	4,949				44,532
69		3,981		32,435	36,416	4,310	945	5,255				41,671
70		6,627		22,834	29,461	3,757	724	4,481				33,942
71		16,519		13,348	29,867	3,309	823	4,132	852	1,346	2,198	36,197
72		26,491			26,491	4,061	933	4,994	9,551		9,551	41,036
73		28,148			28,148	4,299	881	5,180	8,468		8,468	41,796
74		27,541			27,541	6,138	1,149	7,287	7,829		7,829	42,657
75		26,434			26,434	4,443	716	5,159	5,161		5,161	36,754
76		35,219			35,219	4,088	566	4,654	4,938		4,938	44,811
77		34,261			34,261	4,891	884	5,775	9,278		9,278	49,314
TOTALS	1,902	343,509	1,673	135,869	482,953	53,031	9,386	62,417	46,077	1,346	47,423	592,783

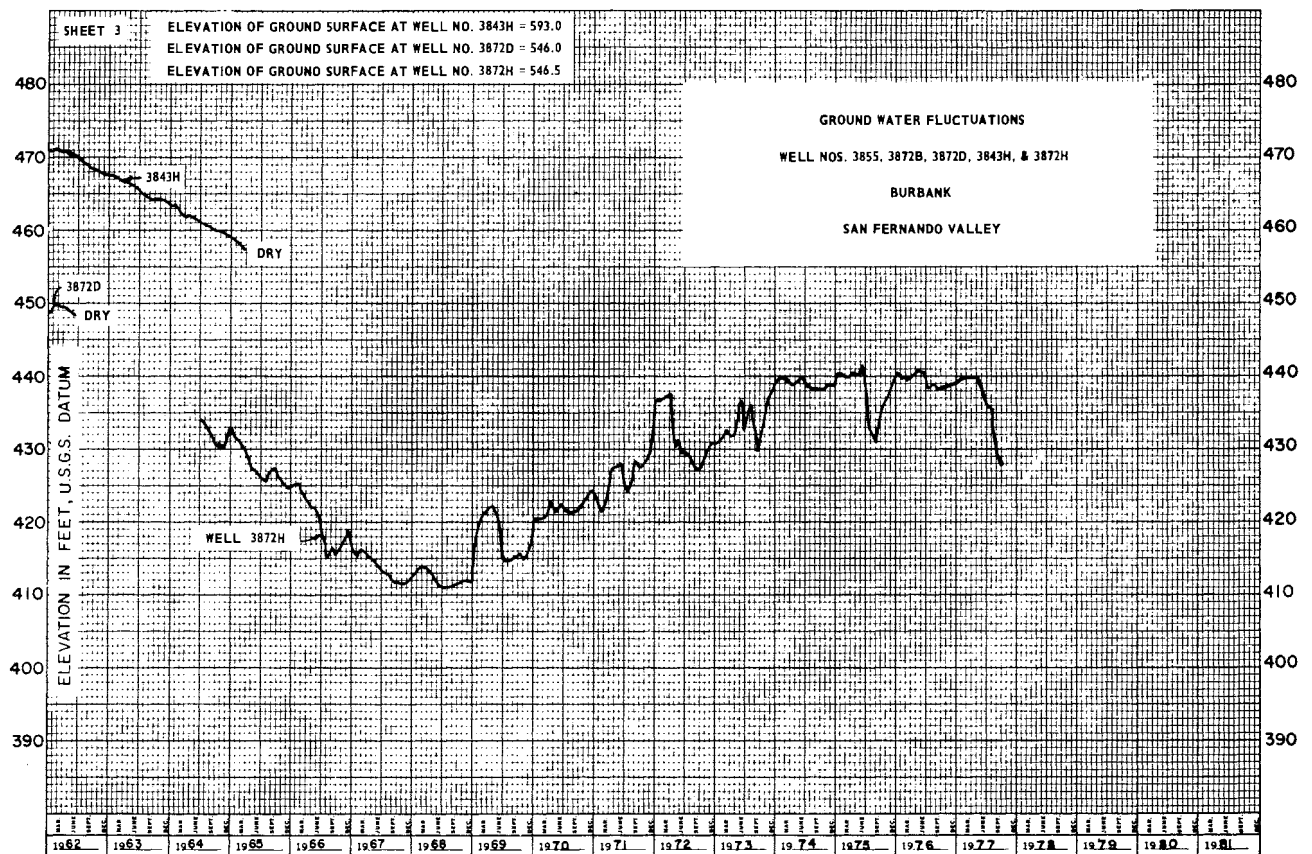
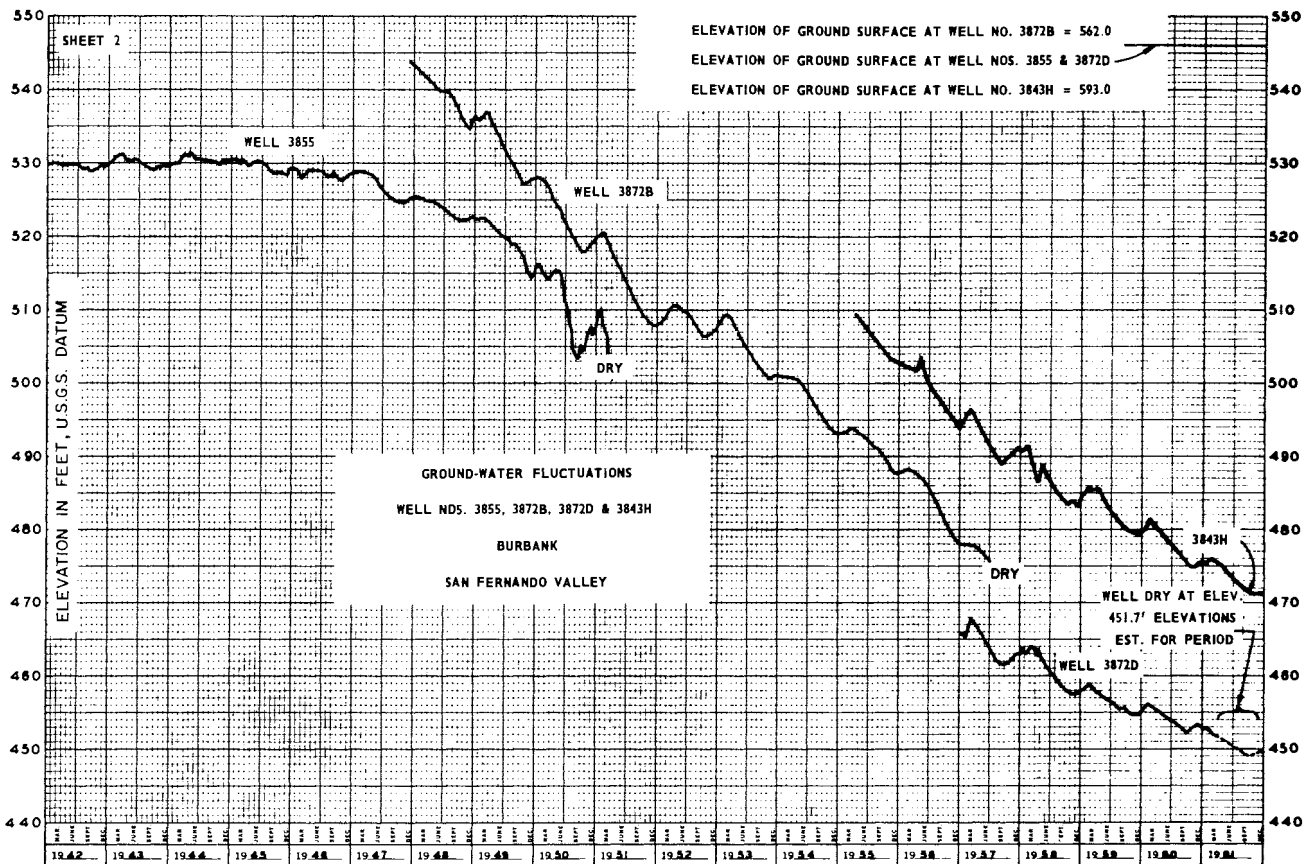
\*FUNDS PROVIDED FOR WEST COAST BASIN EXPERIMENT PROJECT BY STATE WATER RESOURCES BOARD.

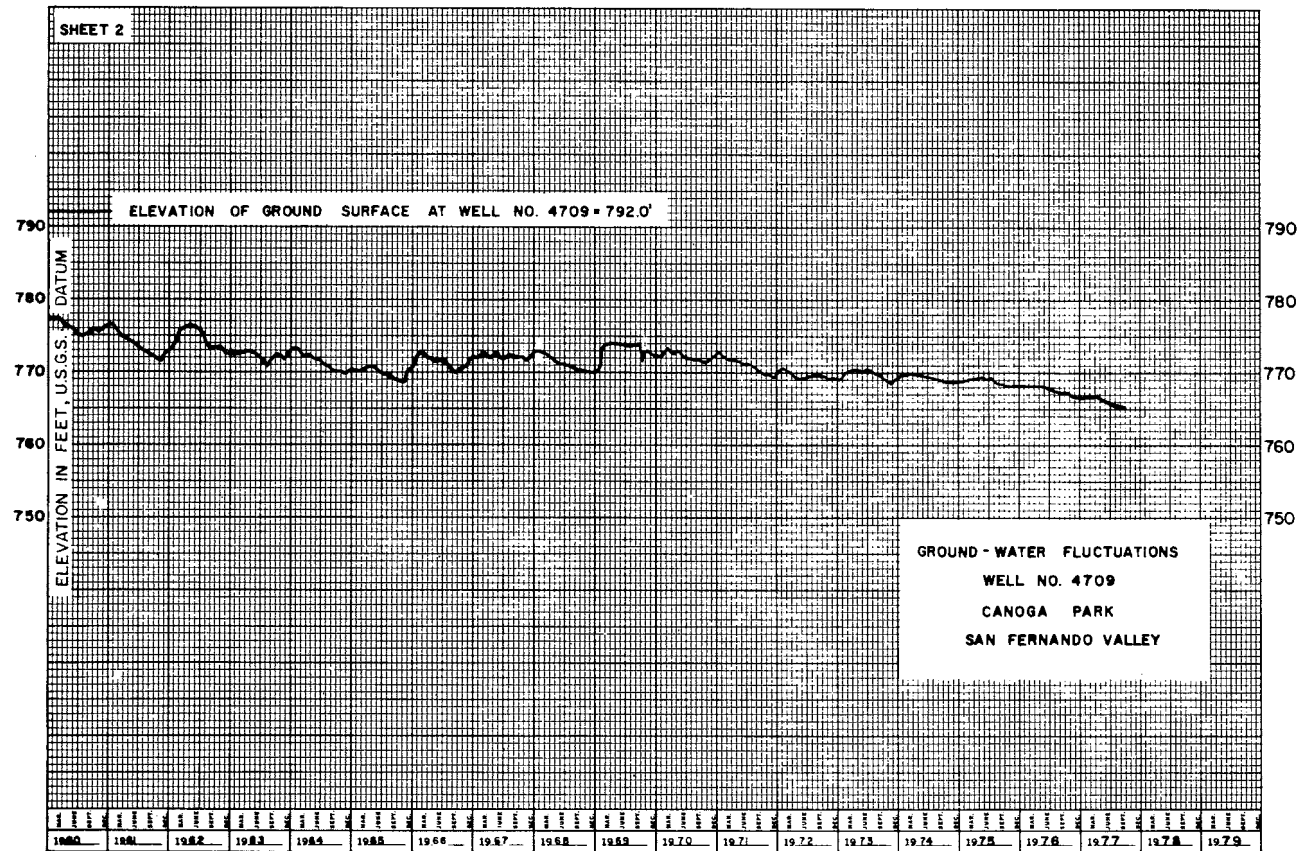
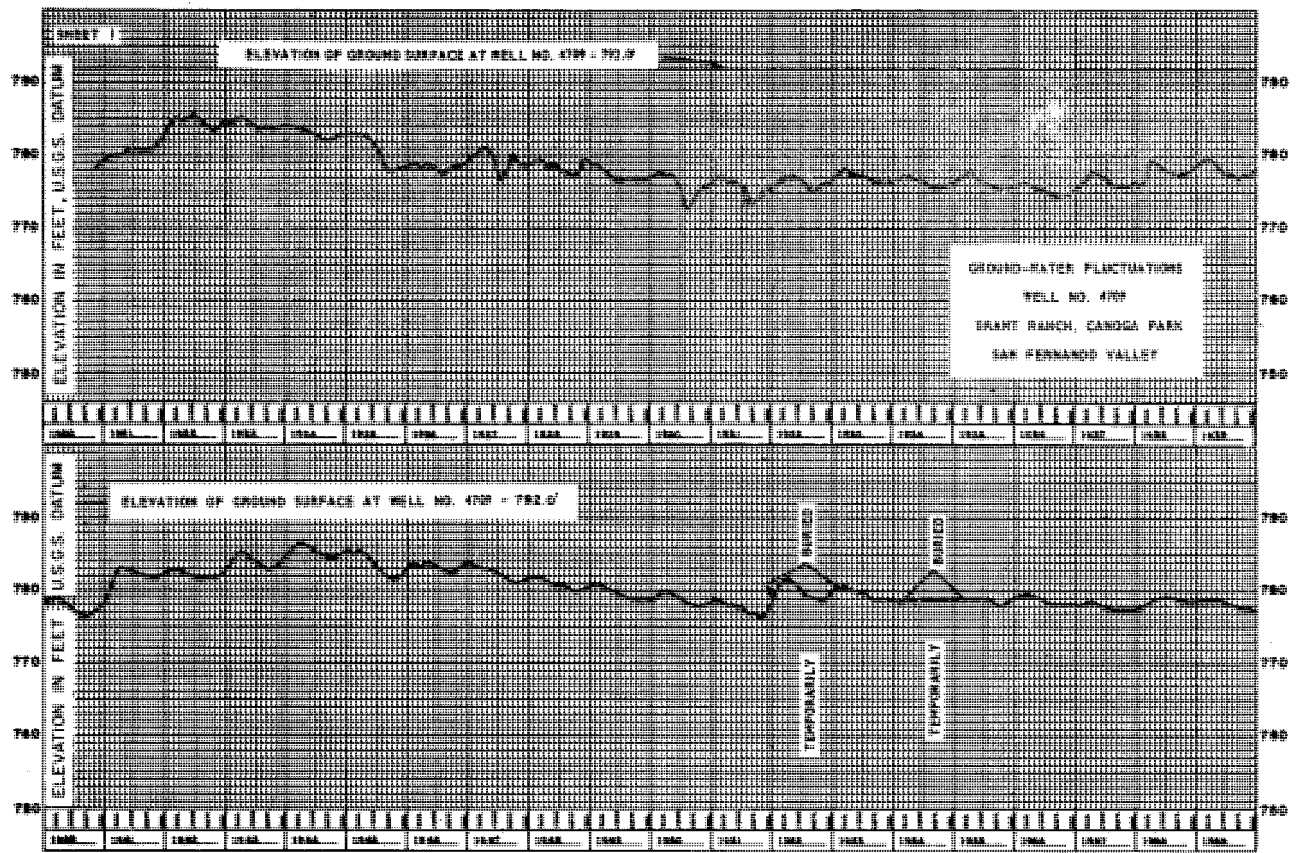
WELL HYDROGRAPHS INCLUDED IN THIS REPORT

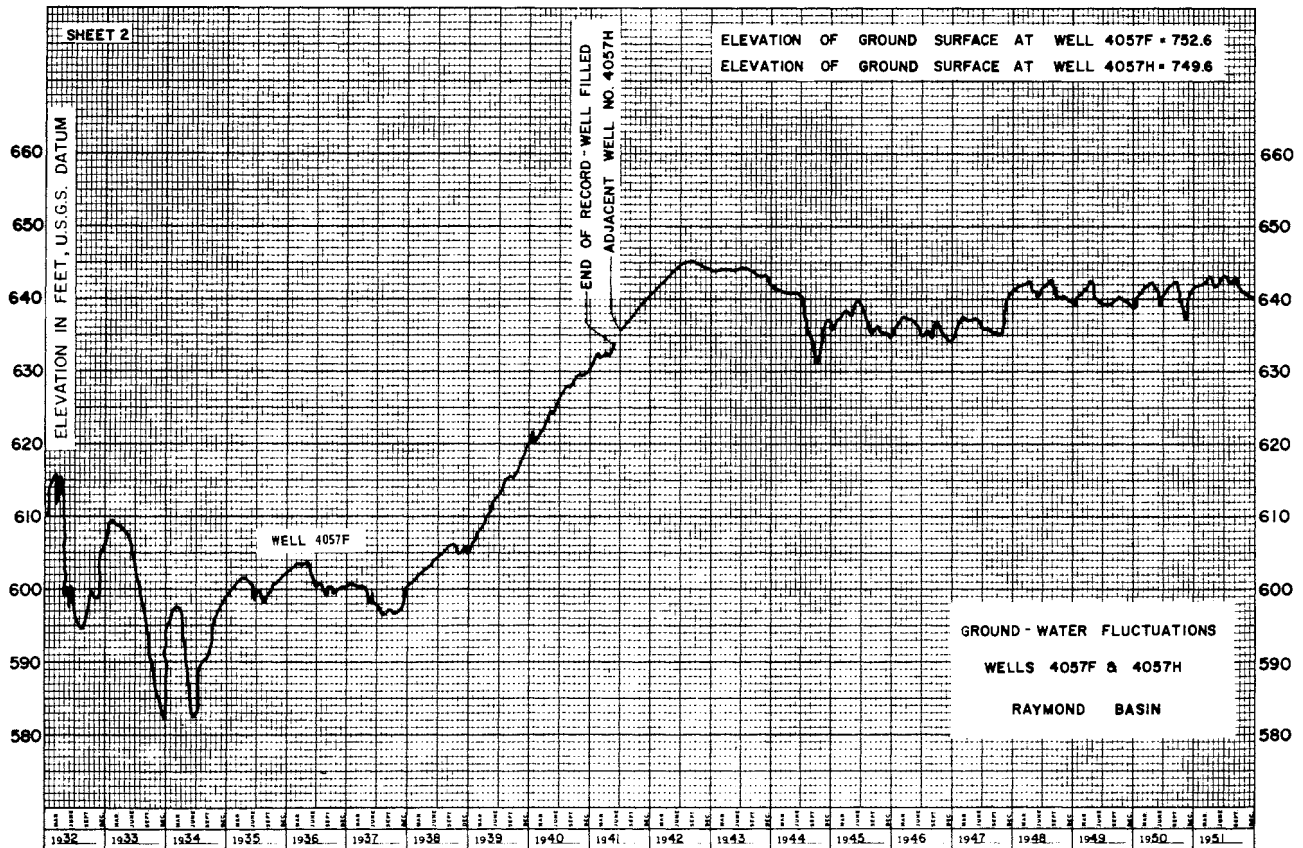
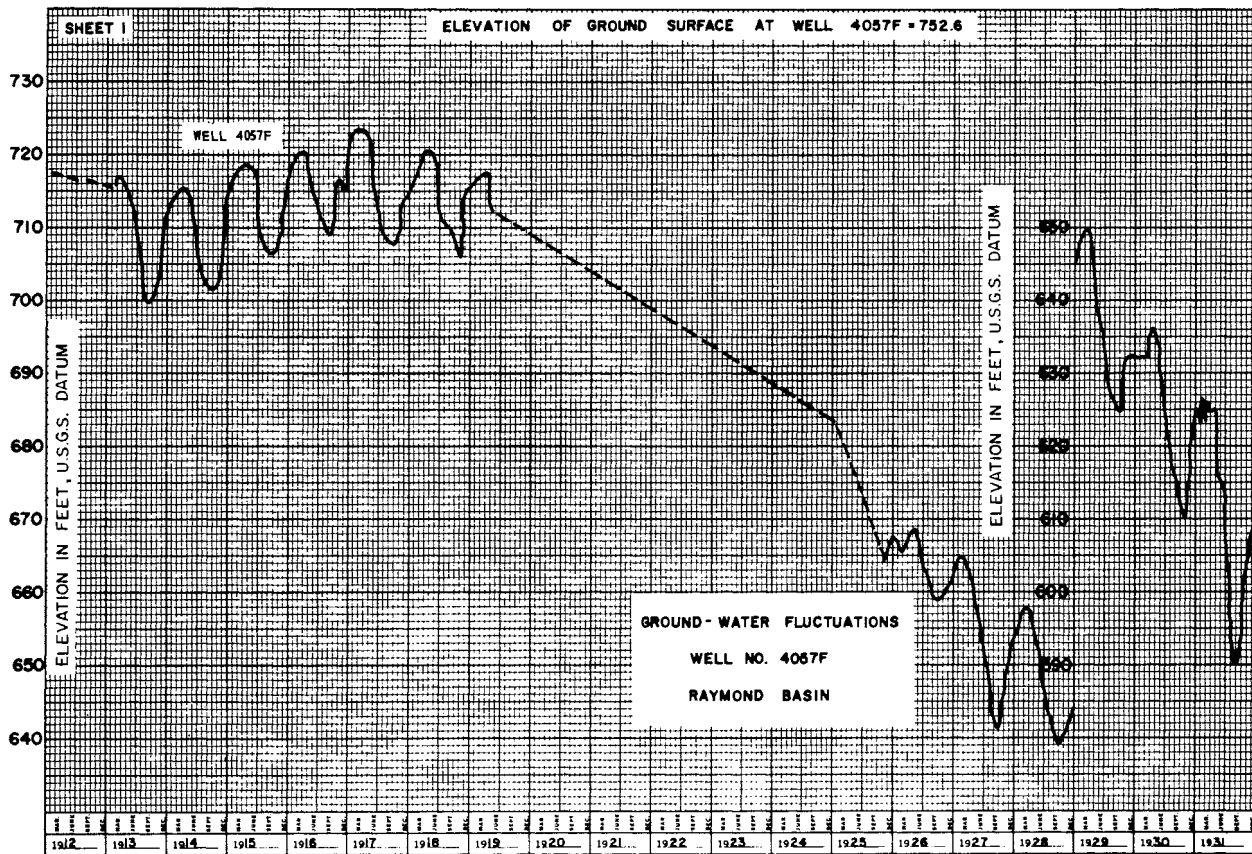
WELL NO.*	GROUND-WATER BASIN	APPROXIMATE LOCATION	PAGE NO.
3872H	MAIN SAN FERNANDO BASIN	CLARK AVENUE AND GRIFFITH PARK DRIVE, BURBANK	319
4709	MAIN SAN FERNANDO BASIN	SHERMAN WAY AND DEERING AVENUE, CANOGA PARK	321
4057H	RAYMOND BASIN	LOS ROBLES AND GLENARM STREETS, PASADENA	322
2955X	MAIN SAN GABRIEL	TYLER AVENUE AND CENTRAL AVENUE, SOUTH EL MONTE	324
3030F	MAIN SAN GABRIEL	600 FEET NORTHWEST OF THE INTERSECTION OF LOS ANGELES STREET AND MAINE AVENUE, BALDWIN PARK	325
4284A	UPPER SAN GABRIEL CANYON	3600 FEET NORTHWEST OF THE INTERSECTION OF SIERRA MADRE AVENUE AND SAN GABRIEL CYN. RD., AZUSA	327
4508B	UPPER CLAREMONT HEIGHTS	800 FEET SOUTHEAST OF THE INTERSECTION OF BASE LINE RD. AND PADUA AVENUE, CLAREMONT	328
3251E	POMONA BASIN	2,200 FEET NORTH OF THE INTERSECTION OF SAN BERNARDINO FREEWAY AND TOWNE AVENUE, POMONA	330
1601T	CENTRAL BASIN	1,000 FEET SOUTH OF THE INTERSECTION OF WASHINGTON BOULEVARD AND ROSEMEAD BOULEVARD, MONTEBELLO	332
906D	CENTRAL BASIN	1,300 FEET NORTHWEST OF THE INTERSECTION OF LONG BEACH BOULEVARD AND SAN ANTONIO DRIVE, LONG BEACH	333
460K	CENTRAL BASIN	2,600 FEET NORTHEAST OF THE INTERSECTION OF LAKEWOOD BOULEVARD AND PACIFIC COAST HIGHWAY, LONG BEACH	335
760C	WEST BASIN	99 FEET SOUTHWEST OF THE INTERSECTION OF COMPTON BLVD. AND DOTY AVENUE, LAWDALE	336
7048A	SANTA CLARITA VALLEY	SOUTHEAST OF THE INTERSECTION OF NEWHALL AVENUE AND MAGIC MT. PKWY., SAUGUS	338
9962D	LANCASTER	1,500 FEET NORTHWEST OF THE INTERSECTION OF SIERRA HIGHWAY AND AVENUE K, LANCASTER	339

\* WELL LISTED IS THAT WELL CURRENTLY BEING MEASURED AT THE LOCATION DESCRIBED.

