LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT

HYDROLOGIC REPORT

1972-73

PREPARED IN THE

HYDRAULIC AND WATER CONSERVATION DIVISIONS

DECEMBER 1, 1974

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This report contains hydrologic data within Los Angeles County for the period beginning October 1, 1972 and ending September 30, 1973. Also included are summaries of data at selected locations for all years of record. The data is presented in six sections.

1. Precipitation - summarizes precipitation data for over 400 locations and discusses weather modification activities 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 - Lists all locations for which data is on file and presents daily and seasonal runoff amounts for 51 streamflow stations.

4. Dam Operation - lists mean daily inflow, outflow, water surface elevation, and storage amounts as well as a summary of annual events for 15 dams and reservoirs.

5. Erosion Control - presents debris histories for 80 debris basins and maps major watershed burns for the three-season period.

6. Groundwater and Conservation - presents groundwater maps for the 5 major groundwater basins and records of water conserved at various facilities.

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 Several tables appear listing locations for which unpublished data is available.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

Mr. A. E. Bruington, Chief Engineer
Los Angeles County Flood Control District
P. O. Box 2418, Terminal Annex
Los Angeles, CA 90051

SUMMARY OF THE 1972–73 SEASON

RAINFALL

Average rainfall over Los Angeles County was 18.02 inches (115 per cent of normal). Rainfall amounts vary considerably throughout the County, ranging from 14 inches on the Coastal Plain, to 28 inches in the mountains and then dropping sharply to 8 inches in the desert. For the past season, these amounts were 17.16 inches (125 per cent normal), 32.64 inches (116 per cent normal), and 6.84 inches (87 per cent normal). Approximately 75 per cent of the rain fell in the two-month interval from mid January to mid March. The largest storm of the year occurred from February 10 through 14, with February 11 producing the largest single day rainfall.

Most snow fell during the February 10 through 14 storm. Crystal Lake, in the midst of the San Gabriel reservoir drainage area, reported 19 inches of snow on the ground on February 14. Big Pines Recreation Park reported 60 inches of snow on the ground on that same date.

RUNOFF

The average seasonal inflow to the District's reservoirs was 117 per cent of normal. Most peak flows throughout the County occurred on February 11, 1973. Peaks at streamflow recording stations did not exceed any past recorded events.

EVAPORATION

Evaporation for eight selected locations was 94 per cent of average.

FIRE

The largest fire occurred in the Rolling Hills area and burned approximately 900 acres.

EROSION

The average annual erosion rate into the District's debris basin was 5,300 cubic yards per square mile. The prior historical average was 5,000 cubic yards per square mile.

CONSERVATION

During the 1972-73 season, over 195,000 acre-feet of local water, 140,000 acre-feet of imported water, and 22,000 acre-feet or reclaimed water were used to replenish the ground-water basins from spreading facilities, injection facilities, reservoirs, and unlined channels.

GROUNDWATER LEVELS

Ground-water levels throughout most of the County either remained stable or increased due to the above normal rainfall and the large quantities of water conserved in spreading facilities.

SEAWATER BARRIER PROJECTS

The District operates three barrier projects to protect the ground water in the West Coast and Central Basins against sea-water intrusion by creating a freshwater pressure ridge at key locations along the coastline. These pressure ridges are created by injecting fresh water into the ground through a series of injection wells. During the period, 28,100 acre-feet of water were injected at the West Coast Basin Barrier Project, 5,200 acre-feet at the Dominguez Gap Barrier Project.

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, valley, or desert. 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. Steep-walled canyons with side slopes of 70 per cent or more are common. The average 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.

Other moutaineous 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 previous 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 coastal plain. The alluvial fill has been built up be repeated deposition of debris, in places to depths as great as 2,000 feet. This fill is quite porous in areas of relatively low clay content. Impervious lenses 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.

LAND USE

The principal vegetative cover of upper mountain areas consist of various species of brush and shrubs knowns as chaparral. Most trees found on mountain slopes are oak, with alder, willow, and sycamore found along stream beds 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 following a burn.

Grasses are the principal natural vegetation on the hills. Much of the hill land and nearly all of the valley land in the densely popu-

lated portion of the District south of the San Gabriel Mountains has been converted to urban and suburban use. Development of the Santa Clara River valley and desert areas to the north of the San Gabriel Mountains is sparse at present but is proceeding at an accelerated rate.

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. Mean seasonal precipitation ranges from 11 inches at the ocean to more than 45 inches at the crest of the mountains and to less than 5 inches in the 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 and 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

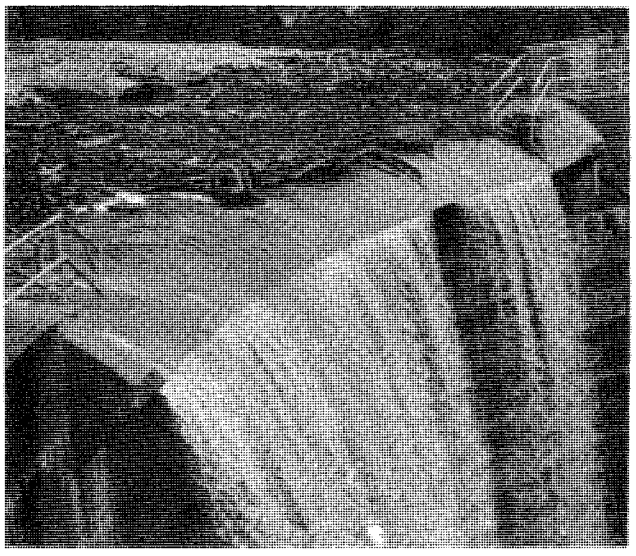
Mountain Areas

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 deep-rooted 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 periods of soil moisture deficiency 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 subsurfaceflow 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 increased direct runoff resulting from lowered infiltration rates. Large amounts and sizes of debris have been transported by flood 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.

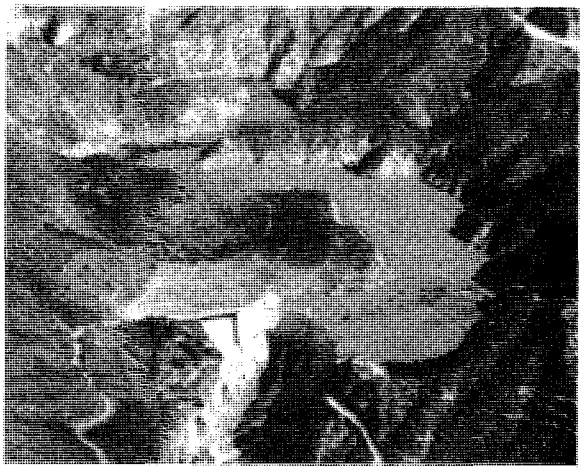
THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

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.



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 storm waters 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 praticable. With minor modifications, it is still the plan today.

Federal legislation in 1936 brought the 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 the 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 spreading grounds adjacent to river channels and their tributaries permits water to be percolated into underground reservoirs for later pumping by consumers. These spreading grounds are composed of porous sands and gravels and look somewhat like rice paddies.

Importance of this activity is apparent when it is realized that over 40 per cent of the water used in the County is pumped from underground supplies. The growth of the County combined with a prolonged drought has seriously depleted these supplies in recent years.

Other major conservation efforts by the District include combatting the serious intrusion by salt water of fresh well supplies along the Pacific Ocean, studies concerning the feasibility of using reclaimed sewage waters in spreading operations, and applied research to determine the effectiveness of cloud seeding to provide additional waters for percolation.

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 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 1,500 civil service employees serve the District and through it the general public, in a variety of tasks. Most have storm assignments which place them on call 24 hours a day throughtout the winter season.

PRECIPITATION

This report contains basic precipitation data collected by the District for the water year beginning October 1, 1972, and ending September 30, 1973. In addition, the District maintains less extensive records of other climatological data such as temperature, barometric pressure, humidity, and 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 Saving Time was observed for the October 1, 1972, to October 29, 1972, periods to April 29, 1973, to October 28, 1973.

WEATHER MODIFICATION

As part of its water conservation efforts in the Los Angeles area, the Districxt has conducted weather modification activities since the 1961-62 season. This project 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.

The District uses four ground-based seeding devices situated at various locations within the County. Both intermittent and continuous seeding equipment is employed. Continuous seeding is accomplished by vaporizing a silver iodide-acetone solution and injecting it into a propane flame. The flame both crystalizes the silver iodide and provides the connection required to lift the crystals into the cloud masses where they act a nuclei. The intermittent seeding is a refinement of this technique. Rather than injecting small amounts of silver iodide into the atmosphere continuously throughout a storm, solid state flare-like devices are burned for brief 8-minute periods, emitting larger amounts of silver iodide into the concentrated rain bands which pass over the target area periodically.

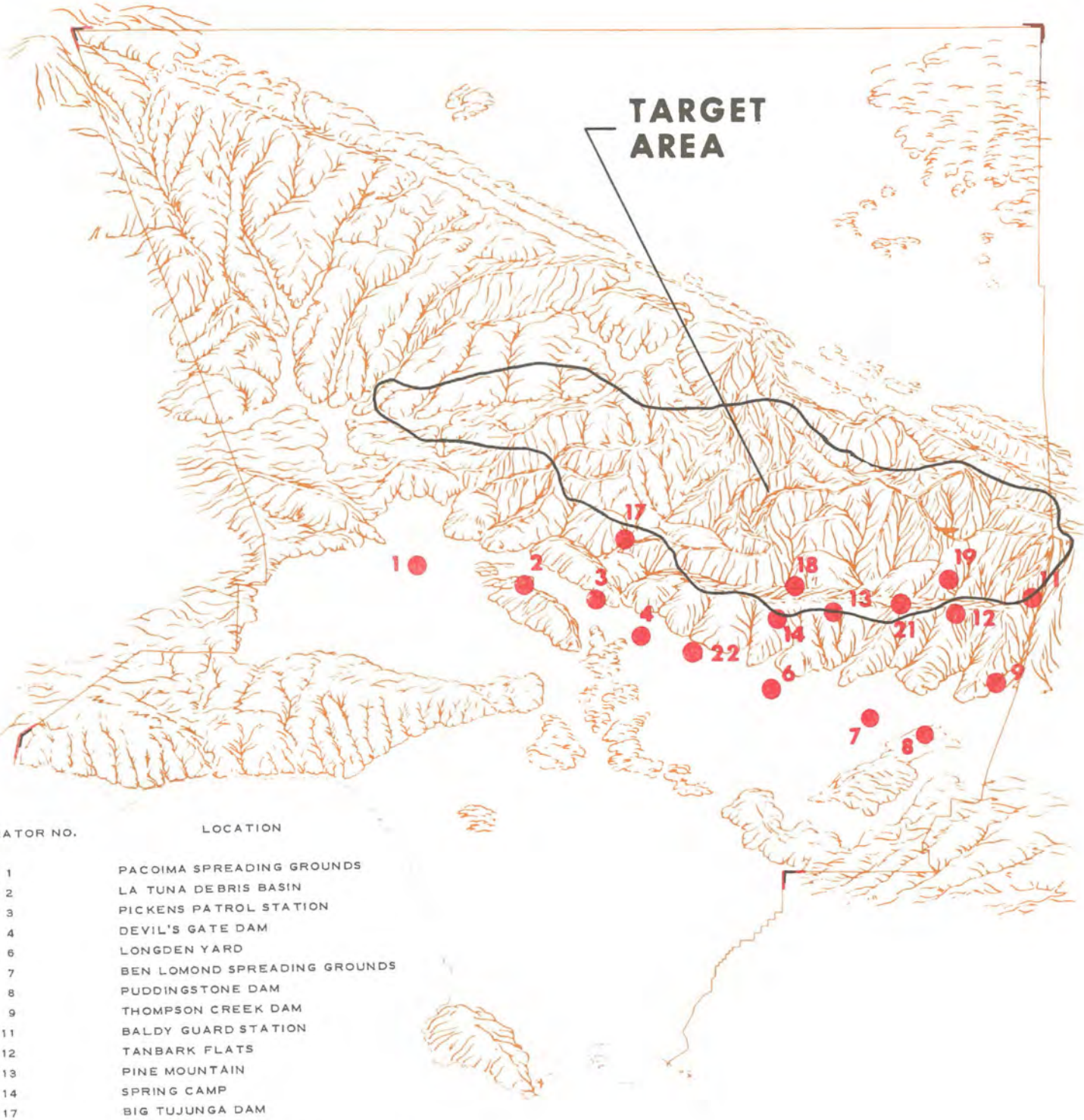
Throughout the program's history it has generally been evident that the artificial nucleation devices have significantly increased rainfall in the target areas and have contributed to the District's water conservation program. Analysis of data show that the increase in rainfall over the target areas for the history of the program has averaged approximately 10 to 15 per cent.

SNOW SURVEYS

District personnel measure snow depths and densities at 12 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.

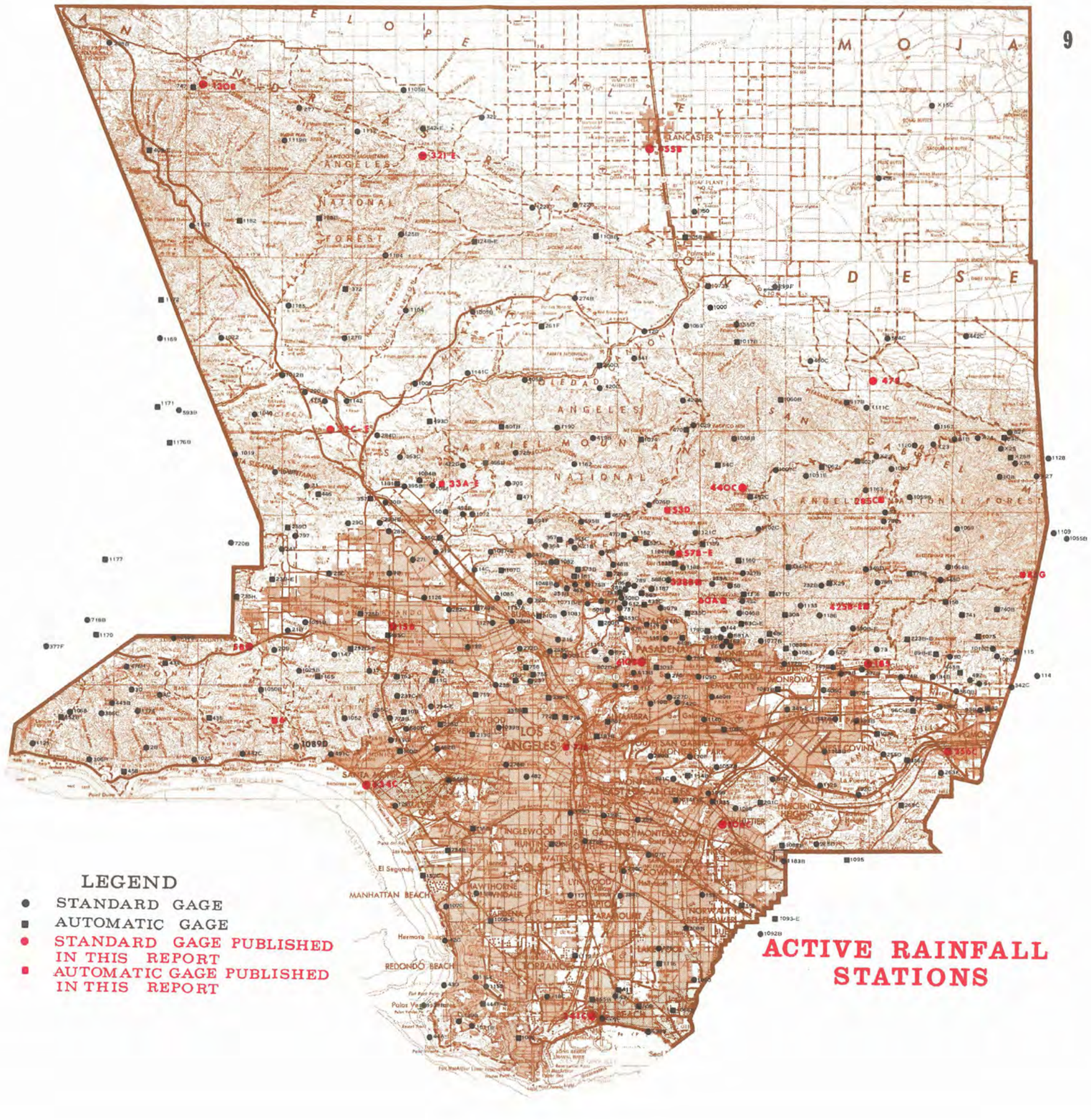
COOPERATION

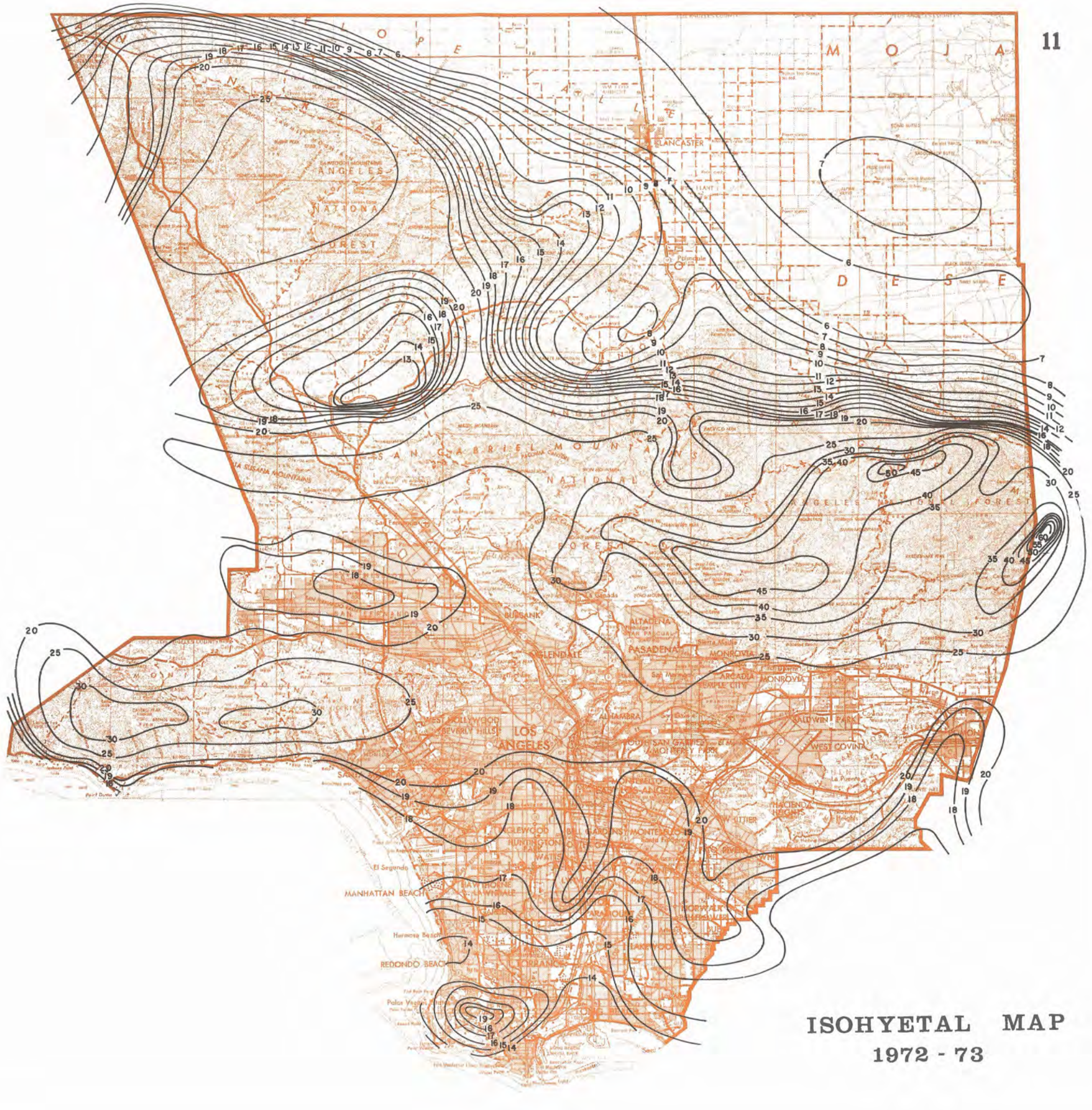
The cooperation of observers in furnishing data to this District as a public service is appreciated. The efforts of the many agencies and individuals who have so freely cooperated with us in the collection of these data have resulted in the large number of complete records for the season covered bv this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



GENERATOR NO.	LOCATION
1	PACOIMA SPREADING GROUNDS
2	LA TUNA DEBRIS BASIN
3	PICKENS PATROL STATION
4	DEVIL'S GATE DAM
6	LONGDEN YARD
7	BEN LOMOND SPREADING GROUNDS
8	PUDDINGSTONE DAM
9	THOMPSON CREEK DAM
11	BALDY GUARD STATION
12	TANBARK FLATS
13	PINE MOUNTAIN
14	SPRING CAMP
17	BIG TUJUNGA DAM
18	COGSWELL DAM
19	SAN GABRIEL CANYON EAST FORK RANGER
21	SAN GABRIEL DAM
22	EATON WASH DAM

LOCATIONS OF CLOUD SEEDING GENERATORS


ANTELOPE VALLEY
MOJAVE DESERT
ANGELES NATIONAL FOREST
SAN GABRIEL MOUNTAINS NATIONAL FOREST
LANCASTER
PALMDALE
PASADENA
LOS ANGELES
LEGEND
STANDARD GAGE
AUTOMATIC GAGE
STANDARD GAGE PUBLISHED IN THIS REPORT
AUTOMATIC GAGE PUBLISHED IN THIS REPORT
ACTIVE RAINFALL STATIONS


ANGELES NATIONAL FOREST
SAN GABRIEL MOUNTAINS NATIONAL FOREST
ANGELES NATIONAL FOREST
LANCASTER
PALMDALE
M O J A V E
D E S E R T
SAN FERNANDO
BURBANK
GLENDALE
PASADENA
ALTADENA
MONROVIA
ARCADIA
SIERRA MADRE
ALHAMBRA
SOUTH SAN GABRIEL
SAN GABRIEL
MONTEREY PARK
ROSEMEAD
EL MONTE
WEST COVINA
BALDWIN PARK
HACIENDA HEIGHTS
WHITTIER
LOS ANGELES
BEVERLY HILLS
CULVER CITY
INGLEWOOD
HUNTINGTON PARK
BELL GARDENS
MONTEBELLO
PICO RIVERA
NORWALK
LAKEWOOD
LONG BEACH
LAWNDALE
GARDENA
TORRANCE
MANHATTAN BEACH
REDONDO BEACH
Hermosa Beach
El Segundo
Palos Verdes
Point Dume
SANTA MONICA MOUNTAINS
ISOHYETAL MAP
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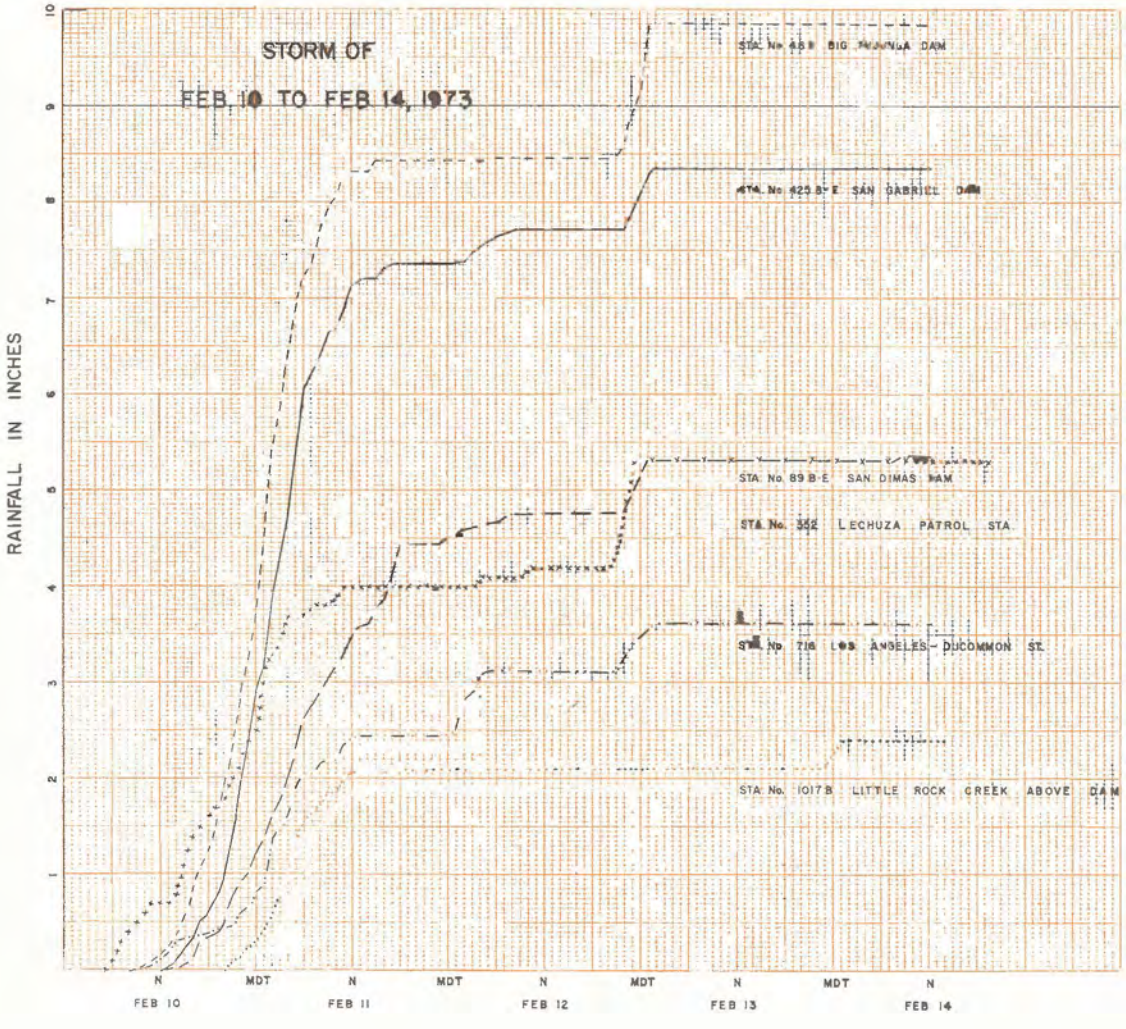
MASS CURVES OF RAINFALL AT SELECTED STATIONS FOR MAJOR STORM OF EACH SEASON