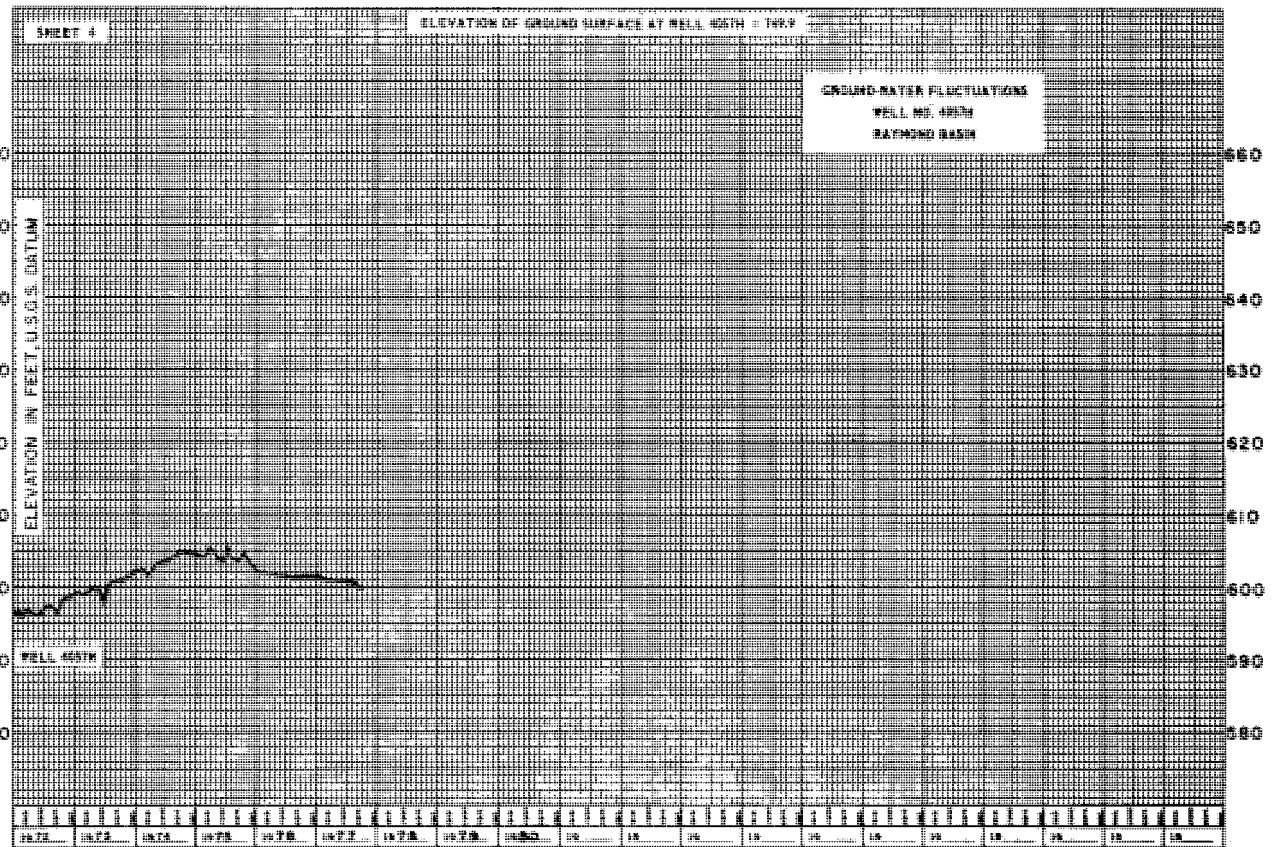
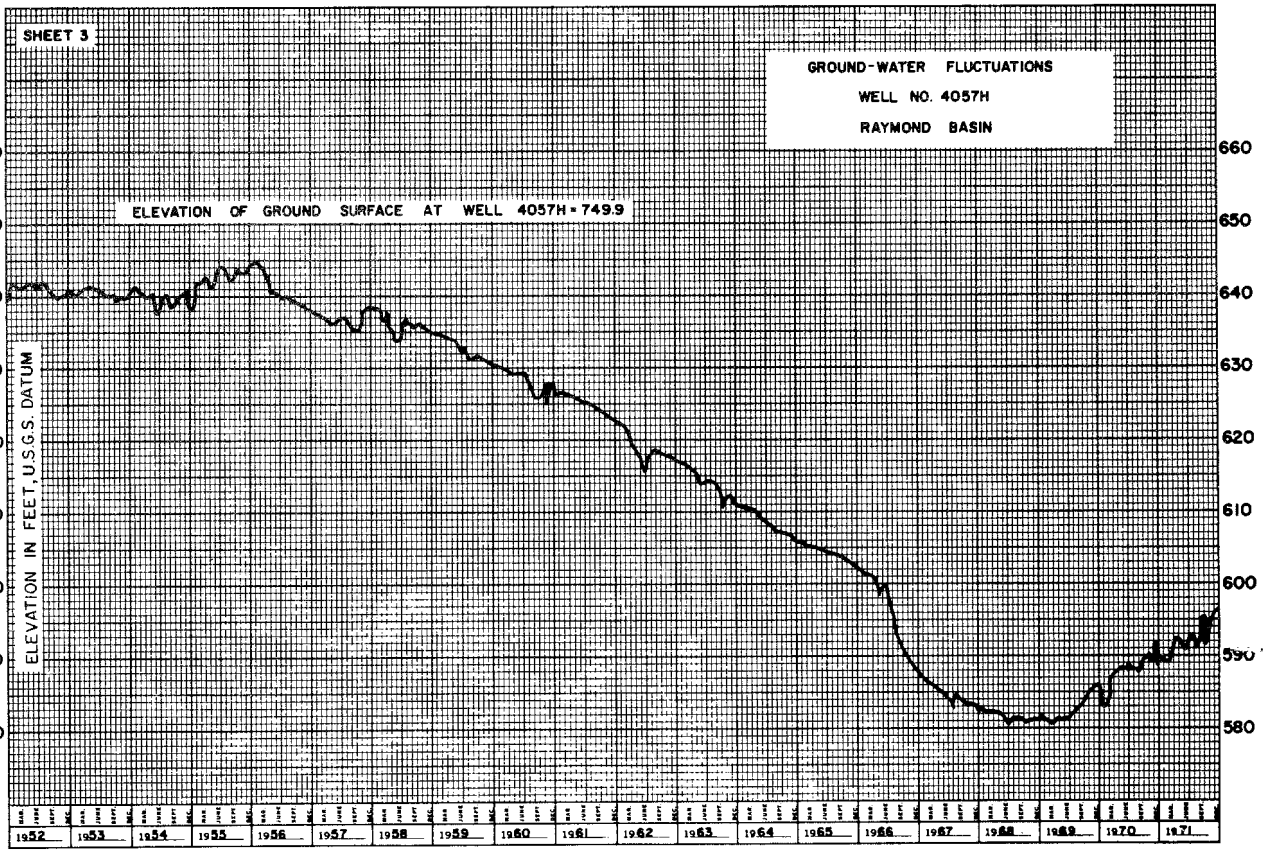


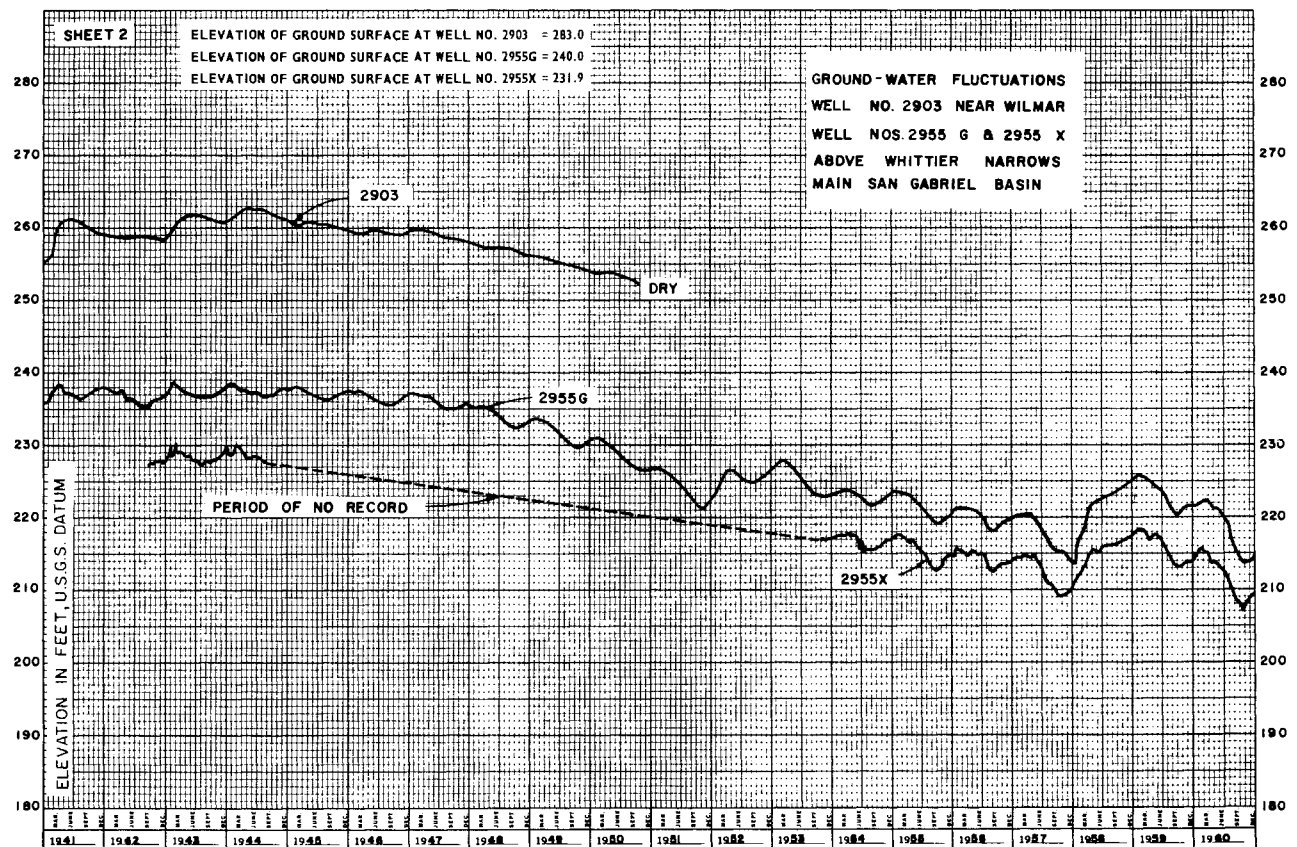
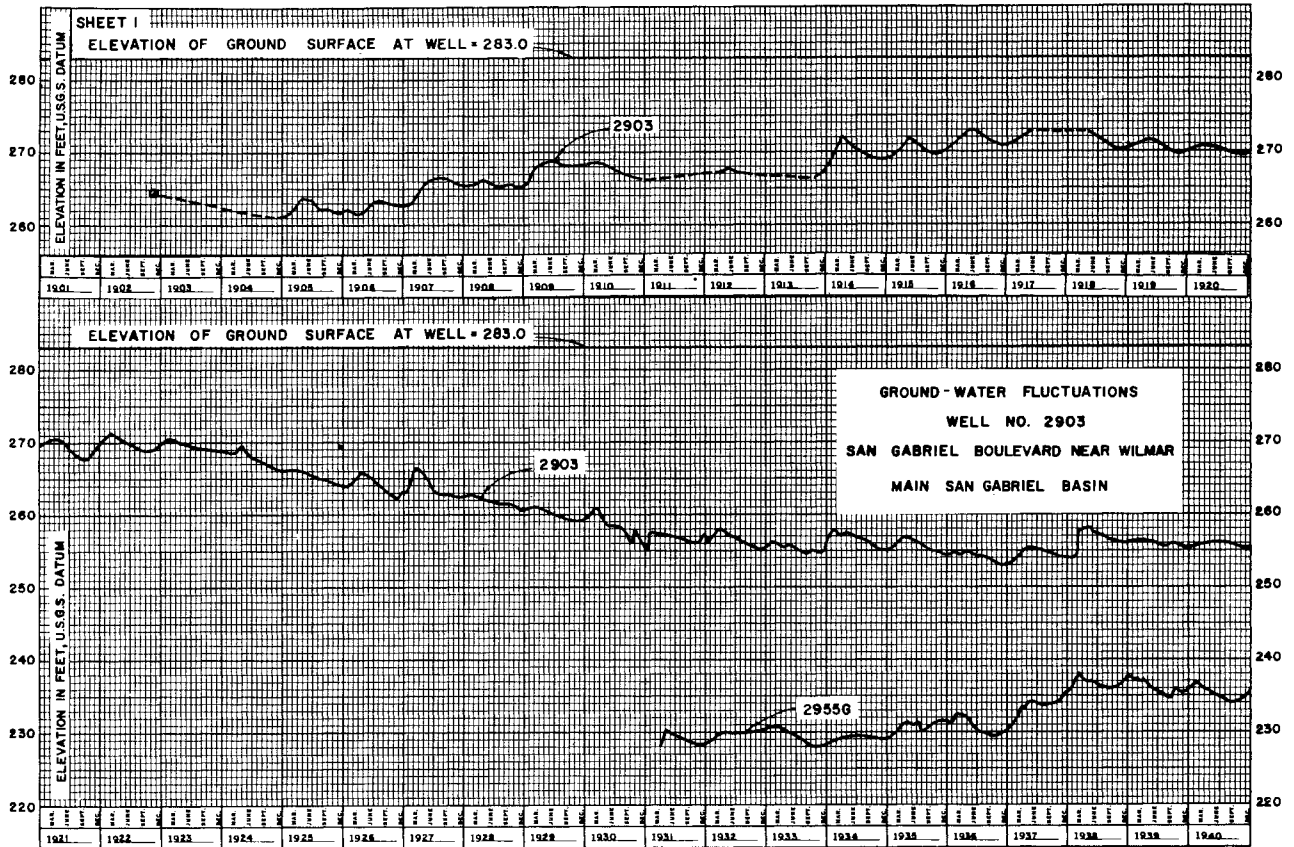




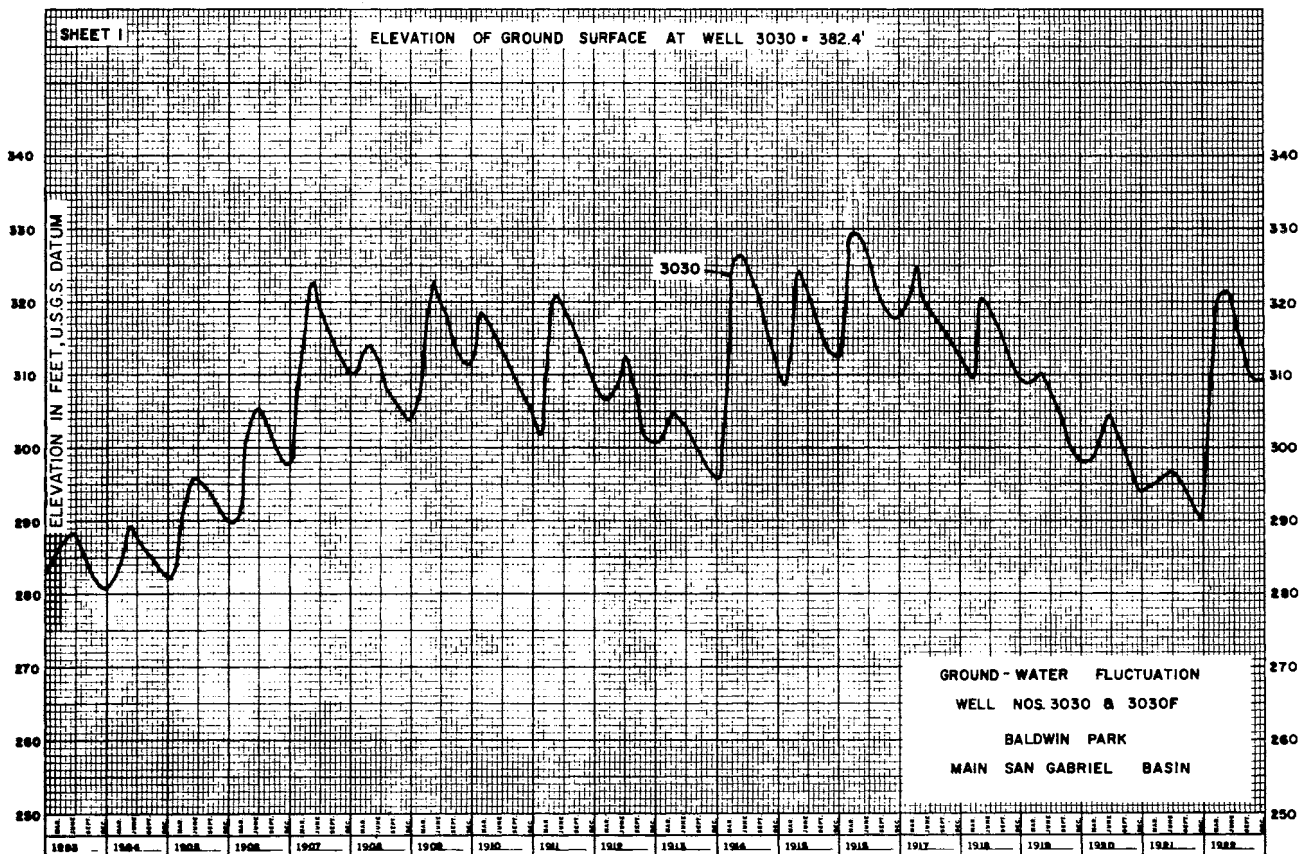
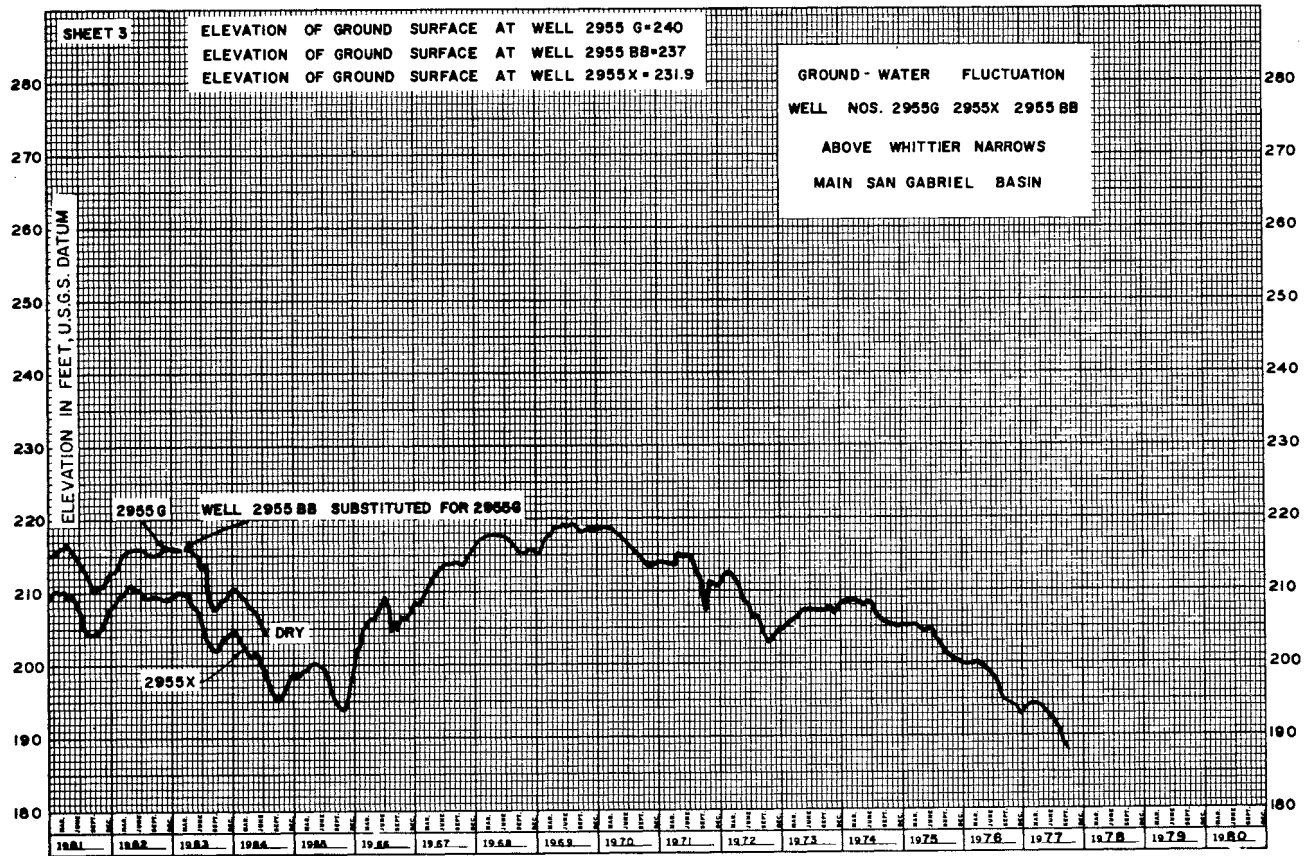


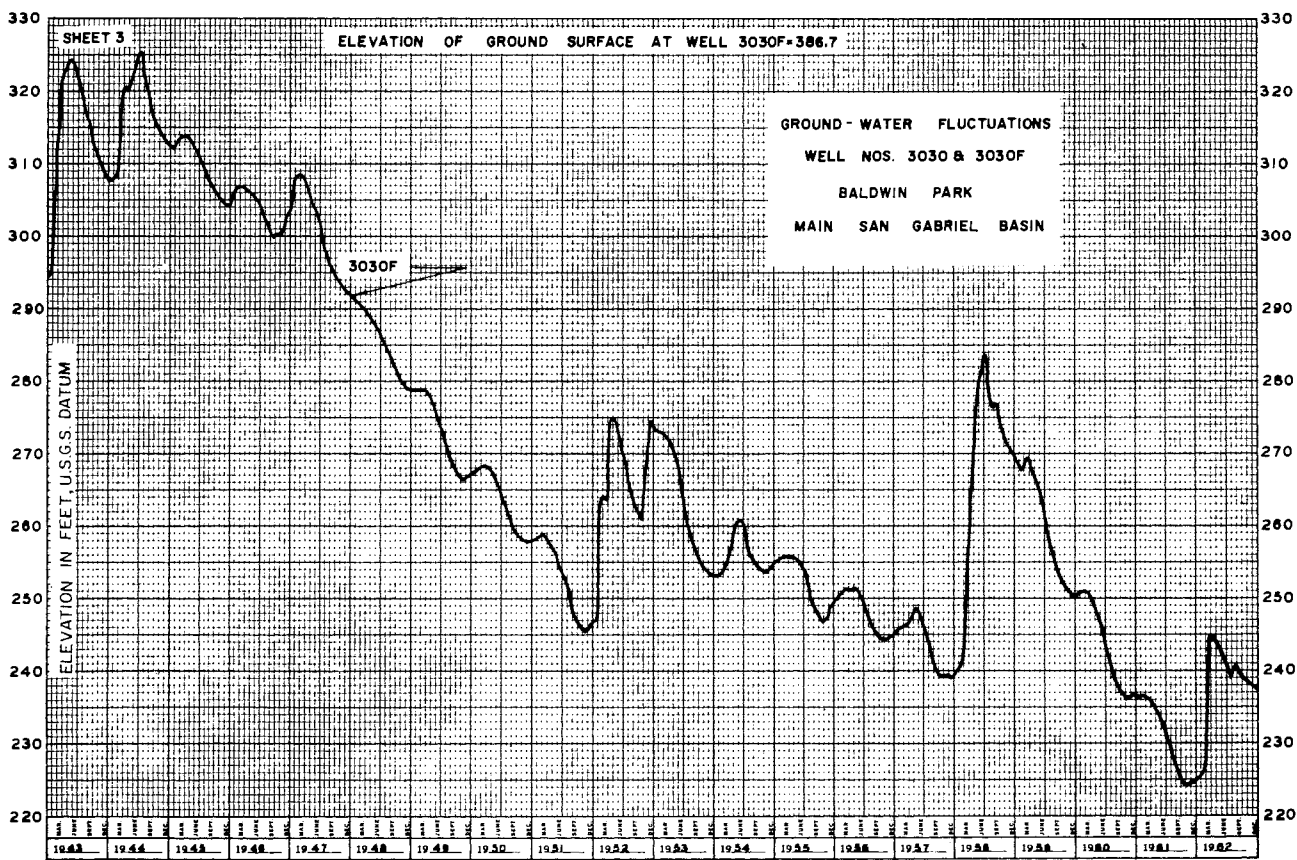
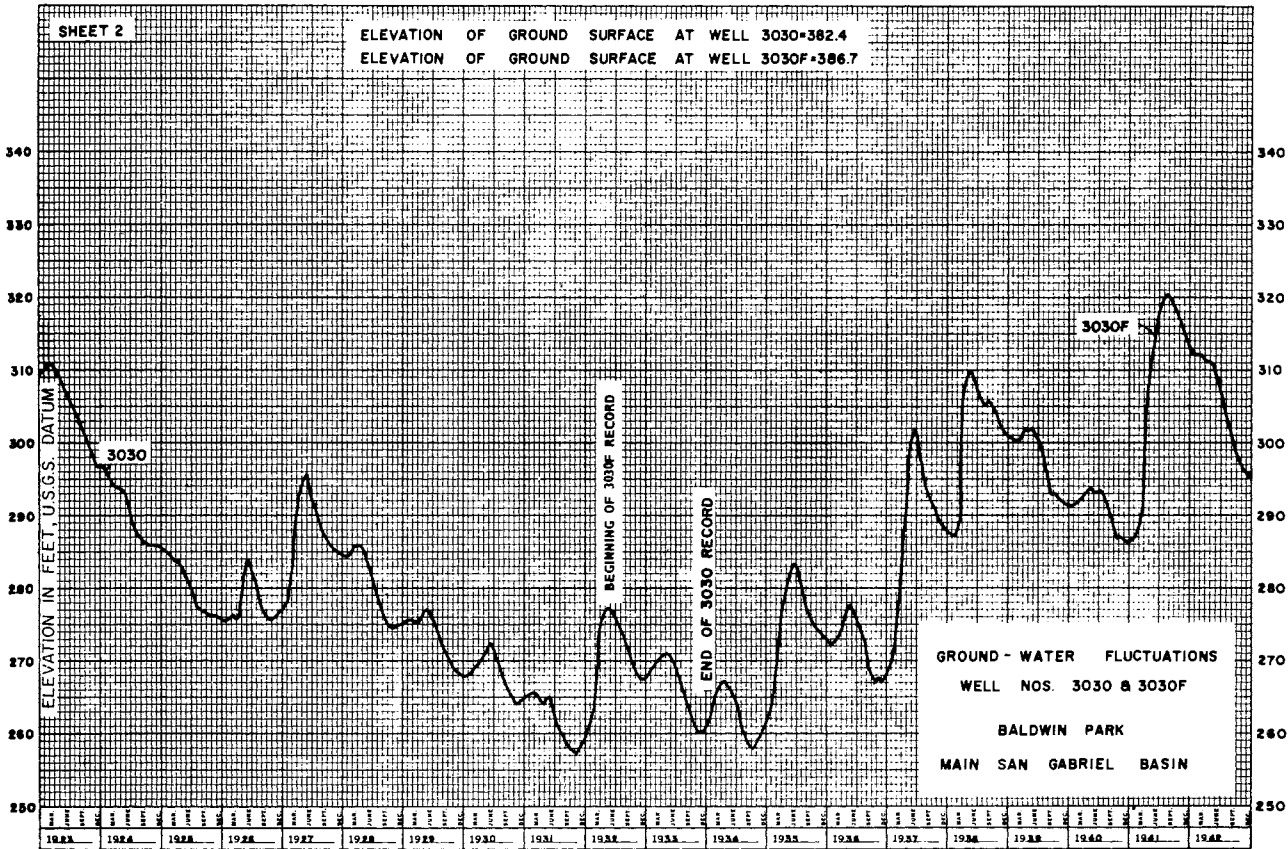


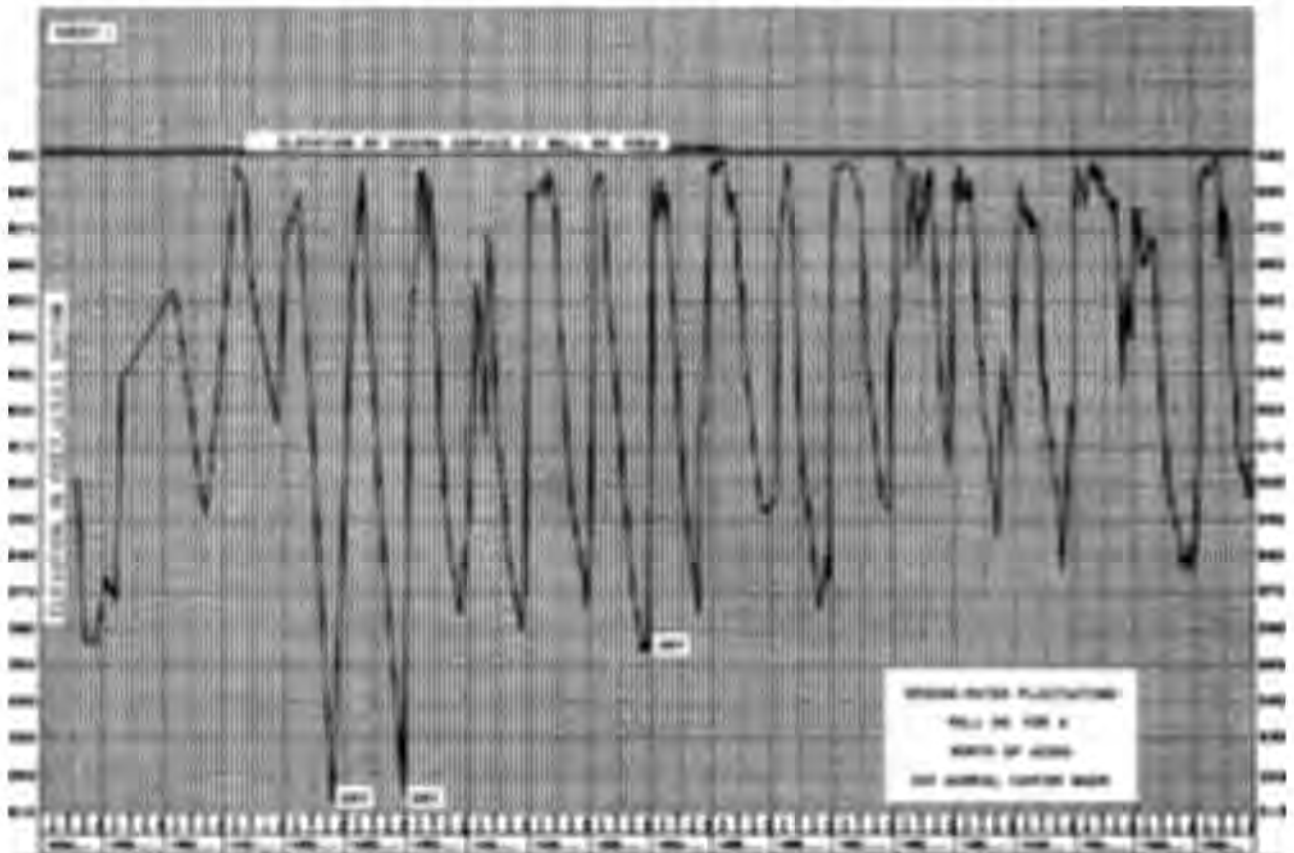
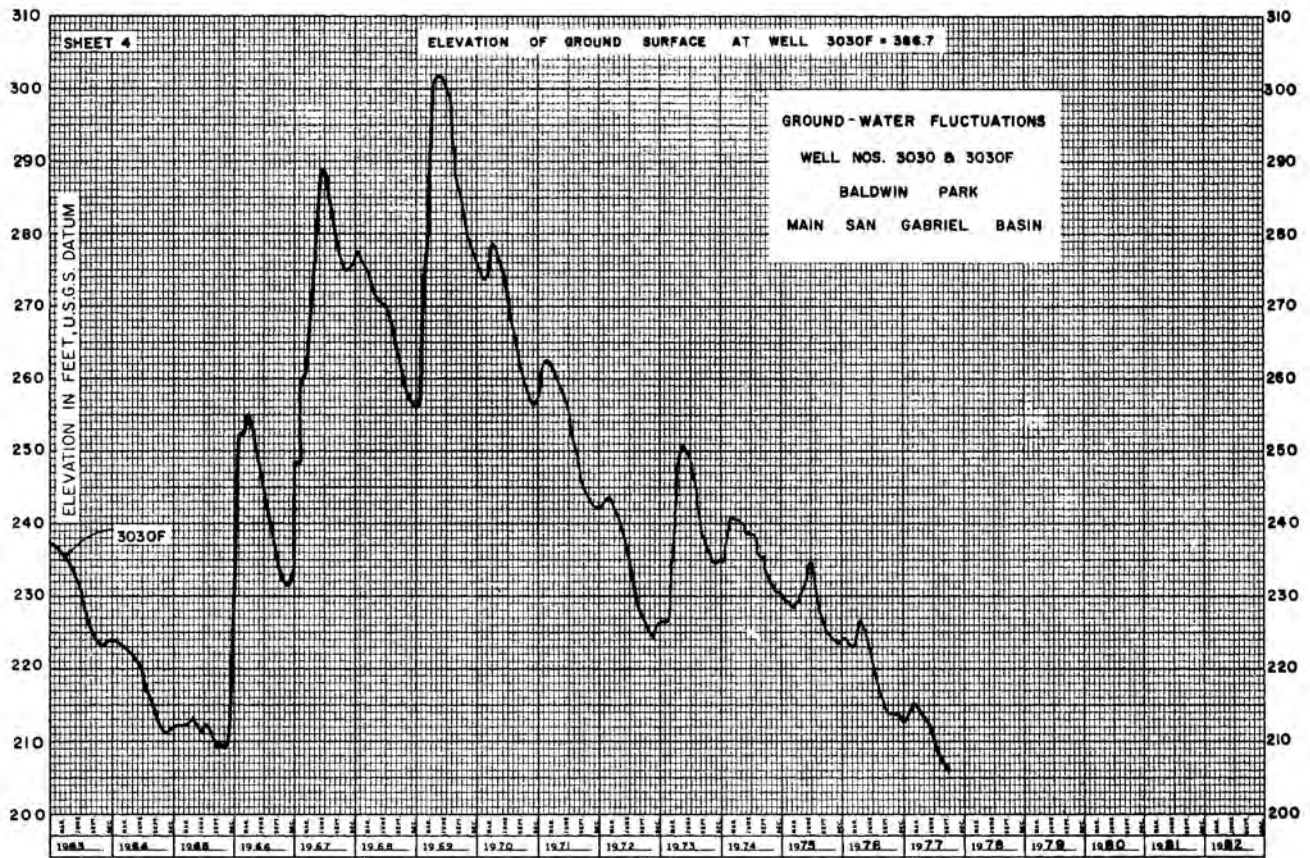








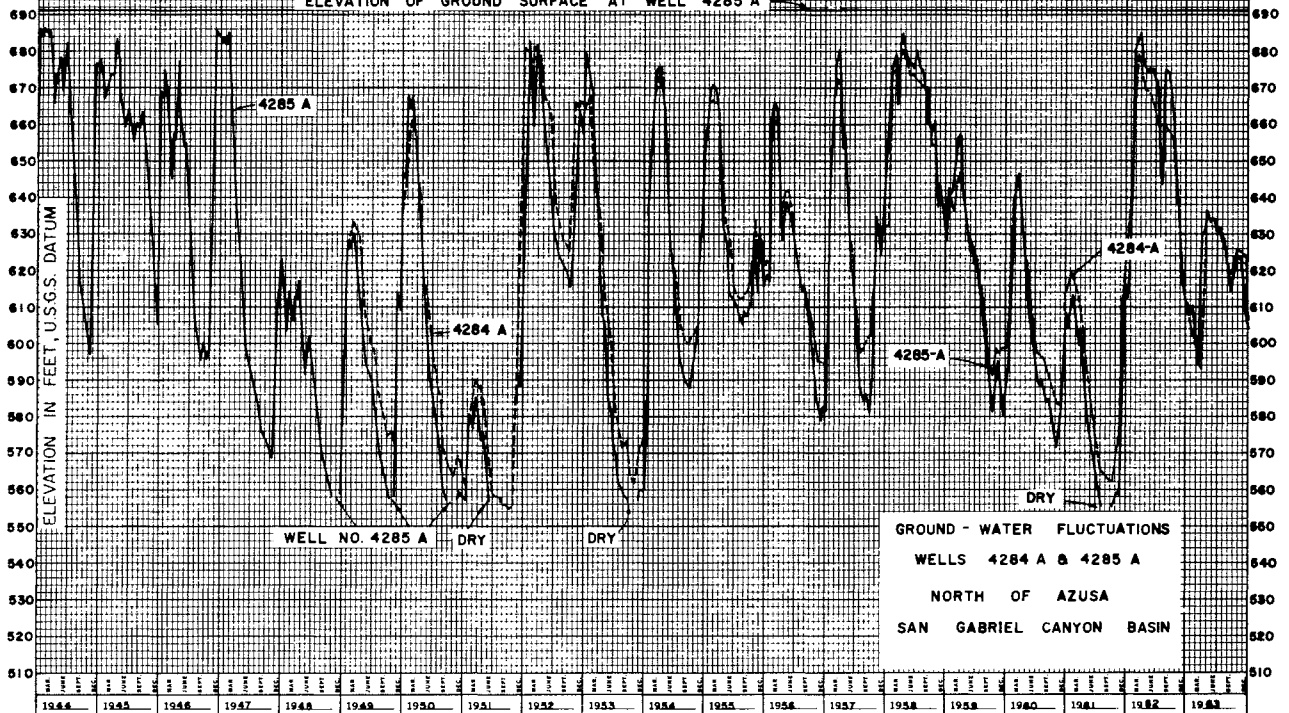






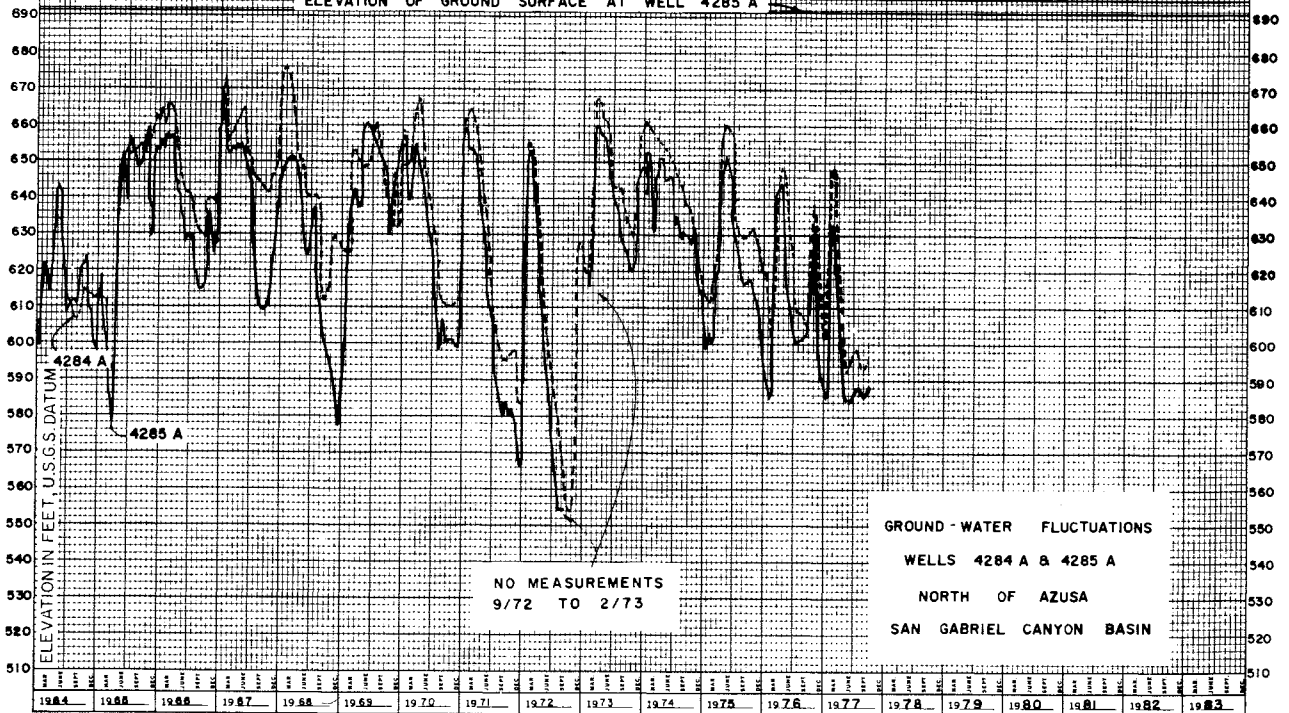
SHEET 2

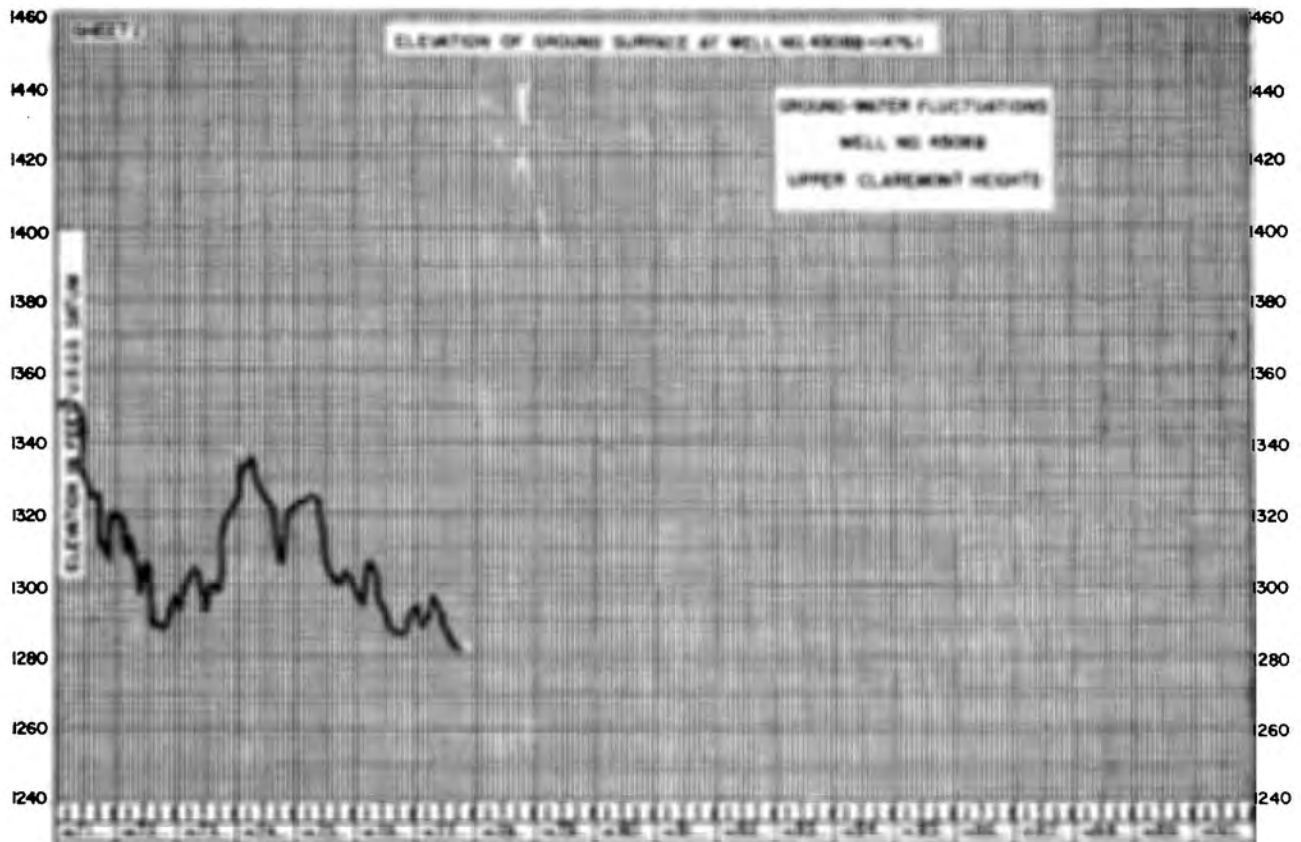
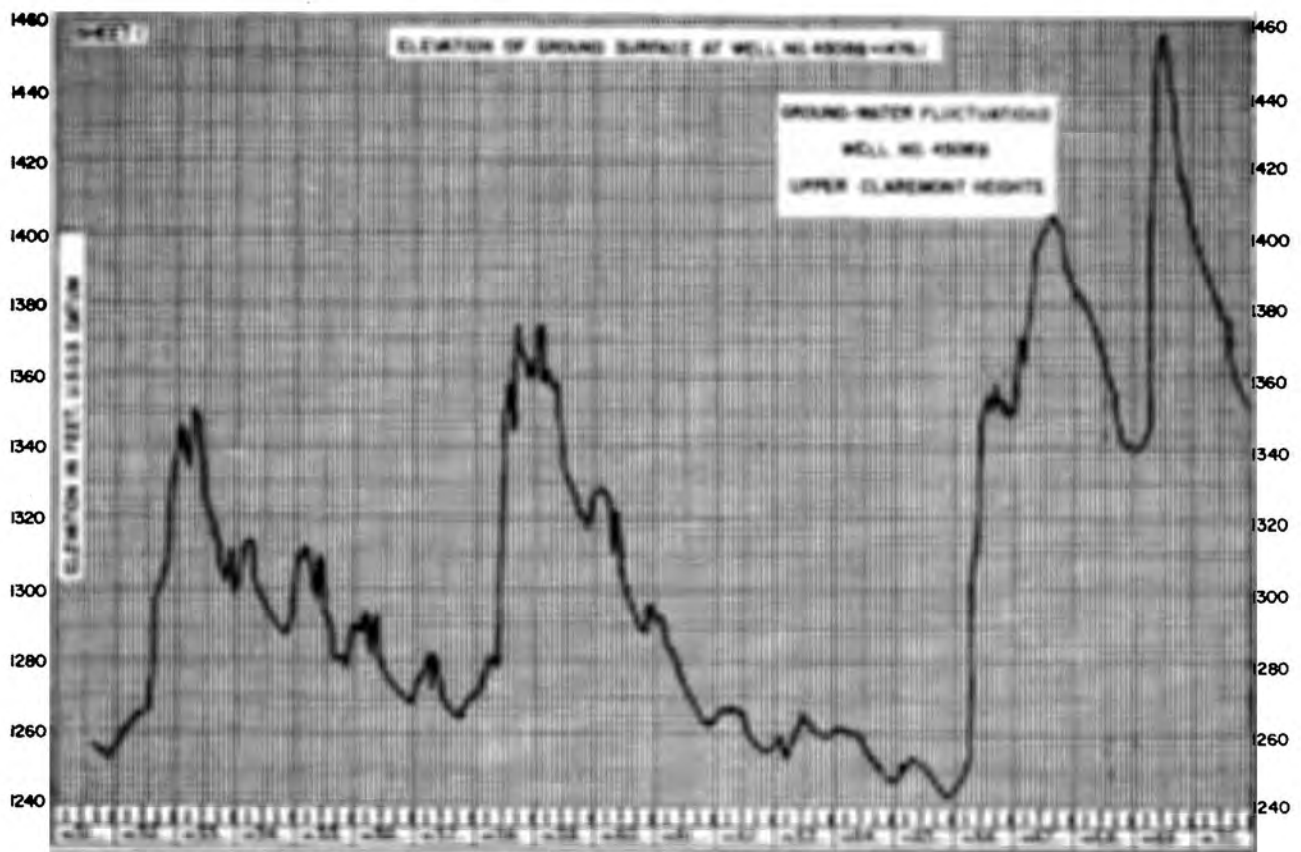
ELEVATION OF GROUND SURFACE AT WELL 4284 A  
ELEVATION OF GROUND SURFACE AT WELL 4285 A