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 RAINFALL 1972-73
28	ESCONDIDO CANYON	S	47	1050	34-02-55	118-46-25	STEIN PERSEN	23.22
3F	SEMINOLE HOT SPRINGS	S	41	925	34-06-25	118-47-30	JOHN & LINDA MCCOY	29.44
4B	MALIBU LAKESIDE	S	60	800	34-06-09	118-45-16	HENRY READ	INC
5B	CALABASAS	S	46	924	34-09-24	118-38-14	TOM FARMER	23.70
6	TOPANGA CANYON PATROL STATION	SA	46	745	34-05-03	118-35-57	TOPANGA CYN PAT STA PERSONNEL	32.96
9B	SEPULVEDA & RAYEN	SP	45	828	34-13-52	118-28-04	GREEN ARROW NURSERY PERS.	19.06
10A	BEL AIR HOTEL	SA	45	585	34-05-13	118-26-45	LACFCD PERSONNEL	24.09
11C	UPPER FRANKLIN CANYON RESERVOIR	SPA	46	867	34-07-14	118-24-38	DWP PERSONNEL	24.44
12	FRANKLIN & MULHOLLAND-FIRE STA. NO.1	S	44	1100	34-07-45	118-24-20	L.A. CITY FIRE DEPT PERSONNEL	INC.
13B	NORTH HOLLYWOOD-BLIX	S	67	593	34-09-23	818-21-56	KATHIE BLIX	21.78
14C	ROSCOE-MERRILL	SP	46	1050	34-14-19	118-21-32	LOUIE GUTIERREZ	21.23
15A	VAN NUYS	S	68	695	34-10-48	118-27-03	A.A. SIMON	19.35
17	SEPULVEDA CANYON AT MULHOLLAND HIGHWAY	S	44	1425	34-07-51	118-29-26	FIRE STATION PERSONNEL	27.52
20B	GIRARD RESERVOIR	S	52	986	34-09-07	118-36-36	DWP PERSONNEL	25.34
21B	WOODLAND HILLS	S	61	875	34-10-14	118-35-33	LITTON INDUS CORP PERSONNEL	20.89
23B-F	CHATSWORTH RESERVOIR	SP AP	48	900	34-13-44	118-37-18	DWP PERSONNEL	18.55
24F	CHATSWORTH	S	45	948	34-15-20	118-36-36	MRS PAUL NEWTON	20.80
25C	NORTHRIDGE-L.A.DEPT.WEP	SP	53	810	34-13-52	118-32-28	DWP PERSONNEL	17.98
27B	PACOIMA-RADDATZ RANCH	S	48	902	34-14-57	118-26-40	GLEN C. RADDATZ	20.35
28G	SAN FERNANDO	SP	33	967	34-16-36	118-28-06	ROSS GOULD	18.63
29D	GRANADA HILLS	S	46	1280	34-17-09	118-30-59	HELEN STRATHAUS	21.55
30B	SYLMAR	SP	54	1250	34-18-37	118-28-15	MIKE FUSANO	22.26
31	ORCUTT RANCH	S	25	2850	34-19-28	118-34-14	W.J. WILLETT	32.77
32C	NEWHALL-SOLEDAD DIV HDQTRS	S	46	1243	34-23-07	118-31-54	L.A. CO. FIRE DEPT PERSONNEL	21.12
33A-E	PACOIMA DAM	SA	48	1500	34-19-48	118-23-59	THOMAS WERNTZ	27.04
39B	SUNSET DEBRIS BASIN	8.81"	44	1610	34-12-18	118-17-05	LACFCD PERSONNEL	23.42
42C	REDONDO BEACH CITY HALL	S	45	70	33-50-43	118-23-20	F.M. ARNOLD	13.80
43D	PALOS VERDES ESTATES	S	48	216	33-47-58	118-23-29	KEN AYERS	15.11
44A	POINT VICENTE LIGHTHOUSE	S	46	125	33-44-30	118-24-38	LIGHT SUPERVISOR USCG	12.55
46D-E	BIG TUJUNGA DAM	SA	47	2315	34-17-40	118-11-14	JOHN FORESTER	33.02
47D	CLEAR CREEK-CITY SCHOOL	SA	46	3150	34-16-38	118-10-12	CITY SCHOOLS PERSONNEL	38.68
48B	OAK WILDE	S	46	2175	34-14-37	118-11-07	U.S.F.S. PERSONNEL	24.39
50B	LA CANADA-ARROYO SECO	S	41	1155	34-11-52	118-11-05	LACO. FIRE DEPT PERSONNEL	27.89
51	FALLING SPRINGS	S	45	4010	34-16-06	117-50-20	TOM SATTENBERG	40.51
52D	WATERMAN GUARD STATION	SA	43	3300	34-15-58	118-08-37	U.S.F.S. PERSONNEL	32.72
53D	COLBY'S	SA	76	3620	34-18-05	118-04-39	ROBERT L. CHANDLER	32.74
54C	LOOMIS RANCH - ALDER CREEK	SPA	57	4325	34-20-55	118-02-54	LACFCD PERSONNEL	17.66
57B-E	CAMP HI HILL(OPIDS)	SPA	56	4250	34-15-18	118-05-41	ALEXANDER D. MORGAN	49.71
58	STURTEVANT CAMP	S	42	3275	34-13-21	118-01-52	LOUIS LUEBKERT	51.49
60A	HOEGEE'S	SA	48	2412	34-12-32	118-02-02	LOUIS LUEBKERT	44.93
63C-E	SANTA ANITA DAM	SA	46	1400	34-11-03	118-01-12	ERNEST R. WINDER	34.72
66	SIERRA MADRE-PEGLER RANCH	S	49	658	34-09-27	118-02-36	RICHARD E. LAWYER	27.15
68C	SAWPIT DAM	SA	47	1375	34-10-30	117-59-07	JAMES T. MCGOWAN JR.	30.87
73	GLENDORA-ENGLEWILD RANCH	SA	47	1165	34-09-22	117-50-57	T.G. KENNARD	25.60
76B	SAN GABRIEL DAM - CAMP	SA	49	1500	34-13-33	117-50-48	LACFCD PERSONNEL	DISC.
78B	COLDBROOK RANGER STATION	SA	23	3280	34-17-26	117-50-26	LACFCD PERSONNEL	33.68
80B	PRAIRIE FORK	ST	25	5640	34-20-20	117-41-30	LACFCD PERSONNEL	28.12
81B	VINCENT GAP	ST	20	6590	34-22-26	117-45-05	LACFCD PERSONNEL	36.68
82F	TABLE MOUNTAIN	S	46	7420	34-22-56	117-40-39	EARL IVIE	12.62
83B	BIG PINES RECREATION PARK	SA	45	6860	34-22-45	117-41-20	U.S.F.S. PERSONNEL	27.77
85G	MT. BALDY GUARD	SA	53	4275	34-14-12	117-39-32	U.S.F.S. PERSONNEL	41.60
89B-E	SAN DIMAS DAM	SA	49	1350	34-09-10	117-42-17	BILLY R. MCCARTY	25.09
91	INDIAN HILL-CLAREMONT	S	44	1403	34-07-22	117-43-11	MARVIN MINGS	21.94
92	CLAREMONT-POMONA COLLEGE	S	41	1185	34-05-48	117-42-33	JACK C. MILLER	19.25
93B	CLAREMONT-POLICE STATION	8.81"	46	1180	34-05-45	117-42-57	POLICE DEPT. PERSONNEL	18.99
95	SAN DIMAS-FIRE WARDEN	S	46	955	34-06-26	117-48-19	LA.CO. FIRE DEPT PERSONNEL	21.77
96C-E	PUDDINGSTONE DAM	SA	46	1030	34-05-31	117-48-24	LACFCD	20.97
99B	AZUSA-FOOTHILL RANCH	S	56	615	34-07-57	117-53-32	LOUIE HIROTA	24.10
102C	WALNUT-PATROL STATION	S	46	488	34-00-12	117-52-14	L.A.CO. FIRE DEPT PERSONNEL	20.73
106C	WHITTIER CITY HALL	S	46	340	33-58-27	118-01-57	CITY OF WHITTIER PERSONNEL	20.17
107C	DOWNEY-FIRE DEPT.	8.81"	48	130	33-56-18	118-08-03	DOWNEY FIRE DEPT PERSONNEL	18.57
108D	EL MONTE FIRE STATION	SA	46	275	34-04-30	118-02-30	EL MONTE FIRE STA. PERSONNEL	21.24
109D	WEST ARCADIA	S	48	547	34-07-42	118-04-22	W. ARCADIA FIRE STA. PERSONNEL	25.05
110B	ALHAMBRA CITY HALL	S	46	533	34-06-05	118-07-52	WATER DEPT.PERSONNEL	24.13
111	SOUTH PASADENA CITY HALL	S	46	690	34-06-58	118-09-05	FIRE DEPT PERSONNEL	24.80
116D	INGLEWOOD FIRE STATION	SA	51	153	33-57-54	118-21-22	FIRE STA. PERSONNEL	18.38
117F	COMPTON-FIRE STATION	S	49	78	33-53-42	118-13-34	FIRE STA. PERSONNEL	19.40
118C	WILMINGTON	S	45	40	33-47-27	118-15-30	PARK PERSONNEL	15.10
119G	SAWTELLE-SOLDIERS' HOME	S	77	345	34-03-21	118-27-20	VET. ADMIN. PERSONNEL	22.98
120	VINCENT PATROL STATION	S	47	3135	34-29-17	118-08-27	L.A.CO. FIRE DEPT PERSONNEL	7.50
122F	LEONIS VALLEY-RITTER RANCH	S	45	3200	34-37-12	118-17-08	VIRGIL L. DOYLE	11.67
124B-E	BOUQUET CANYON RESERVOIR	AP	46	3050	34-35-14	118-21-45	D.W.P. PERSONNEL	18.83
125B	SAN FRANCISQUITO CANYON POWER HOUSE NO.1	SP	56	2105	34-35-25	118-27-15	D.W.P. PERSONNEL	23.62
126B	VENICE FIRE STATION	S	45	55	33-59-32	118-27-39	FIRE STA. PERSONNEL	17.76
127B	DRY CANYON RESERVOIR	SP	52	1511	34-28-55	118-31-32	EDWARD FIELDS	15.63
128B	ELIZABETH LAKE CANYON	SA	45	2075	34-36-28	118-33-40	ARTHUR L. STEWART	26.78
130B	SANDBERG-QUAIL LAKE PATROL	S	46	4025	34-44-37	118-42-43	CAPT. J.E. FRYER	20.55
134B	SAN DIMAS-STEVENS	S	45	1215	34-07-42	117-42-42	ALBERT L. STEVENS	23.18
135	NORWALK	S	47	85	33-53-52	118-04-00	CHARLES J. HARGITT	21.08
140C	SAWTELLE	AP	45	250	34-02-43	118-26-55	L.A. CITY PERSONNEL	N.R.
143B	AZUSA-CITY PARK	S	45	610	34-08-03	117-54-17	ARTHUR H. BROWN	24.89
144	SIERRA MADRE DAM	S	45	1100	34-10-34	118-02-32	L. CINNAMON	30.47
155C	LITTLE ROCK CREEK	S	48	3120	34-29-45	118-01-33	U.S.F.S. PERSONNEL	9.78
156	LA MIRADA-STANDARD OIL COMPANY	SA	50	86	33-53-13	118-00-56	STANDARD OIL CO. PERSONNEL	17.90
157C	EL SEGUNDO-STANDARD OIL COMPANY	S AP	45	150	33-54-57	118-25-05	STANDARD OIL CO. PERSONNEL	17.20
158	TANBARK FLATS	SP AP	45	2750	34-12-20	117-45-40	U.S.F.S. PERSONNEL	33.48
167C	ARCADIA PUMPING PLANT NO. 1	S	44	611	34-09-31	118-02-02	ARCADIA FIRE STA. PERSONNEL	27.68
169	SIERRA MADRE PUMPING PLANT	SP	48	700	34-09-47	118-02-21	L. CINNAMON AND C. ASKEW	27.95
170F	POTRERO HEIGHTS	S	47	985	34-02-32	118-04-44	S.CALVIN EDINGER	20.66
172B	DUARTE	S	32	548	34-08-26	117-58-02	JACK L. LONGRESS	24.80
174B	GLENDORA-WARREN	S	59	930	34-07-43	117-49-08	L.A.CO. FIRE DEPT PERSONNEL	23.39
175B	LA CANADA IRRIGATION DISTRICT	S	50	2020	34-13-39	118-12-40	LA CANADA IRRIG.DIST.PERSONNEL	30.83
176	ALTADENA-RUBIO CANYON	SP	52	1125	34-10-55	118-08-15	LAND & WATER ASSOC. PERSONNEL	27.09
177F	LA CANADA-AP ROBERTS	S	61	12700	34-12-04	118-11-00	J.P. AP ROBERTS	29.87
178C	AZUSA VALLEY WATER COMPANY	SA	73	620	34-06-38	117-52-50	LACFCD PERSONNEL	21.20
179G	BAILEY DEBRIS BASIN	SA	78	1180	34-10-25	118-03-38	LACFCD PERSONNEL	30.33
185	GLENDORA-WEST	S	93	822	34-08-23	117-51-33	MRS. L.M. WEST	24.30
191B	LOS ANGELES-ALCAZAR	SA	21	400	34-03-46	118-11-54	LACFCD PERSONNEL	22.08
192C	BELL-FIRE STATION	8.81"	45	145	33-58-45	118-11-16	CHIEF J.H. CARROLL	19.42
193B	COVINA TEMPLE	S	70	580	34-04-57	117-52-29	WILLIAM B. TEMBLE	21.06
196C	LA VERNE-FIRE STATION	S	67	1050	34-06-06	117-46-20	HARRY D. BLICKENSTAFF	22.00
198C	BRAND DEBRIS BASIN	8.81"	42	925	34-11-04	118-16-32	LACFCD PERSONNEL	21.25
199D	HUNTINGTON PARK	S	46	175	33-59-00	118-13-47	CAPT. HENRY	18.20
200	SAUGUS-SO.CAL.EDISON CO.SUBSTATION	S	45	1096	34-25-21	118-34-26	S.C.E. CO. PERSONNEL	15.33
201C	ALTA MIRA RANCH	SA	44	845	33-59-40	117-59-31	CLARENCE R. WOODHURST	22.10
208B	ARTESIA	S	65	52	33-51-48	118-04-58	L.A. CO. FIRE DEPT PERSONNEL	18.16
210B	BRAND PARK	SA	44	1250	34-11-18	118-16-20	LACFCD PERSONNEL	23.47
213G	LOS ANGELES	SA	44	200	34-03-52	118-21-17	LACFCD PERSONNEL	20.50
216	GLENDALE-JONES	SP	46	615	34-09-54	118-15-01	JAMES E. JONES	22.52

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 RAINFALL 1972-73
219	PACOIMA WAREHOUSE COUNTY FORESTRY	S	43	955	34-15-21	118-24-24	L.A. CO. FIRE DEPT PERSONNEL	18.04
222C	LANKERSHIM PUMPING PLANT	SP	44	717	34-11-39	118-23-17	D.W.P. PERSONNEL	20.75
223B-E	BIG DALTON DAM	SA	44	1575	34-10-06	117-58-36	GERALD M. THRASHER	29.36
224C	LONG BEACH ALAMITOS LAND COMPANY	S	78	220	33-46-01	118-11-28	ALAMITOS LAND CO PERSONNEL	14.43
225	MONTANA RANCH	S	53	47	34-50-35	118-07-09	LAKEWOOD WATER DEPT. PERSONNEL	17.26
226B	BURBANK FIRE STATION	S	44	680	34-10-58	118-18-23	BURBANK FIRE DEPT PERSONNEL	20.73
227D	SAN GABRIEL-BRUINGTON	S	42	472	34-06-18	118-06-32	A.E. BRUINGTON	25.68
228B	BEVERLY HILLS-CITY HALL	S AP	48	255	34-04-27	118-23-57	FRED E. POWER	22.67
235C	HENNIGER FLATS	SP A	43	2550	34-11-38	118-05-17	FORESTRY PERSONNEL	34.06
237C-E	STONE CANYON RESERVOIR	SP	48	865	34-06-21	118-27-13	D.W.P. PERSONNEL	26.43
238	HOLLYWOOD DAM	SP	44	750	34-07-04	118-19-55	D.W.P. PERSONNEL	20.89
241C	LONG BEACH-CITY HALL	S AP	45	116	33-42-12	118-11-32	D. LEE MAYES	12.68
246C	CULVER CITY	SP	38	100	34-01-17	118-23-41	CULVER CITY FIRE DEPT PERSONNEL	17.76
250D	ACTON CAMP	SA	38	2625	34-27-02	118-11-55	ACTON CAMP PERSONNEL	9.24
251B	LA CRESCENTA	S	52	1440	34-13-20	118-14-40	LA CRES. VAL. WATER DIST. PERS.	29.19
255F	MT.SAN ANTONIO COLLEGE-SPADRA	S	43	720	34-02-41	117-50-19	J.G. PAGE	20.53
256C	POMONA FIRE STATION	S	55	844	34-03-16	117-45-10	FIRE STATION PERSONNEL	17.51
257	GRIFFITH PARK NURSERY	S	42	850	34-07-18	118-17-04	WILLIAM S. TOLIN	21.35
259D	CHATSWORTH-TWIN LAKES	SA	43	1275	34-16-43	118-35-41	D.C. CULBREATH	20.58
261F	ACTON-ESCONDIDO CANYON	SA	77	29600	34-29-42	118-16-22	LACFCD PERSONNEL	10.27
265D	PUENTE HILLS	S	48	645	33-57-08	117-55-26	P.J. WEISEL JR.	20.67
269C	DIAMOND BAR-HORSE CAMP	SP AP	43	870	33-59-40	117-48-54	U.S.C.E. PERSONNEL	19.31
270C	COUNTY FARM - RANCHO LOS AMIGOS	S	44	90	33-55-18	118-09-44	RALPH BASSET	DISC
272D	L.A. HEADWORKS PUMPING PLANT	S	43	470	34-09-21	118-18-02	J.V. ELLERMAN	23.25
274B	ACTON-HUBBARD	SP	74	3490	34-31-31	118-13-58	MRS. GUY S. LEE	10.74
275	SAN MARINO-HUNTINGTON LIBRARY	SMP	53	670	34-07-38	118-06-48	LIBRARY PERSONNEL	26.78
277	SAWMILL MOUNTAIN RANCH	S	42	3700	34-43-15	118-35-00	FRED ADAMS	26.76
278B	LOS ANGELES-CLARK MEMORIAL LIBRARY	S	43	270	34-02-00	118-18-46	FRANK ORDON	20.24
280B	FLINTRIDGE FIRE STATION	SA	43	1345	34-10-57	118-11-47	L.A.CO. FIRE DEPT.PERSONNEL	27.25
283C	CRYSTAL LAKE	SA	42	5370	34-19-02	117-50-28	U.S.F.S. PERSONNEL	40.76
284D	PLACERITA CANYON	S	45	1485	34-22-37	118-28-43	SAM HURT	27.88
285C	MOUNT ST.MARY'S COLLEGE	S	43	1025	34-05-10	118-28-57	MARTIN BULLINGER	27.30
287B	GLENDORA	S,RI	44	785	34-08-09	117-51-52	CITY OF GLENDORA PERSONNEL	24.57
289	LAGUNA-BELL-S.C.E.CO.SUBSTATION	SP	43	140	33-58-37	118-08-48	S.C.E.CO. PERSONNEL	18.26
290B	MONTEREY PARK-FIRE STATION	S	23	305	34-02-27	118-07-42	FIRE STATION PERSONNEL	20.19
291	L.A.-96TH 2ND CENTRAL	SA	43	121	33-56-56	118-15-17	D.W.P.PERSONNEL	17.32
293D-E	ENCINO RESERVOIR	S AP	45	1075	34-08-56	118-30-57	E.E. HARDIN	24.58
293E	VAN NORMAN LAKE - LOWER	SP	45	1150	34-17-18	118-28-54	C.W. CARNEY	22.15
294B	SIERRA MADRE-MIRA MONTE PUMPING PLANT	SP	43	985	34-10-11	118-02-51	C. ASKEW AND L. CINNAMON	30.35
298B	GORMAN	S	36	3680	34-47-16	118-49-55	DEWEY RALPH	15.34
298C	GORMAN - SHERIFF	S	1	3835	34-47-47	118-51-27	J. SYLVIES	15.21
299F	LITTLE ROCK	S	43	2800	34-32-12	117-58-43	REUBEN J. SCHWAB	5.82
303F	PASADENA-CAL TECH	SA	42	800	34-06-14	118-08-25	DR. N.H. BROOKS	26.24
304	SAWPIT CANYON-DEER PARK	SA	43	2690	34-11-38	117-57-52	JAMES T. MCGOWAN	40.51
306H	ZUMA BEACH	S	33	15	34-01-15	118-49-42	L.A.CO. LIFEGUARDS	17.22
321-E	PINE CANYON PATROL STATION	SAAP	42	3286	34-40-24	118-25-45	L.A.CO. FIRE DEPT.PERSONNEL	22.54
322	MUNZ VALLEY RANCH	S	43	2600	34-42-50	118-21-15	ARNOLD MUNZ	11.13
334B-E	COGSWELL DAM	SA	41	2300	34-14-37	117-57-35	R.A. WINDER	44.64
335C	HACIENDA HEIGHTS	S	7	585	33-58-45	117-58-26	CHUCK DALEO	19.89
336-E	SILVER LAKE RESERVOIR	SP AP	43	445	34-06-08	118-15-54	D.W.P. PERSONNEL	22.06
338A	MT. WILSON OBSERVATORY	S	41	5675	34-13-32	118-03-21	T. CRAGG	38.95
338B	MT. WILSON AIRWAYS	SP A	34	5709	34-13-36	118-03-57	MARCIA E. WINN	47.81
341	ALISO CANYON-BLUM RANCH	S	42	2900	34-27-33	118-09-20	ELIZABETH BILLES	9.43
342C	UPLAND EUCLID PUMPING PLANT	SP AP	41	1610	34-07-33	117-40-52	THOMAS R. CHAPPELL	22.29
347-F	BALDWIN PARK EXPERIMENTAL STATION	S	41	386	34-05-36	117-57-40	LACFCD PERSONNEL	21.02
349D	CAMP RINCON	S RI	41	1510	34-14-28	117-51-45	LACFCD PERSONNEL	39.12
352B	LECHOZA PATROL STATION	SA	41	1620	34-04-38	118-52-47	L.A.CO.FIRE DEPT.PERSONNEL	27.47
355B	LOS ANGELES-CITY COLLEGE	S AP	49	310	34-05-14	118-17-28	METEOROLOGICAL DEPARTMENT	25.35
356C	SPADRA-PACIFIC COLONY	SA	29	690	34-02-31	117-48-35	R.S. HUTCHISON	20.86
357	VAN NORMAN LAKE-UPPER	SP AP	45	1248	34-18-49	118-29-30	D.W.P. PERSONNEL	21.90
363C	WILSON CANYON	ST	18	3175	34-21-17	118-27-00	LACFCD PERSONNEL	N.R.
364B	HAINES CANYON-LOWER	S	55	2530	34-15-56	118-16-07	JAMES P. KINDRED	27.63
365C	MT.LUKENS	SP	27	5040	34-16-05	118-14-06	USES PERSONNEL	20.22
367	HAINES CANYON-UPPER	SP A	40	3440	34-16-18	118-15-07	JAMES P. KINDRED	32.34
372	SAN FRANCISQUITO POWER HOUSE NO.2	SP A	43	1580	34-32-02	118-31-27	D.W.P. PERSONNEL	19.80
373C	BRIGGS TERRACE	SA	39	2200	34-14-17	118-13-27	R.T. SIENS	32.89
377F	LAKE SHERWOOD ESTATES	SP	58	960	34-08-26	118-52-31	WILLIAM O. FERGUSON	24.53
379B	SAN GABRIEL-EAST FORK	SA	40	1600	34-14-09	117-48-18	LACFCD PERSONNEL	32.43
386C	ZUMA CANYON-OAKLEY	S	38	1500	34-04-58	118-49-38	BEATRICE OAKLEY	33.93
387B	COVINA CITY YARD	SP	38	508	34-05-02	117-53-57	CITY OF COVINA PERSONNEL	19.30
388D	PARAMOUNT-CO. FIRE STATION	S,RI	38	80	33-53-50	118-10-02	L.A.CO.FIRE DEPT. PERSONNEL	15.71
390B-E	MORRIS DAM	SP	43	1210	34-10-53	117-52-43	EVERETT PUTNAM	31.94
391C	MONTEBELLO-FIRE DEPARTMENT	S,RI	31	250	34-01-08	118-06-15	FIRE DEPT. PERSONNEL	18.78
394	HIGHLAND PARK-LINDSAY	S	78	620	34-07-06	118-10-39	MRS. ELIZABETH S. STEVENS	22.90
395A	OLIVE VIEW SANITARIUM	S	39	1425	34-19-29	118-26-55	LACFCD PERSONNEL	23.83
402F	CEDAR SPRINGS	SA	35	6780	34-21-21	117-52-34	LACFCD PERSONNEL	31.45
405B	SOLEDAD CANYON	SA	37	2150	34-26-23	118-17-33	B. CHAPMAN	15.88
406C	WEST AZUZA	S	37	505	34-06-53	117-54-56	OLIVER ENGLER	24.12
409E	RIDGE ROUTE-STATE HWY MAINTENANCE STATION	SP AP	37	2505	34-40-34	118-46-47	D.W.P. PERSONNEL	17.82
415	SIGNAL HILL-CITY HALL	SA	36	140	33-47-49	118-10-03	MANUEL VILLEGAS	14.74
419A	SANTA CLARA RIDGE-MT.GLEASON	ST	33	5420	34-22-36	118-12-23	LACFCD PERSONNEL	N.R.
420C	ACTON-COLOMBO RANCH	S	36	3000	34-25-41	118-11-52	CHRISTOPHER C. BREVIDORO	14.98
422G	PACOIMA CANYON	S	38	2075	34-20-51	118-22-20	JAMES F. CHAMPION	28.92
423A	ALISO CANYON-WAGON WHEEL RANCH	S	36	3910	34-24-56	118-05-26	EARL W. SCRIBNER	17.68
4258-E	SAN GABRIEL DAM	SA	35	1481	34-12-19	117-51-38	LACFCD PERSONNEL	36.24
432	SANTA ANITA-FERN LODGE	S	35	2035	34-12-32	118-01-03	LOUIS LUEBKERT	43.56
433C	FAIR OAKS DEBRIS BASIN	SA	35	1585	34-12-15	118-08-18	LACFCD PERSONNEL	27.88
434	AGOURA	SA	35	800	34-08-08	118-45-08	L.A.CO. FIRE DEPT.PERSONNEL	21.63
435	MONTE NIDO	SA	35	600	34-04-41	118-41-35	L.A.CO. FIRE DEPT.PERSONNEL	29.35
436C	HANSEN DAM	AP	35	1110	34-16-08	118-23-59	U.S.C.E. PERSONNEL	20.45
437	HAMILTON BOWL-LONG BEACH	S	35	40	33-47-31	118-10-16	O. RAGSDALE	13.37
440C	CHILAO-USFS CAMP	S	35	5220	34-20-00	118-01-23	USFS PERSONNEL	21.34
442C	MESCAL CREEK	S	34	3570	34-29-05	117-44-10	SCHELLEY PAUL	5.38
443B	LATIGO CANYON-BEACH RANCH	S	34	1700	34-05-35	118-48-52	A.O. BEACH	34.63
444F-E	ROLLING HILLS-SOUTH COAST BOT. GARDENS	A	44	400	33-47-00	118-20-35	BOTANICAL GARDENS PERSONNEL	19.79
445B	LIVE OAK DAM	S,RI	34	1510	34-08-02	117-44-38	LACFCD PERSONNEL	22.51
446	ALISO CANYON-OAT CANYON	SA	34	2367	34-18-53	118-33-25	RICHARD E. POPE	26.14
447C	CARBON CANYON	S	34	50	34-02-18	118-38-56	FIRE DEPARTMENT PERSONNEL	18.88
449B	EATON WASH DAM	SA	34	880	34-10-06	118-05-33	JOHN C. BARR	27.68
453C	DEVILS GATE DAM	S AP	34	1090	34-11-08	118-10-19	RICHARD E. GARRISON	26.53
455B	LANCASTER-STATE HWY MAINTENANCE STATION	S	33	2395	34-40-57	118-08-02	HIGHWAY MAINTENANCE PERSONNEL	6.04
456	PIUTE BUTTE	S	33	2680	34-39-02	117-50-57	L. SCHOENBERGER	7.84
458	ZUMA CANYON PATROL STATION	SA	33	115	34-01-10	118-47-42	L.A.CO.FIRE DEPT. PERSONNEL	19.57
460C	PLEASANT VIEW MESA	S	33	3960	34-27-40	117-55-51	JAMES W. STEELE	10.11
462B	HILLCREAST COUNTRY CLUB-LOS ANGELES	S	33	185	34-02-54	118-24-06	DAVID MASTROLEO	20.76
465C	SEPULVEDA DAM	SP	28	683	34-10-06	118-28-11	U.S.C.E. PERSONNEL	19.74
466B	PACOIMA CANYON-DUTCH LOUIE CANYON	SA	32	3220	34-21-07	118-20-38	DONNA O. KLINE	26.00
468	PICKENS DEBRIS BASIN	S,RI	30	1600	34-13-18	118-13-45	LACFCD PERSONNEL	30.78
470	TUJUNGA-HILL CREEK	SA	32	4600	34-23-09	118-04-25	LACFCD PERSONNEL	17.59

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 RAINFALL 1972-73
471	LITTLE TUJUNGA-GOLD CREEK	AP	32	2150	34-18-57	118-18-02	U.S.C.E. PERSONNEL	INC.
474B	SOUTH GATE FIRE STATION	S	32	130	33-57-23	118-12-43	FIRE STATION PERSONNEL	18.15
475	SAUGUS-NEWHALL LAND AND FARMING COMPANY	S	32	1150	34-24-56	118-32-51	NEWHALL FARMING CO. PERSONNEL	14.96
477D	SANTA ANITA-SPRING CAMP	SA	32	4715	34-13-06	117-58-39	R.A. WINDER	43.46
478	VALYERMO-USFS HEADQUARTERS	SP	31	3710	34-26-44	117-51-10	USFS PERSONNEL	9.67
480B	TEMPLE CITY FIRE STATION	S	28	404	34-06-31	118-03-25	L.A.CO. FIRE DEPT PERSONNEL	27.99
482	LOS ANGELES-USC	S	31	208	34-01-14	118-17-15	STANLEY S. BUTLER	17.39
486B	COLDWATER CYN-WIDMAN RANCH	ST	30	3960	34-15-49	117-42-41	J.W. WIDMAN	34.12
488B	KAGEL CANYON PATROL STATION	S	30	1450	34-17-45	118-22-30	L.A.CO. FIRE DEPT PERSONNEL	20.59
491C	PACIFIC PALISADES	S	29	280	34-02-34	118-32-09	PHYLLIS GENOVESE	18.58
492A	CHILAO-STATE HIGHWAY MAINTENANCE STATION	SA	29	5280	34-19-02	118-00-30	LACFCD PERSONNEL	27.04
493D	SAND CANYON-MCMILLAN	SA	29	1805	34-23-17	118-24-50	FIRE DEPT. PERSONNEL	25.86
497	CLAREMONT-SLAUGHTER	8.81MP	25	1350	34-07-35	117-43-55	FRANK E. SLAUGHTER	21.91
498	ANGELES CREST HWY DARK CANYON TRAIL	S	29	2800	34-15-21	118-11-45	T. ARNDT	22.52
508D	ARROYO SECO RANGER STATION	S	61	1220	34-12-33	118-10-12	USFS PERSONNELL	27.65
517B	ANDERSON RANCH (LEWIS RANCH)	SA	55	4615	34-25-12	117-53-11	PHIL LEWIS	17.02
542-E	FAIRMONT	SP	64	3050	34-42-15	118-25-40	A.E. MAJORS	18.13
560B	LA VERNE HEIGHTS	S	30	1235	34-06-57	117-45-04	MAURICE L. HAGEY	22.12
564C	LLANO	S	43	3390	34-29-13	117-50-02	R. BLALOCK	5.63
565B	LONG BEACH-CITY AUTOMATIC	AP	26	11	33-47-16	118-12-08	CITY OF LONG BEACH PERSONNEL	12.43
566	LONG BEACH NO.1	SP AP	48	15	33-42-42	118-08-36	CITY OF LONG BEACH PERSONNEL	15.13
588D	MOUNT LOWE	ST	45	4435	34-13-37	118-06-33	LACFCD PERSONNEL	37.25
593B	NEWHALL RANCH	SP	61	675	34-24-08	118-44-10	NEWHALL FARMING CO. PERSONNEL	20.75
610B	PASADENA-CITY HALL	SP	38	864	34-08-54	118-08-36	MESSRS. OKUBO AND CRAIG	25.80
611C	ALTADENA GOLF COURSE	R.8	74	1186	34-10-48	118-07-01	LACFCD PERSONNEL	27.31
612	PASADENA-CHLORINE PLANT	SP	57	1160	34-12-04	118-09-49	MESSRS. OKUBO AND CRAIG	28.72
613B	PASADENA-HURLBUT FIRE STATION	SP	34	780	34-07-41	118-09-12	PASADENA FIRE DEPT. PERSONNEL	23.65
619	SAN ANTONIO CANYON SIERRA POWER HOUSE	S	68	3110	34-12-29	117-40-26	LACFCD PERSONNEL	36.42
627	SAN GABRIEL CANYON-POWER HOUSE	SP A	74	744	34-09-20	117-54-28	OTTO KIRMSEE	29.16
634C	SANTA MONICA	SP	46	94	34-00-43	118-29-27	TOM HUMES	17.79
647J	TUJUNGA	SP	56	1685	34-15-45	118-17-34	JAMES D. PARRA	24.86
672	EAGLE ROCK SD.CAL.EDISON CO. SUBSTATION	SP	39	950	34-09-02	118-10-57	SD. CAL. EDISON PERSONNEL	26.10
673D	ALAMITOS BAY	8.81"	45	15	33-45-13	118-07-51	LACFCD PERSONNEL	14.22
678	PASADENA-SHELDON RESERVOIR	SP	35	1047	34-10-39	118-09-56	MESSRS OKUBO AND CRAIG	27.59
680B	WESTWOOD-UCLA	SP	41	430	34-04-10	118-26-30	MIREK BOROWSKI	22.77
681A	SIERRA MADRE RANGER STATION	S	35	935	34-10-15	118-01-54	USFS PERSONNEL	40.27
683	SUNSET RIDGE GUARD STATION	SP AP	32	2110	34-12-53	118-08-47	T. ARNDT	26.05
694F	BIG TUJUNGA CANYON	SA	17	1525	34-17-22	118-17-17	LACFCD PERSONNEL	21.47
695B	TUJUNGA CANYON-VOGEL FLAT	S	38	1850	34-17-12	118-13-32	USFS PERSONNEL	39.27
703	GLENDALE-MCINTYRE	SP	34	603	34-09-00	118-14-27	P.T. MCINTYRE	24.61
705	ALDER CREEK-PARADISE RANCH	SP	31	2330	34-19-48	118-19-03	BRIAN EXPARZA	22.04
716	LOS ANGELES-DUCOMMUN STREET	SP AP	101	306	34-03-09	118-14-13	D.W.P. PERSONNEL	21.16
718B	THOUSAND OAKS	SP	30	810	34-10-43	118-50-59	VENTURA CO. FIRE DEPT. PERSONNEL	18.95
720B	SIMI VALLEY-SUSANA KNOLLS	SP	31	1085	34-15-40	118-40-10	SUSANA KNOLLS FIRE DEPT. PERSONNEL	19.13
722C	BELLEVIEW	S	26	2880	34-37-23	118-13-55	PHOEBE S. STONE	13.19
725B	BIRMINGHAM HOSPITAL	AP	28	728	34-11-13	118-30-17	U.S.C.E. PERSONNEL	18.13
727B	NEWCOMB PASS	S	28	4125	34-14-17	118-01-04	LACFCD PERSONNEL	INC.
728	PACOIMA CANYON-CITY ROAD GUAGE	SP	28	3175	34-21-42	118-18-25	T. ARNDT	30.79
731	OAK GROVE HDQTRS USFS FLOOD CONTROL	STP	28	1080	34-11-47	118-10-29	T. ARNDT	26.67
732B	ROBERTS CN.-SAN GABRIEL WEST FORK DIVIDE	ST	27	4100	34-13-30	117-55-15	LACFCD PERSONNEL	46.12
734B	L.A. INTERNATIONAL AIRPORT	SP AP	32	105	33-56-25	118-23-44	U.S.W.B. PERSONNEL	17.28
735H	BELL CANYON	SA	21	895	34-11-40	118-39-23	LACFCD PERSONNEL	17.83
740B	SAN DIMAS CANYON-FERN NO.2	SP AP	32	5200	34-11-48	117-41-45	USFS PERSONNEL	36.33
741	SAN DIMAS CANYON-UPPER EAST FORK	AP	39	2765	34-11-41	117-44-26	USFS PERSONNEL	30.33
742C	SAN GABRIEL FIRE DEPT.	SP	34	445	34-06-11	118-05-56	SAN GABRIEL FIRE DEPT. PERSONNEL	24.46
747	SANDBURG-AIRWAYS STATION	SP AP	41	4517	34-44-47	118-43-29	U.S.W.B. PERSONNEL	21.79
749B	BURBANK	SP AP	42	655	34-11-11	118-20-54	BURBANK PUBLIC SERVICE	19.42
750	PALMDALE-F.A.A.AIRPORT	SP	15	2528	34-37-20	118-05-00	F.A.A. AIRPORT PERSONNEL	7.12
755	GRIFFITH PARK-LITTLE CANYON	AP	26	900	34-07-32	118-16-58	CITY OF L.A. PERSONNEL	22.23
757	GRIFFITH PARK-FERN DELL	AP	26	750	34-07-12	118-18-20	CITY OF L.A. PERSONNEL	21.11
758	GRIFFITH PARK-LOWER SPRING CANYON	AP	26	600	34-08-02	118-17-27	CITY OF L.A. PERSONNEL	22.85
759	NICHOLS DEBRIS BASIN	8.81"AP	26	440	34-06-22	118-24-00	CITY OF L.A. & LACFCD PERSONNEL	23.97
760B	STUDIO CITY-BEEMAN AVE	AP	26	627	34-08-58	118-24-24	CITY OF L.A. PERSONNEL	22.97
762	UPPER STONE CANYON	AP	26	943	34-07-27	118-27-15	CITY OF L.A. PERSONNEL	24.20
772	L.A.-ECHO PARK AND LUCRETIA	AP	26	475	34-05-02	118-15-11	CITY OF L.A. PERSONNEL	20.71
783	COON CANYON	SP AP	25	1350	34-12-47	118-10-12	T. ARNDT	27.96
786	COON CANYON	SP	25	2250	34-13-18	118-09-47	T. ARNDT	26.52
788	COON CANYON	SP	25	1710	34-12-56	118-10-00	T. ARNDT	27.98
789	EL PRIETO CANYON	SP	25	2325	34-13-32	118-09-19	T. ARNDT	28.52
794E	LOWER FRANKLIN RESERVOIR	SP	25	585	34-05-43	118-26-40	DWP PERSONNEL	24.44
795	PASADENA-JOURDAN	SP	24	705	34-08-52	118-05-14	MESSRS OKUBO AND CRAIG	26.02
796	ELYSIAN PARK-FIRE DEPT.	AP	25	757	34-04-55	118-14-22	CITY OF L.A. PERSONNEL	19.02
797	DE SOTO RESERVOIR	SP	25	1127	34-16-17	118-35-12	DWP PERSONNEL	19.60
801B	MAGIC MOUNTAIN	AP	26	4720	34-23-18	118-19-27	U.S.C.E. PERSONNEL	27.20
802B-E	EAGLE ROCK RESERVOIR	SP	24	970	34-08-47	118-11-20	E. LAZAR	23.87
807	ASCOT RESERVOIR	SP A	26	620	34-04-42	118-11-14	ALBERT ARROYO	24.74
1000	HUNT CANYON-BONES RANCH	S	27	3263	34-30-48	118-03-37	L.A. BONES	10.14
1005B	MINT CANYON FIRE STATION	S	27	2300	34-30-35	118-21-40	L.A.CO. FIRE DEPT. PERSONNEL	21.31
1006	SAN PEDRO-CITY RESERVOIR	SA	29	150	33-44-37	118-17-47	CITY EMPLOYEES	13.68
1007C	CAMP VALCREST	S	27	5920	34-20-40	117-58-41	R.C. HADLOCK	24.55
1008-E	LA FRESA-S.C.E.CO.	SA	66	65	33-52-07	118-19-55	S.C.E. CO. PERSONNEL	14.57
1009	MINT CANYON-WARMUTH	S	27	1625	34-26-04	118-26-06	JOE J. WARMUTH	12.89
1010C	PALMER CANYON-FORKS	S	26	2160	34-09-32	117-42-06	LACFCD PERSONNEL	27.26
1011B	PALOS VERDES FIRE STATION	S	26	1275	34-45-25	118-21-11	L.A. CO. FIRE DEPT. PERSONNEL	17.59
1012B	CASTAIC JUNCTION	S	26	1005	34-26-18	118-36-43	L.A. CO. FIRE DEPT. PERSONNEL	14.80
1014F-E	RIO HONDO SPREADING	SA	46	170	33-59-57	118-06-04	GEORGE F. KESTEL	18.07
1016B	PALO COMADO CANYON-AGOURA	S	25	1175	34-09-45	118-44-16	HERMAN CUNNINGHAM	21.59
1017B	LITTLE ROCK CREEK ABOVE DAM	SA	25	3280	34-28-41	118-01-24	LACFCD PERSONNEL	10.19
1018C	OAT MOUNTAIN-LOOKOUT	S	17	3740	34-19-45	118-36-00	WM. BEDDOW	27.99
1019	SANTA SUSANA MTS. SALT CANYON	ST	25	2850	34-21-24	118-39-4	LACFCD PERSONNEL	24.92
1020B	PADUA HILLS PATROL STATION	S	25	1800	34-08-52	117-41-55	L.A. CO. FIRE DEPT. PERSONNEL	25.80
1022	HASLEY CANYON-WESTERN GULF OIL CO.	S	25	1725	34-28-44	118-41-04	GULF OIL CO. PERSONNEL	20.76
1023B	SANTA MARIA CREEK-SPEER	S	21	1415	34-07-44	118-34-42	WILLIAM SPEER	26.30
1025	MALIBU BEACH-DUNNE	S	24	160	34-02-00	118-42-42	PHILLIP DUNNE	18.50
1029B	TUJUNGA-MILL CREEK SUMMIT	S	24	4970	34-23-25	118-04-50	GENE TURNER	19.72
1030	MT. ISLIP-LITTLE JIMMY SPRINGS	ST	24	7520	34-20-50	117-49-57	LACFCD PERSONNEL	54.38
1031B	MT. WATERMAN	ST	21	7960	34-20-23	117-56-21	LACFCD PERSONNEL	19.97
1035	WHITTIER-WOOD	SA	23	280	33-59-52	118-03-10	WALTER J. WOOD	21.21
1037-E	ARCADIA-ARBORETUM	SA	23	565	34-08-48	118-02-59	DAN MARTEL	26.20
1038B	MT. PACIFICO	ST	23	6880	34-22-40	118-01-44	LACFCD PERSONNEL	21.98
1039B	LOS ANGELES-MACQUEEN	S	22	225	34-04-13	118-19-23	DR. OON MACQUEEN	18.05
1040	POTRERO CANYON-SUNRAY OX OIL CO.	S	22	1150	34-23-50	118-38-18	SUNRAY OX OIL CO. PERSONNEL	17.67
1041B	SANTA FE DAM	AP	24	427	34-07-04	117-58-24	U.S.C.E. PERSONNEL	22.00
1046B	SANTA ANITA CANYON-CHANTRY FLAT	S	21	2175	34-11-45	118-01-20	LILA ADAMS	47.42
1048B	LA CRESCENTA-CO. ROAD DEPT.	S	22	1410	34-13-27	118-15-23	ROAD DEPT. PERSONNEL	29.80