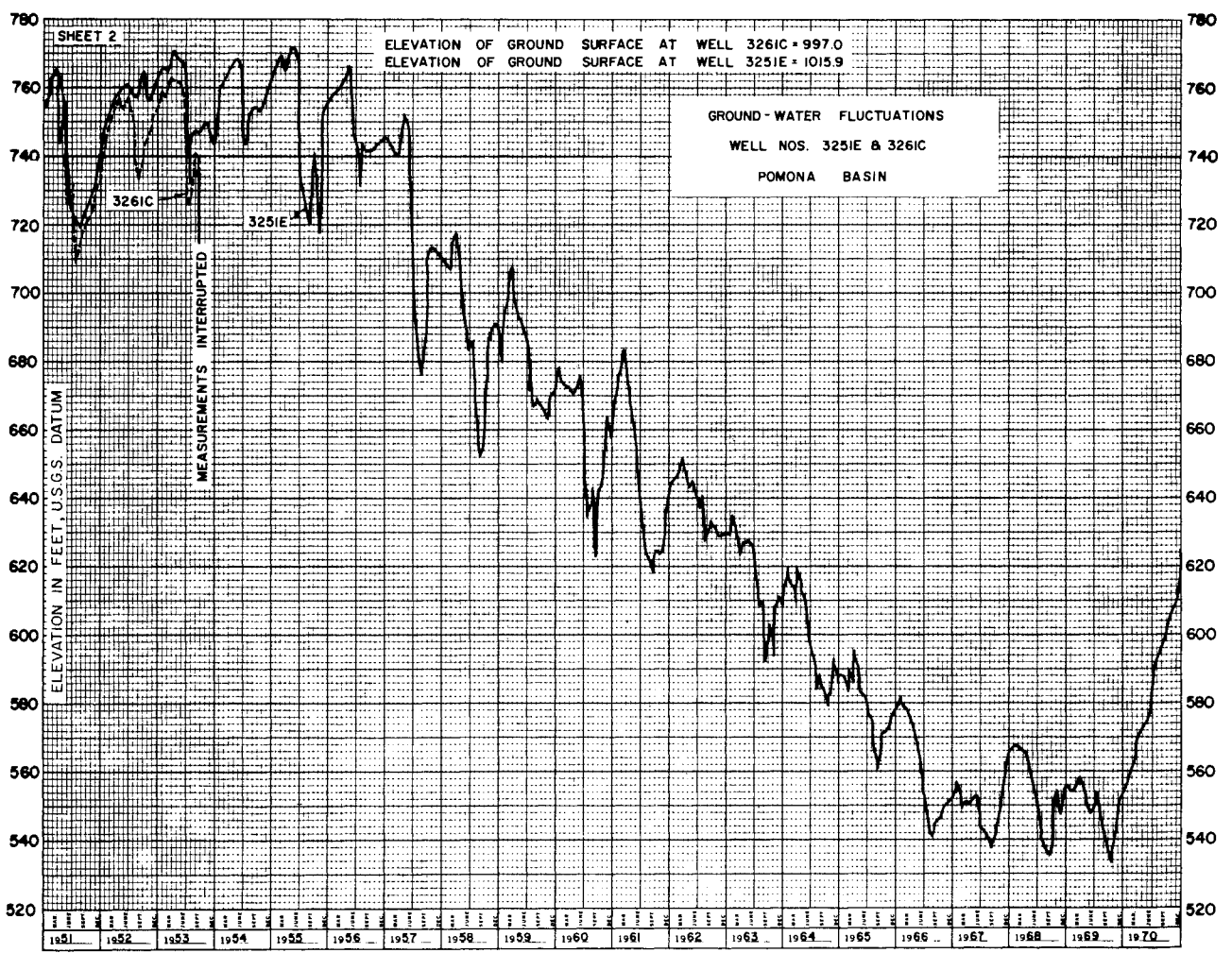
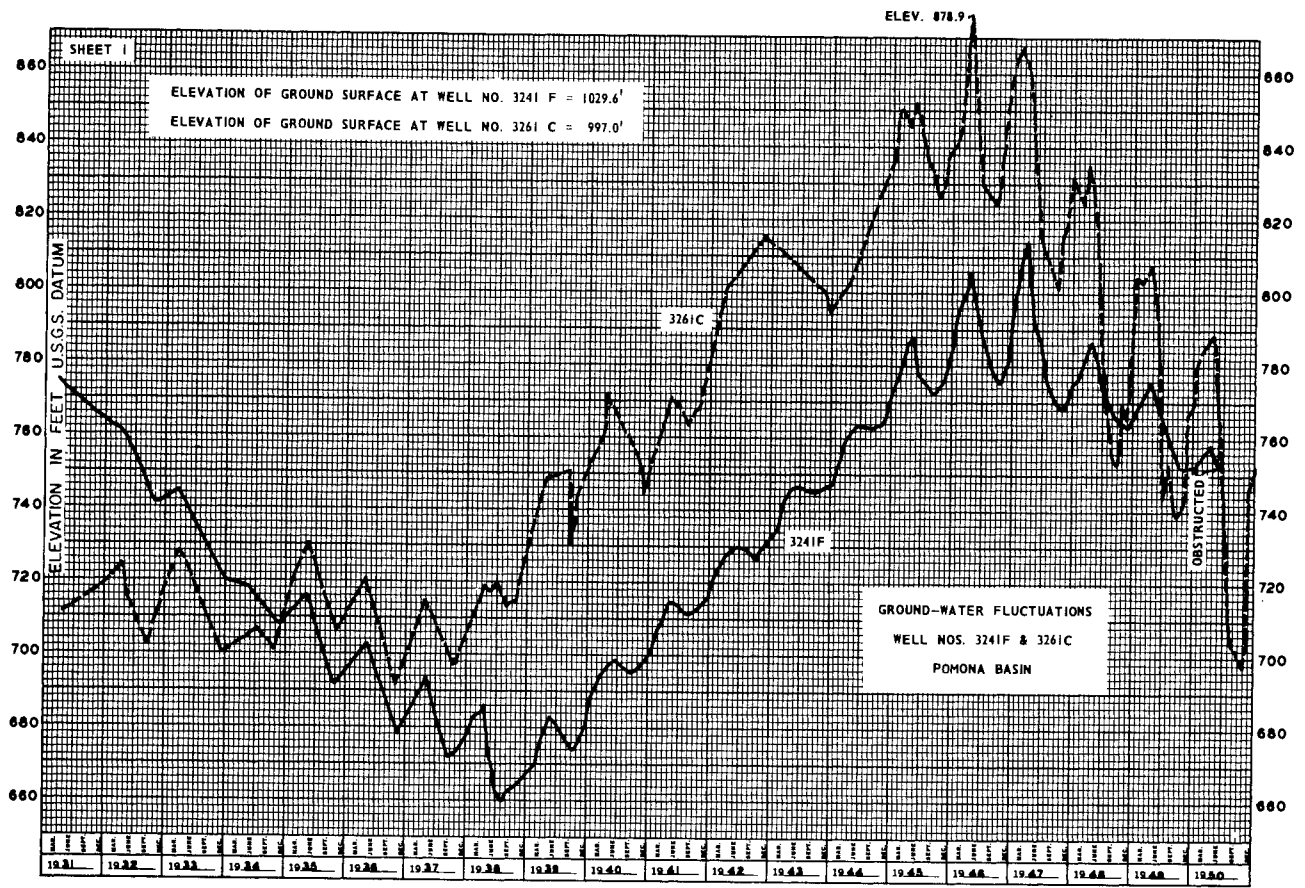


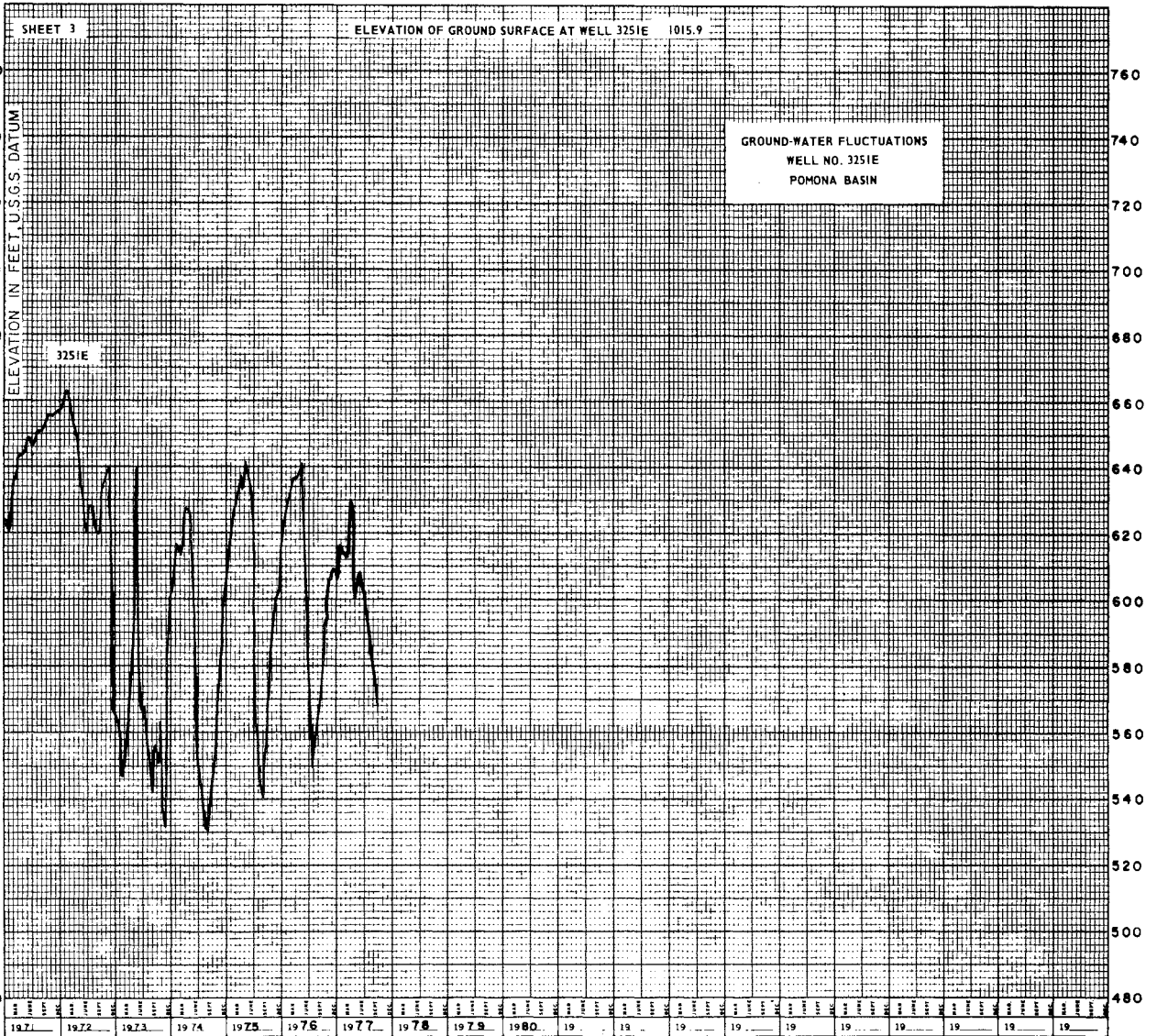
SHEET 3

ELEVATION OF GROUND SURFACE AT WELL 4284 A  
ELEVATION OF GROUND SURFACE AT WELL 4285 A

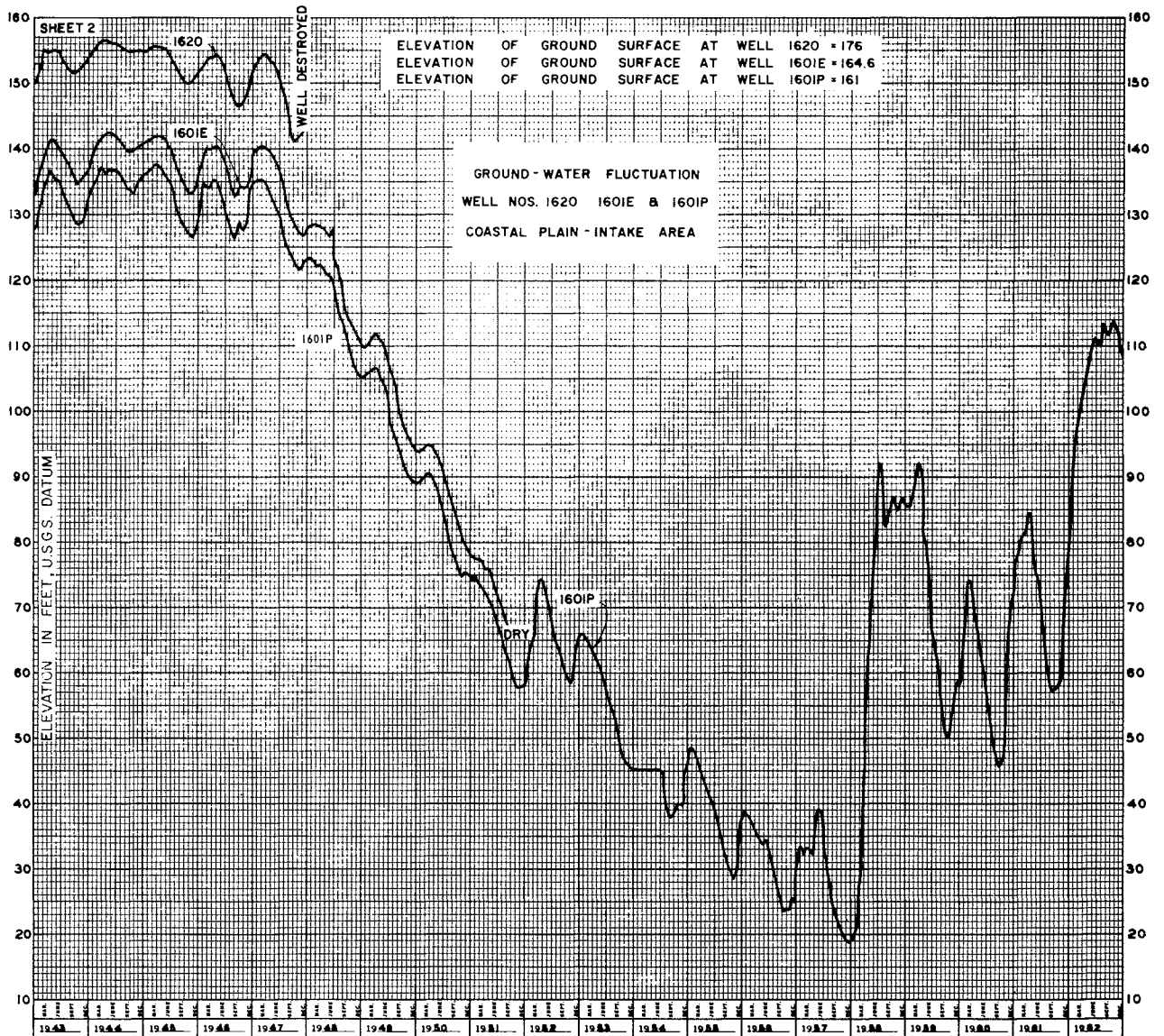
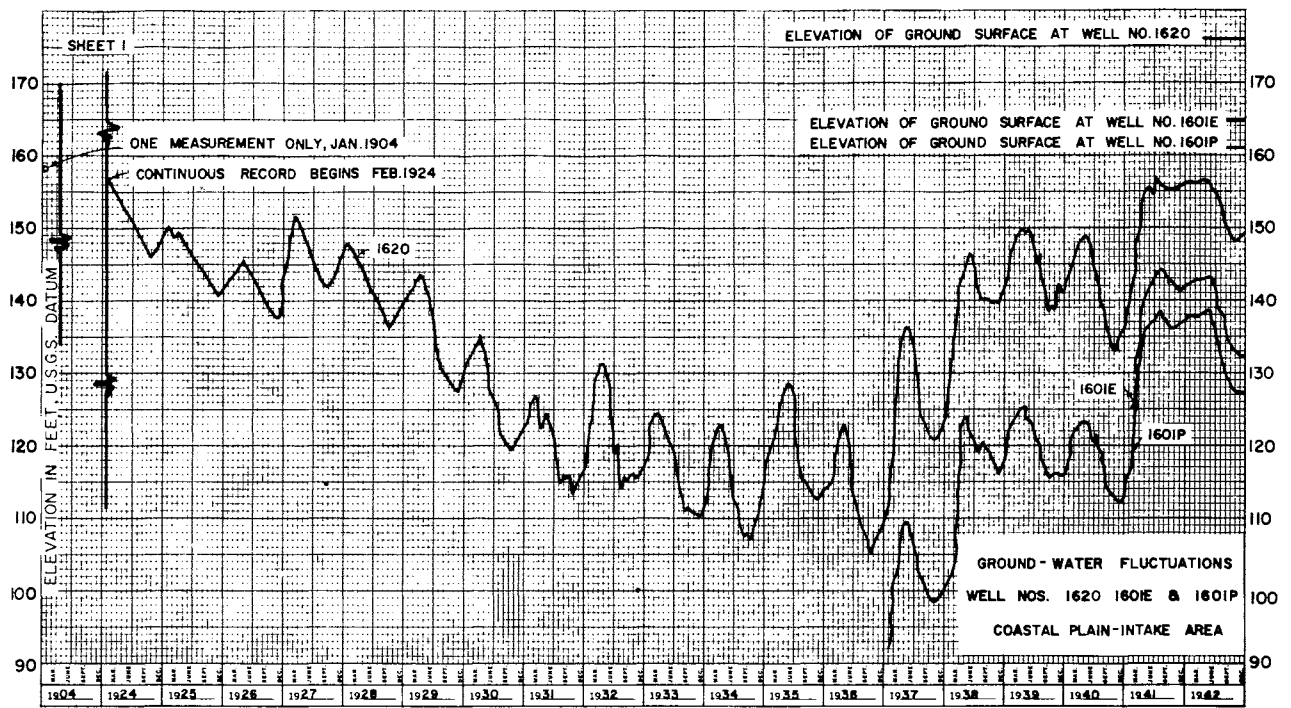




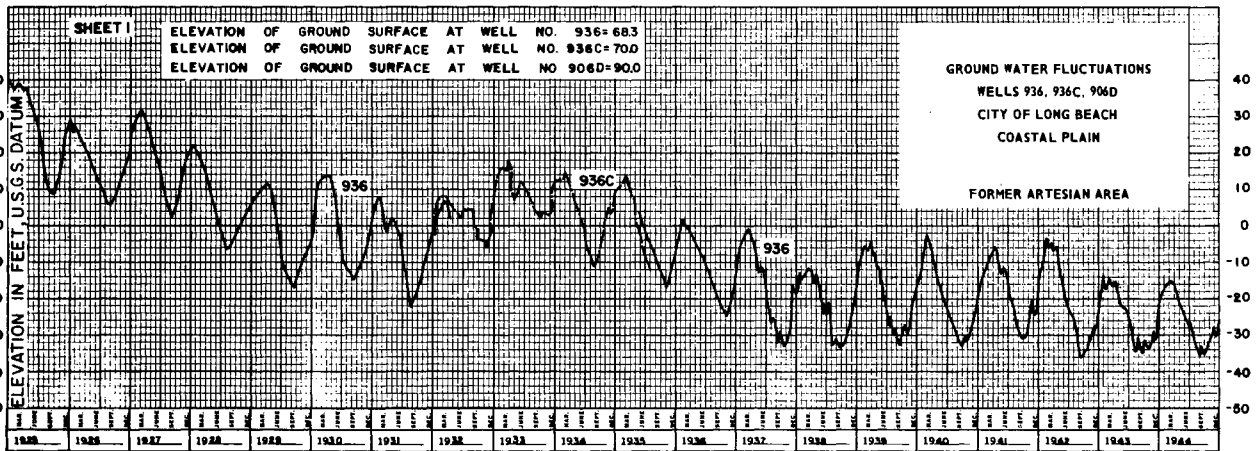
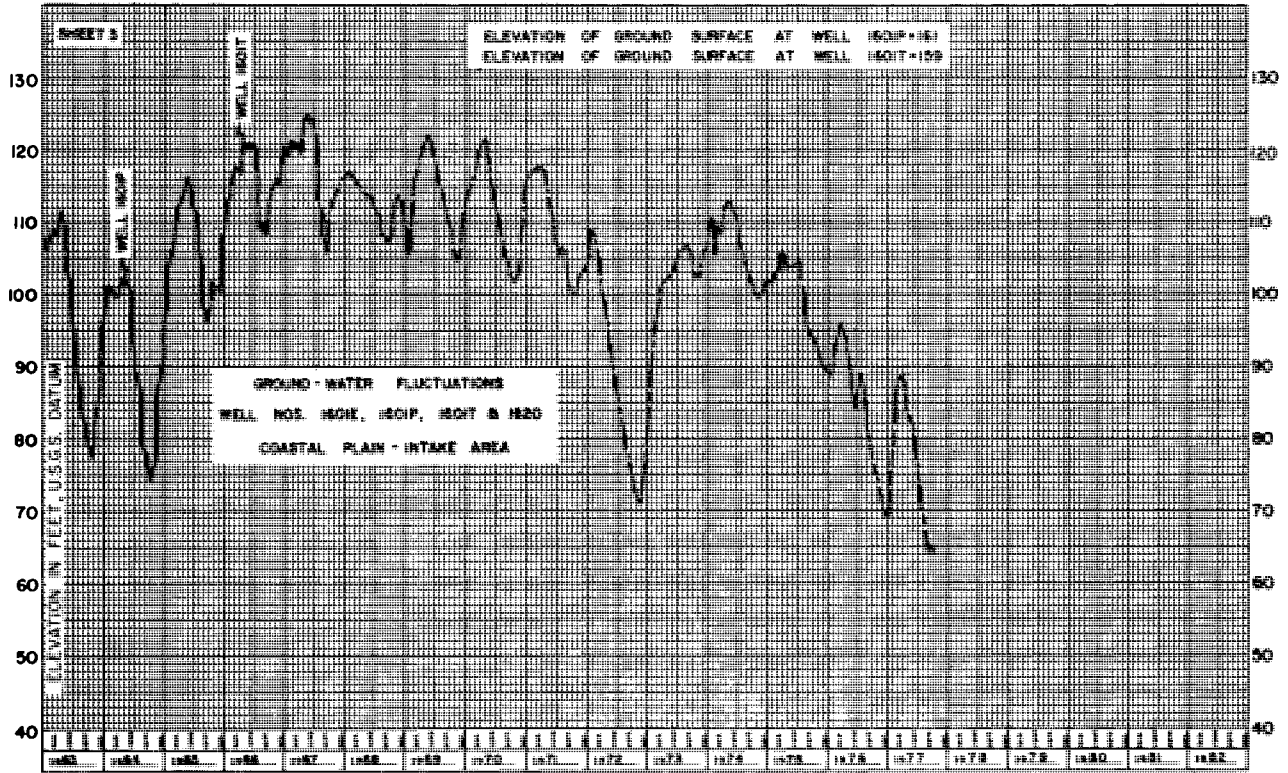


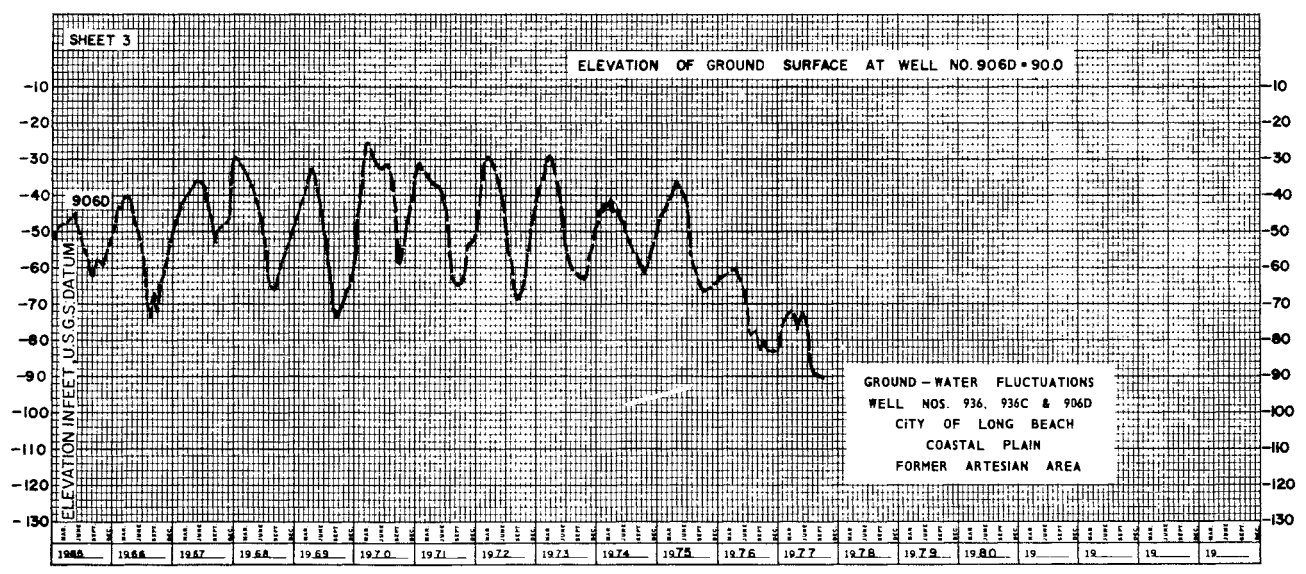
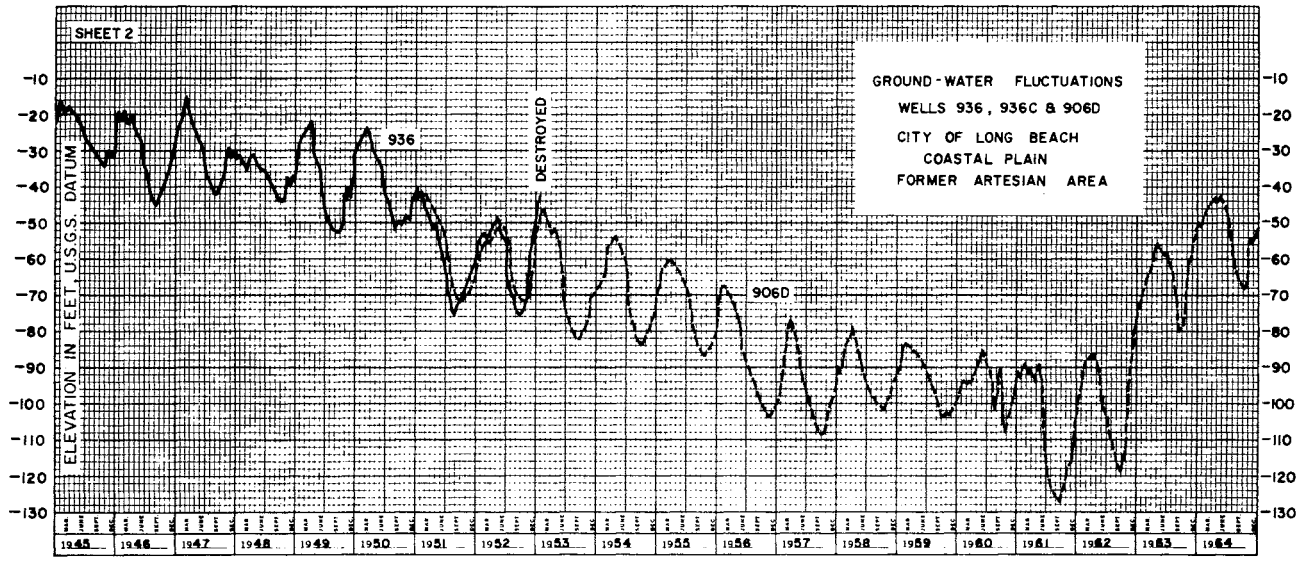