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 RAINFALL 1972-73
1050B	OLD TOPANGA CANYON	S	18	1000	34-06-28	118-37-40	MALACHY GREEN	N.R.
1051B	CANOGA PARK-PIERCE COLLEGE	SP	24	800	34-10-51	118-34-23	LEE HAINES	19.52
1052	CAMP JOSEPHO	SP	21	660	34-04-51	118-31-10	DONALD MATHEWS	27.90
1058B-E	PALMDALE	SP AP	16	2595	34-35-17	118-05-31	IRRIGATION DISTRICT PERSONNEL	8.08
1059B	SOUTH MT. HAWKINS	ST	20	77000	34-18-46	117-44-32	LACFCD PERSONNEL	43.03
1069B	LITTLE ROCK-SYCAMORE CAMP	SA	20	4000	34-25-02	117-58-13	D. BOWMAN	12.94
1062	BUCKHORN FLAT	SA	20	6760	34-20-44	117-55-08	LACFCD PERSONNEL	45.49
1063	SOLEDAD PASS	S	20	3520	34-29-35	118-05-28	J.G. JOHNSTON	9.71
1066B	LONG BEACH-LEES STREET	AP	20	10	33-46-40	118-06-05	J.E. MCGINNIS	INC.
1068	RATTLESNAKE CANYON-CAMP NO.3	S	20	1290	34-05-00	118-51-55	L.A. CO. SHERIFF PERSONNEL	29.16
1069	SAN GABRIEL EAST FORK TUNNEL	ST	18	2775	34-16-58	117-44-48	LACFCD PERSONNEL	32.02
1070	MANHATTEN BEACH	S	20	182	33-53-00	118-23-19	CITY PERSONNEL	14.42
1071B-E	DESEANSO GARDENS	S	20	1325	34-12-07	118-12-42	MARK ANTHONY	28.53
1072	LITTLE TUJUNGA RANGER STATION	SP A	20	1275	34-17-37	118-21-38	USFS PERSONNEL	21.27
1073B	PALMDALE-CIRCLE C	SP	20	2855	34-32-14	118-03-48	NORMAN E. ROSS	9.32
1074	LITTLE GLEASON	SA	18	5600	34-22-43	118-08-57	WILLIAM KALTRITER	26.75
1075	UPPER WOLFSKILL CANYON	SP	31	3625	34-10-13	117-43-16	USFS PERSONNEL	33.00
1076B	MONTE CRISTO RANGER STATION	SP	19	3360	34-19-42	118-07-20	USFS PERSONNEL	23.76
1077B	MONROVIA-FIVE POINTS	S	19	962	34-09-58	117-59-37	CITY PERSONNEL	30.05
1078	COVINA-GRIFFITH	SA	19	975	34-04-10	117-50-47	ELBERT B. GRIFFITH	20.46
1079	RUBIO DEBRIS BASIN	8.81"	19	1653	34-11-57	118-07-22	LACFCD PERSONNEL	27.32
1080B	BRADBURY DEBRIS BASIN	SA	18	935	34-09-23	117-57-58	LACFCD PERSONNEL	26.22
1081	DEER DEBRIS BASIN	8.81"	18	1200	34-11-33	118-14-28	LACFCD PERSONNEL	25.25
1082	DUNSMUIR DEBRIS BASIN	8.81"	19	2275	34-14-52	118-15-06	LACFCD PERSONNEL	33.18
1083	MADDOCK DEBRIS BASIN	S	18	905	34-09-17	117-57-05	LACFCD PERSONNEL	25.67
1084B	MAY DEBRIS BASIN	S	12	1680	34-19-50	118-25-45	LACFCD PERSONNEL	24.56
1086	TURNBULL DEBRIS BASIN	8.8 "	19	495	33-59-18	118-01-30	LACFCD PERSONNEL	20.91
1087-E	GREEN VERDUGO PUMP PLANT	S	18	1340	34-15-25	118-20-11	DWP PERSONNEL	9.22
1088B	LA HABRA HEIGHTS MUTUAL WATER CO.	SA	18	445	33-56-55	117-57-51	WATER CO. PERSONNEL	9.75
1089F	TOPANGA CANYON OUTLET	S	17	95	34-02-52	118-34-38	O.B. VARNUM	9.86
1090	LOS ALAMITOS	SP	41	25	33-48-35	118-04-35	A&J SUPPLY	16.71
1092B	BUENA PARK	3"P	46	80	33-51-28	117-59-29	PUBLIC WORKS OFFICE PERSONNEL	18.53
1093E	FULLERTON AIRPORT	SP AP	19	100	33-52-23	117-58-24	ORANGE COUNTY PERSONNEL	17.05
1095	ORANGE COUNTY RESERVOIR	SP AP	32	660	33-56-07	117-52-58	MWD PERSONNEL	17.72
1099	WHITTIER-CATE	S	18	280	34-00-20	118-03-30	IRA D. CATE	20.41
1102C	BOBCAT CANYON-SAN GABRIEL WEST FORK	ST	18	5160	34-17-02	117-17-02	LACFCD PERSONNEL	29.58
1104	BOUQUET CANYON AT TEXAS CANYON	S	18	1760	34-30-35	118-27-00	USFS PERSONNEL	14.83
1105B	FAIRMONT	SP	18	2855	34-44-23	118-27-15	D.S. PATTERSON	12.82
1107D	LA TUNA CANYON	SA	18	1160	34-14-13	118-19-37	LACFCD PERSONNEL	20.59
1109	MT.BALDY	ST	18	8650	34-16-53	117-37-00	LACFCD PERSONNEL	N.R.
1110	SCHOOL DEBRIS BASIN	8.81"	18	987	34-09-13	118-12-01	LACFCD PERSONNEL	21.35
1111C	DEVIL'S PUNCHBOWL	S	13	4760	34-24-48	117-51-25	JOHN SMITH	17.29
1113	DOMINGUEZ WATER CO.	SP AP	37	30	34-49-54	118-13-30	T.J. CLEMMER	13.67
1114B	WHITTIER NARROWS DAM	AP	17	239	34-01-29	118-05-02	U.S.C.E. PERSONNEL	20.32
1115	SAN ANTONIO DAM	8.81"AP	17	2120	34-09-24	117-40-20	U.S.C.E. PERSONNEL	25.77
1116	LONG BEACH-SAN ANSELINE	S AP	18	15	33-47-38	118-07-15	BAYARD MILNOR	16.20
1117	PINE CANYON GUARD STATION	S	17	3810	34-41-55	118-30-35	G. HELSEL	27.54
1119B	ATMORE MEADOW	ST	12	4325	34-41-18	118-36-16	LACFCD PERSONNEL	27.09
1120	DAWSON SADDLE	ST	17	7900	34-22-08	117-48-10	LACFCD PERSONNEL	26.87
1121C	BARLEY FLAT	S	17	5525	34-16-40	118-04-40	L.A. CO. SHERIFF PERSONNEL	31.48
1122	COOKS DEBRIS BASIN	8.81"	17	2100	34-14-49	118-15-40	LACFCD PERSONNEL	28.91
1124B	RED BOX GAP	S	16	4625	34-15-30	118-06-18	USFS PERSONNEL	45.14
1125	LA PUENTE	S	16	460	34-01-00	117-55-15	H.J. GRUETER	22.01
1126	LAWD-EAST VALLEY	8.81"	16	780	34-12-30	118-24-35	J. SHAFFER	18.44
1127	WEST BURBANK	S	15	615	34-10-47	118-20-07	BURBANK FIRE DEPT. PERSONNEL	19.67
1128	WRIGHTWOOD FIRE STATION	S	16	5960	34-21-34	117-37-57	FIRE STATION PERSONNEL	24.00
1129	NICHOLAS CANYON	S	15	340	34-02-52	118-54-57	M.E. GORDON	15.12
1132	OAK FLAT GUARD STATION	S	15	2800	34-35-56	118-43-15	USFS PERSONNEL	28.60
1133	FISH CANYON	ST	15	2600	34-12-23	117-56-43	LACFCD PERSONNEL	39.47
1135B	LUNADA BAY	SP	15	250	33-42-37	118-25-15	RONALD HARRIS	14.26
1137C	STOUGH PARK	S	15	1140	34-12-17	118-18-15	LOUIS ARSIER	20.48
1138	MT.DISAPPOINTMENT	SA	14	5725	34-14-42	118-06-07	T. ARNDT	39.72
1140	ROSEMEAD	8.81"	13	305	34-04-53	118-03-55	L.A. CO. FIRE DEPT. PERSONNEL	20.86
1141C	RIVERS END	S	11	1750	34-26-02	118-21-14	ANGEL MONTERO	INC.
1142	SOLEDAD CANYON-BERMITE POWDER CO.	S	35	1200	34-24-50	118-31-25	BERMITE POWDER CO. PERSONNEL	12.92
1145	UPLAND	SP	14	1605	34-07-57	117-38-38	LIBERTY GROVES PERSONNEL	23.46
1146	SANTA ANITA CANYON-HELIPORT	A	12	2575	34-12-52	118-01-05	LOUIS LUEBKERT	41.04
1147	EL CABALLERO COUNTRY CLUB	S	13	1000	34-08-52	118-31-53	E.G. BORDER	24.72
1148B	SAN JOSE HILLS	S	13	440	34-03-00	117-54-53	HAROLD E. GAULDIN	20.23
1151	BRIGDEN RESERVOIR NO.1	SP	13	1020	34-10-15	118-06-40	MESSRS. OKUBO AND CRAIG	26.62
1152	CLEAR CREEK RANGER STATION	S	13	3625	34-16-15	118-09-11	USFS PERSONNEL	36.40
1155	LAWNDALE	S	11	40	33-53-53	118-20-35	L.A. CO. FIRE DEPT. PERSONNEL	16.21
1157	CAL STATE UNIVERSITY AT NORTHRIDGE	A	11	890	34-14-17	118-31-48	DR. A. COURT	18.05
1158	TORRANCE MUNICIPAL AIRPORT	S	14	102	33-47-59	118-20-08	AIRPORT PERSONNEL	16.44
1159	SHORTCUT CANYON-WEST FORK	A	7	4425	34-15-55	118-04-08	LACFCD PERSONNEL	INC.
1160	SAN GABRIEL CANYON WEST FORK HELIPORT	A	9	3200	34-15-02	118-01-30	LACFCD PERSONNEL	47.30
1162	IRON MOUNTAIN	ST	10	5320	34-21-06	118-13-42	LACFCD PERSONNEL	27.26
1163	BEAR CANYON-CRYSTAL LAKE ROAD	ST	6	5480	34-19-33	117-51-42	LACFCD PERSONNEL	N.R.
1164	WALTERIA LAKE PUMPING STATION	8.81"	9	90	33-48-35	118-21-05	LACFCD PERSONNEL	14.13
1167	FENNER CANYON	S	8	5380	34-23-25	117-42-27	STANLEY LYNCH	16.84
1169	LAKE PIRU	SP	19	1145	34-28-24	118-45-42	FRANK C. BECKWITH	24.45
1170	WATER WORKS DISTRICT NO.6	AP	17	900	34-09-48	118-50-12	VENTURA CO. FCD PERSONNEL	17.47
1171	CAMULOS RANCH	SP AP	17	720	34-24-20	118-45-21	HARRY FORBES	19.79
1172	PIRU CANYON ABOVE PIRU LAKE	AP	17	1150	34-30-48	118-45-30	FRANK C. BECKWITH	23.10
1174C	TRIPAS CANYON	AP	7	2820	34-22-03	118-45-48	VENTURA CO. F.C.D. PERSONNEL	26.40
1177	BARD RESERVOIR	AP	7	1030	34-14-36	118-49-42	A.L. ALGAR	14.54
1183B	LA HABRA FIRE STATION	SP	44	315	33-55-53	117-57-17	FIRE STATION PERSONNEL	20.03
1184	SAN FRANCISQUITO CANYON CAMP 17	S	5	1840	34-33-55	118-28-28	ROY ATKINSON	21.54
1186	ROBERTS CANYON-UPPER	ST	5	2475	34-11-50	117-55-15	LACFCD PERSONNEL	INC.
1187	MILLARD-CAMP SIERRA	STP	2	2760	34-13-04	118-07-58	USFS PERSONNEL	26.84
1188	EATON-MARKHAM SADDLE	SP	2	5400	34-14-31	118-05-38	USFS PERSONNEL	25.47
1190	PACOIMA CANYON NORTH FORK RANGER STATION	S	4	4180	34-23-17	118-15-06	ROBERT BRADY	29.12
1191	BEAR-DIVIDE USFS STATION	S	3	2700	34-21-35	118-23-37	U.S.F.S. PERSONNEL	27.76
1195	CHINO FIRE NO 2	S	29	655	33-59-00	117-43-20	S.B.C.F.C.D.	20.46
1196	MONTCLAIR FIRE DEPARTMENT	S	16	965	34-03-41	117-41-17	S.B.C.F.C.D.	10.30
1197	CAJON WEST SUMMIT	A	30	4838	34-23-00	117-35-00	S.B.C.F.C.D.	7.54
X15C	HI VISTA	S	22	3070	34-43-54	117-42-43	RICHARD L. SLIMMER	6.28
X19	COOKS CANYON	SP	17	3400	34-15-52	118-15-11	T. ARNDT	24.27
X21B	DUNSMORE CANYON-UPPER	SP	17	3290	34-15-38	118-13-47	T. ARNDT	27.88
X22	ISLIP SADDLE	ST	16	6680	34-21-27	117-51-05	LACFCD PERSONNEL	35.21
X23	DORR CANYON	ST	16	7280	34-22-16	117-46-51	LACFCD PERSONNEL	29.21

RAINFALL STATION LOCATION AND SEASONAL AMOUNT (CONTD.)

A. NO.	STATION NAME	TYPE OF GAGE	YEARS OF RECORD	ELEV. OF GAGE	NORTH LAT.	WEST LONG.	OBSERVER	SEASONAL RAINFALL 1972-73
X24	GRASSY HOLLOW	ST	16	7360	34-22-30	117-43-05	LACFCD PERSONNEL	19.38
X25	BEAR GULCH	ST	16	7880	34-21-58	117-41-27	LACFCD PERSONNEL	33.13
X26	BLUF RIDGE	ST	16	8450	34-20-57	117-40-23	LACFCD PERSONNEL	N.R.
X27	GUFFY'S CAMP	ST	16	8080	34-20-20	117-38-55	LACFCD PERSONNEL	33.35
X28B	HOLIDAY HILL	A	16	8130	34-21-29	117-40-54	LACFCD PERSONNEL	25.81
X29	PINE MOUNTAIN	A	12	4100	34-13-35	117-54-28	LACFCD PERSONNEL	INC.
X33	EAGLE DEBRIS BASIN	8.81"	14	1890	34-14-07	118-14-12	LACFCD PERSONNEL	29.00
X42B	HOOK DEBRIS BASIN	S	5	1250	34-09-15	117-52-35	LACFCD PERSONNEL	25.94
X43	HARROW DEBRIS BASIN	8.81"AP	5	1275	34-09-25	117-51-40	LACFCD PERSONNEL	23.82
X44	ENGLEWILD DEBRIS BASIN	8.81"	5	1310	34-09-25	117-50-48	LACFCD PERSONNEL	25.22
X45	BELLCANYON-BURRO FLATS	SPA	2	2185	34-13-43	118-41-25	JOE GLANTZ	20.15

LEGEND REGARDING GAGE TYPE, OWNERSHIP, AND RAINFALL AMOUNTS

	STANDARD 8" DIA. NON-RECORDING GAGE OWNED BY FLOOD CONTROL DIST.
	AUTOMATIC RECORDING GAGE OWNED BY FLOOD CONTROL DISTRICT
	STORAGE TYPE GAGE OWNED BY FLOOD CONTROL DISTRICT
81"	8.81" DIAMETER NON-RECORDING GAGE OWNED BY FLOOD CONTROL DISTRICT
P	3" DIAMETER NON-RECORDING GAGE OWNED BY OUTSIDE INTERESTS
1/2"P	4 1/2" DIAMETER NON-RECORDING GAGE OWNED BY OUTSIDE INTERESTS
	8" DIAMETER NON-RECORDING GAGE OWNED BY OUTSIDE INTERESTS
	AUTOMATIC RECORDING GAGE OWNED BY OUTSIDE INTERESTS
FIX B OR C	DENOTES SECOND OR THIRD LOCATION OF STATION IN SAME AREA
FIX E	DENOTES EVAPORATION PAN AT STATION
	ESTIMATED GREATER THAN 10% OF TOTAL
	ESTIMATED LESS THAN 10% OF TOTAL
	[illegible]

STATION NO. 5B
CALABASAS

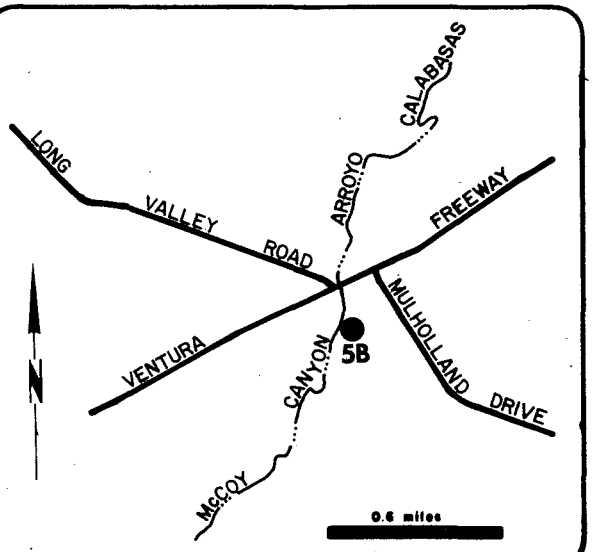
LOCATION
Residence:
4803 El Canon Avenue
South of Ventura Boulevard
Calabasas

LATITUDE
34° 09' 24"

LONGITUDE
118° 38' 14"

ELEVATION
924'

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



STATION NO. 5B
CALABASAS

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

SEASONAL RAINFALL AT Calabasas SEASON 1972-73

Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1												
2												
3	.07				.81							
4		.04	.60		.84							
5					.02							
6					1.26	.19						
7			.27		1.15	.19						
8			.18	.07		.74						
9				.41								
10				.19	.69							
11		.66			4.35	.26						
12					.11	.27						
13					.77							
14		1.39			.09							
15	.19	.12			.02							
16		.97		.90								
17		.36		.76								
18				1.57								
19				.40								
20						1.10						
21						.03						
22						.09						.02
23												
24					.05							
25												
26												
27					.12							
28					1.19							
29												
30				.19								
31												
TOTAL	.26	3.54	1.05	4.49	11.47	2.87	0	0	0	0	0	.02

SEASON TOTAL 19.35

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

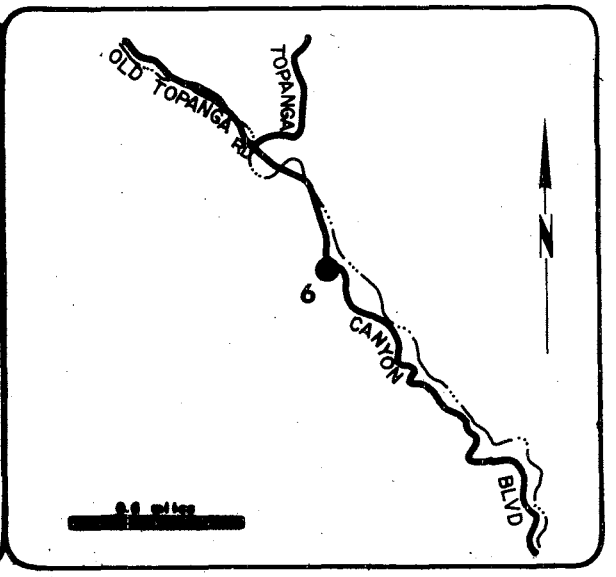
LATITUDE
35° 05' 03"

LONGITUDE
118° 35' 57"

ELEVATION
745'

LENGTH OF RECORD
non-recording rain gage
10/25/27 to date

recording rain gage
8/1/30 to date



STATION NO. 6
TOPANGA

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

SEASONAL RAINFALL AT Topanga Canyon Patrol Station SEASON 1972-73

Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1												
2					.02							
3	.03				.61							
4			1.66		.50							
5												
6					2.00	.25						
7			.70		1.27	.30						
8			.18	.03		1.25						
9				.60								
10				.09	2.18							
11		.97			4.55	.37						
12					.34							
13					1.33							
14	.04	1.86										
15	.18	.05										
16		1.66		3.26								
17		.26		.65								
18				2.47								
19	.17			.28								
20						1.00						
21						.80						
22						.42						
23												
24												
25												
26												
27					.05							
28					1.70							
29												
30				.20								
31												
TOTAL	.42	4.80	1.94	7.58	14.55	3.67	0	0	0	0	0	0

SEASON TOTAL 32.96

STATION NO. 15A
VAN NUYS

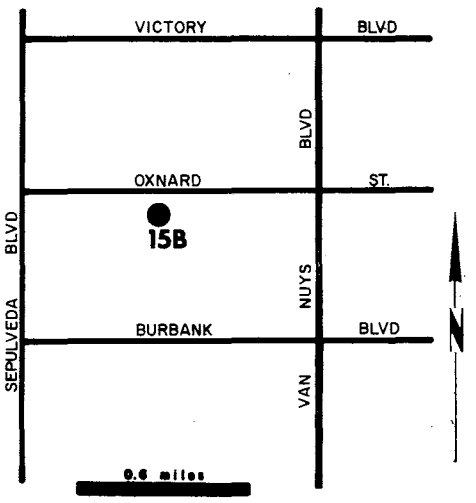
LOCATION
Los Angeles DWP Service Yard
Aetna and Vesper Streets
Van Nuys

LATITUDE
34° 10' 48"

LONGITUDE
118° 27' 03"

ELEVATION
695'

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



STATION NO. 15A
VAN NUYS

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

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 1972-73

Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1												
2												
3					.81	.01						
4		T	.65		.23							
5												
6					1.28	.21						
7			.32		.96	.11						
8			.19			.48						
9				.22								
10				.08	.52							
11		.50			2.58	.60						
12					.47	.24						
13					.68							
14		1.19			T							
15		.02			T							
16		.63		.63								
17		.25		1.17								
18				1.53								
19	.36			.37								
20						.92						
21						.01						
22						.18						
23												
24					T							
25				T								
26												
27					T							
28					.87							
29												
30				.08								
31												
TOTAL	.36	2.59	1.16	4.08	8.40	2.76	0	0	0	0	0	0

SEASON TOTAL 19.35

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-E
NEWHALL

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

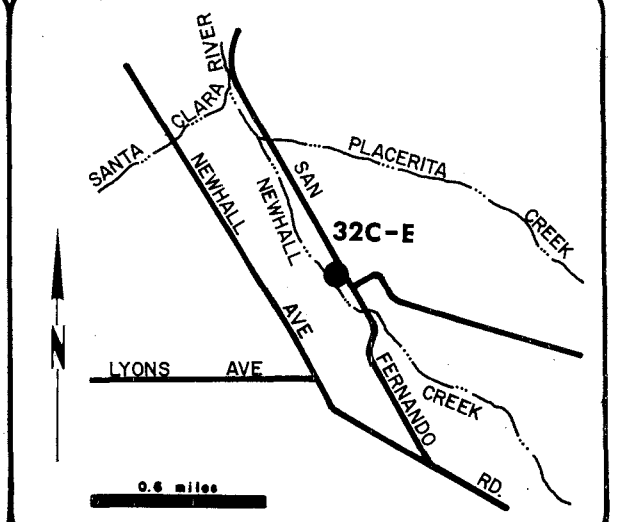
LATITUDE
34° 23' 07"

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

ADDITIONAL INSTRUMENTATION
Evaporation pan
Max-Min Thermometer
Anemometer
Fisher & Porter
recording rain gage
2/4/71 to date



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	

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

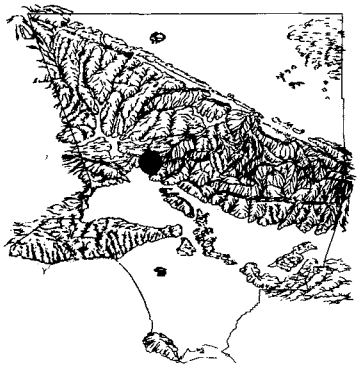
Station No. 32C-E
Foreign Station No.
Quad-Index No. 58-61

SEASONAL RAINFALL AT Newhall-Soledad Division Headquarters SEASON 1972-73
Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1												
2												
3					.62							
4		.07	.60	.04	.33							
5												
6					1.13	.10						
7			.32		.71	.12						
8				.04		.64						
9				.40								
10		.49		.14	1.05							
11		.08			4.13	.40						
12					.09	.08						
13					.88							
14		1.20			.02							
15		.05										
16		.86		1.05								
17		.19		.97								
18				.93								
19				.78								
20	.02					1.23						
21						.04						
22						.19						
23												
24					.02							
25												
26				.04								
27	.02				.16							
28					.85							
29												
30				.03								
31												
TOTAL	.04	2.94	.92	4.42	9.99	2.80	0	0	0	0	0	0

SEASON TOTAL 21.11

STATION NO. 33A-E
PACOIMA DAM



LOCATION
Mouth of Pacoima Canyon
below Pacoima Dam

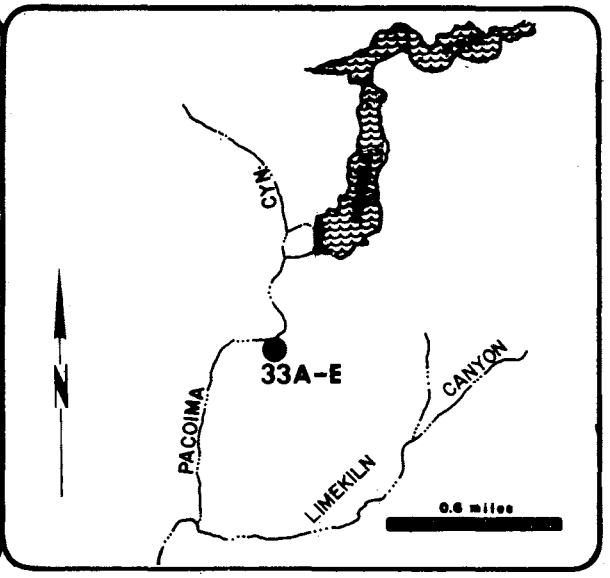
LATITUDE
34° 19' 48"

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
Hygrothermograph
Evaporation pan



STATION NO. 33A-E.
PACOIMA DAM

SEASON	RAINFALL		SEASON	RAINFALL
1915-16	24.59		1965-66	24.01
1916-17	22.24		1966-67	31.99
1917-18	20.68		1967-68	15.91
1918-19	14.95		1968-69	31.77
1919-20	15.63		1969-70	14.59
1920-21	23.00		1970-71	19.55
1921-22	29.31		1971-72	10.09
1922-23	18.21		1972-73	27.04
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			

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 1972-73
Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1								--	.05			
2												
3					T							
4	T		.34		1.02	.03						
5		.03	.75		.05							
6					.93	T						
7			.80		1.53	.35						
8		T	.10		.04	.15						
9	.05		.09	.32		.61						
10				.27	.05							
11		.52			5.74	.75						
12		.08			.72	.72						
13					.73	T	.02				T	
14		.32			.03			.01	.04			
15		.67						T				
16		.18		.08								
17		.59		1.71				T				
18							T					
19				1.65								
20	1.55					.90						
21					T	.01						
22						.47						T
23												T
24												
25							-	T				
26				T				T				
27	T				T	.02						
28					1.86	.01						
29							.06					
30												
31				.04								
TOTAL	1.60	2.39	2.08	4.07	12.70	4.02	.08	.01	.09	0	T	T

SEASON TOTAL 27.04

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

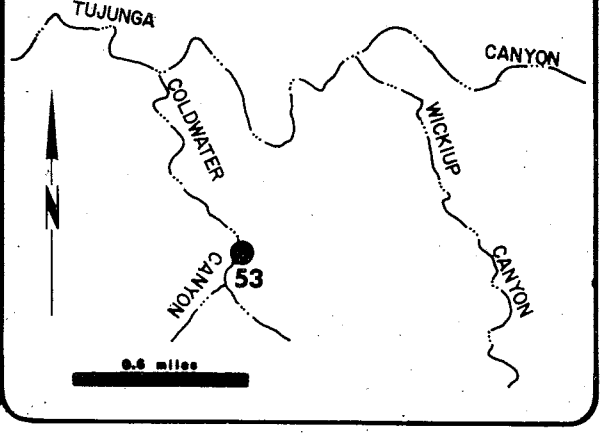
LOCATION
Residence: Coldwater Canyon one mile S. of Big Tujunga Cn. San Gabriel Mountains

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



STATION NO. 53D
COLBY'S

SEASON	RAINFALL				
1897-98	9.50**	1948-49	13.45		
1898-99	8.13**	1949-50	18.70		
1899-00	14.14**	1950-51	10.14	C	
1900-01	32.85**	1951-52	46.17		
1901-02	20.79**	1952-53	12.94	D	
1902-03	40.80**	1953-54	22.80		
1903-04	19.08**	1954-55	18.65		
1904-05	41.09**	1955-56	18.72		
1905-06	43.12**	1956-57	19.30		
1906-07	48.69**	1957-58	46.96		
1907-08	32.09**	1958-59	14.89		
1908-09	31.59**	1959-60	11.68		
1909-10	29.51**	1960-61	11.24		
1910-11	49.29**	1961-62	32.86		
1911-12	28.43**	1962-63	16.79		
1912-13	27.01**	1963-64	15.11		
1913-14	57.60**	1964-65	20.32		
1914-15	34.10**	1965-66	38.97		
1915-16	43.36**	1966-67	43.86		
1916-17	27.24**	1967-68	21.70		
1917-18	37.64**	1968-69	66.56		
1918-19	20.90**	1969-70	16.89		
1919-20	36.95**	1970-71	22.58		
1920-21	37.10**	1971-72	13.30		
1921-22	61.75**	1972-73	32.74		
1922-23	33.70**				
1923-24	19.00**				
1924-25	25.72**				
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				

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 1972-73

Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1												
2												
3					.79							
4			1.27		.05	.28						
5												
6					1.55	.28						
7			.76		1.39	.58						
8			.21	.02		.51						
9				.62		.14						
10				.14	.44							
11		1.17			9.07	1.20						
12		.03			.25	.20						
13					.66							
14		1.38										
15		.02			.09							
16		1.61		.53	.09							
17		.18		.62								
18				.18								
19	.08			1.81								
20	.27					1.44						
21	.05				T	.11						
22						.33						
23					T							
24					T							
25												
26				.21								
27					.16							
28					1.86							
29												
30				.11								
31												
TOTAL	.40	4.39	2.24	4.24	16.40	5.07	0	0	0	T	T	0

SEASON TOTAL 32.74

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–East Fork
on the north slope of Mt. Wilson

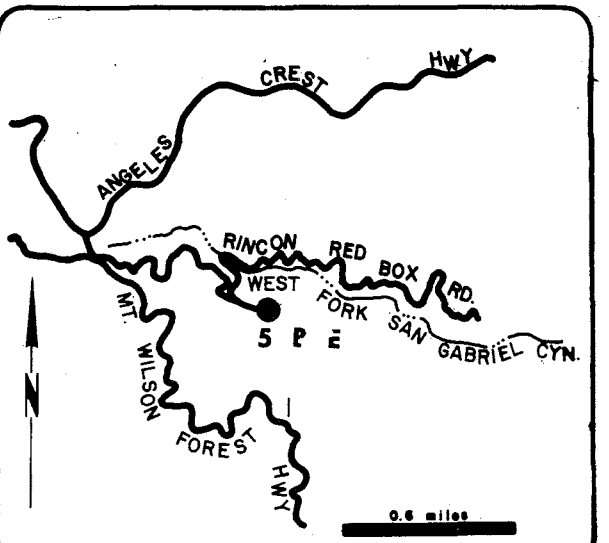
LATITUDE
34° 15' 18"

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



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

SEASON	RAINFALL		
1916-17	INC.	1966-67	65.13
1917-18	42.55	1967-68	30.88
1918-19	26.25**	1968-69	89.07
1919-20	37.41**	1969-70	24.58
1920-21	35.47**	1970-71	32.61
1921-22	89.33**	1971-72	17.96
1922-23	32.05	1972-73	49.71
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		

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 1972-73
Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1	T									T		
2												
3	T			T	.82							
4	T	.04	1.66	.02	.23	.28						
5					T	T						
6					2.78	.86						
7		T	.81		2.58	.91						
8		.04	.35	.06		.75						
9	.04			.75								
10				.10	1.92							
11		1.27			12.84	1.76						
12					.47	.37						
13					.61						T	
14		1.49						.01				
15		.03			.25							
16		2.82		.94				T				
17		.47		1.00				.01				
18	T			.77								
19	1.67			1.20								
20	.19					1.78					T	
21	.02			.01	.03	.35						
22						.35						
23					.04							
24												
25				T								
26	T			.29		.04						
27					.02	T						
28			.04		3.24	.01						
29												
30				.21			.11					
31												
TOTAL	1.92	6.16	2.86	5.35	25.83	7.46	.11	.02	0	T0	T	0

SEASON TOTAL 49.71

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

STATION NO. 60A
HOEGEE'S

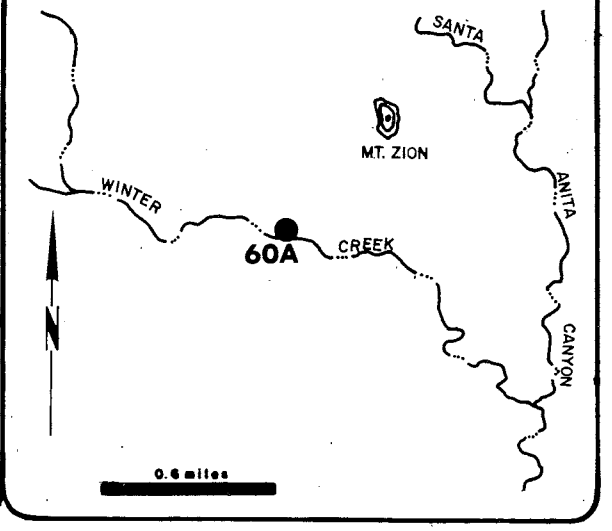
LOCATION
campground, Winter Creek
1.25 miles upstream from
Santa Anita Canyon

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



STATION NO. 60A
HOEGEE'S

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

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 1972-73
Record Furnished by ..... Copied by ..... Date Copied .....

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1												
2												
3					.96							
4			1.67	.03	.09							
5			.24		.04			.08				
6					1.64	.55						
7			1.08		2.94	1.07						
8		.02	.33			.88						
9				.62		.03						
10				.13	.88	.05						
11		1.28			8.91	1.48						
12		.11			.71	1.52						
13		.03			.18							
14		1.18										
15		.22			.64							
16		1.83		1.11								
17		.34		1.42								
18				1.05								
19	.80			1.74								
20	.06					1.54						
21	.08				.04	.23						
22						.71						
23												
24												
25								.06				
26				.23		.03						
27						.10						
28					3.56	.07						
29	.01				.05							
30				.10			.08					
31				.15								
TOTAL	.95	5.01	3.32	6.58	20.59	8.26	.08	.14	0	0	0	0

SEASON TOTAL 44.93

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

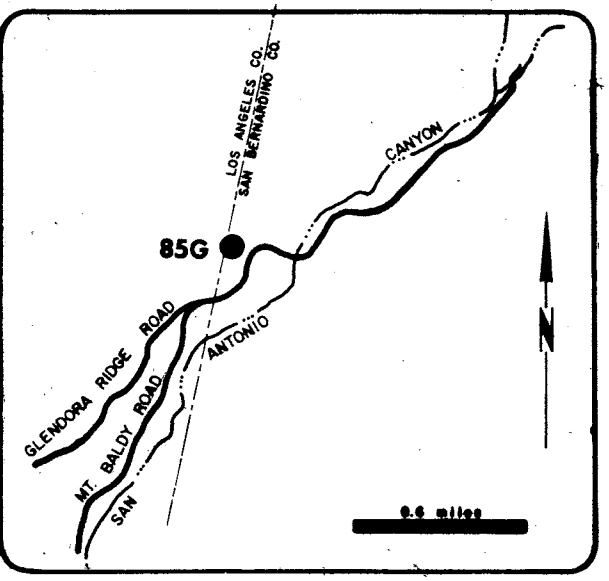
LATITUDE
34° 14' 12"

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 date

ADDITIONAL INSTRUMENTATION
max-min thermometer
cloud seeding generator



STATION NO. 85G
MT. BALDY GUARD STATION

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

SEASONAL RAINFALL AT Mt. Baldy Guard Station SEASON 1972-73

Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1									.02			
2												
3					T							
4			.31		1.15	.25						
5			1.45	.15		T		.18				
6					1.14	.09		.12				
7			.55		1.51	2.05						
8		.05	.25		.20	.17						
9			.05	.52		.53						
10				.18								
11		1.02	.08		9.73	.62						
12		.12			2.24	1.21						
13					.75	.19					T	
14		.60				T						
15		.88			.25			.15				
16		.56		T	.04							
17		.77		1.87								
18				.01								
19	.35			2.20								
20	.10			.05		1.04					T	
21	.32				.07	.97						
22						.56						
23												
24					T							
25												
26				.29		T						
27	.03				T	.10						
28			.02		2.50	.04						
29												
30				T		T	.37					
31				.36								
TOTAL	.80	4.00	2.71	5.63	19.61	7.82	.37	.64	.02	0	T	0

SEASON TOTAL 41.60

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

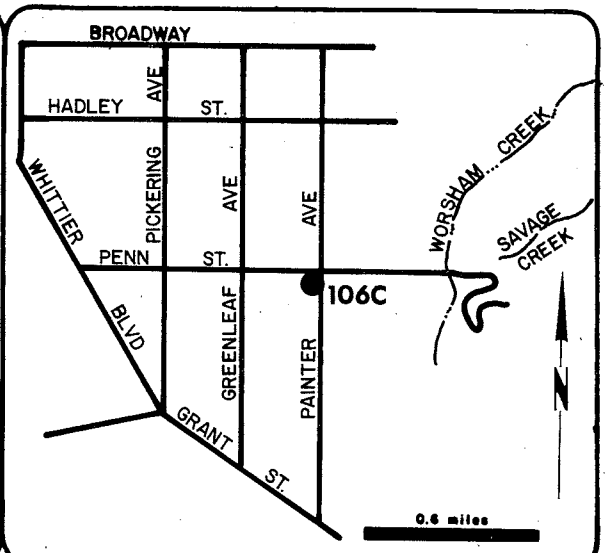
LOCATION
City Hall
13230 East Penn Street
west of Painter Street
Whittier

LATITUDE
33° 58' 27"

LONGITUDE
118° 01' 57"

ELEVATION
340'

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



STATION NO. 106C
WHITTIER

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

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 1972-73
Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1												
2												
3					.55							
4		.01	1.14	.05	.02	.04						
5								.02				
6					.66	.06						
7			.55		2.12	.06						
8		.32	.19	T	T	.50						
9				.25								
10				.12	.03							
11		.57			2.05	.51						
12					.10	.38						
13					.70							
14		1.09										
15		T										
16		1.52		.80								
17		.44		1.14								
18	T			.12								
19	.64			.83								
20	.14					.67						
21	.02											
22					.02	.55						T
23												
24												
25												
26				.03								
27												
28					.84	T						
29												
30				.32								
31												
TOTAL	.80	3.95	1.88	3.66	7.09	2.77	0	.02	0	0	0	0

SEASON TOTAL 20.17

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

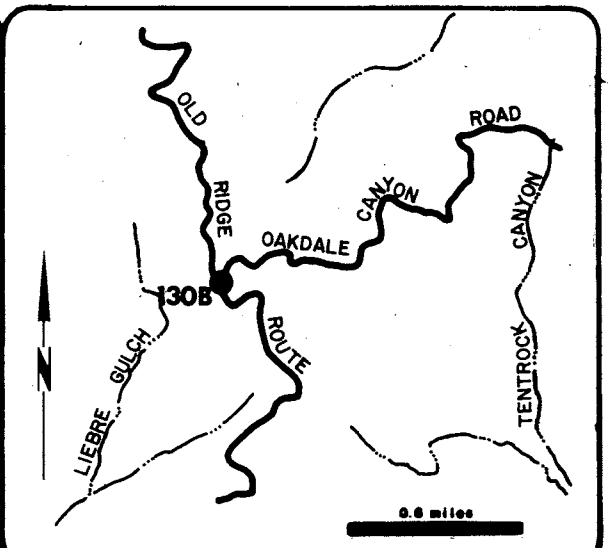
LOCATION
L.A. Co. F & FW Patrol Station
47376 Old Ridge Route
Lake Hughes

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



STATION NO. 130B
SANDBERG - QUAIL LAKE PATROL STATION

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

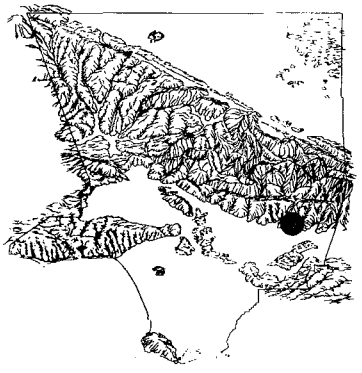
SEASONAL RAINFALL AT Sandberg - Quail Lake Patrol Station SEASON 1972-73
Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1												
2							.03					
3			.06									
4	.01		.25		.92	.15						
5			.06									
6					1.26							
7					1.61	.28						
8		.03			.01	.18						
9				.31		.49						
10				.13	.21							
11		.28	.04		3.18	.37						
12		.31			.01							
13					.59	.06						
14		1.71					.07	.04				
15		.74			.23							
16		.96			.04							
17		.02		1.15								
18				1.84								
19	.02			.03								
20						1.02						
21						.01						
22						.04						.01
23												
24												
25					.08							
26				.07		.01						
27					T	.05						
28					1.53	.02						
29							T					
30												
31				.03								
TOTAL	.03	4.05	.41	3.56	9.67	2.68	.10	.04	0	0	0	.01

SEASON TOTAL 20.55

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

STATION NO. 185
GLENDORA



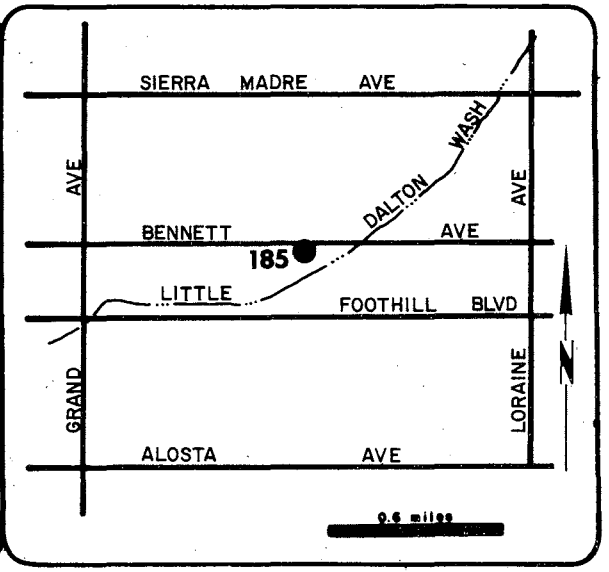
LOCATION
Residence;
460 East Bennett Avenue
Glendora

LATITUDE
34° 08' 23"

LONGITUDE
117° 51' 33"

ELEVATION
822'

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



STATION NO. 185
GLENDORA

SEASON	RAINFALL		
1880-81	16.96	1931-32	24.05**
1881-82	16.07	1932-33	12.50**
1882-83	18.52	1933-34	26.80
1883-84	62.76	1934-35	27.97**
1884-85	14.79	1935-36	18.52
1885-86	28.95	1936-37	34.23
1886-87	19.26	1937-38	31.69
1887-88	35.10	1938-39	20.81
1888-89	32.85	1939-40	17.03
1889-90	49.89	1940-41	40.54
1890-91	26.69	1941-42	13.51
1891-92	20.71	1942-43	29.95
1892-93	39.20	1943-44	24.44
1893-94	11.26	1944-45	21.22**
1894-95	32.92	1945-46	20.14
1895-96	13.03	1946-47	18.28
1896-97	22.57	1947-48	12.30**
1897-98	16.60	1948-49	14.14
1898-99	7.28	1949-50	16.19
1899-00	12.19	1950-51	10.95
1900-01	23.73	1951-52	33.42
1901-02	14.06	1952-53	13.21
1902-03	27.27	1953-54	19.46
1903-04	12.59	1954-55	15.28
1904-05	25.97	1955-56	20.04
1905-06	27.03	1956-57	16.23
1906-07	33.07	1957-58	34.99
1907-08	20.24	1958-59	10.23
1908-09	27.20	1959-60	11.49
1909-10	20.21	1960-61	7.68**
1910-11	29.12	1961-62	23.10
1911-12	15.61	1962-63	14.09
1912-13	13.89**	1963-64	12.16
1913-14	36.78	1964-65	17.69
1914-15	28.76	1965-66	20.97
1915-16	33.59	1966-67	33.55
1916-17	21.61	1967-68	15.87
1917-18	19.88	1968-69	31.26
1918-19	14.50**	1969-70	14.93
1919-20	21.67**	1970-71	14.59
1920-21	23.47	1971-72	9.85
1921-22	26.59	1972-73	24.30
1922-23	19.08		
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**		

** = ESTIMATED LESS THAN 10% OF THE TOTAL

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

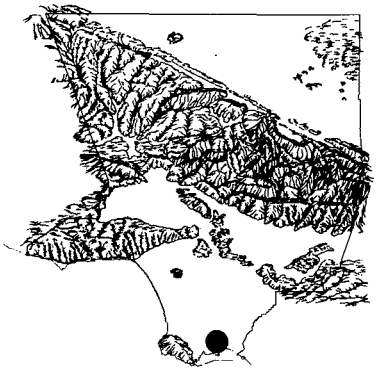
SEASONAL RAINFALL AT Glendora - West SEASON 1972-73

Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1						T			.02			
2												
3	T			.02	.73							
4	.02	T	1.59	.21	.06	.11	.04					
5												
6					1.13	.77						
7			.55		1.09	.33						
8		.01	.15	T		.70						
9				.23								
10				.09	.41	T						
11		.70			3.35	.57						
12					.41	.09						
13					.62						T	
14		.94							T			
15					.13							
16		1.10		.80				T				
17		.21		1.25								
18	.08			.32								
19	.56			1.32								
20						1.18					T	
21				T	T	.02					T	
22						.46						T
23												
24												
25				T								
26				.02								
27	T				T	.09						
28			.02		1.38	.06	.02					
29												
30				.27			.05					
31								.02				
TOTAL	.66	2.96	2.31	4.53	9.31	4.38	.11	.02	.02	0	T	T

SEASON TOTAL 24.30

STATION NO. 241-C
LONG BEACH



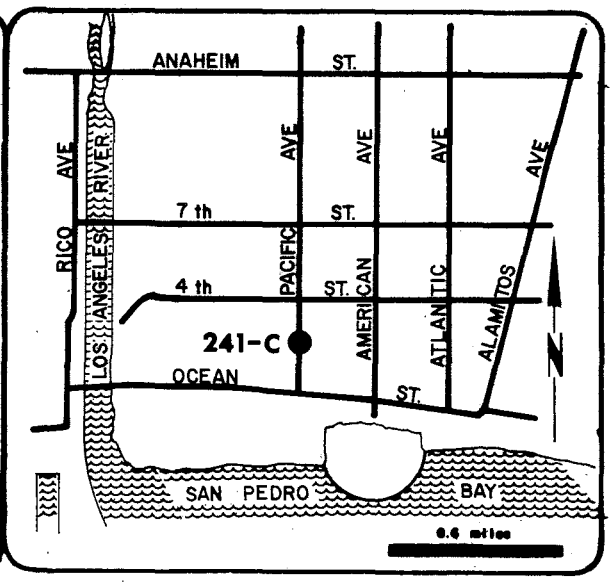
LOCATION
City Hall
205 East Broadway
Long Beach

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



STATION NO. 241C
LONG BEACH

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

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 1972-73

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					.09	.02						
5		.60										
6					.54	.11						
7			.19		.10	.02						
8			.31	.59								
9						.74						
10				.03								
11					1.51							
12					.10	.29						
13					.27	.06						
14		.94										
15		1.55										
16		.22										
17		.61		.85								
18				.40								
19	.32			.35								
20	.01											
21						.56						
22												
23												
24												
25												
26												
27					.03							
28					.31							
29												
30				.59								
31												
TOTAL	.33	3.92	.50	2.81	3.32	1.80	0	0	0	0	0	0

SEASON TOTAL 12.68

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

STATION NO. 256C
POMONA

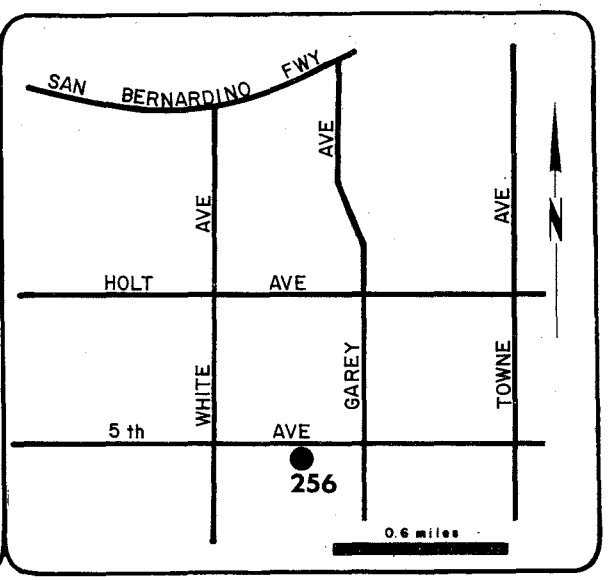
LOCATION
City of Pomona Fire Station
590 South Park Avenue
Pomona

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



STATION NO. 256C
POMONA

SEASON RAINFALL

1882-83	INC.	1962-63	12.65
1883-84	39.46	1963-64	9.49 C
1884-85	10.55	1964-65	13.92
1885-86	23.84	1965-66	15.94
1886-87	12.01	1966-67	22.34
1887-88	21.09	1967-68	15.38
1888-89	22.69	1968-69	28.30
1889-90	30.07*	1969-70	11.37
1890-96	NO RECORD	1970-71	9.99
1896-97	INC.	1971-72	7.49
1897-98	INC.	1972-73	17.51
1898-99	6.75		
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**		

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 1972-73

Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1						.04						
2												
3			.26									
4			1.23		.35	.07						
5												
6					.64							
7			.56			.45						
8			.11			.08						
9			.09	.19		.67						
10				.12								
11		.54			1.40							
12					.75	.55						
13					.74	.04						
14		.82				.01						
15					.06							
16		.64										
17		.74		2.07								
18												
19	.29			1.10								
20	.05					.85						
21						.13						
22					.03	.71						
23												
24												
25												
26						.01						
27												
28			.01		.65	.14						
29												
30												
31				.32								
TOTAL	.34	2.74	2.26	3.80	4.62	3.75	0	0	0	0	0	0

SEASON TOTAL 17.51

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

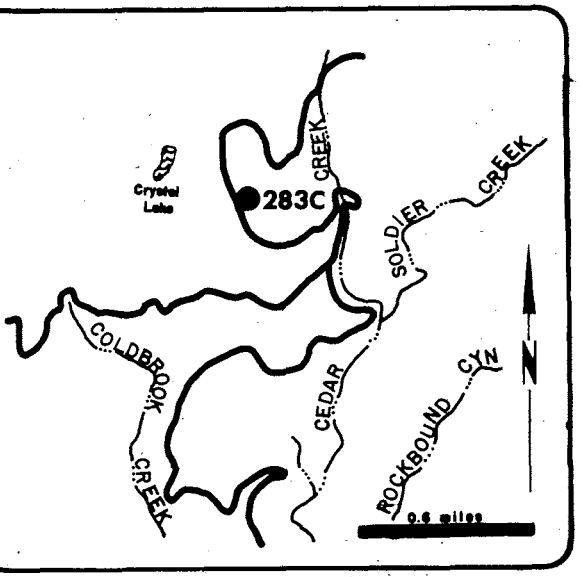
LOCATION
USFS Ranger Station
Crystal Lake, north of Azusa

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



STATION NO. 283C
CRYSTAL LAKE

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

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 1972-73

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

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1						T		.03				
2												
3					.02							
4				.31	.09	1.27	.13					
5			.06	1.08	.03	.02						
6					1.58	.04		.08				
7				.54	3.13	1.86						
8			.02	.22	.15	.46						
9				.14	.77	T	.56					
10	.03			.19	T							
11		.79	.02		7.97	1.08						
12		.02			1.56	1.54						
13					.54	.09						
14		.20				.02						
15		1.17			.03	T		T				
16		.80		T	.04			T				
17		1.25		1.64				T				
18		.06										
19	.22			1.98								
20	.06			T		1.51						
21	.24			T	.01	.62						
22				T	T	.58						
23					T							
24					T							
25					T							
26				.29								
27	.10				T	T						
28	.01				3.01	.06						
29						.01						
30				.01			.21					
31				.16								
TOTAL	.66	4.37	2.31	5.16	19.38	8.56	.21	.11	0	0	0	0

SEASON TOTAL 40.76

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

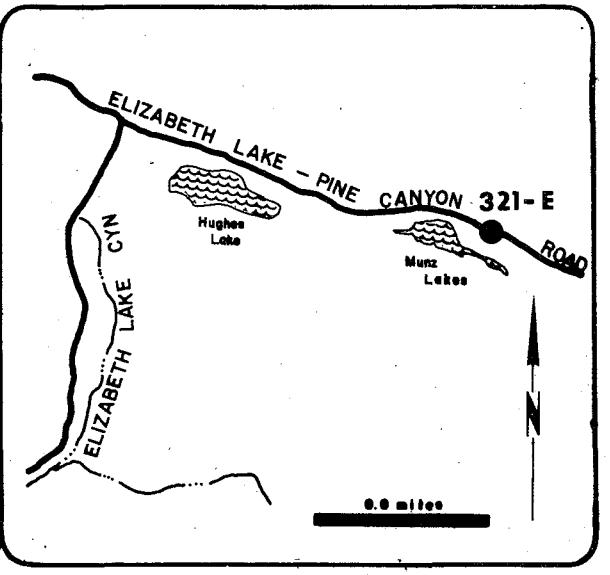
LATITUDE
34° 40' 24"

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



STATION NO. 321-E
PINE CANYON PATROL STATION

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

INC = INCOMPLETE

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 1972-73

Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1												
2												
3					.23							
4		.05	.65		.09	T						
5			.02					.12				
6					1.41	T						
7			.03		.76	.55						
8			.08	.03		.75						
9	T			.40		.20						
10				.04	1.65							
11		.62			4.55	.65						
12		.11				.02						
13					.85		.20					
14		1.25			.01			.08				
15		.01			.32							
16		.67		.61								
17		.15		.48								
18				.77								
19	.17	.01		.88								
20						1.06					T	
21						.03						
22						.23						
23												
24					.03							
25												
26												
27					.27							
28			.02		1.38							
29						T	.04					
30				.01								
31												
TOTAL	.17	2.87	.80	3.22	11.55	3.49	.24	.20	0	0	T	0

SEASON TOTAL 22.54

STATION NO. 338B
Mt. WILSON

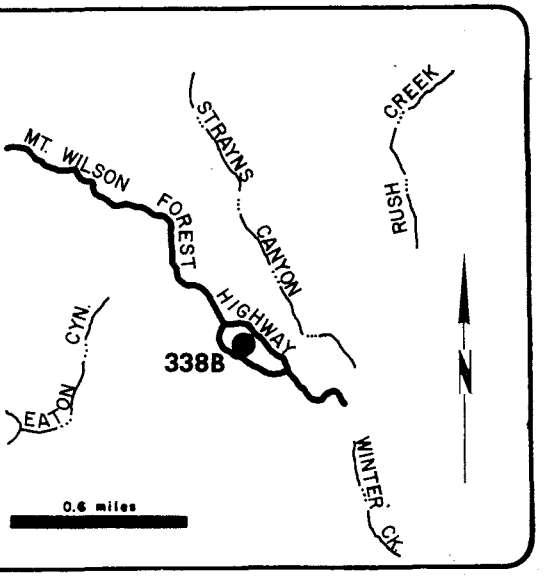
LOCATION
Mt. Wilson Post Office
one-half mile east
of Observatory
Mt. Wilson

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



STATION NO. 338B
MT. WILSON

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
1944-45	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

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

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 1972-73

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

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1												
2					T							
3					.97							
4		T	1.77	.16	.14	.19		T				
5					.16	.04		T				
6					1.91	1.14						
7		T	.16		2.88	T						
8		T	1.23	.16		1.16						
9	.06		.49	.59		T						
10		.21	.06		2.26	.03						
11		.78			9.79	2.67						
12					1.27	.10						
13											.04	
14		1.61			.10							
15					T							
16		2.53		2.23				T				
17		.34										
18	T			2.51								
19	.42			.07								
20	.06					2.86					T	
21				T	T	.95						
22					.10							
23												
24					T							
25												
26				.12		.06						
27	.05				1.15	T						
28			T		1.90	.05						
29							.03					
30				.15			.10					
31												
TOTAL	.59	5.47	3.71	5.99	22.63	9.25	.13	T	0	0	.04	0