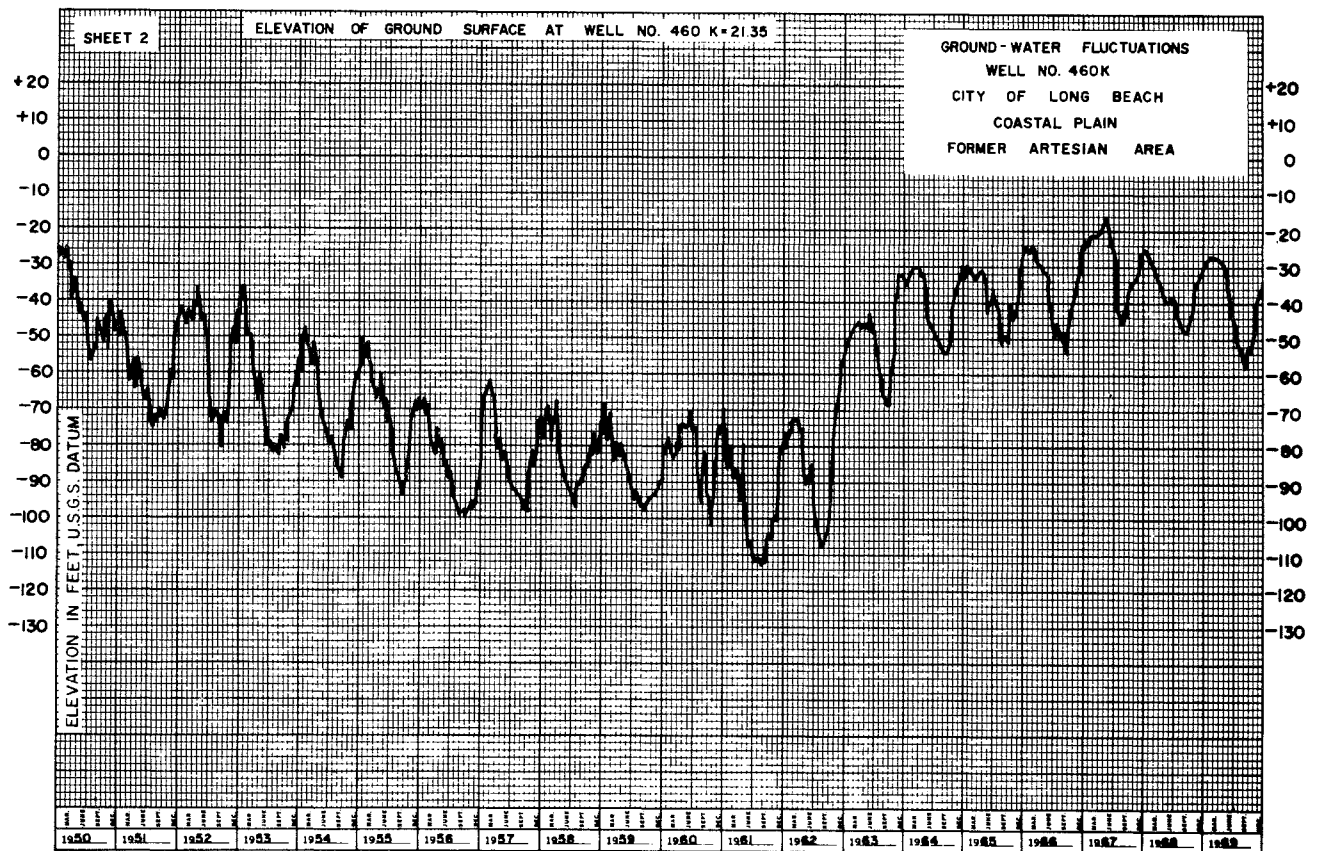
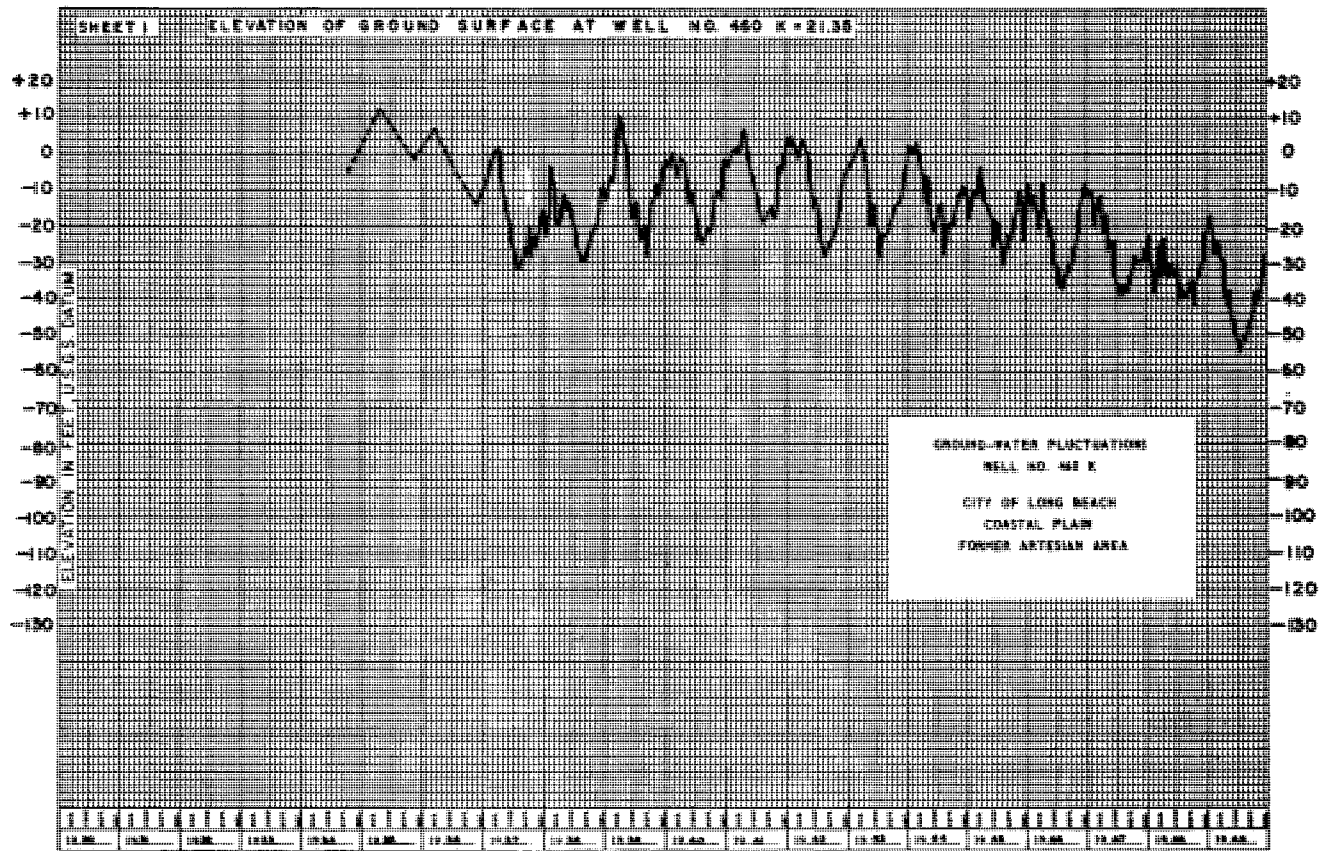


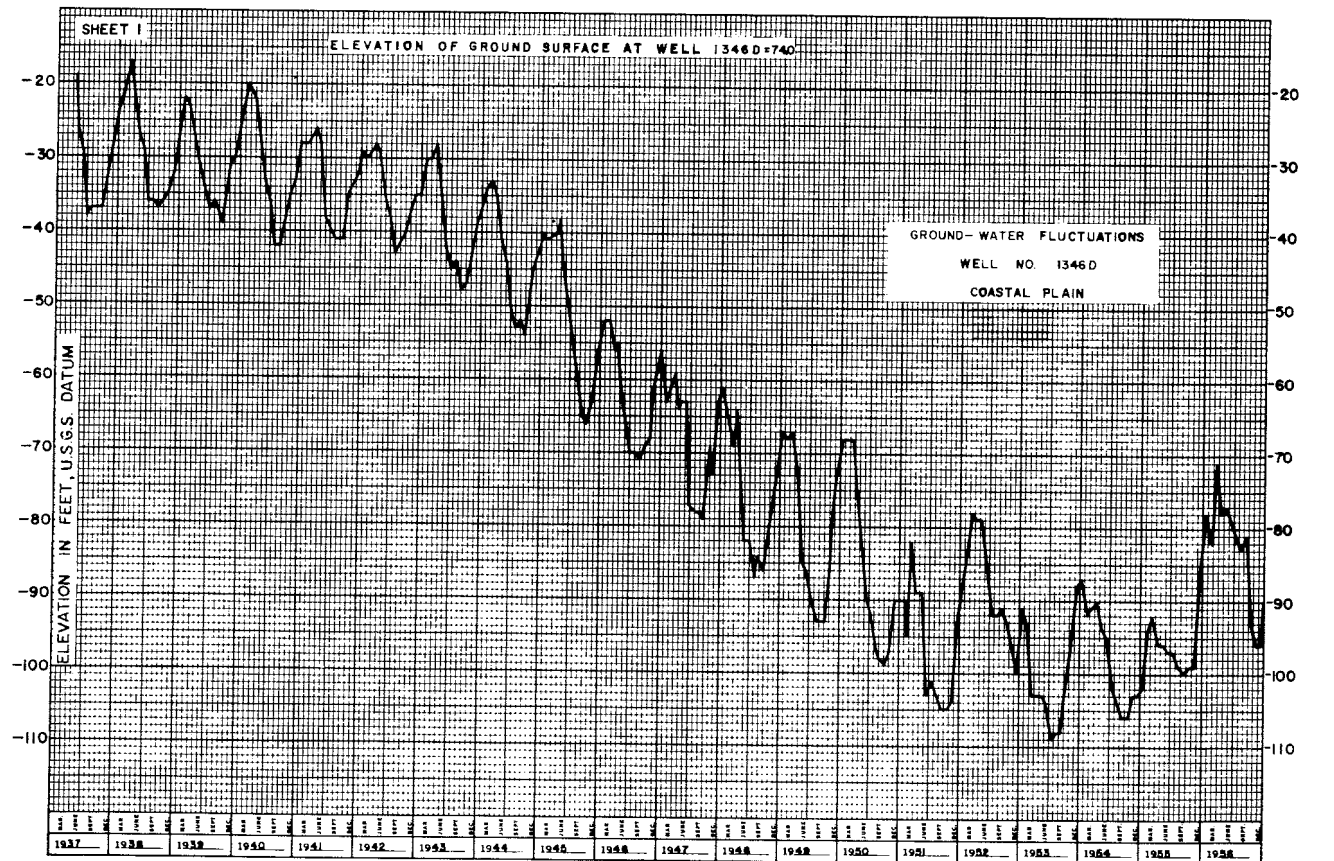
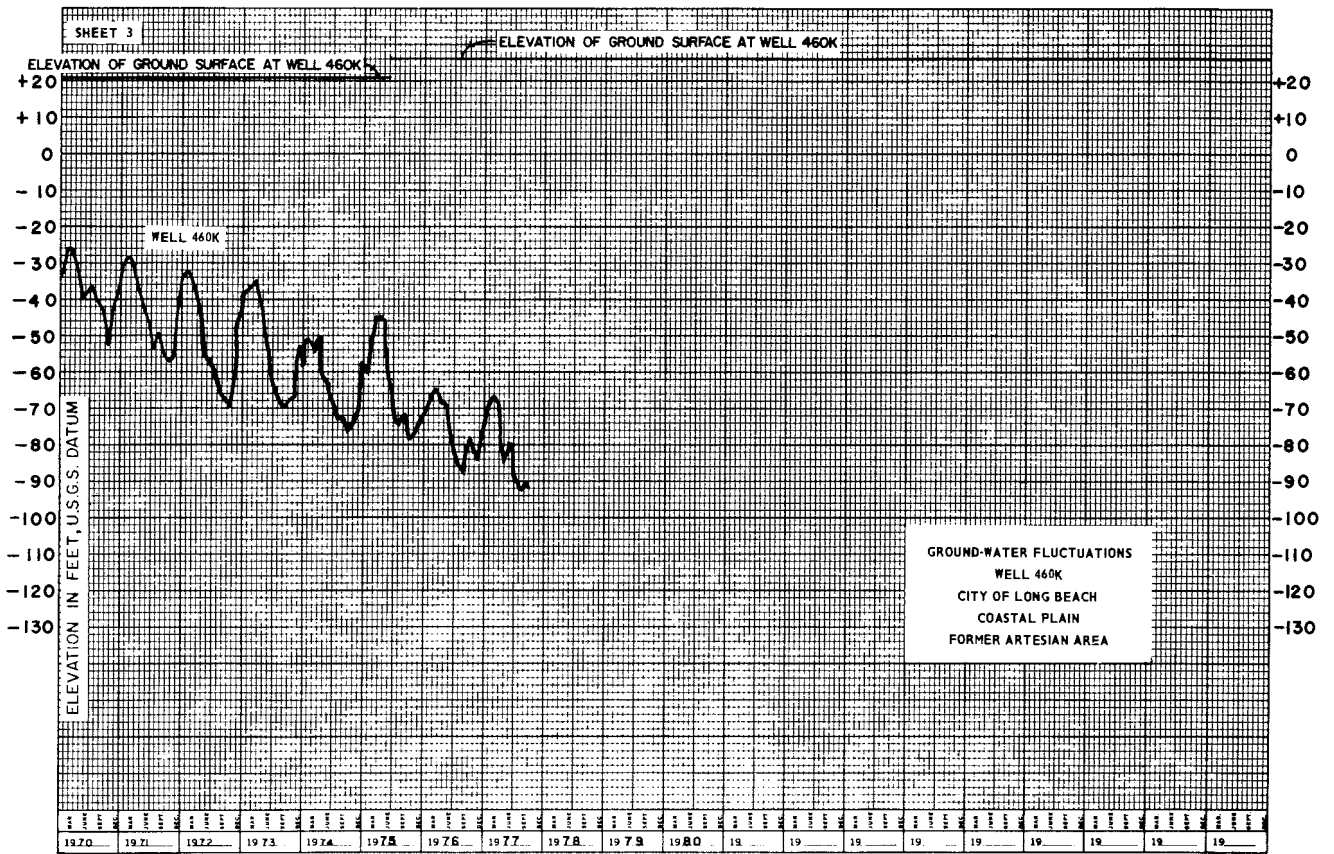




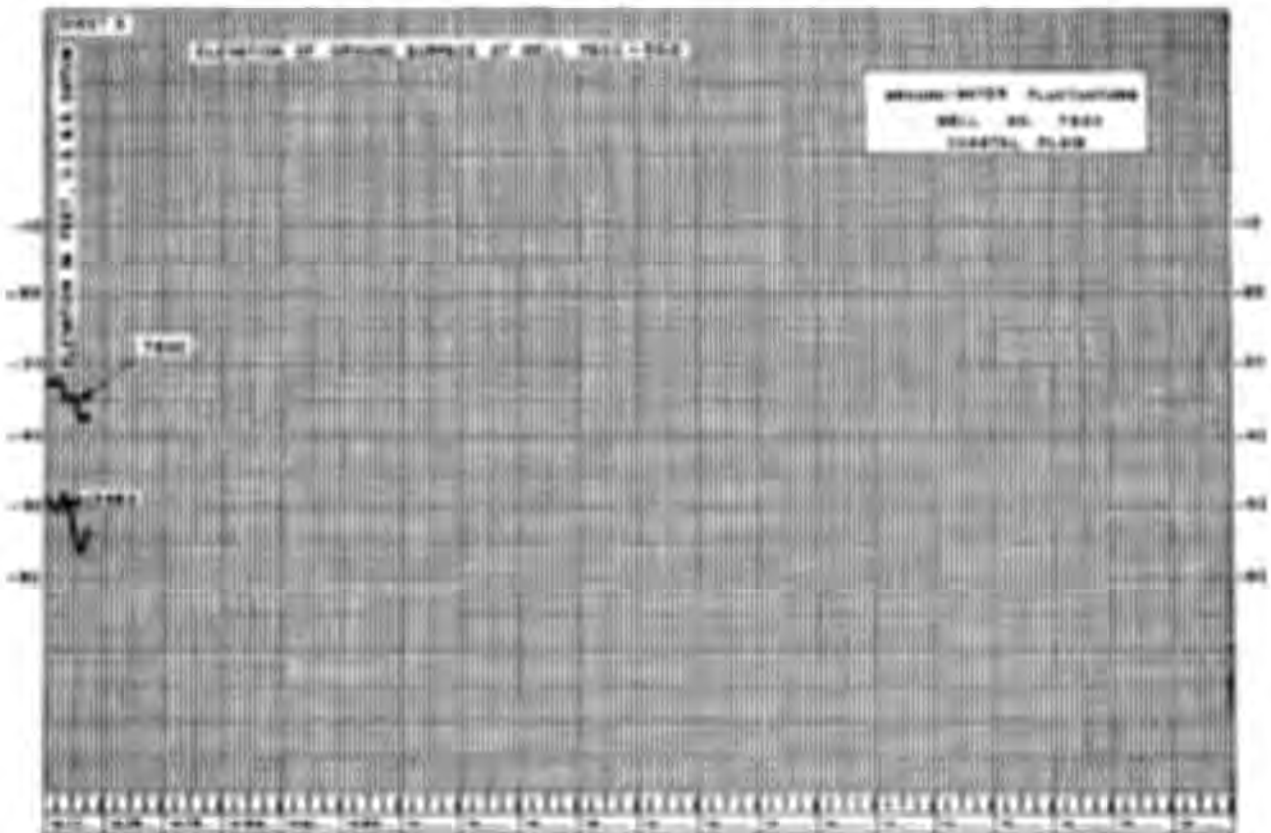
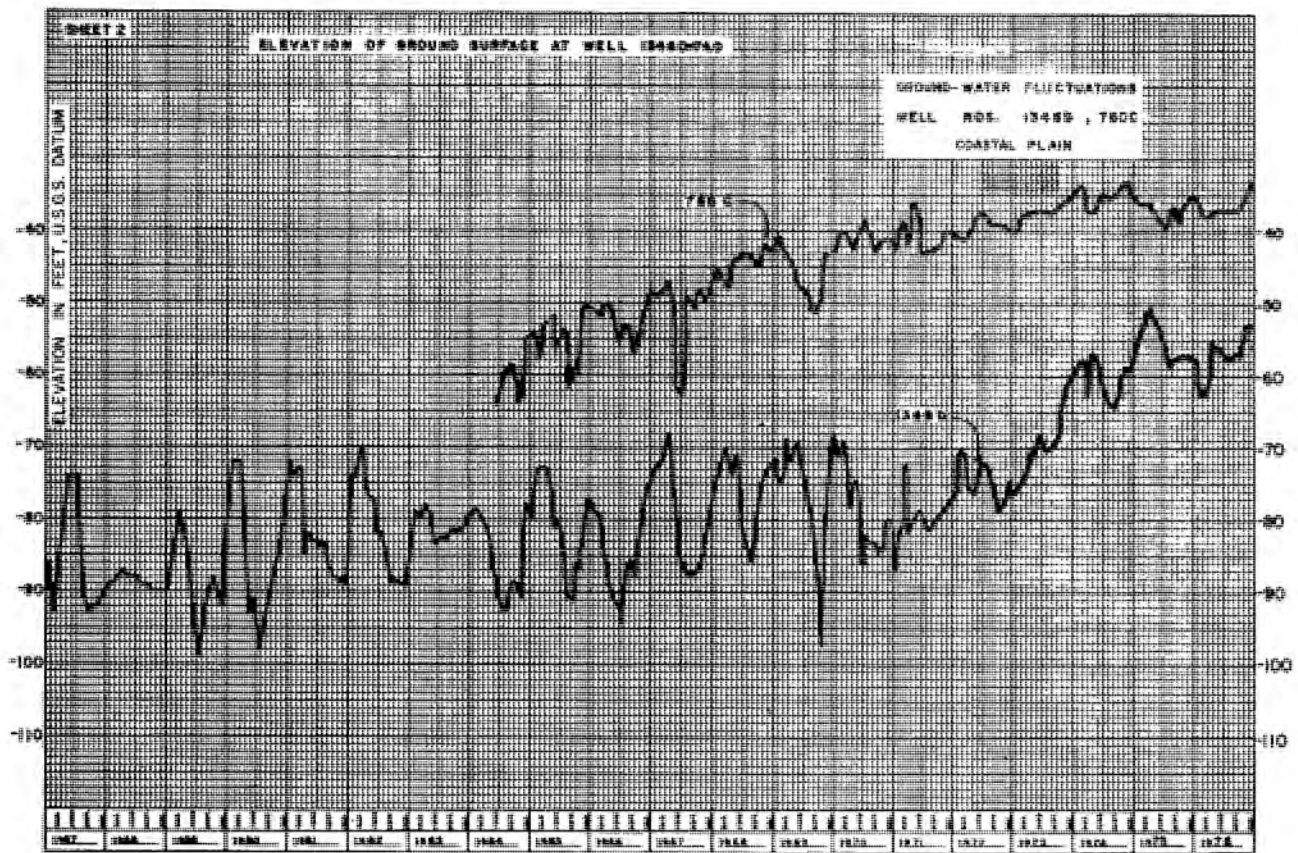


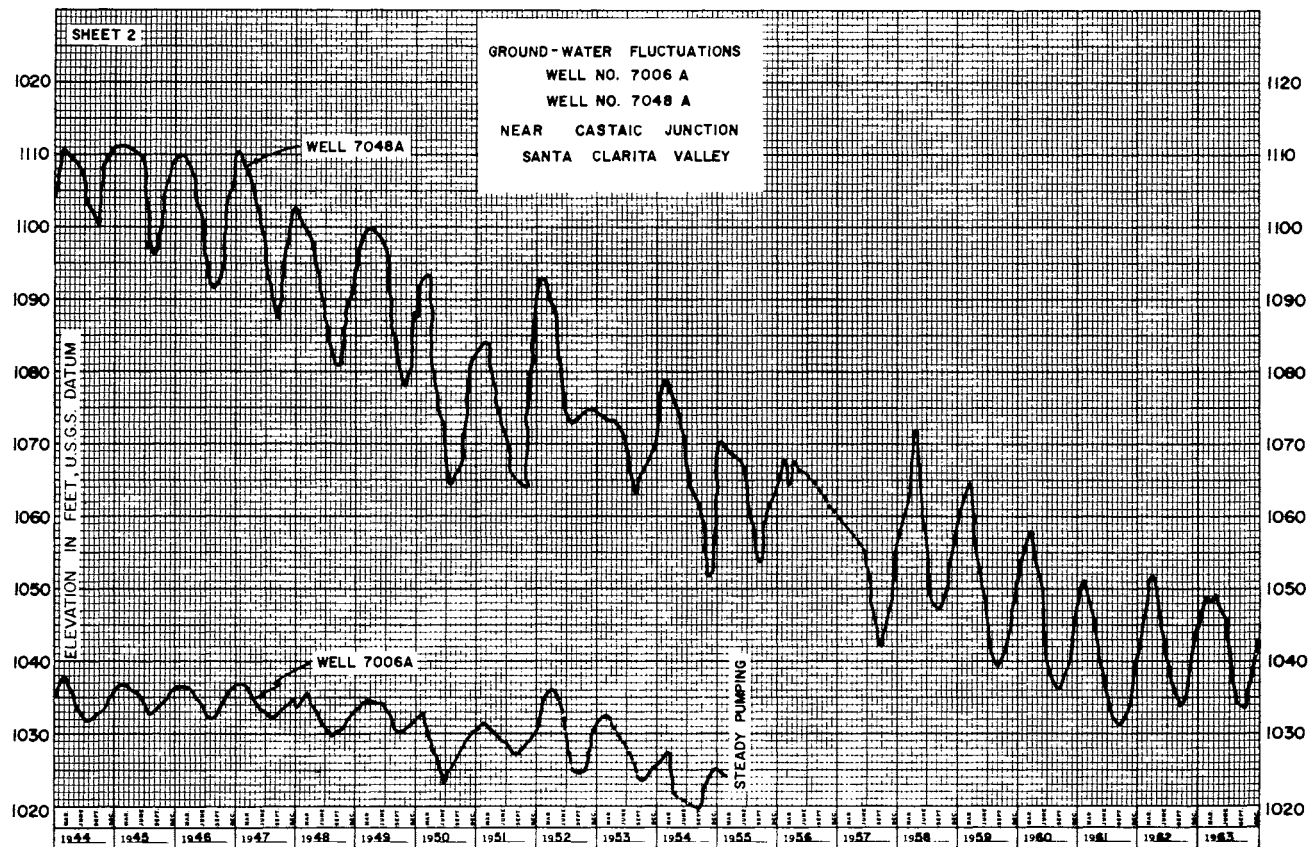
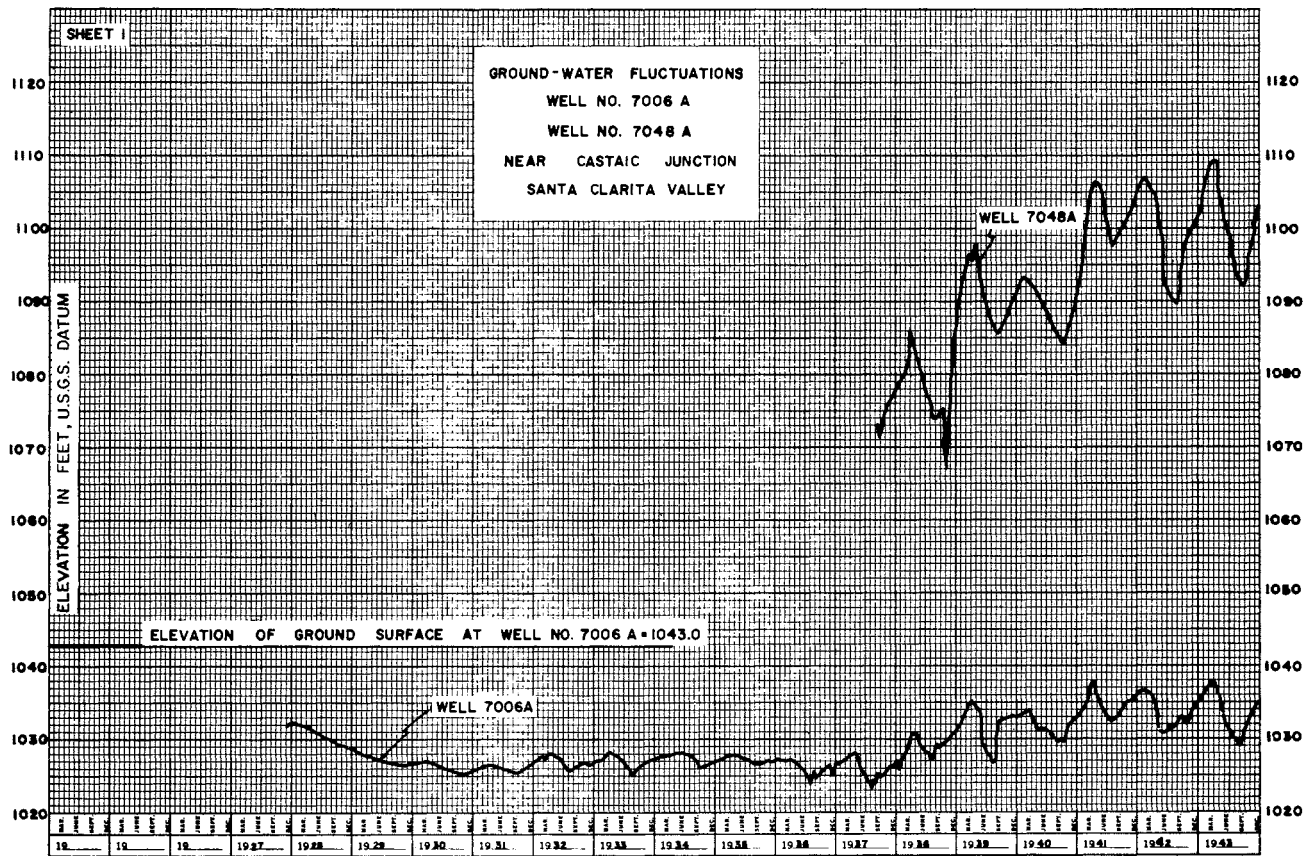


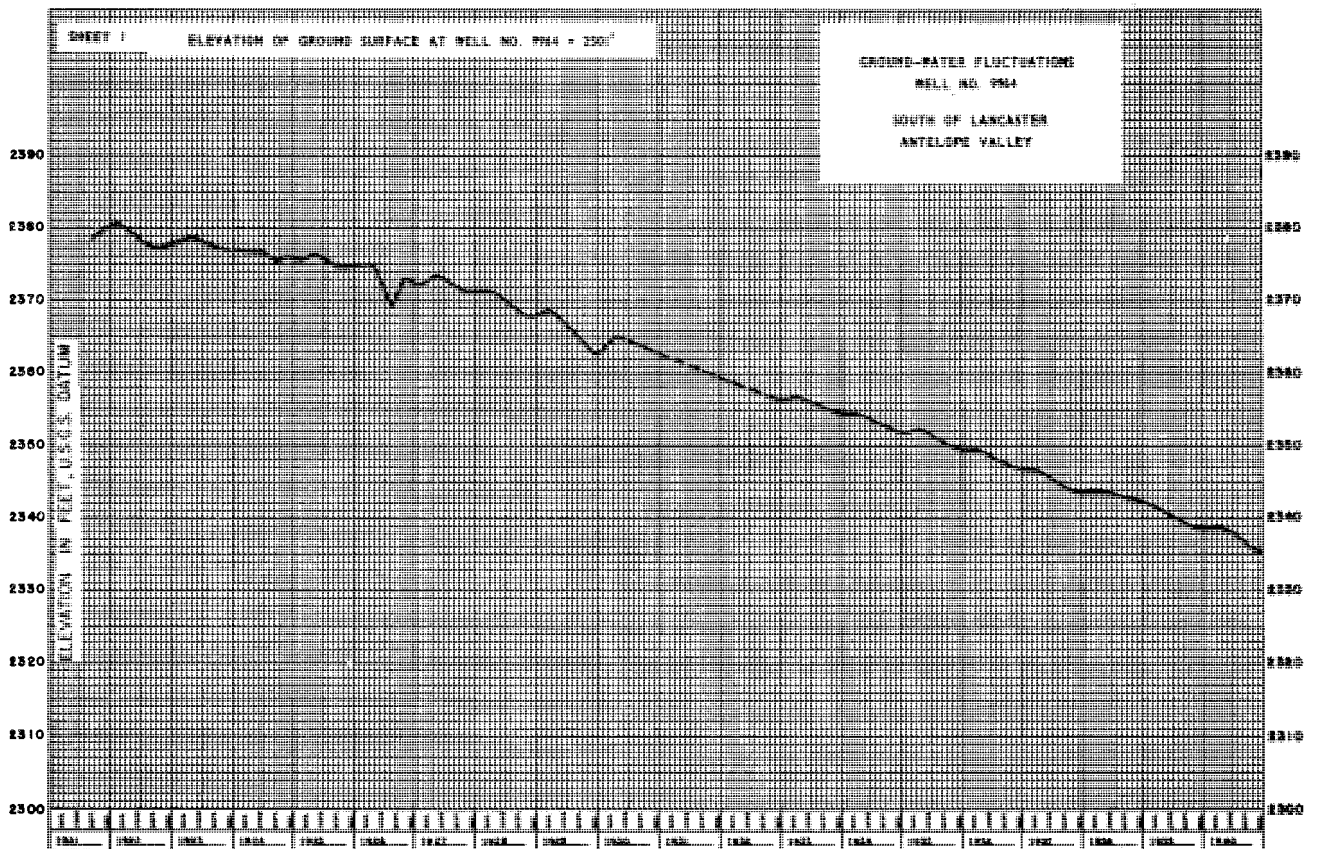
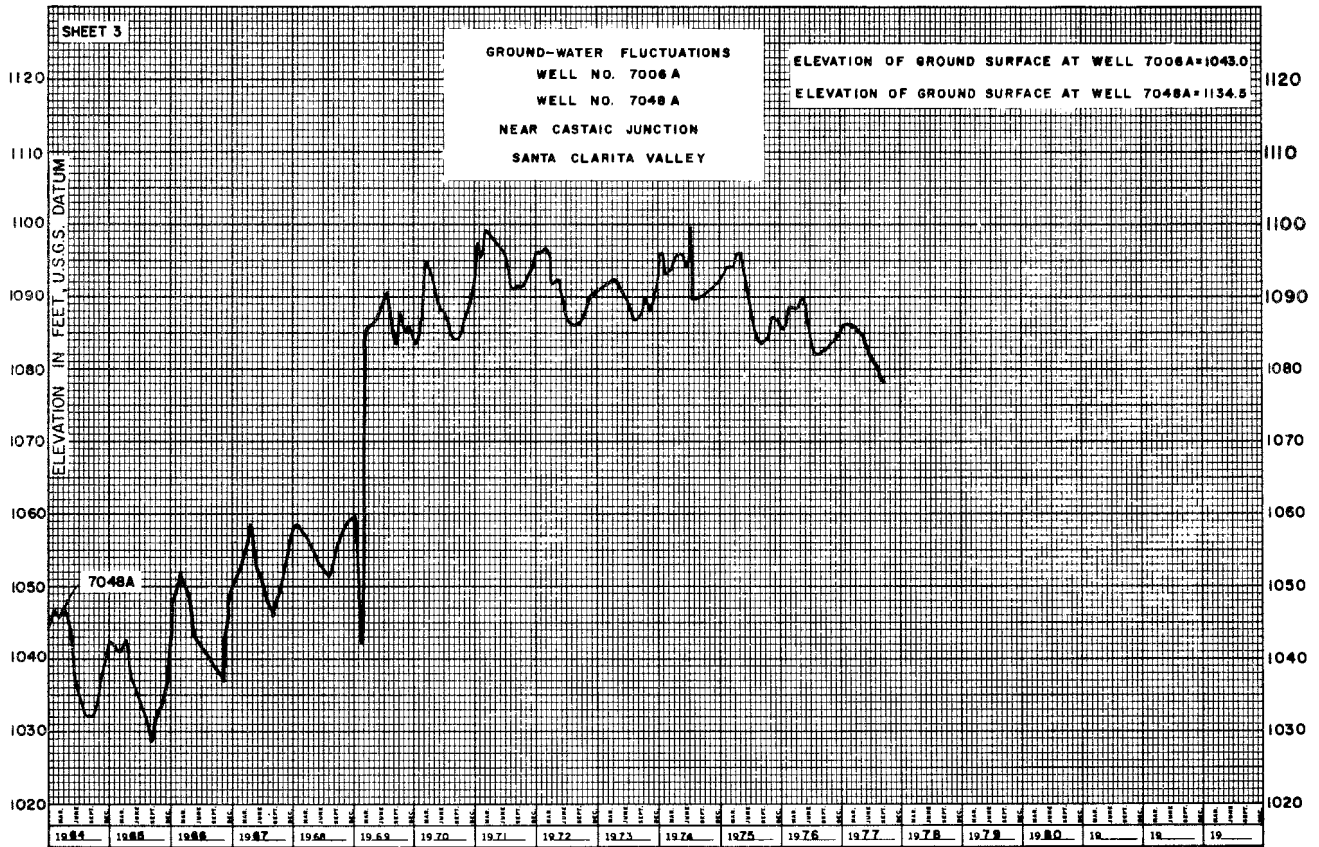




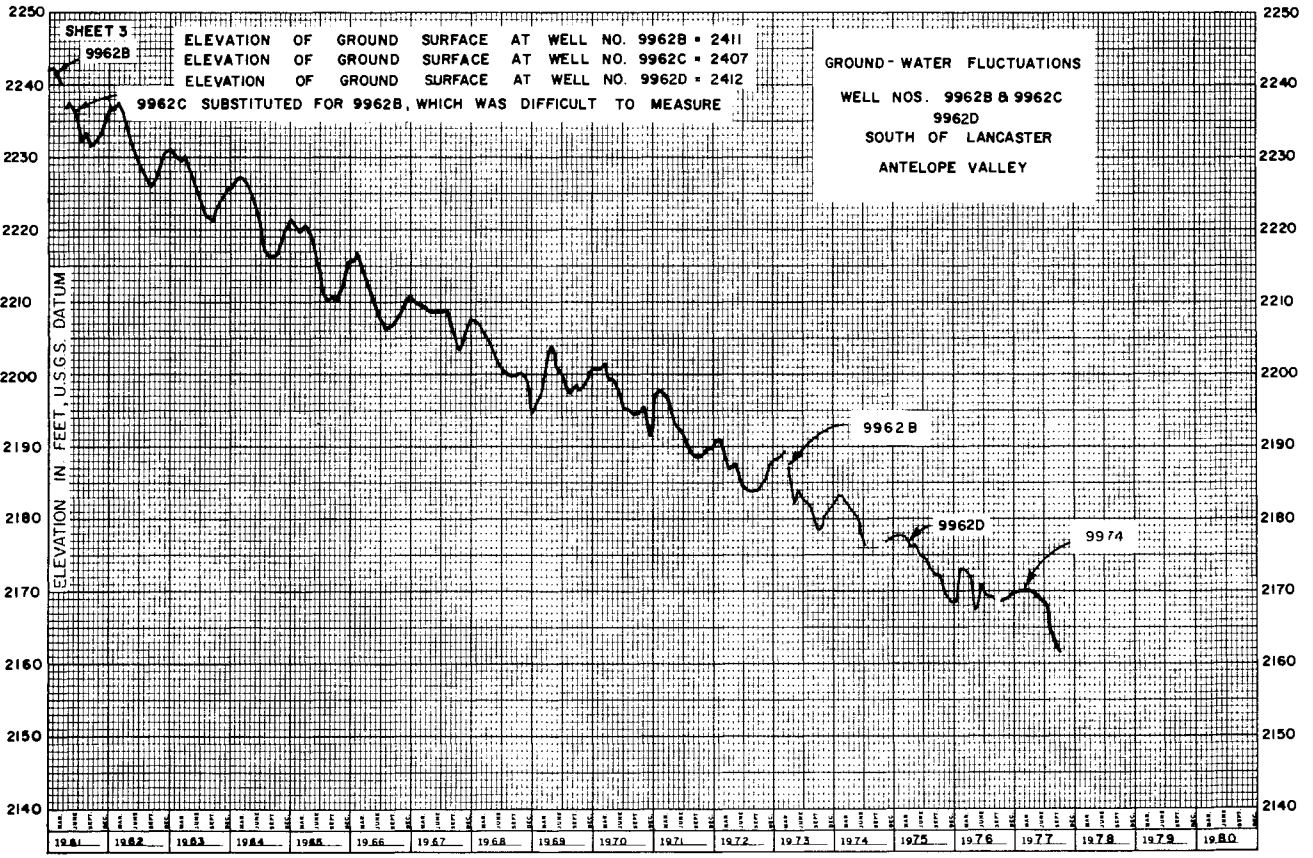
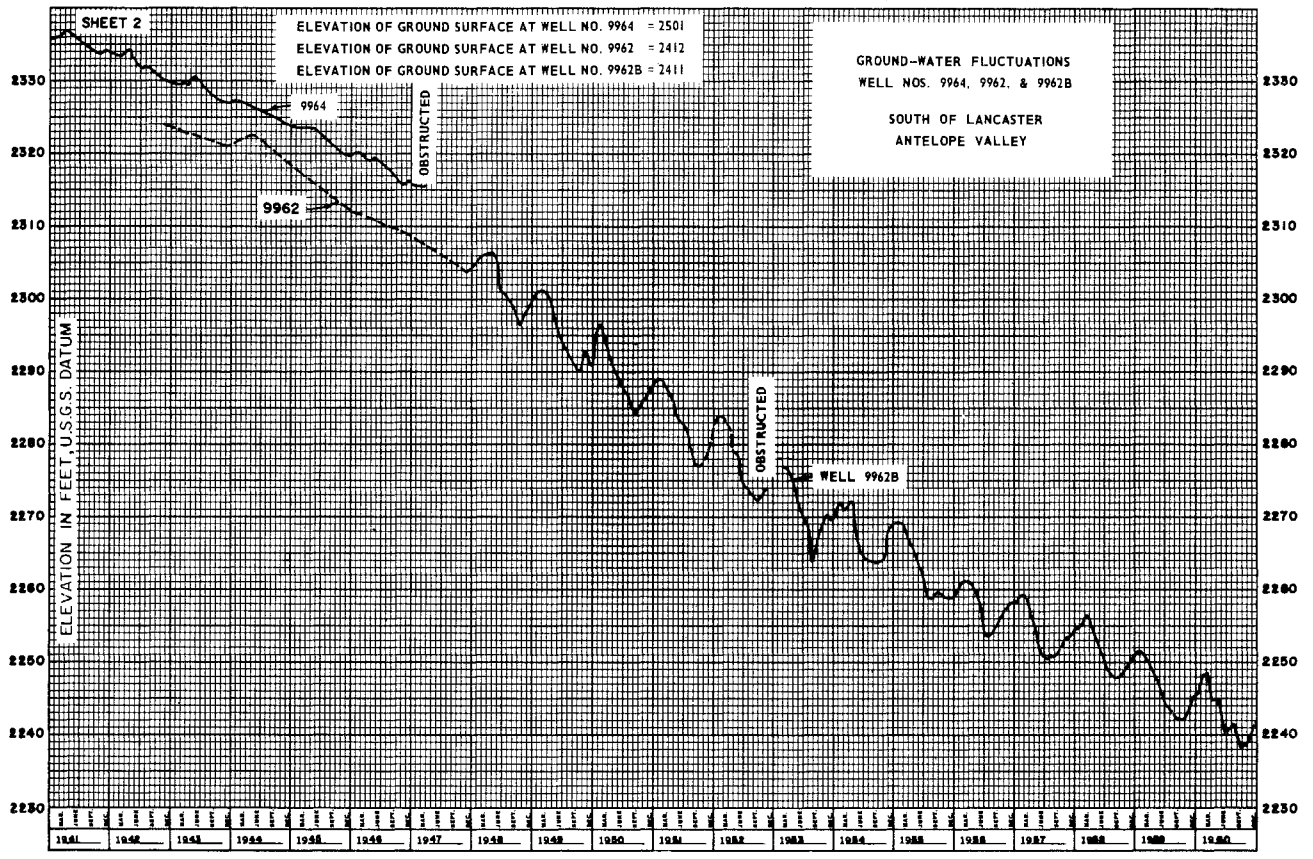