SEASON TOTAL 47.81

STATION NO 425B-E
SAN GABRIEL DAM

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

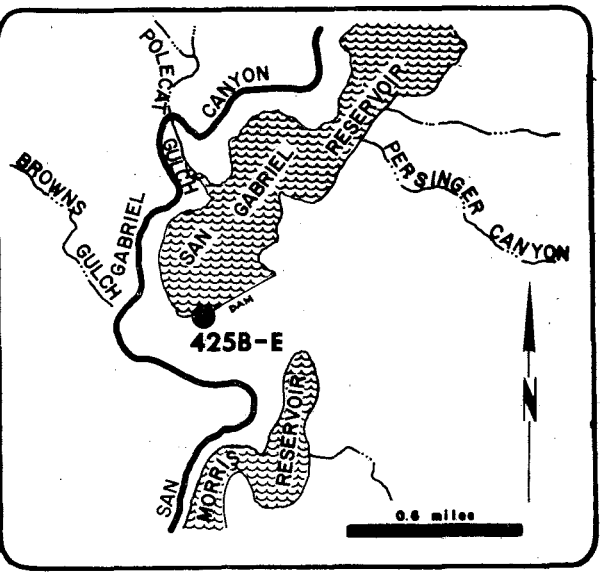
LATITUDE
34° 12' 19"

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
Thermograph



STATION NO. 425B-E
SAN GABRIEL DAM

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

B = STATION MOVED TO B LOCATION JUNE 20, 1943

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 1972-73

Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1						.06			.01		T	
2									.02			
3				T					T			
4	.03		.37	.01	1.11	.12						
5		.01	1.40	.20	.03			.17				
6					1.08	.01		T				
7			.77		1.73	1.39						
8		.04	.08		.30	.35						
9			.17	.34		.61						
10				.17	.01							
11		1.01			6.27	.49		T				
12		.17			1.44	.98						
13					.67	.02	T					
14		.15							T		T	
15		1.26			.06							
16		.89		T								
17		1.00		2.39				.08				
18				.02								
19	.19			2.42								
20	.13					1.41						
21	.09				T	.22						
22				T		.64						
23					.03							
24					.01							
25								T				
26				.56		T		T				
27	.01				T	T						
28			.08		2.61	.05	T					
29												
30				T			.01					
31				.29				T				
TOTAL	.45	4.53	2.87	6.40	15.35	6.35	.01	.25	.03	0	T	0

SEASON TOTAL 36.24

STATION NO. 440C
CHILAO

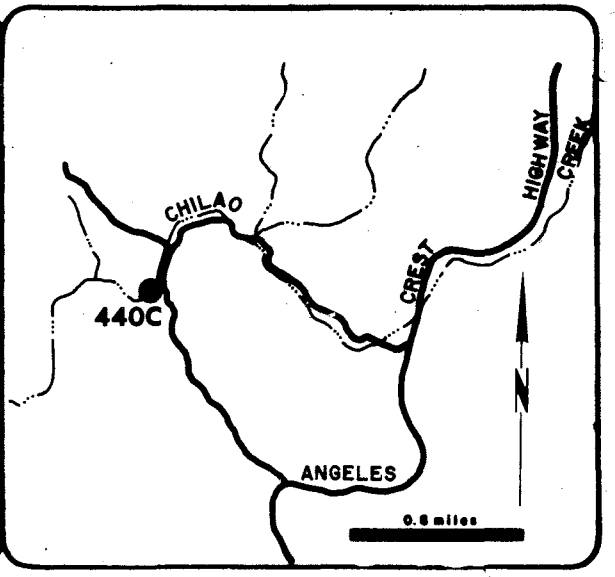
LOCATION
USFS Fire Camp
Big Tujunga Canyon
San Gabriel Mountains

LATITUDE
34° 20' 00"

LONGITUDE
118° 01' 23"

ELEVATION
5220'

LENGTH OF RECORD
non-recording rain gage
8/2/39 to date



STATION NO. 440C
CHILAO

SEASON	RAINFALL
1938-39	INC.
1939-40	16.71
1940-41	49.33
1941-42	16.14
1942-43	INC. B
1943-44	41.53
1944-45	25.07
1945-46	26.24
1946-47	26.11
1947-48	12.51
1948-49	13.34
1949-50	13.87
1950-51	10.70
1951-52	39.03
1952-53	12.97
1953-54	19.95
1954-55	19.77**
1955-56	20.11
1956-57	18.35
1957-58	42.81**
1958-59	13.05
1959-60	10.82
1960-61	10.78
1961-62	32.61
1962-63	17.02
1963-64	11.05 C
1964-65	18.58
1965-66	31.33
1966-67	29.21
1967-68	20.00
1968-69	47.49
1969-70	16.41 D
1970-71	21.18
1971-72	11.86
1972-73	21.34

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Station No. 440 C
Foreign Station No.
Quad-Index No. 63-87

SEASONAL RAINFALL AT Chilao - USFS Camp SEASON 1972-73
Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1												
2												
3	.01											
4				.01	.80							
5		.06	.76	T		.20						
6					1.00							
7			.30		1.30							
8			.34									
9	.03			.42	.25							
10				.14								
11		.32										
12		T			5.22	2.42						
13												
14		.25			.50							
15		.60										
16		.55		.54	.20							
17		1.10		.54								
18	.05			.45								
19	.05			.72								
20												
21												
22												
23												
24						.20						
25												
26												
27	.07											
28					1.42							
29												
30				.08								
31										.13		
TOTAL	.21	2.88	1.40	2.82	10.69	2.82	0	0	0	.13	0	0

SEASON TOTAL 21.34

INC = INCOMPLETE
** = ESTIMATED LESS THAN 10% OF THE TOTAL
B = STATION MOVED TO B LOCATION FEBRUARY 20, 1943
C = STATION MOVED TO C LOCATION OCTOBER 1, 1963
D = STATION MOVED TO D LOCATION OCTOBER 1, 1969

STATION NO. 455B
LANCASTER

LOCATION
State Highway
Maintenance Station
44023 Sierra Highway
one mile south of Lancaster

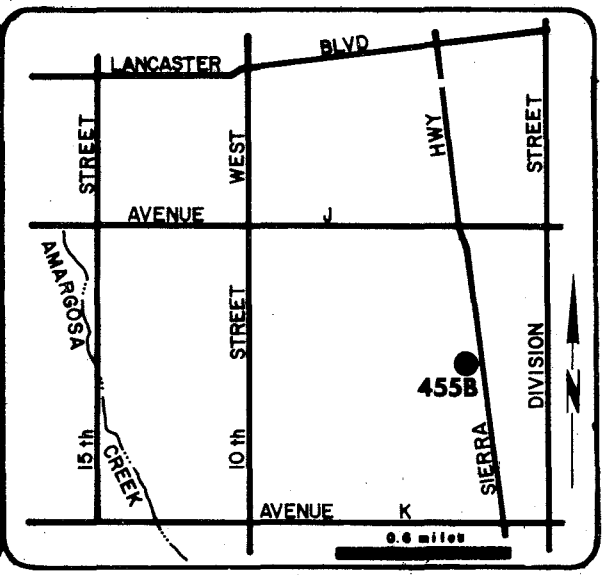
LATITUDE
34° 40' 57"

LONGITUDE
118° 08' 02"

ELEVATION
2395'

LENGTH OF RECORD
non-recording rain gage
9/1/40 to date

ADDITIONAL
INSTRUMENTATION
Max-Min Thermometer



STATION NO. 455B
LANCASTER

SEASON	RAINFALL
1940-41	18.66
1941-42	6.05
1942-43	9.91
1943-44	17.58
1944-45	7.67
1945-46	7.12
1946-47	7.79
1947-48	3.92
1948-49	5.86
1949-50	4.22
1950-51	2.30
1951-52	12.97
1952-53	3.72**
1953-54	6.37
1954-55	5.26
1955-56	4.03
1956-57	5.41
1957-58	12.05
1958-59	2.77
1959-60	3.87
1960-61	1.93**B
1961-62	7.82
1962-63	4.92
1963-64	3.60**
1964-65	4.98
1965-66	7.72
1966-67	6.13
1967-68	6.04
1968-69	7.32
1969-70	2.29
1970-71	5.87
1971-72	3.46
1972-73	6.04

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Station No. 455B
Foreign Station No. .....
Quad-Index No. 99-61

SEASONAL RAINFALL AT Lancaster - State Highway Maint. Sta. SEASON 1972-73

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

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1												
2												
3	T											
4			.13		.02							
5					.57							
6					.07	.19						
7						.11						
8												
9				.21								
10			.10									
11		.36			1.00	.41						
12												
13					.36							
14		.55			.14							
15					.13							
16		.19		.15								
17												
18				.46								
19				.02								
20						.45						
21						.10						
22												
23												
24												
25												
26												
27					.25							
28					.07							
29												
30												
31												
TOTAL	T	1.10	.23	.84	2.61	1.26	0	0	0	0	0	0

SEASON TOTAL 6.04

B = STATION MOVED TO B LOCATION OCTOBER 9, 1960
** = ESTIMATED LESS THAN 10% OF THE TOTAL

STATION NO. 478
VALYERMO

LOCATION
USFS Ranger Station
Pearblossom Highway
Valyermo

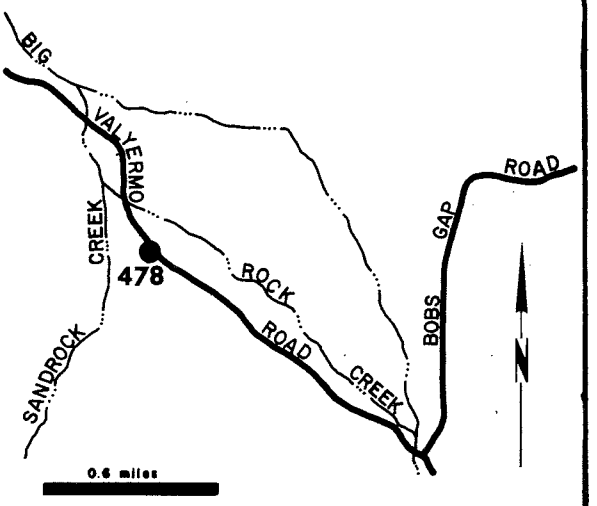
LATITUDE
34° 26' 44"

LONGITUDE
117° 51' 10"

ELEVATION
3710'

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

ADDITIONAL INSTRUMENTATION
Max-Min Thermometer



STATION NO. 478
VALYERMO

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

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

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 1972-73
Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1												
2												
3					.13						.05	
4			.46								.20	
5					.47						.18	
6						.18						
7			.04									
8				.03	.04	.33						
9				.07								
10												
11		.28			2.42							
12						.57						
13					.10							
14		.60										
15					.12							
16		.29		.56								
17		.03										
18	.05			.85								
19	.15											
20	.10					.85						
21						.06						
22												
23												
24												
25				.10								
26	.02											
27					.32							
28												
29												
30				.02								
31												
TOTAL	.32	1.20	.50	1.63	3.60	1.99	0	0	0	0	.43	0

SEASON TOTAL 9.67

STATION NO. 610B
PASADENA

LOCATION
City Hall
Intersection of Garfield Avenue and Ramona Street
Pasadena

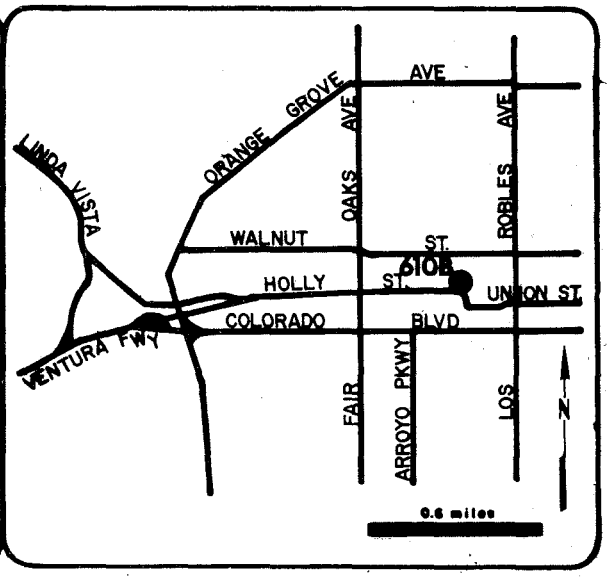
LATITUDE
34° 08' 54"

LONGITUDE
118° 08' 36"

ELEVATION
864'

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

ADDITIONAL INSTRUMENTATION
Max-Min Thermometer



STATION NO. 610B
PASADENA

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	

B = STATION MOVED TO LOCATION B SEPTEMBER 3, 1935

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Station No. 610B
Foreign Station No.
Quad-Index No. 40-55

SEASONAL RAINFALL AT Pasadena - City Hall SEASON 1972-73

Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1									.01			
2												
3					.67							
4	T	.02	1.46	T	.10	.05		T				
5					.01			.01				
6					1.10	.28						
7			.59		1.78	.38						
8		T	.20	T		.79						
9				.21		.01						
10				.09	.60							
11		.77			4.12	.66						
12					.58	.51						
13					.45	.01	.03				.03	
14		1.12						.01	.05			
15		T			.24							
16		1.27		.79								
17		.35		.94				.03				
18				.37								
19	.17			1.44								
20	.05					.98		T			T	
21					T	.02		T				
22						.49						
23												
24					T							
25												
26				T		.13						
27	.03				.01	.01						
28					1.49	.02	T					
29												
30				.25								
31				T				.02				
TOTAL	.25	3.53	2.25	4.09	11.15	4.34	.03	.07	.06	0	.03	0

SEASON TOTAL 25.80

STATION NO. 634C
SANTA MONICA

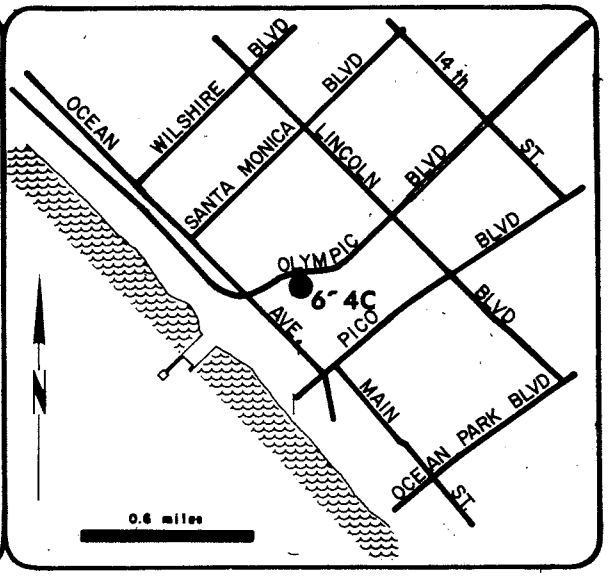
LOCATION
City Hall
1685 Main Street
Santa Monica

LATITUDE
32° 00' 43"

LONGITUDE
118° 29' 27"

ELEVATION
94'

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



STATION NO. 634C
SANTA MONICA

SEASON	RAINFALL
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
1948-49	7.69
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

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 1972-73

Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1												
2												
3	.04				.54							.02
4			.90		.17						T	
5												
6					1.01	.16						
7			.76		1.08	.10						
8		T	.40	.01		1.04						
9				.36		.01						
10				.06	.50							
11		.55			1.50	.38						
12								.01				
13					.17			.01			.10	.01
14		1.36						.01				.02
15		.01										
16		1.04		.30								
17		.22		2.11								
18				.27								
19	.05			.47								
20						.57					T	
21						.04						
22						.42						
23												
24					.01							
25												
26												
27	.04				T							
28					.47	.01						
29												
30				.53				T				
31												
TOTAL	.13	3.18	2.06	4.11	5.45	2.73	0	.03	0	0	.10	.05

SEASON TOTAL 17.79

B = STATION MOVED TO LOCATION B OCTOBER 1, 1939
C = STATION MOVED TO LOCATION C SEPTEMBER 1, 1958
** = ESTIMATED LESS THAN 10% OF THE TOTAL
INC = INCOMPLETE

STATION NO. 716
LOS ANGELES - DUCOMMUN ST.

LOCATION
Los Angeles DWP Service Yard
410 Ducommon Street
Los Angeles

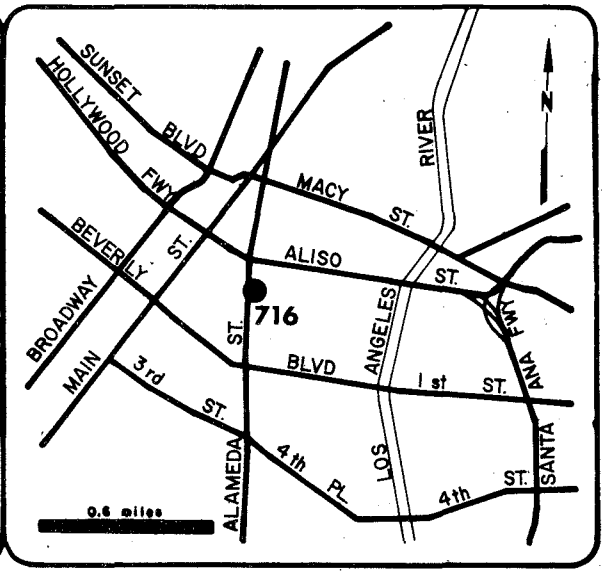
LATITUDE
34° 03' 09"

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



STATION NO. 716
LOS ANGELES - DUCOMMUN ST.

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

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 1972-73

Record Furnished by Copied by Date Copied

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
1												
2												
3					.01							
4	T		.27	T	.45							
5		T	1.16		.29							
6					.88	.01						
7			.78		1.70	.17						
8			.12		.21	.05						
9			.07	.26		.63						
10				.10								
11					2.01	.30						
12		.55			1.13	.09						
13					.52							
14		.37							T			
15		.72										
16		.92		T								
17		.73		2.71								
18												
19	.27			1.01								
20						.92						
21	T											
22						.54						
23												
24												
25												
26						.04						
27	.02											
28	T				.78	.02						
29												
30				.03								
31				.28								
TOTAL	.29	3.29	2.40	4.39	7.98	2.77	0	0	T	0	0	0

SEASON TOTAL 21.16

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

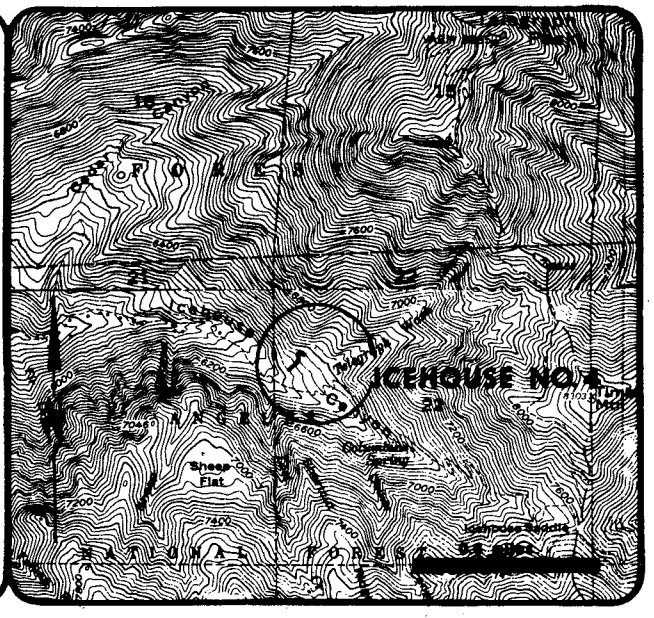
LOCATION
5 miles northeast of
Mt. Baldy Ranger Station
Icehouse Canyon
southern exposure

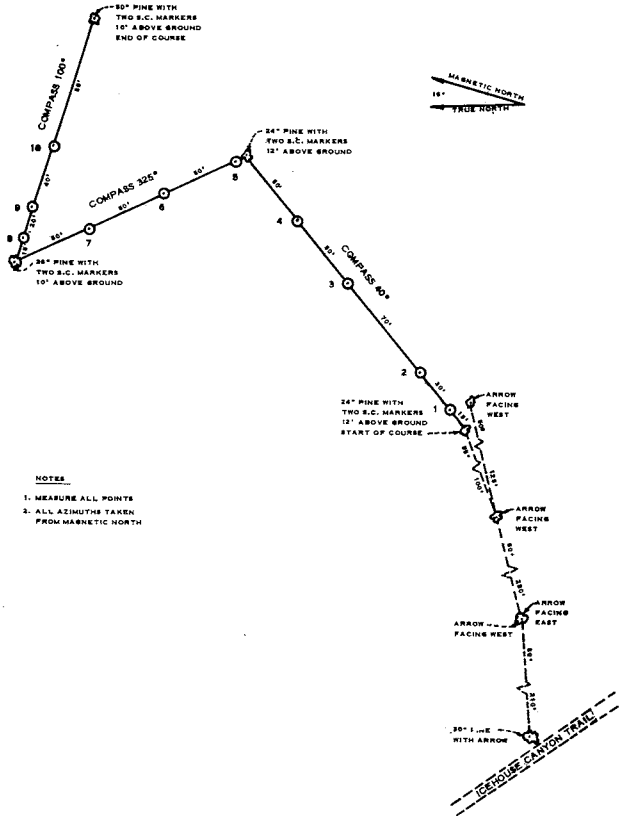
ELEVATION
6300'

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

MANKER FLAT SNOW COURSE

LOCATION

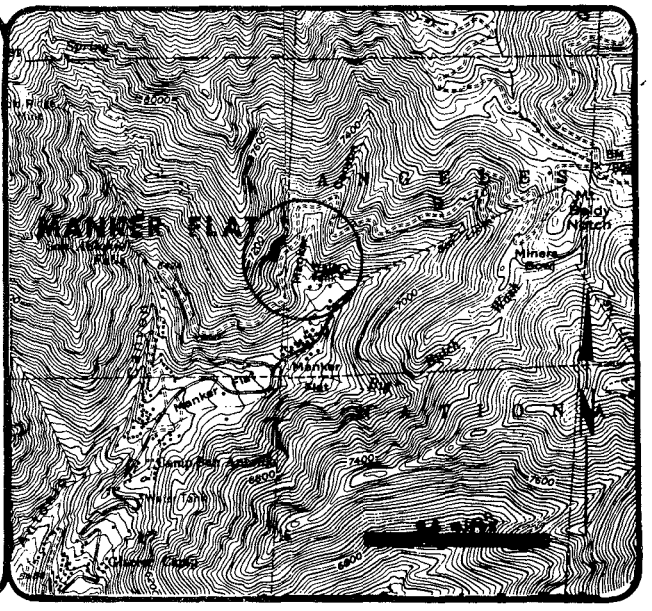
200 feet west of base of Mt. Baldy Ski Lift
San Gabriel Mountains
southern exposure

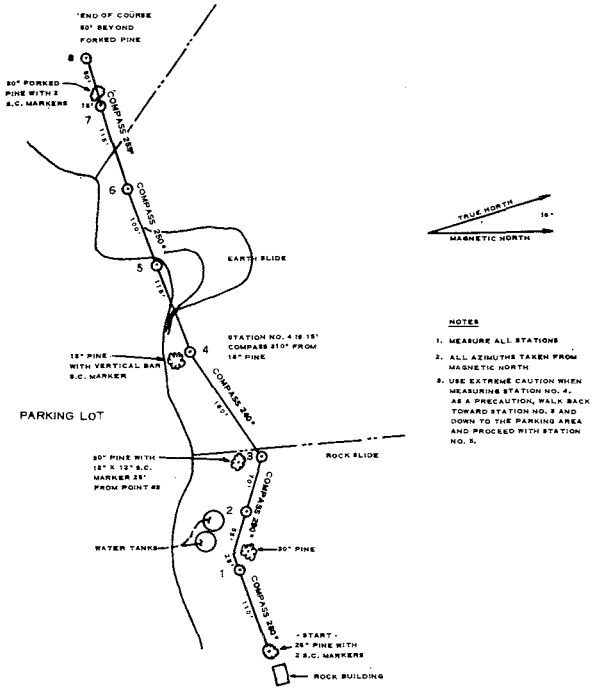
ELEVATION
6500'

LENGTH OF COURSE
815'

DRAINAGE AREA
San Antonio Creek

PERIOD OF RECORD
April 1, 1955, to date





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

+ = PATCHES OF SNOW

LOWER THUNDER MTN. SNOW COURSE

LOCATION

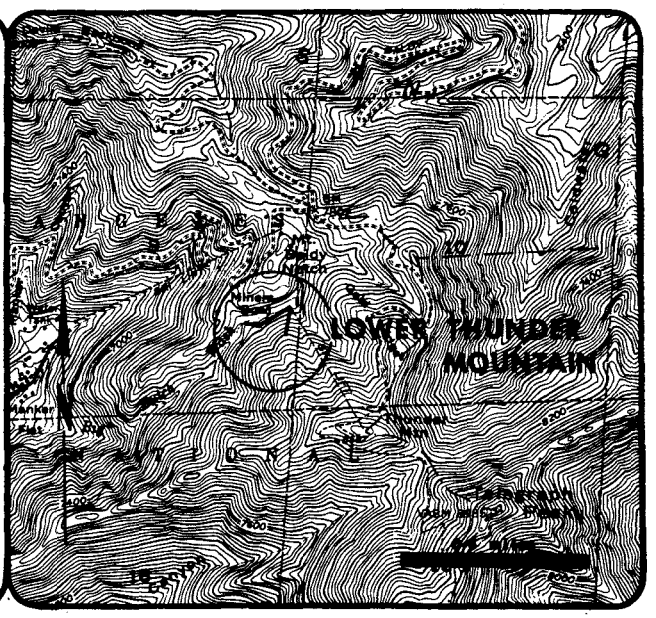
Just west of base of
Thunder Mountain Chair Lift
Mt. Baldy
San Gabriel Mountains
northern exposure

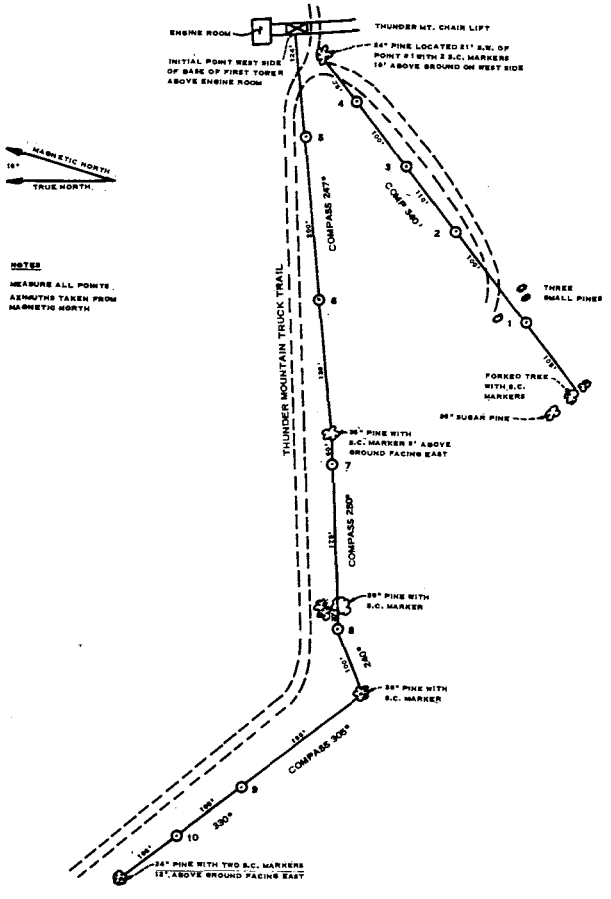
ELEVATION
7500'

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

+ = PATCHES OF SNOW

UPPER THUNDER MTN. SNOW COURSE

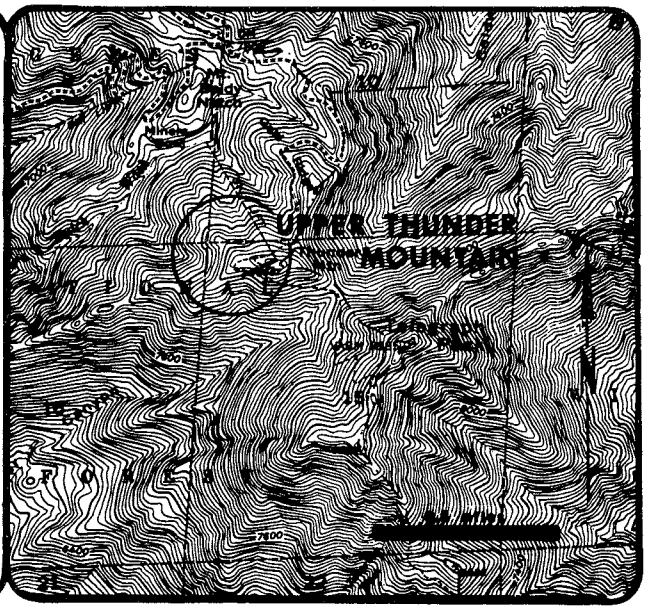
LOCATION
Just west of upper end of Thunder Mountain Chair Lift
Mt. Baldy
San Gabriel Mountains
northern exposure

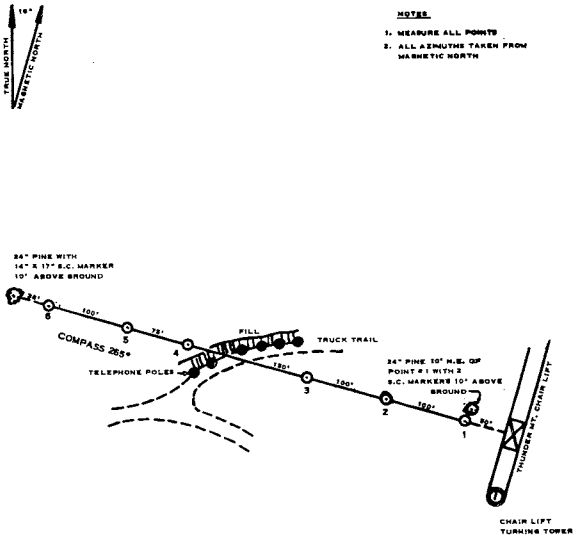
ELEVATION
8500'

LENGTH OF COURSE
665'

DRAINAGE AREA
San Antonio Creek

PERIOD OF RECORD
April 1, 1955, to date





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

+ = PATCHES OF SNOW

BLUE RIDGE SNOW COURSE

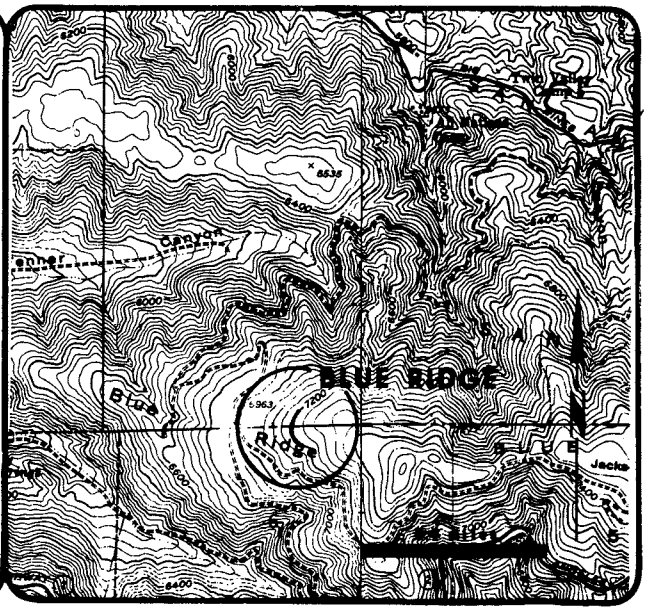
LOCATION
1 mile north of Highway 2
10 miles west of Wrightwood
San Gabriel Mountains
southern exposure

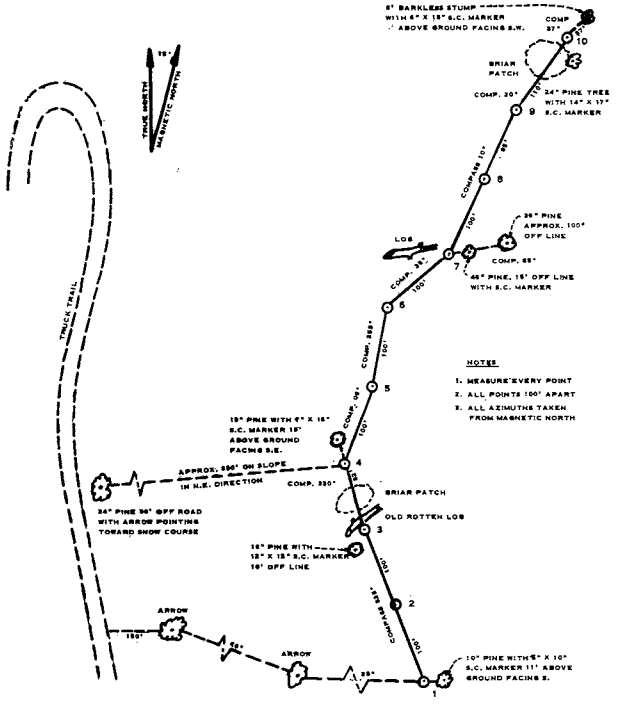
ELEVATION
7200'

LENGTH OF COURSE
900'

DRAINAGE AREA
Big Rock Creek

PERIOD OF RECORD
April 1, 1959 to date





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

\+ = PATCHES OF SNOW

ISLIP NO. 2 SNOW COURSE

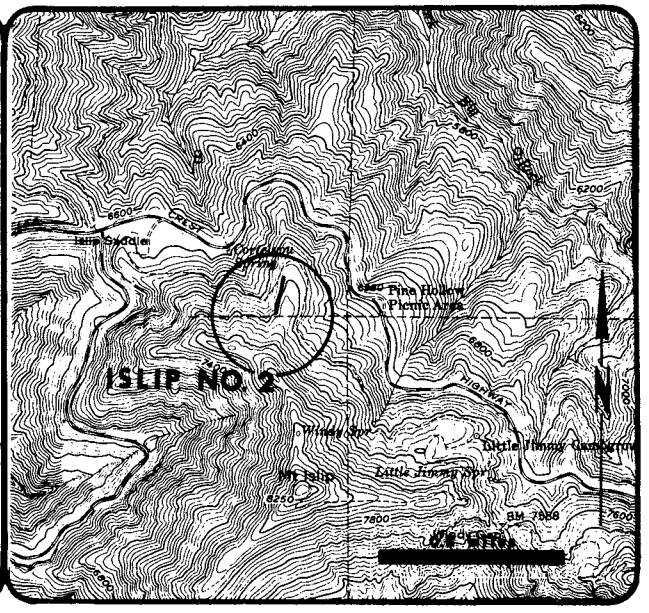
LOCATION
0.50 mile southwest of Highway 2
6 miles east of Highwoy 39.
San Gabriel Mountains
northern exposure

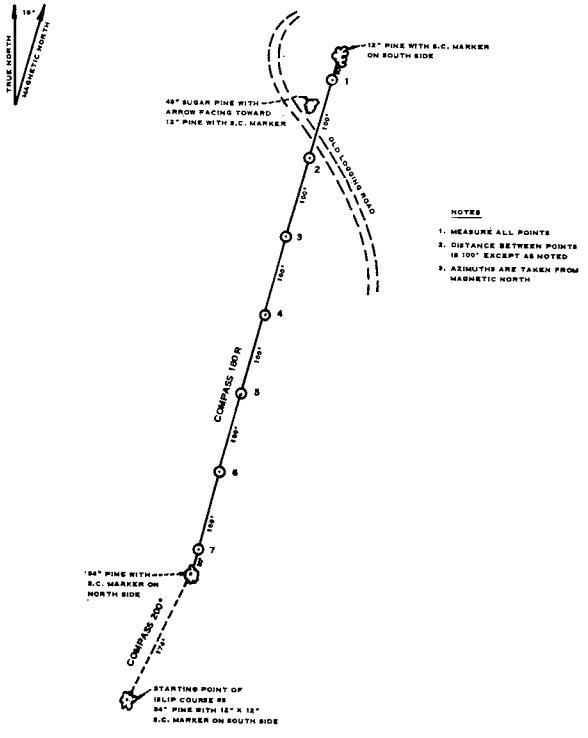
ELEVATION
7400'

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

+ = PATCHES OF SNOW

ISLIP NO 3 SNOW COURSE

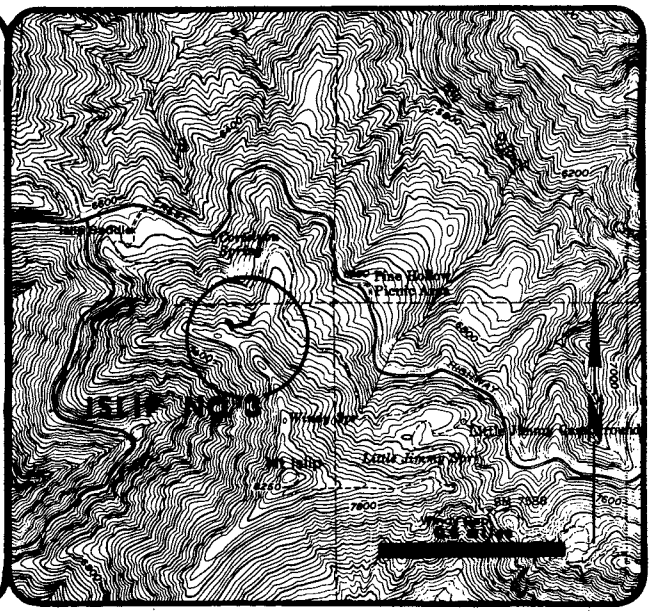
LOCATION
0.50 mile southwest of Highway 2
6 miles east of Highway 39
San Gabriel Mountains
northern exposure

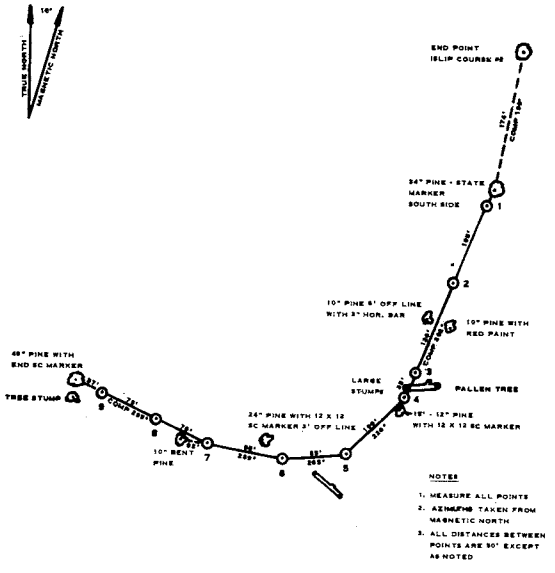
ELEVATION
7600'

LENGTH OF COURSE
654'

DRAINAGE AREA
Big Rock Creek

PERIOD OF RECORD
April 1, 1945, to date





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

ISLIP NO. 4 SNOW COURSE

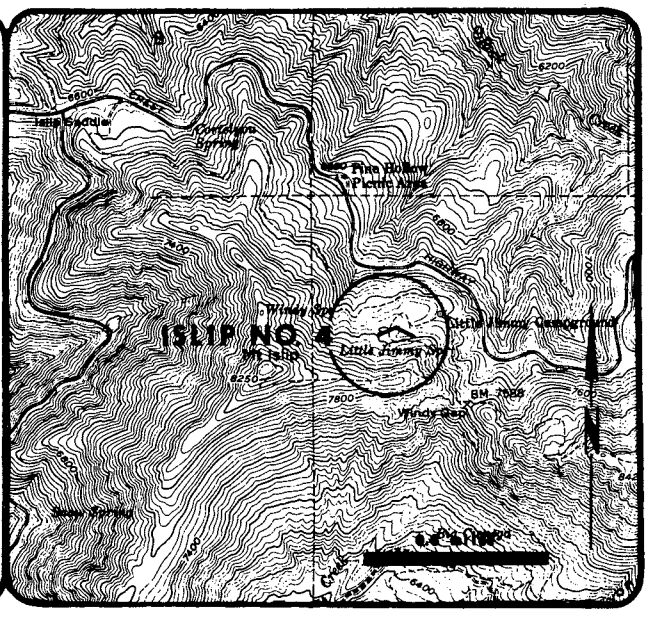
LOCATION
0.50 mile southwest of Highway 2
6.5 miles east of Highway 39
San Gabriel Mountains
northern exposure

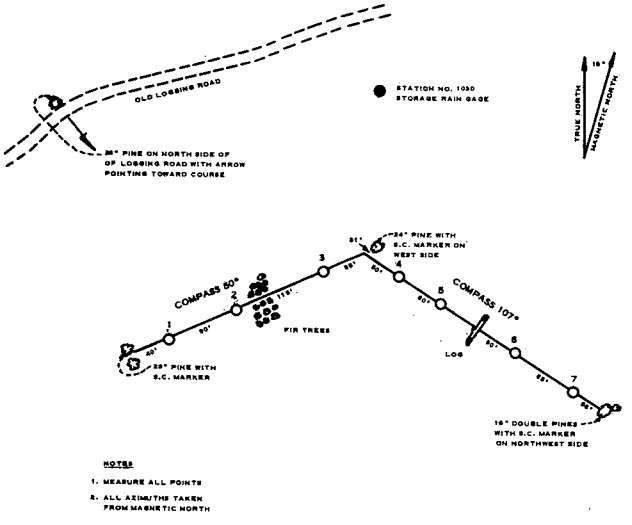
ELEVATION
7570'

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

SQW CAMP SNOW COURSE

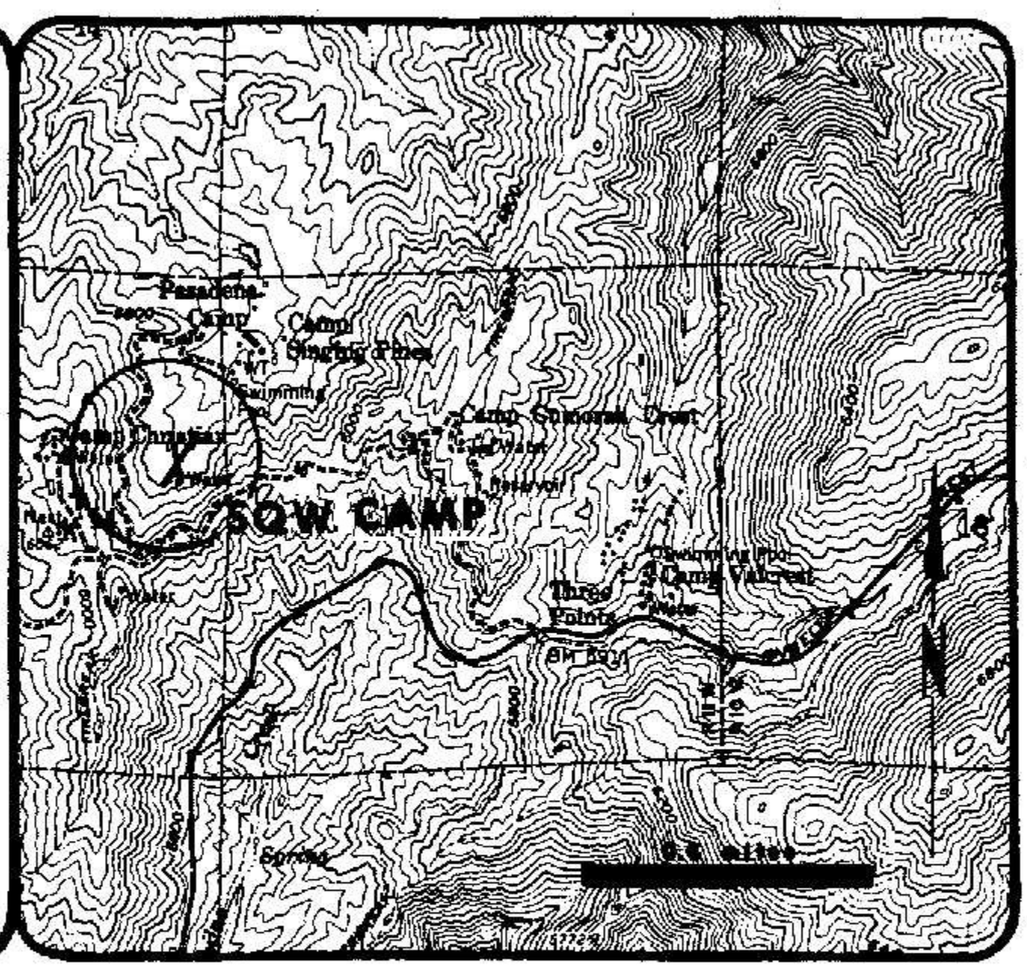
LOCATION
1 mile north of Highway 2
5 miles east of Mt. Wilson Road
San Gabriel Mountains
northern exposure

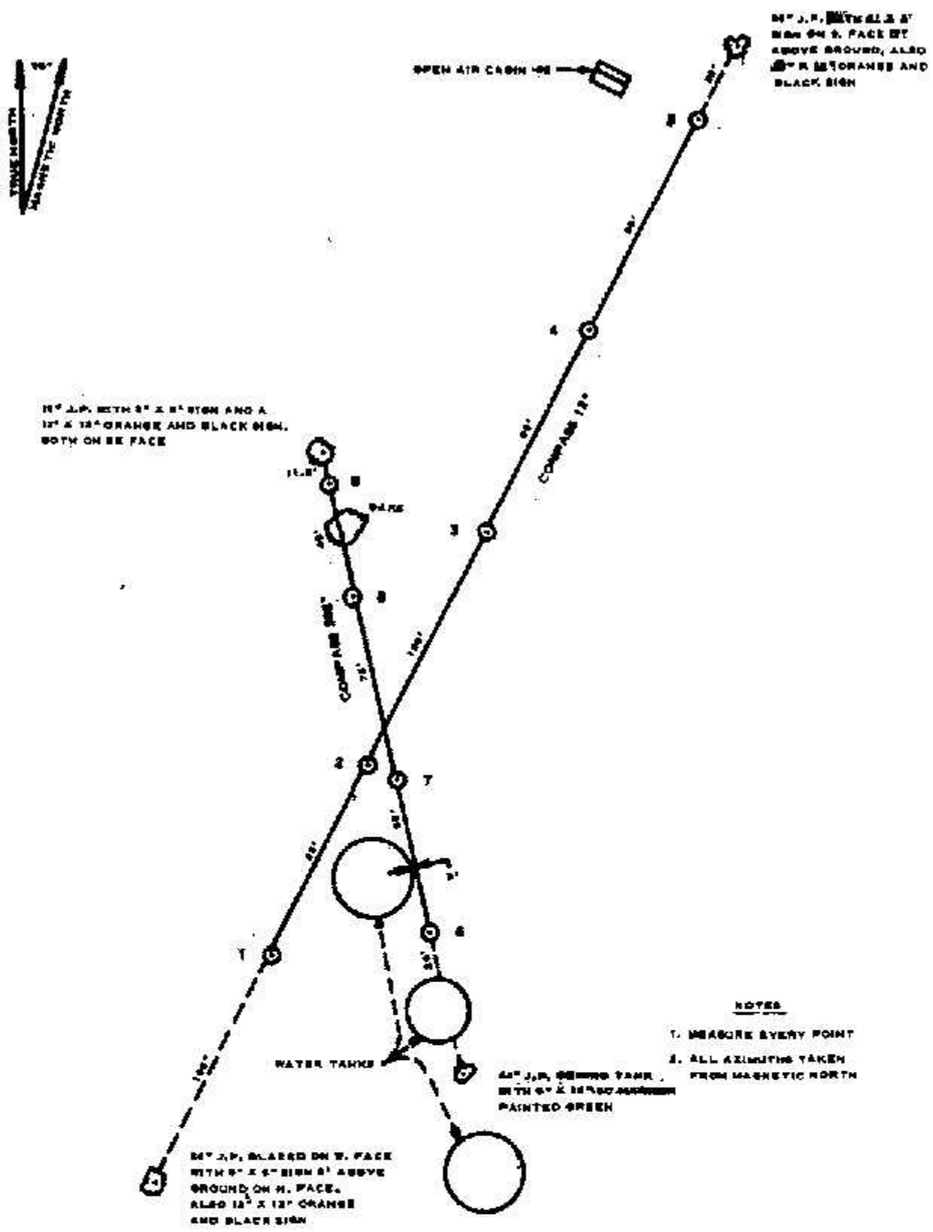
ELEVATION
5800'

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

+ = PATCHES OF SNOW

CEDAR SPRINGS SNOW COURSE

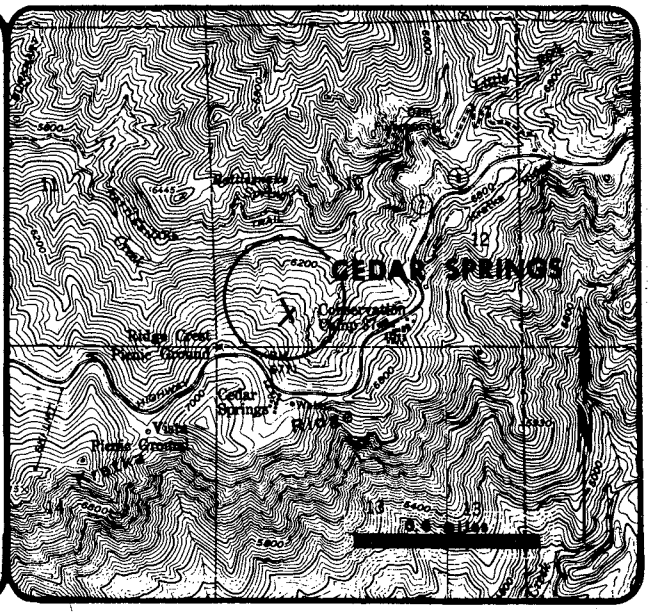
LOCATION
0.25 mile north of Highway 2
5 miles west of Highway 39
San Gabriel Mountains
northern exposure

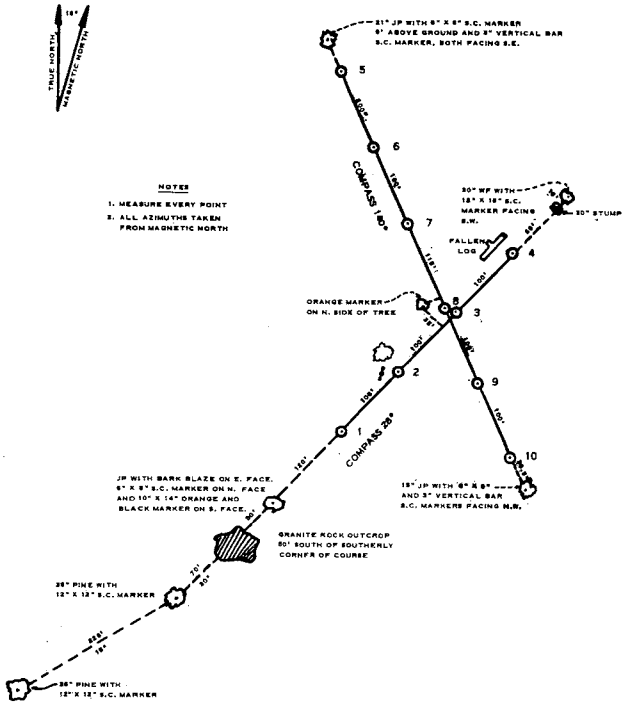
ELEVATION
6500'

LENGTH OF COURSE
975'

DRAINAGE AREA
Little Rock Creek

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





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

DEER FLATS SNOW COURSE

LOCATION

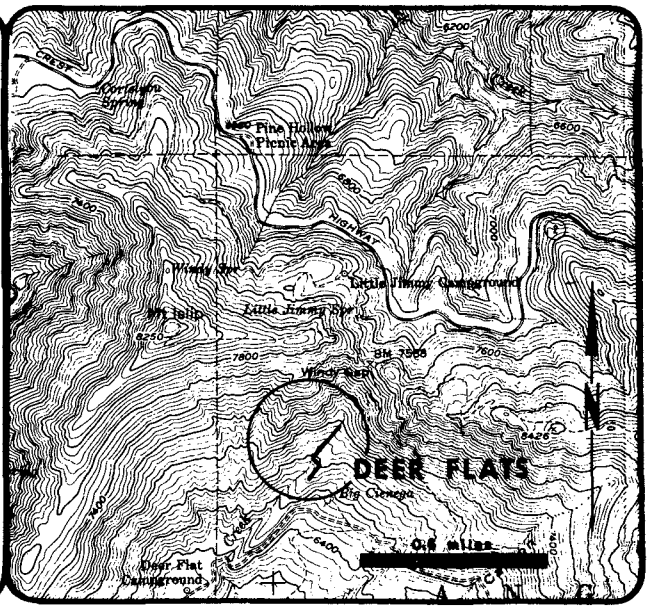
2 miles northeast of Crystal Lake Ranger Station
San Gabriel Mountains
southern exposure

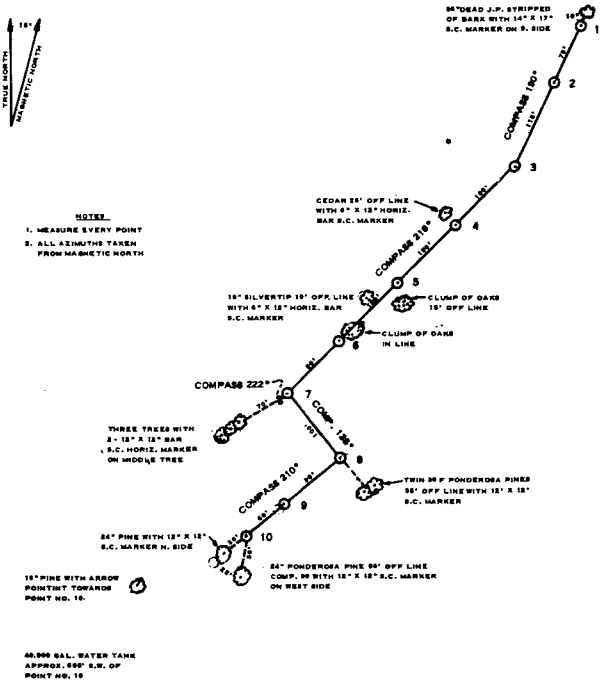
ELEVATION
6800'

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

EVAPORATION

Data for 24 active evaporation stations were reported to the District during the season. 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.