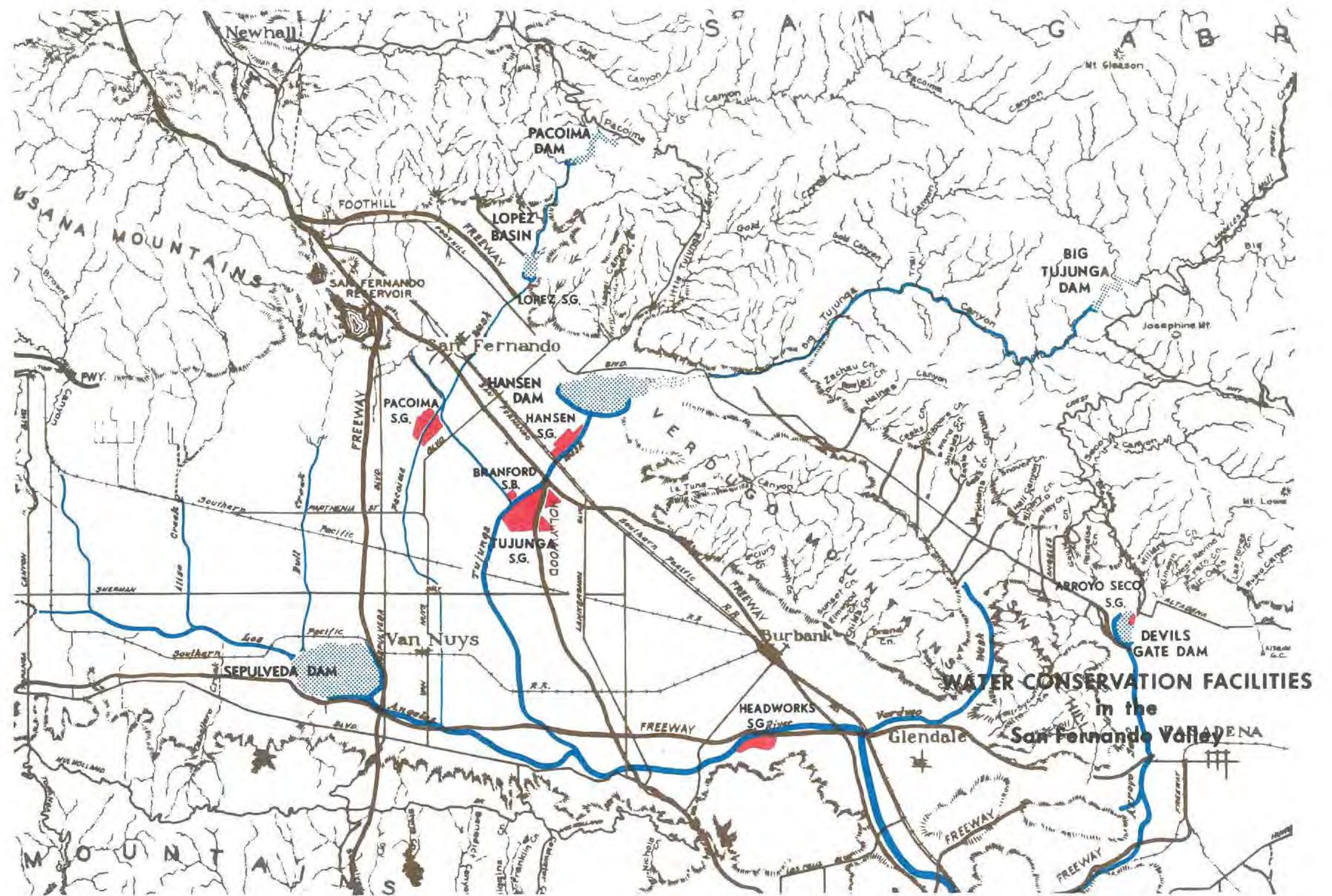






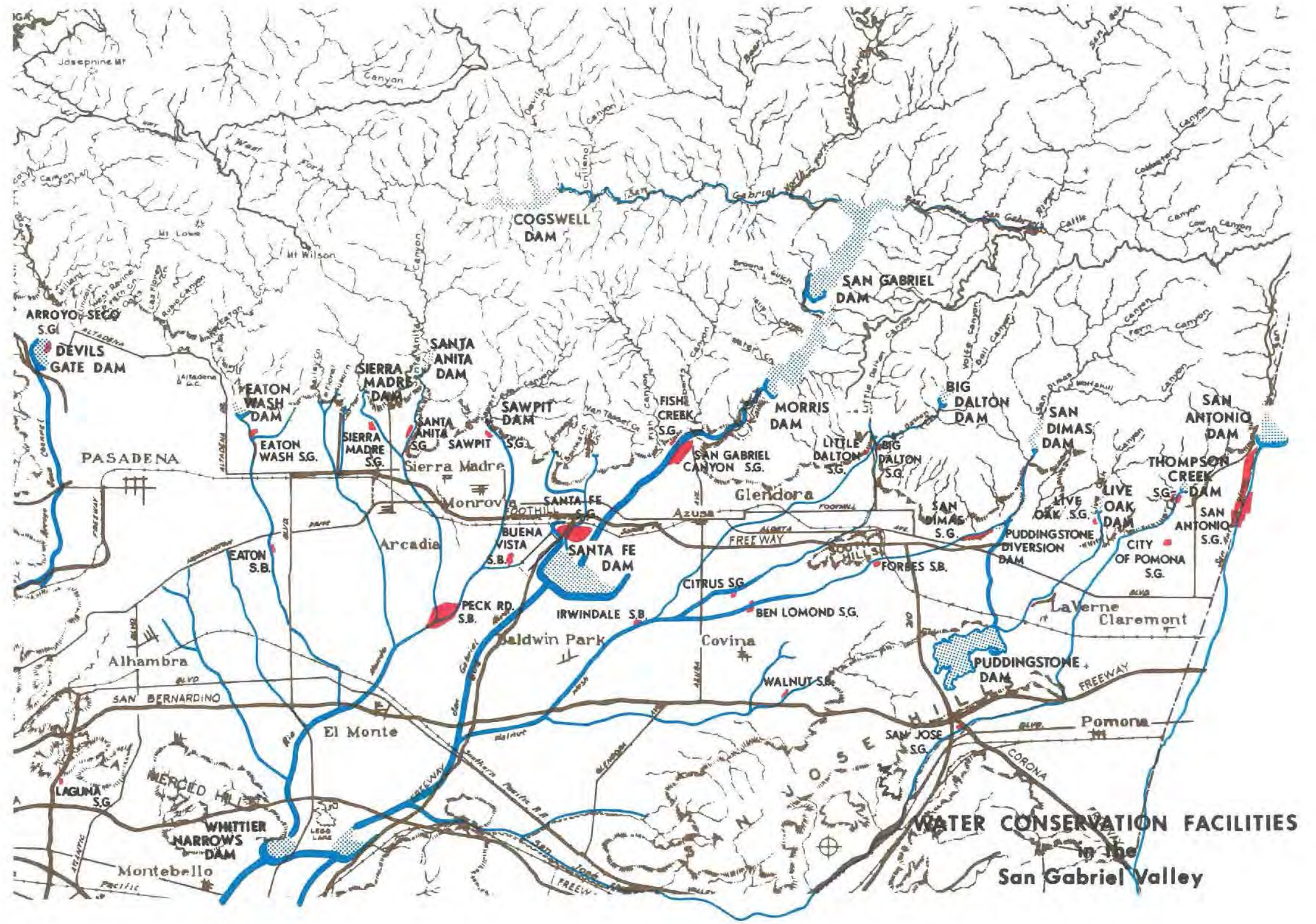






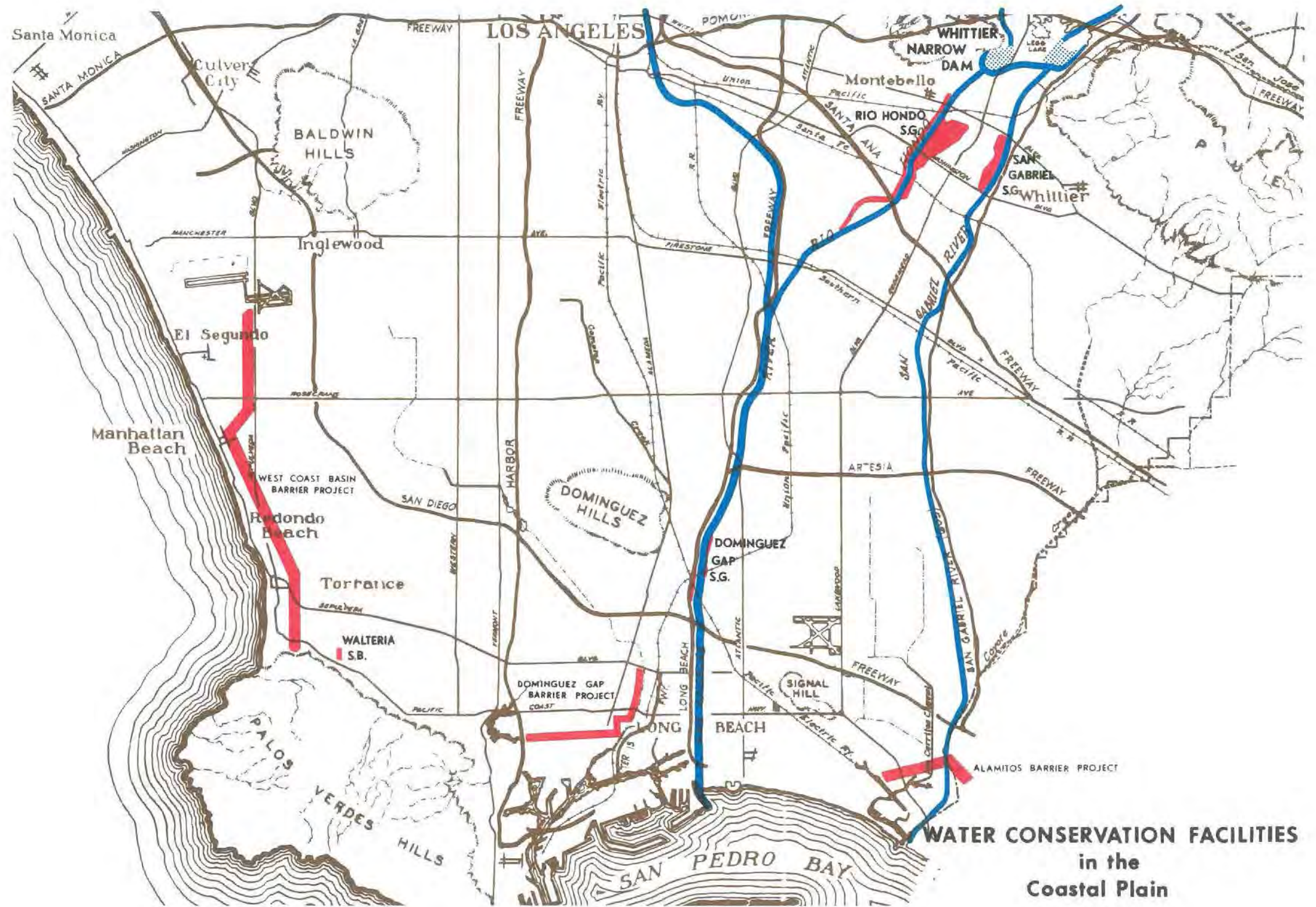
**WATER CONSERVATION FACILITIES  
in the  
San Fernando Valley**





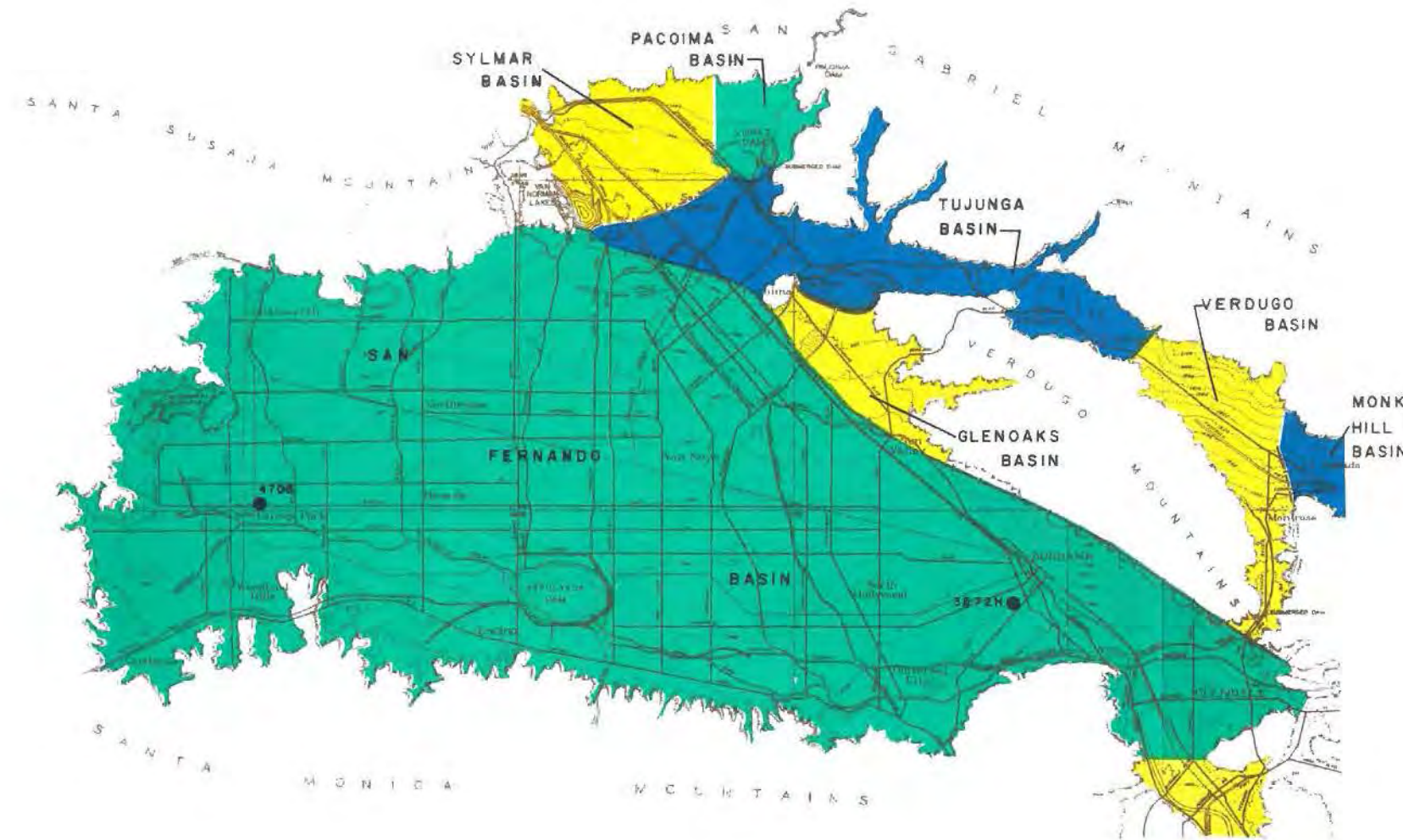
**WATER CONSERVATION FACILITIES  
in the  
San Gabriel Valley**





**WATER CONSERVATION FACILITIES  
in the  
Coastal Plain**

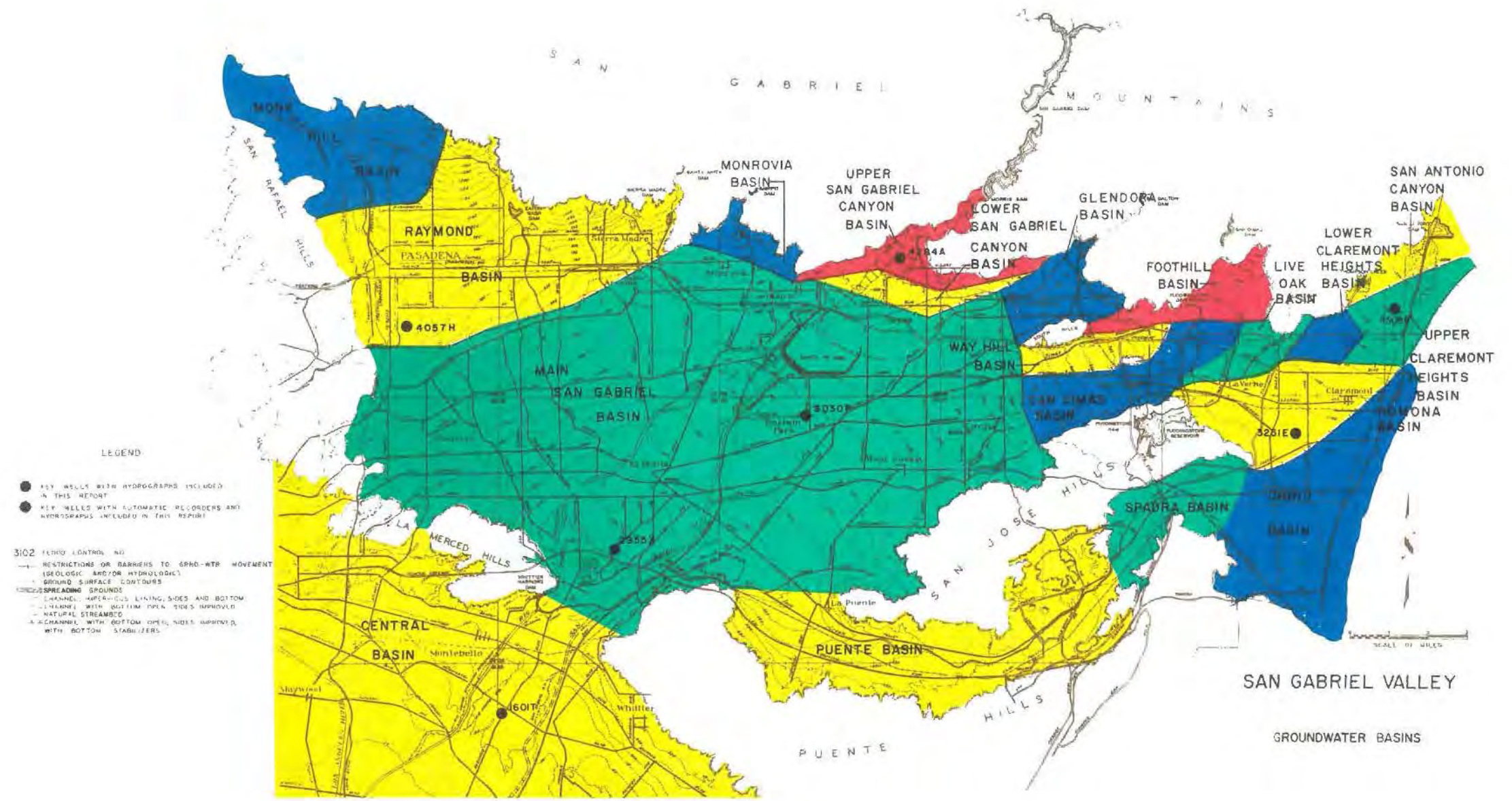




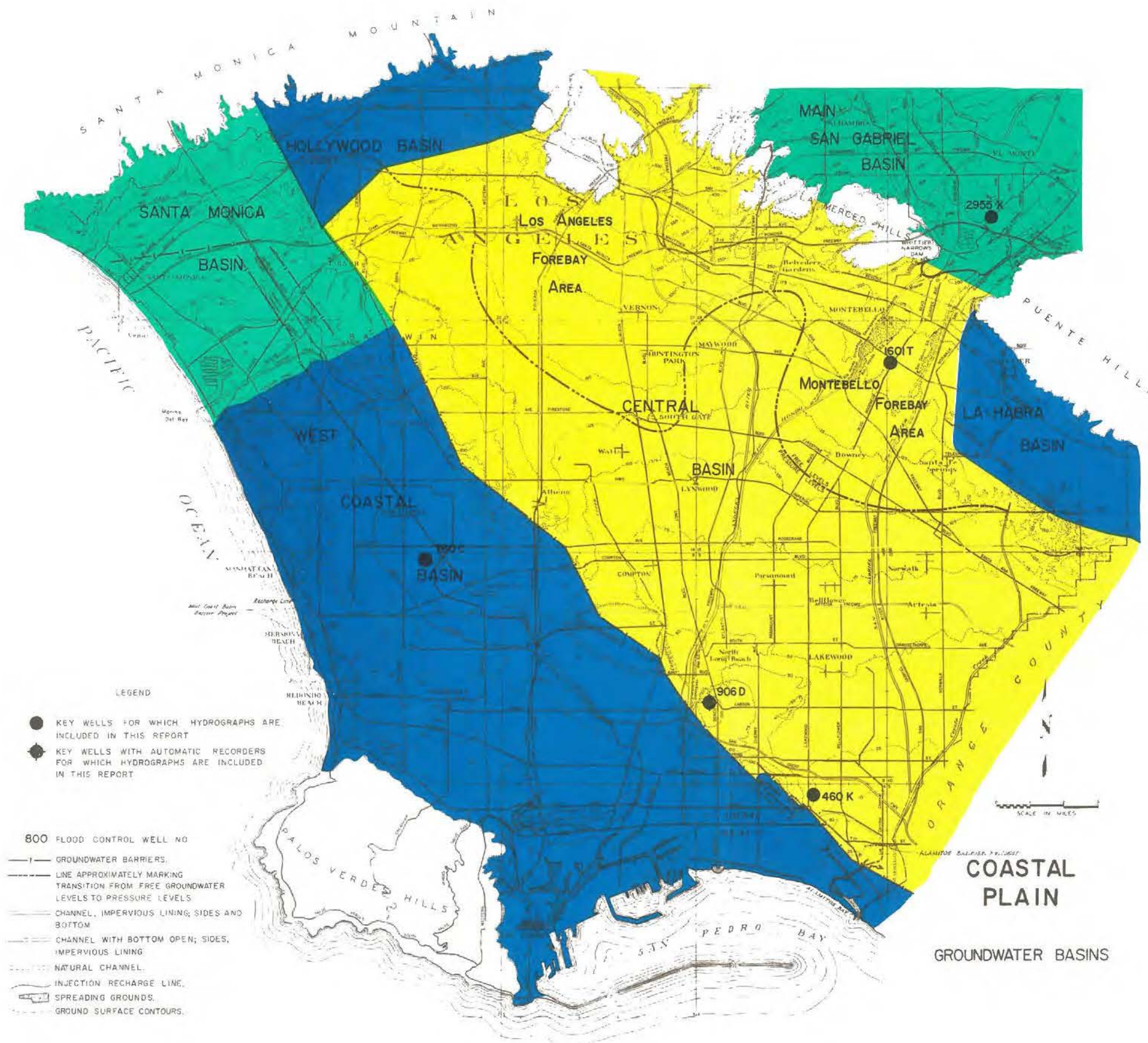
- LEGEND
- KEY WELLS FOR WHICH HYDROGRAPHS ARE INCLUDED IN THIS REPORT
  - 3800 FLOOD CONTROL NO.
  - RESTRICTIONS OR BARRIERS TO GROUND WATER MOVEMENT (GEOLOGIC AND/OR HYDROLOGIC)
  - GROUND SURFACE CONTOURS
  - SPREADING GROUNDS
  - CHANNEL IMPERVIOUS (INCLUDING SIDES & BOTTOM)
  - CHANNEL BOTTOM OPEN; SIDES IMPROVED
  - NATURAL STREAMBED

SAN FERNANDO VALLEY

GROUNDWATER BASINS



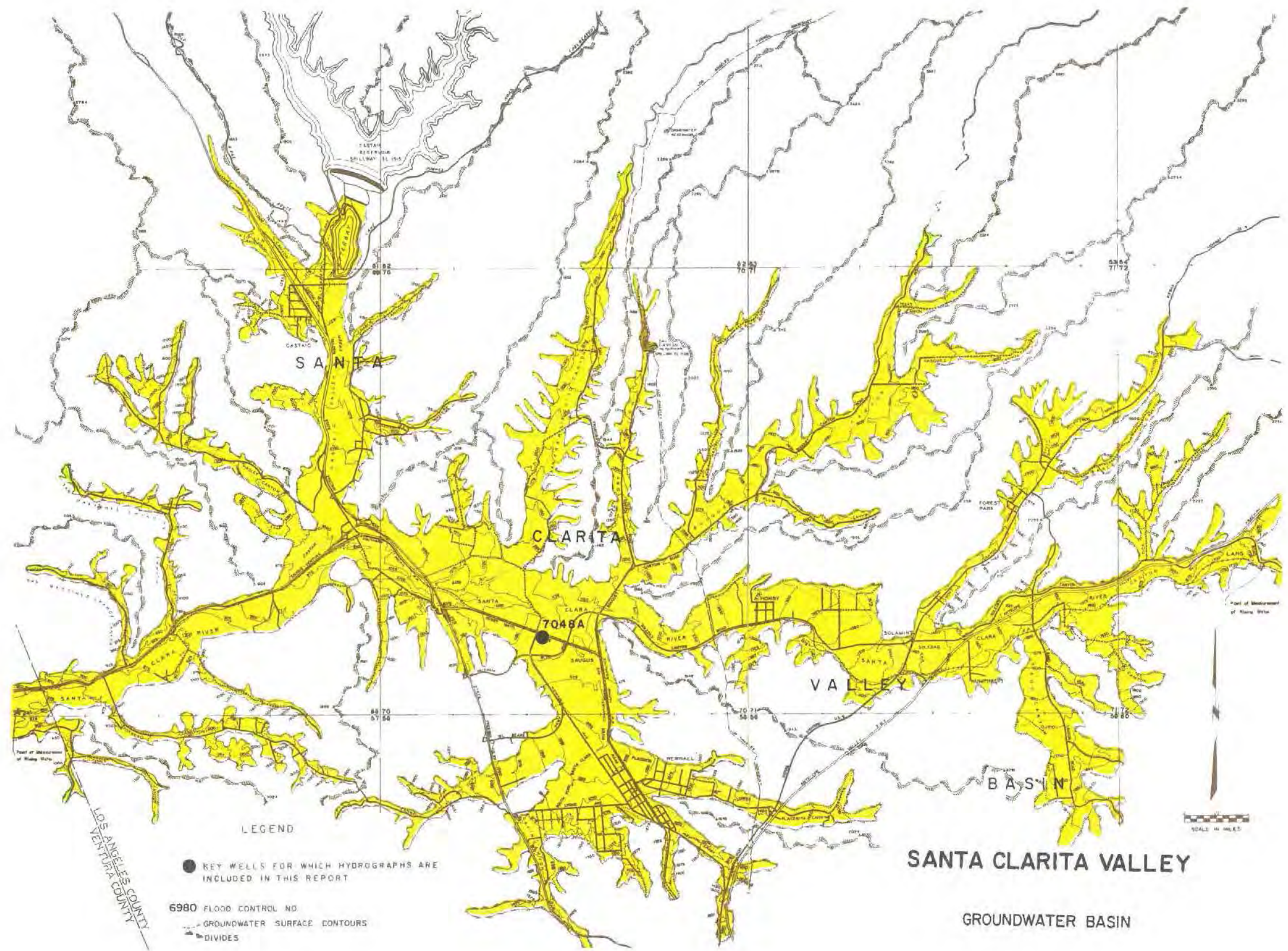




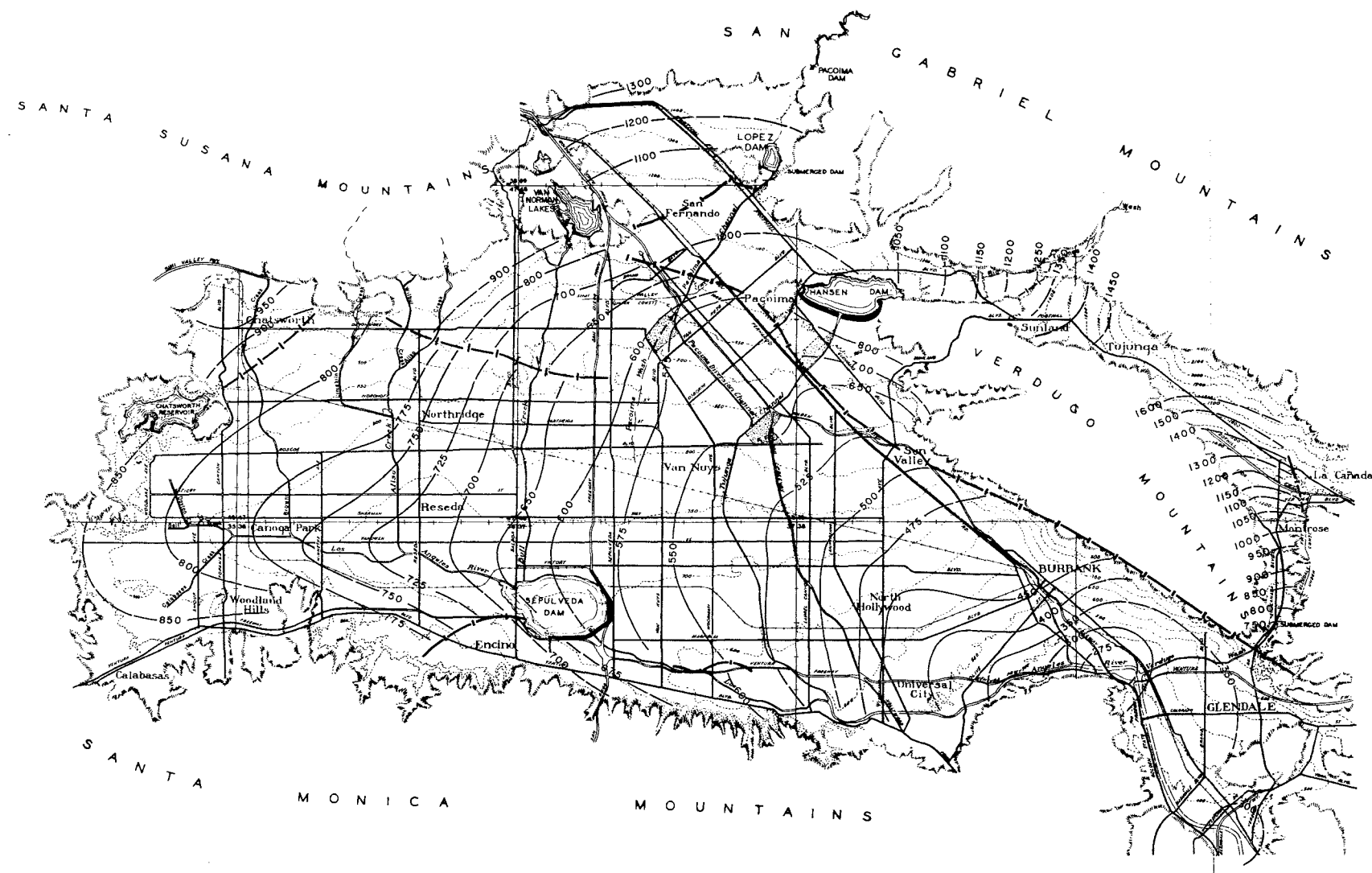
- LEGEND
- KEY WELLS FOR WHICH HYDROGRAPHS ARE INCLUDED IN THIS REPORT
  - KEY WELLS WITH AUTOMATIC RECORDERS FOR WHICH HYDROGRAPHS ARE INCLUDED IN THIS REPORT
  - 800 FLOOD CONTROL WELL NO
  - GROUNDWATER BARRIERS.
  - LINE APPROXIMATELY MARKING TRANSITION FROM FREE GROUNDWATER LEVELS TO PRESSURE LEVELS.
  - CHANNEL, IMPERVIOUS LINING, SIDES AND BOTTOM
  - CHANNEL WITH BOTTOM OPEN; SIDES, IMPERVIOUS LINING
  - NATURAL CHANNEL.
  - INJECTION RECHARGE LINE.
  - SPREADING GROUNDS.
  - GROUND SURFACE CONTOURS.

ALAMITOS DAM, 1917, 1927  
**COASTAL PLAIN**  
 GROUNDWATER BASINS





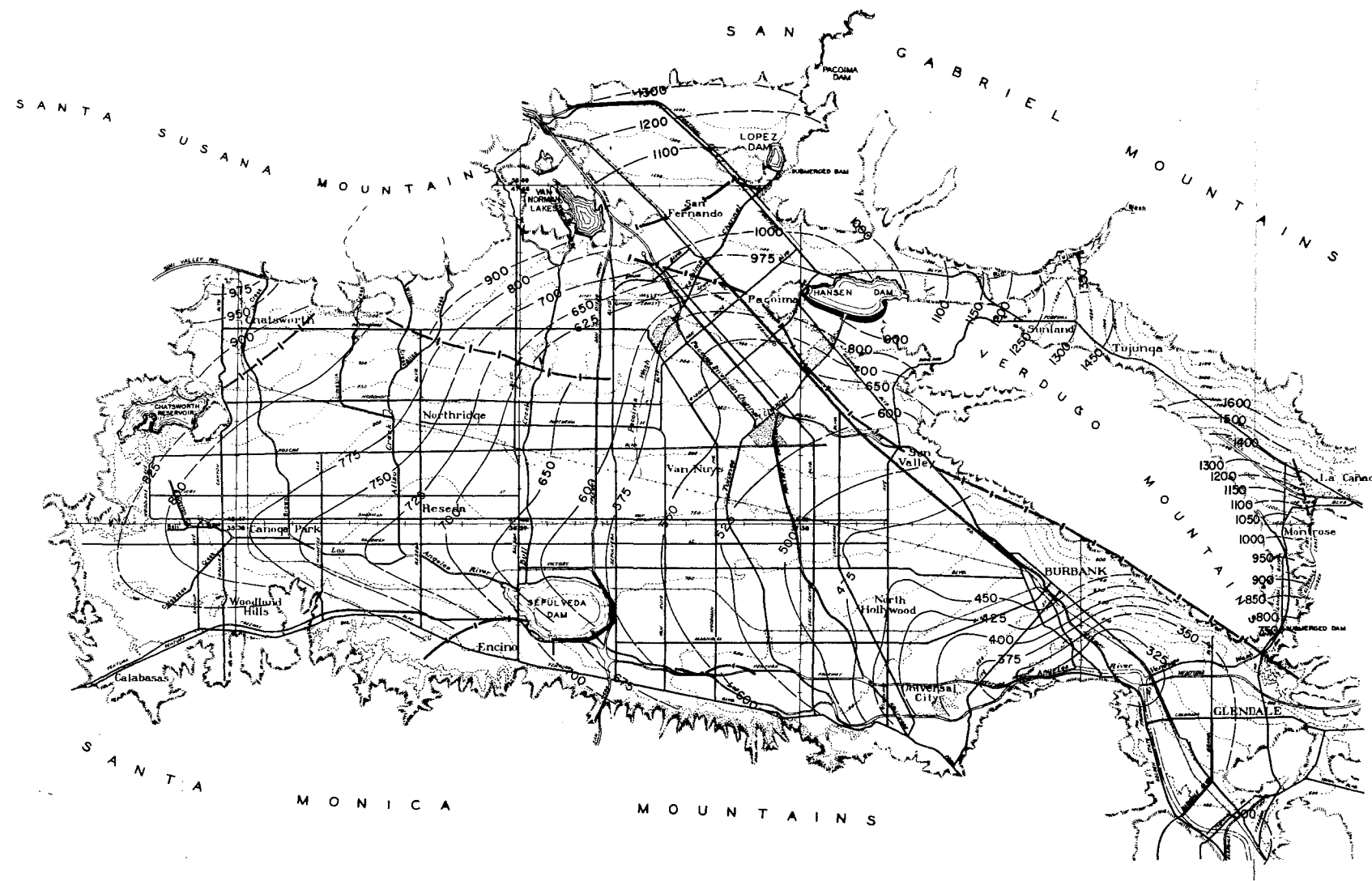




- LEGEND**
- LINES OF EQUAL FREE GROUND-WATER ELEVATION (INTERPOLATED BETWEEN WELLS). LOCALLY THE WATER MAY BE UNDER PRESSURE. SAME AS ABOVE LOCATION APPROXIMATE
  - RESTRICTIONS OR BARRIERS TO GROUND-WATER MOVEMENT (GEOLOGIC AND/OR HYDROLOGIC)
  - GROUND SURFACE CONTOURS
  - SPREADING GROUNDS
  - FLOWING WELL
  - REACH OF RISING WATER
  - CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
  - CHANNEL WITH BOTTOM OPEN; SIDES IMPROVED
  - NATURAL STREAMBED

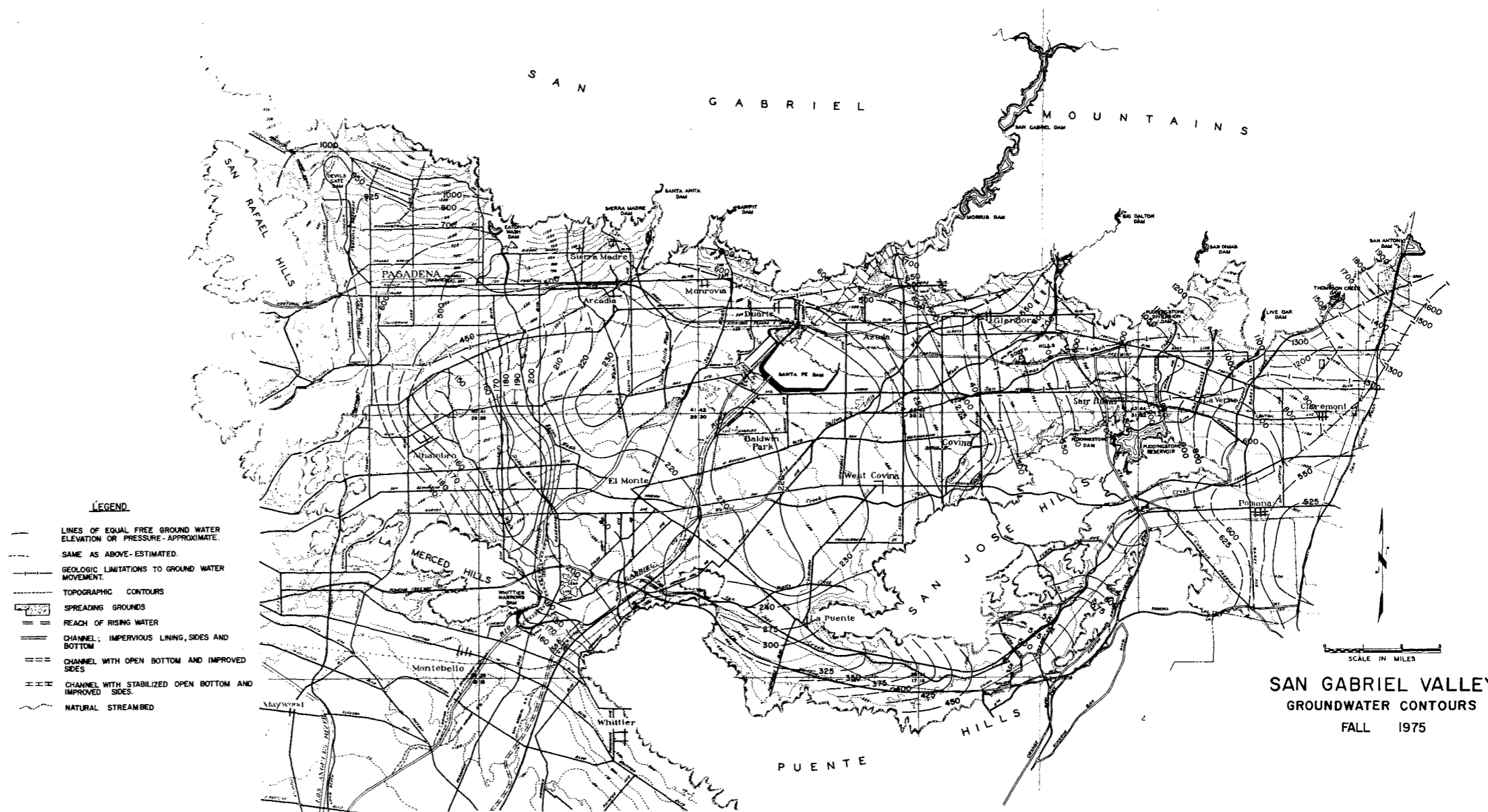
**SAN FERNANDO VALLEY  
GROUNDWATER CONTOURS  
FALL 1975**

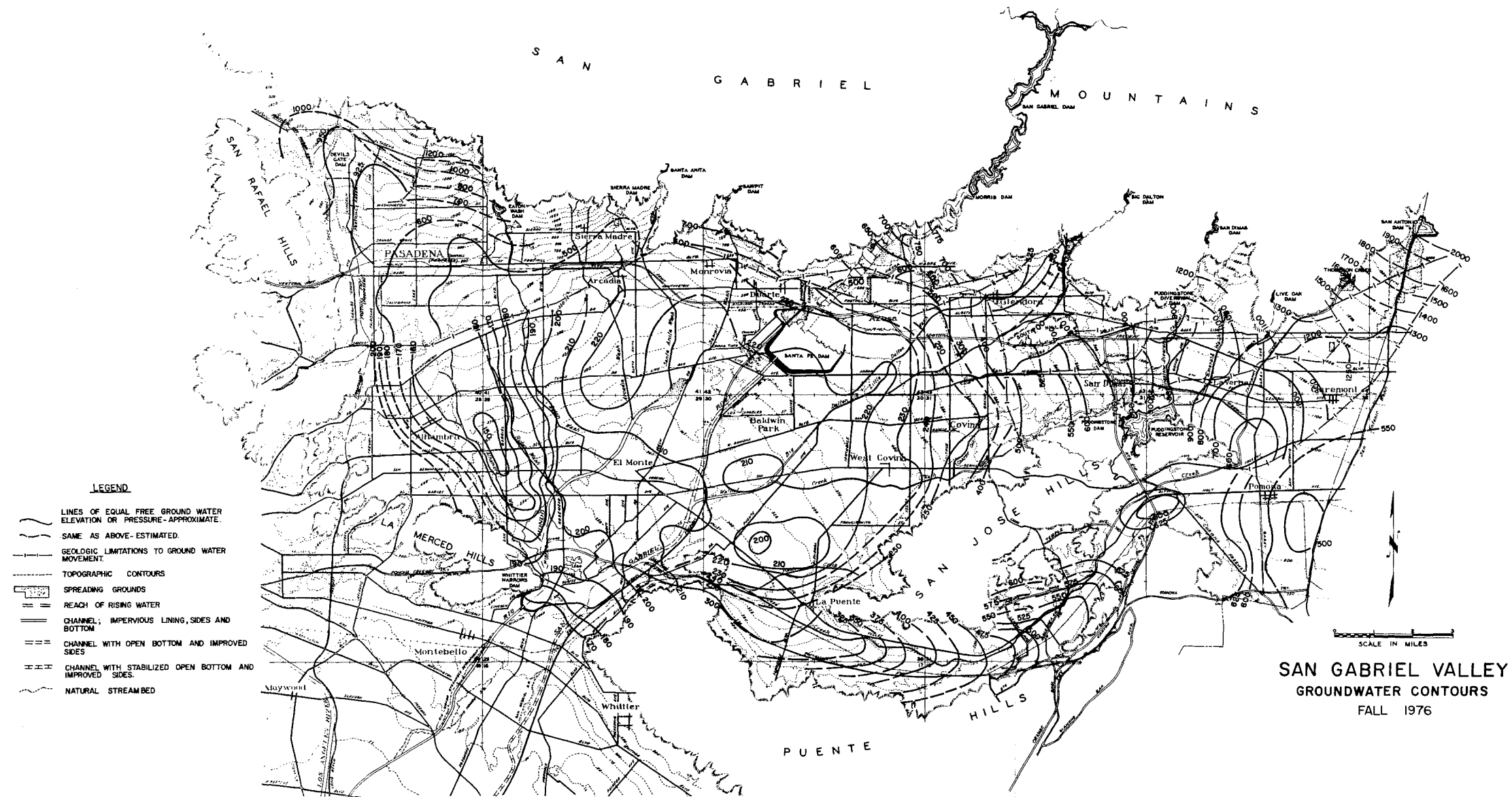




**SAN FERNANDO VALLEY  
GROUNDWATER CONTOURS  
FALL 1976**

- LEGEND**
- (dashed line) LINES OF EQUAL FREE GROUND-WATER ELEVATION (INTERPOLATED BETWEEN WELLS); LOCALLY THE WATER MAY BE UNDER PRESSURE. SAME AS ABOVE LOCATION APPROXIMATE.
  - (solid line) RESTRICTIONS OR BARRIERS TO GROUND-WATER MOVEMENT (GEOLOGIC AND/OR HYDROLOGIC)
  - (dotted line) GROUND SURFACE CONTOURS
  - (shaded area) SPREADING GROUNDS
  - (circle with 'F') FLOWING WELL
  - (line with 'R') REACH OF RISING WATER
  - (line with 'C') CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
  - (line with 'O') CHANNEL; WITH BOTTOM OPEN; SIDES IMPROVED
  - (line with 'S') NATURAL STREAMBED





SAN GABRIEL VALLEY  
GROUNDWATER CONTOURS  
FALL 1976



**LEGEND**

— LINES OF EQUAL PRESSURE ELEVATIONS—PRINCIPAL AQUIFER (INTERPOLATED BETWEEN WELLS)  
 - - - SAME AS ABOVE—LOCATION APPROXIMATE

— RESTRICTIONS OR BARRIERS TO GROUND-WATER MOVEMENT (GEOLOGIC AND/OR HYDROLOGIC)

- - - LINE APPROXIMATELY MARKING TRANSITION FROM FREE GROUND-WATER LEVELS TO PRESSURE LEVELS (CENTRAL COASTAL PLAIN 1933, D.W.R. BULL. NO. 45)

--- GROUND SURFACE CONTOURS

SPREADING GROUNDS

x x CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM

== CHANNEL WITH BOTTOM OPEN; SIDES, IMPERVIOUS LINING

----- NATURAL CHANNEL

~ INJECTION RECHARGE LINE

**NOTE:** CONTOURS SHOWN ARE REPRESENTATIVE OF WATER LEVELS IN WELLS TAPPING PRINCIPALLY THE DEEP PRODUCING AQUIFERS. (SAN PEDRO AND/OR DEEP CORRELATIVE UNDIFFERENTIATED LOWER PLEISTOCENE)

WATER LEVELS IN THE RECENT AND UPPER PLEISTOCENE AND ALONG SOME PERIPHERAL AREAS ARE SHOWN IN THE SHALLOW AQUIFER MAP.

AREAS SHOWING NO GROUND-WATER CONTOURS ON EITHER SHALLOW OR DEEP AQUIFER MAPS CONSTITUTE AREAS WHICH ARE OUTSIDE OF LIMITS OF GROUND-WATER BASINS OR PRINCIPAL AQUIFER OR FOR WHICH THERE IS INSUFFICIENT INFORMATION.

SCALE IN MILES

**COASTAL PLAIN**  
 GROUNDWATER CONTOURS

FALL 1975  
 DEEP AQUIFERS



**LEGEND**

- LINES OF EQUAL PRESSURE ELEVATIONS—PRINCIPAL AQUIFER (INTERPOLATED BETWEEN WELLS)
- - - SAME AS ABOVE—LOCATION APPROXIMATE
- RESTRICTIONS OR BARRIERS TO GROUND-WATER MOVEMENT (GEOLOGIC AND/OR HYDROLOGIC)
- - - LINE APPROXIMATELY MARKING TRANSITION FROM FREE GROUND-WATER LEVELS TO PRESSURE LEVELS (CENTRAL COASTAL PLAIN 1933, D.W.R. BULL. NO. 45)
- GROUND SURFACE CONTOURS
- SPREADING GROUNDS
- xx CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
- CHANNEL WITH BOTTOM OPEN; SIDES, IMPERVIOUS LINING
- NATURAL CHANNEL
- INJECTION RECHARGE LINE

**NOTE:** CONTOURS SHOWN ARE REPRESENTATIVE OF WATER LEVELS IN WELLS TAPPING PRINCIPALLY THE DEEP PRODUCING AQUIFERS. (SAN PEDRO AND/OR DEEP CORRELATIVE UNDIFFERENTIATED LOWER PLEISTOCENE)

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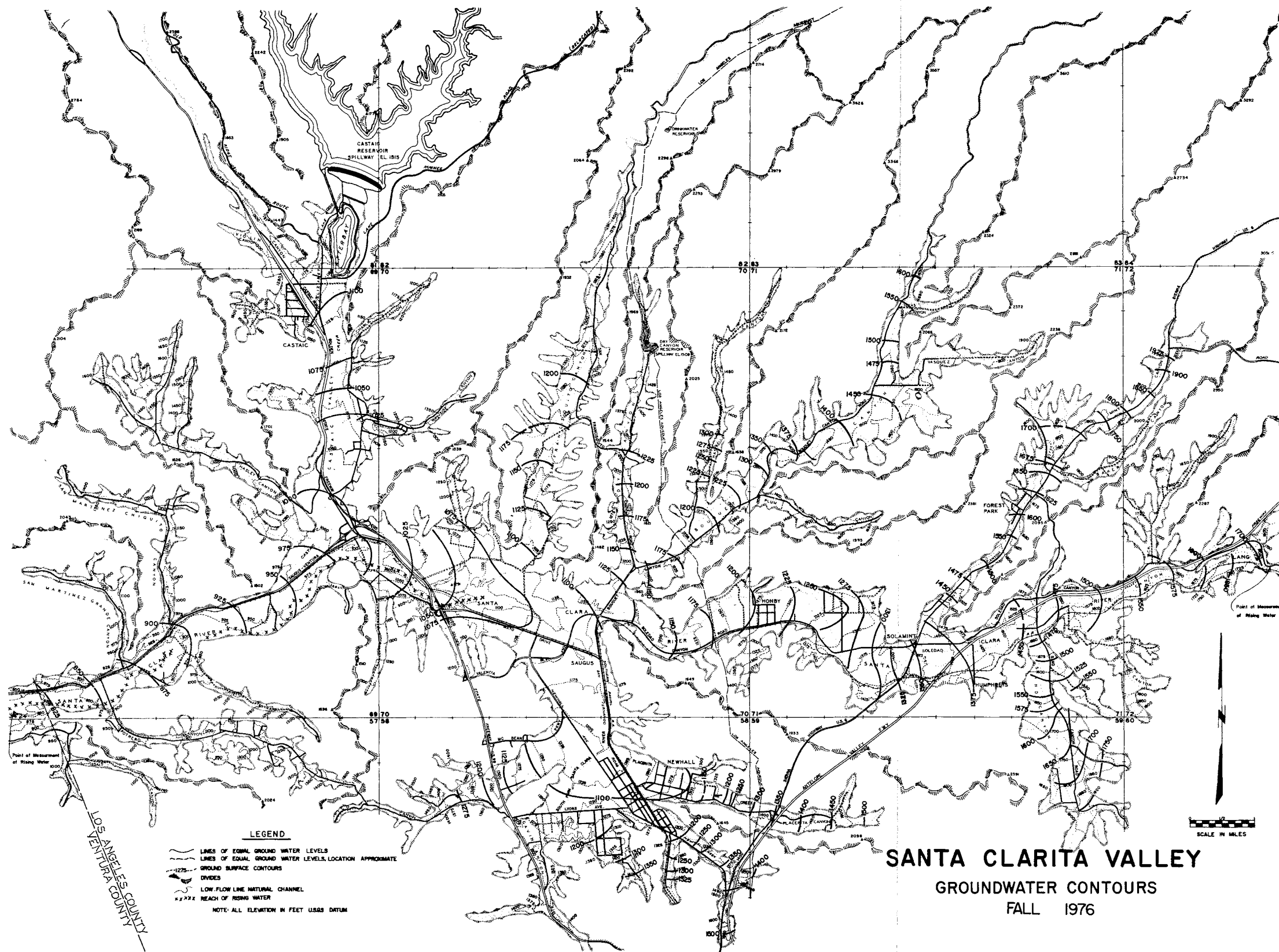
SCALE IN MILES

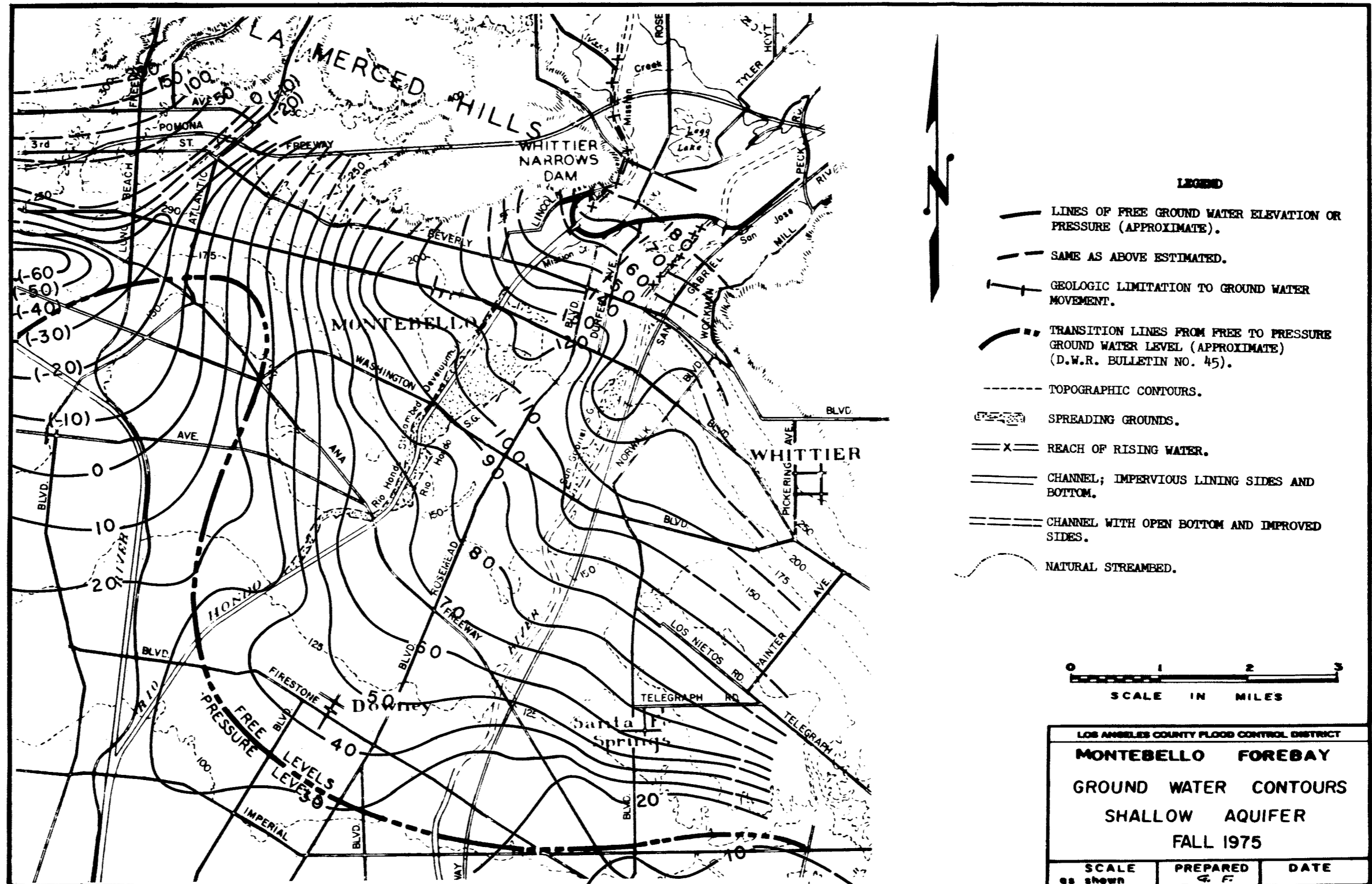
**COASTAL PLAIN**  
GROUNDWATER CONTOURS

FALL 1976  
DEEP AQUIFERS



















**LEGEND**

-  LINES OF FREE GROUND WATER ELEVATION OR PRESSURE (APPROXIMATE).
-  SAME AS ABOVE ESTIMATED.
-  GEOLOGIC LIMITATION TO GROUND WATER MOVEMENT.
-  TRANSITION LINES FROM FREE TO PRESSURE GROUND WATER LEVEL (APPROXIMATE) (D.W.R. BULLETIN NO. 45).
-  TOPOGRAPHIC CONTOURS.
-  SPREADING GROUNDS.
-  REACH OF RISING WATER.
-  CHANNEL; IMPERVIOUS LINING SIDES AND BOTTOM.
-  CHANNEL WITH OPEN BOTTOM AND IMPROVED SIDES.
-  NATURAL STREAMBED.



LOS ANGELES COUNTY FLOOD CONTROL DISTRICT		
<b>MONTEBELLO FOREBAY</b>		
GROUND WATER CONTOURS		
SHALLOW AQUIFER		
FALL 1975		
SCALE as shown	PREPARED G. F.	DATE