1972-73

Maximum Seasonal Amount -	Big Tujunga Reservoir.....		74.23"
Maximum Monthly Amount -	Palmdale.....	July	13.20"
Minimum Seasonal Amount -	Big Dalton Dam.....	March	40.17"
Minimum Monthly Amount -	Baldwin Park Experimentaal Station.....	January	0.78"

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

The District recognizes the evaporation values collected from the screened land pan, Type L-24S, as standard. A coefficient of equipment in the Lake Elsinore and Fullerton studies. No corrections have been made to the published data.

1. Land pan, Type L-24

   Twenty-four inches in diameter by 36 inches deep. Installed in 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

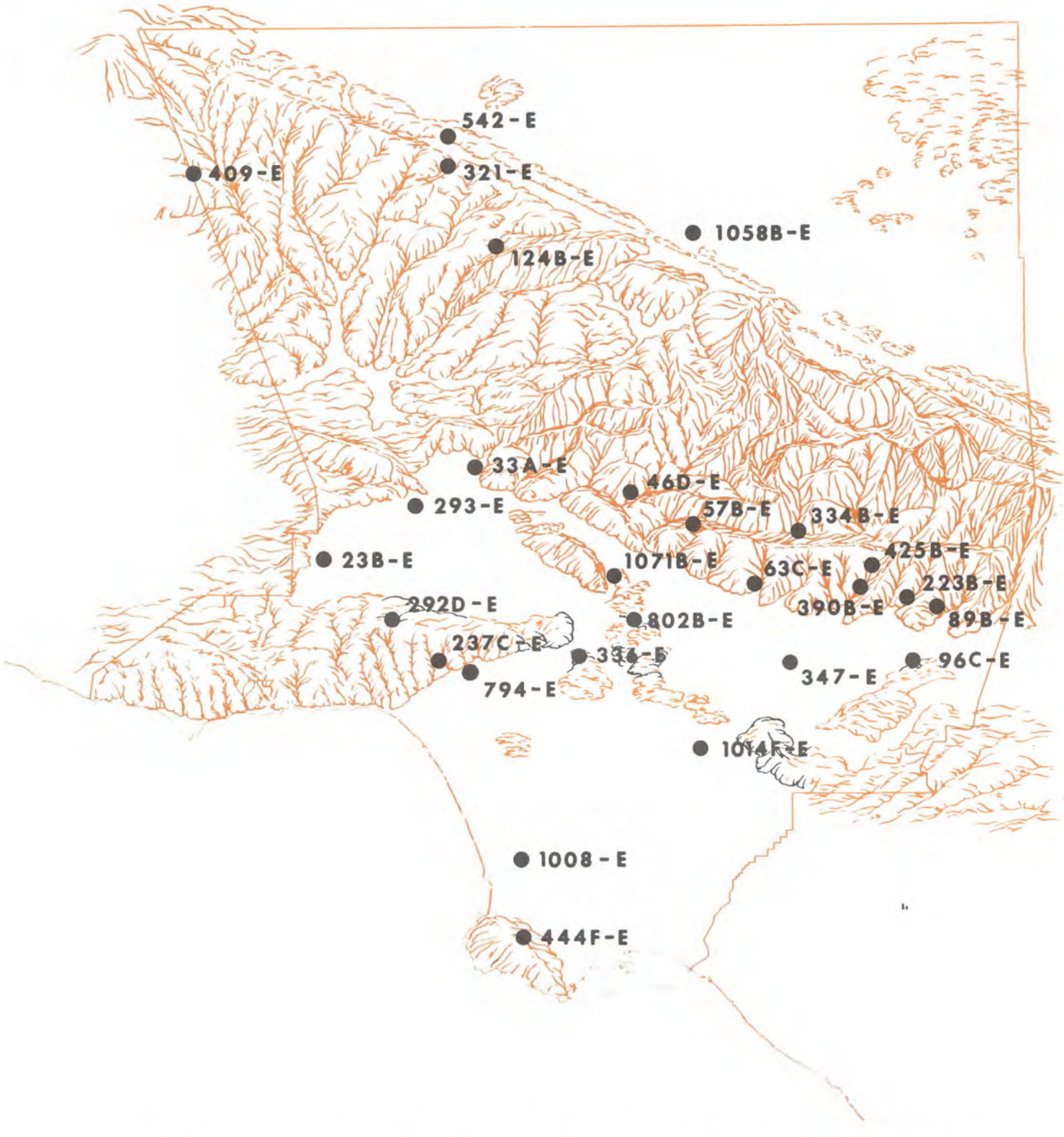
   Seventy-two inches in diameter by 36 inches deep. Installed in the ground 33 inches. Water in pan maintained near ground level.

5. Land pan, Type L-36

   Thirty-six inches square by 18 inches deep. In stalled 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.



ACTIVE EVAPORATION STATIONS

MONTHLY EVAPORATION SUMMARY
STATION NO. 23
CHATSWORTH RESERVOIR
24" DIAMETER SCREENED

SEASON	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1931-32	7.48	5.24	3.69	4.10	3.30	5.90	7.24	7.62	8.41	10.10	10.35	7.36	80.79
1932-33	7.66	7.60	4.31	4.69	5.42	6.60	5.70	8.05	8.30	10.22	9.52	6.92	84.99
1933-34	6.69	8.12	2.50	5.46	2.56	5.48	7.92	9.40	6.68	10.42	9.55	8.68	83.46
1934-35	6.30	3.84	3.73	3.18	4.32	2.84	3.67	4.90	7.02	10.20	9.85	8.12	67.97
1935-36	7.69	4.86	4.58	4.98	2.17	4.74	5.14	8.42	9.54	10.62	10.17	8.46	81.37
1936-37	6.10	6.70	3.46	2.74	2.44	4.28	6.12	5.51	6.96	10.10	9.75	8.88	73.06
1937-38	6.42	3.88	5.20	5.87	2.62	4.54	5.78	7.68	7.94	9.60	9.72	8.96	78.27
1938-39	6.64	7.46	4.20	3.46	3.83	3.16	5.04	7.12	8.90	10.22	9.94A	8.38	78.39
1939-40	7.47	3.64	3.42	1.96	2.67	3.70	4.68	7.59	8.20	11.35	10.12	7.68	72.48
1940-41	6.24	5.75	3.08	1.76	1.62	2.90	3.46	7.25	6.92	9.02	7.53	6.75	62.26
1941-42	5.61	4.38	2.48	3.28	3.20	5.16	3.48	6.62	7.75	10.55	9.08	6.96	68.55
1942-43	5.73	4.96	3.39	3.78	3.82	2.56	3.92	6.76	7.80	9.15	9.05	7.62	68.54
1943-44	5.60	5.39	4.34	3.80	2.56	5.72	5.10	5.22	6.08	7.98	9.80	7.15	68.74
1944-45	5.14	3.48	3.46	3.05	2.84	3.08	5.73	6.58	6.16	9.28	10.02	7.56	66.40
1945-46	4.86	4.38	2.34	4.26	2.85	3.40	3.95	4.35	7.85	8.95	8.80	7.58	63.57
1946-47	5.10	2.89	1.74	2.88	1.55	3.11	4.82	5.30	5.80	9.32	8.10	6.75	57.34
1947-48	4.39	4.58	3.48	4.35	3.24	3.72	4.28	6.06	6.10	8.00	7.65	7.42	63.29
1948-49	4.48	5.88	2.16	2.69	1.98	2.70	4.95	5.54	7.33	7.72	8.25	7.42	61.10
1949-50	5.52	4.20	3.06	1.78	1.76	3.35	4.72	5.48	6.70	8.10	7.92	5.08	57.69
1950-51	4.64	4.57	3.35	2.26	2.15	5.30	3.20	5.45	5.65	7.58	7.22	5.95	57.32
1951-52	5.18	3.60	2.42	1.86	3.13	2.92	2.75	5.53	5.55	7.55	7.30	6.45	54.24
1952-53	3.80	2.89	1.94	2.70	4.90	3.75	3.50	6.04	5.32	7.78	6.80	5.52	54.94
1953-54	5.60	3.25	5.80	1.78	4.39	2.63	3.00	4.64	5.76	7.71	6.40	5.64	56.60
1954-55	4.59	3.65	3.78	2.18	3.55	4.70	5.84	3.77	5.06	6.72	7.48	6.38	57.70
1955-56	3.92	3.31	1.52	1.18	2.33	4.88	2.66	4.09	5.69	6.51	6.30	6.20	48.59
1956-57	3.72	7.50	6.53	2.14	1.44	3.23	3.29	4.06	6.02	7.50	6.96	5.56	57.95
1957-58	3.12	3.18	4.30	3.07	1.87	2.20	2.80	4.54	5.76	6.49	6.53	6.95	50.81
1958-59	5.00	3.85	3.74	2.34	1.92	4.62	4.38	5.20	6.30	7.93	7.22	5.14	57.64
1959-60	5.06	6.18	4.20	1.80	2.52	3.15	5.16	5.76	6.92	8.32	7.51	6.46	62.56
1960-61	4.58	2.62	3.74	4.49	4.04	3.82	4.89	5.42	6.08	7.50	6.82	5.44	59.44
1961-62	4.76	3.56	2.09	3.33	1.54	1.99	4.24	4.46	4.92	6.66	7.35	5.63	50.55
1962-63	3.66	2.71	2.70	2.44	2.20	3.48	3.36	4.02	4.35	6.96	6.68	5.45	48.01
1963-64	3.94	3.13	3.50	3.18	4.53	3.84	3.96	5.35	5.66	8.19	7.20	5.78	58.26
1964-65	4.83	2.95	3.17	2.15	2.46	2.83	3.70	4.98	4.99	7.21	7.64	5.22	52.13
1965-66	5.38	3.33	1.78	2.48	2.15	3.48	4.82	4.84	6.56	12.80	9.86	6.05	63.53
1966-67	5.63	2.02	2.50	2.67	2.99	2.31	3.67	6.40	6.04	8.89	10.23	6.68	60.03
1967-68	9.01	3.60	5.59	4.75	2.46	5.61	6.76	7.62	7.50	9.54	8.94	8.40	79.78
1968-69	5.79	6.12	3.89	2.56	1.82	5.22	6.15	5.92	5.80	9.65	10.94	8.34	72.20
1969-70	8.34	7.48	4.38	3.88	2.52	8.16	7.52	8.70	8.22	10.68	10.80	11.26	91.94
1970-71	6.96	5.56	3.08	4.05	4.23	6.12	5.72	6.30	7.18	9.62	10.66	8.80	78.30
1971-72	7.88	4.93	5.38	5.28	4.25	6.23	6.99	7.54	7.96	11.26	9.70	7.22	84.68
1972-73	5.59	N.R.	4.87	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	9.58	9.08	7.43	INC.

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. 33A
PACUIMA DAM
24" DIAMETER SCREENED

SEASON	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1930-31	6.07	7.10	4.46	2.72	2.98	7.61	6.50	5.18	6.85	9.54	8.58	8.64	76.23
1931-32	7.28	5.93	2.51	2.33	1.92	5.44	6.56	5.28	7.82	9.28	9.04	7.83	71.22
1932-33	7.29	7.81	3.26	3.62	4.32	5.64	4.84	5.72	6.21	9.12	8.10	6.74	72.67
1933-34	6.90	7.28	3.48	4.62	2.79	4.99	6.02	6.27	3.68	7.70	7.26	7.69	68.66
1934-35	6.20	3.74	3.33	2.28	3.12	2.78	3.16	3.80	4.72	6.78	7.42	6.66	53.99
1935-36	5.81	4.29	3.61	3.34	1.93	4.22	4.53	5.51	5.52	6.70	7.11	7.98	60.55
1936-37	5.56	5.65	3.08	.74#	1.94	3.82	4.50	3.92	4.85	7.17	6.58	6.99A	55.40
1937-38	5.59	3.26	3.04	3.18	1.84	3.22	4.22	3.96	3.92	6.09	6.70	7.48	52.50
1938-39	6.75	5.90**	5.74	4.67	4.23	4.27	6.22	6.33	8.12	8.88	8.06	7.76	76.93**
1939-40	8.75	6.84	6.18	2.96	3.41	4.84	4.68	6.38	6.69	10.16	7.40	6.98	75.25
1940-41	7.12	7.00	4.58	2.80	2.36	3.93	3.79	7.15**	5.65	8.64	6.54	6.08	65.74**
1941-42	5.74	6.41	3.39	4.74	4.16	5.86	2.96	5.96	6.72	8.19	6.82	6.40	67.35
1942-43	5.49	5.78	4.51	4.73	4.02	2.80	3.66	6.38	6.80	7.26	6.91	7.27	65.61
1943-44	5.30	5.92	3.42	3.96	2.35	5.02	4.11	4.24	4.22	6.28	7.08	4.65	56.56
1944-45	4.55	2.97	3.98	3.11	2.64	3.16	4.30	4.58	3.32	5.64	7.56	8.30	54.11
1945-46	5.98	6.17	4.71	6.67	4.30	4.90	4.94	4.00	7.79	9.20	9.50	9.00	77.16
1946-47	6.87	4.34	4.33	5.58	3.90	4.36	5.16	5.40	5.21	10.24	8.12	7.98	71.49
1947-48	5.86	5.94	5.06	6.52	4.69	4.96	4.60	5.92	5.08	8.62	8.70	9.46	75.41
1948-49	6.12	8.70	4.18	3.66	3.22	3.36	5.21	5.10	6.33	6.96	8.51	8.97	70.32
1949-50	7.31	7.76	5.69	3.44	3.59	5.18	5.40	5.24	6.63	7.92	8.62	5.84	72.62
1950-51	7.49	8.06	6.51	4.36	4.02	6.22	3.73	5.86	6.01	7.98	8.06	7.52	75.82
1951-52	8.62	6.86	4.26	3.48**	4.88	3.44	4.08	6.15	5.12	8.58	8.68	10.14	74.29**
1952-53	7.48	5.12	4.14	5.17	6.94	5.51	3.96	6.76	5.30	8.48	9.12	7.90	75.88
1953-54	8.60	6.19	8.00	3.64**	5.64	3.54	3.52	4.11	4.85	7.60	7.08	8.40	71.17**
1954-55	6.90	6.54	5.80	3.40	4.80	5.26	6.26	4.26	5.08	7.05	8.98	9.08	73.41
1955-56	5.98	5.20	2.80	2.98	3.39	6.00	3.45	4.42	6.85	7.16	7.38	9.28	64.91
1956-57	5.06	8.56	6.90	3.38	2.48	4.26	4.03	3.92	6.55	8.80	8.50	6.95	69.41
1957-58	4.55	4.74	5.38	4.90	2.64	2.90	5.76	6.00	6.50	7.38	6.38	8.98	66.11
1958-59	7.62	5.66	6.20	4.40	3.20	6.20	5.12	4.97	6.08	7.02	6.60	5.22	68.29
1959-60	6.26	6.95	5.64	3.11	3.50	4.36	6.12	6.38	6.42	8.29	6.58	7.70	71.31
1960-61	6.32	4.57	5.46	6.46	4.83	4.60	5.26	4.92	5.82	6.54	6.80	6.54	68.12
1961-62	6.95	4.80	4.05	5.46	2.74	3.50	6.28	5.34	5.62	7.28	7.88	6.70	66.59
1962-63	5.20	4.28*	5.07	4.37	5.17	5.05	4.70	3.80	4.11	7.81	8.36	8.08	66.00**
1963-64	5.42	5.12	6.76	6.02	6.58	6.08	5.44	5.54	6.00	9.12	8.48	7.62	78.18
1964-65	7.50	5.24	3.81	4.70	4.90	4.16	5.14	5.92	4.74	8.50	7.90	6.36	68.87
1965-66	8.78	4.69**	4.02**	5.30	4.20	5.51	6.30	4.76	6.63	9.25	8.08	7.76	75.28**
1966-67	7.52	4.29**	4.68**	4.88**	6.00	4.19**	3.31	5.74	5.25	7.70	8.88	6.06	68.50**
1967-68	9.49	5.19	4.79	4.86	3.21	5.85	6.38	6.00	6.18	7.73	7.45	7.21	74.34
1968-69	6.45	5.86	4.40	2.45	N.R.	N.R.	N.R.	N.R.	N.I.	N.I.	N.I.	N.I.	INC.
1969-70	N.I.	INC.	5.23	4.71	5.67	5.80	6.64	7.18	6.50	8.76	8.62	10.58	INC.
1970-71	7.62	5.58	3.86	4.87	4.85	6.01	6.01	4.86	5.62	8.32	9.40	8.27	75.27
1971-72	8.06	5.54	4.19	5.20	5.16	6.30	6.94	6.60	6.64	10.15	8.58	7.08	80.44
1972-73	5.85	5.41	6.08	4.08	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.

* = AMOUNT ESTIMATED IS GREATER THAN 10% OF TOTAL
** = AMOUNT ESTIMATED IS LESS THAN 10% OF TOTAL
N.I. = NOT INSTALLED
N.R. = NO RECORD
# = 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. 460
BIG TUJUNGA DAM
24" DIAMETER SCREENED

SEASON	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1931-32	6.00	3.30	.52	.48	.60	5.42	5.95	6.22	8.02	10.60	9.98	8.68	65.85
1932-33	7.08	6.40	2.66	2.12	3.90	5.38	4.94	5.85	8.48	10.85	9.32	7.86	74.87
1933-34	6.78	5.22	1.80	3.12	2.40	5.20	6.45	7.58	6.08	9.28	8.72	6.94	69.56
1934-35	5.32	2.83	1.90	1.56	2.35	2.45	2.95	4.50	6.95	8.00	7.50	7.00	53.33
1935-36	5.60	2.98	2.58	2.45	1.25	4.02	4.35	6.90	7.65	8.80	9.25	7.58	63.48
1936-37	5.16	3.88	1.65	.58	1.28	2.65	4.50	5.20	7.22	9.18	9.02	8.32	58.06
1937-38	5.92	3.42A	2.82	2.52	1.52	2.08	3.66	5.44	7.15	9.18	9.22	8.03	60.98
1938-39	5.96	5.56	2.88	2.07	2.51	3.00	4.80	5.92	8.92	9.68	9.86	6.70	67.85
1939-40	4.88	3.88	2.58	1.70	1.92	3.33	4.01	6.12	8.82	10.78	10.15	7.58	65.73
1940-41	6.06	3.86	1.91	1.47	1.08	2.24	2.52	6.72	7.39	10.25	10.55	9.80	63.85
1941-42	6.86	6.92	2.76	4.20	4.30	6.69	4.08	8.02	9.42	15.08	13.82	12.12	94.27
1942-43	8.48	6.68	5.06	4.44	4.29	3.61	5.96	9.38	10.58	13.05	12.92	13.12	97.59
1943-44	9.35	6.78	2.20	3.61	2.13	5.32	5.42	6.28	6.94	10.98	12.29	8.86	80.18
1944-45	7.05	3.30	3.92	3.54	3.09	3.32	6.75	7.45	7.55	11.30	12.36	11.48	81.11
1945-46	7.88	5.68	3.50	6.40	4.44	4.56	6.54	7.00	12.30	13.75	14.78	13.15	99.98
1946-47	6.17	3.52	3.16	5.05	3.41	3.96*	5.86	7.52	8.12	14.18	11.12	9.87	81.96**
1947-48	7.48	6.20	4.13	5.70	3.65	3.98	4.86	6.98	7.50	12.28	12.65	11.50	86.93
1948-49	7.68	7.46	3.24	2.60	2.44	3.14	6.66	7.21	9.70	11.25	12.45	11.97	85.84
1949-50	7.35	3.42	4.02	2.57	3.82	5.58	6.44	7.40	8.92	11.62	13.15	8.66	82.95
1950-51	8.84	6.80	5.78	3.80	4.00	6.36	5.19	8.06	9.50	12.08	12.40	12.55	95.36
1951-52	9.18	5.08	3.14	2.27	4.34	3.09	4.92	9.12	8.28	12.60	12.68	11.12	85.82
1952-53	10.10	4.80**	3.20	4.36	5.97	5.36	5.33	7.63	8.62	12.02	12.42	11.00	90.83**
1953-54	9.02	5.65	6.27	3.28**	5.42	3.70	5.96	7.62	9.02	12.38	10.55	11.60	90.47**
1954-55	9.20	6.35	4.43	3.09	4.26	5.38	7.07	6.16	8.55	10.72	12.16	11.72	89.09
1955-56	8.75	5.20	2.60	3.14	3.50	6.92	4.44	5.92	8.75	11.25	11.75	12.03	84.25
1956-57	6.50	8.52	6.68	2.34	2.56	4.14	4.98	4.62	9.82	12.70	11.88	10.02	84.78
1957-58	4.94	4.31	4.02*	4.37	2.43	2.21**	5.19	7.00	7.82	10.48	10.66	10.26**	73.69**
1958-59	8.46	5.54	5.80	3.88	2.88	6.58	5.92	5.82	8.72	10.06	10.05	7.66	81.37
1959-60	7.56	6.85	4.96	2.84	3.48	5.03	6.94	7.14	10.28	11.30	10.80	9.85	87.05
1960-61	7.23	4.15	4.92	5.08	4.34	4.88	6.24	6.35	8.82	9.28	10.16	8.75	80.20
1961-62	8.10	5.28	3.26	4.98	2.32	3.46	6.92	6.18	8.07	10.62	11.68	9.34	80.23
1962-63	7.02	5.32	4.88	3.77	4.29	4.86	4.52	5.25	5.62	11.03	10.38	8.73	75.67
1963-64	5.94	4.66	5.12	4.47	5.51	5.02	4.83	6.16	7.90	11.48	10.82	9.78	81.69
1964-65	8.12	4.46**	3.61	3.71**	4.38	4.10	4.54**	6.54	5.64	9.91	10.43	7.71	73.15**
1965-66	8.68	4.17**	2.96	3.78	3.42	5.43	6.40	6.30	8.20	10.65	10.33	8.50	78.82**
1966-67	7.28	3.82**	3.32**	4.00	4.61	3.86**	2.66	5.77	5.83	9.90	10.70	7.47	69.22**
1967-68	9.83	4.69	3.90	3.55	2.89	5.30	6.12	6.62	8.68	9.70	9.22	8.85	79.35
1968-69	6.59	5.29	3.58	2.39	1.66	4.36	5.50	6.60	5.48	8.36	11.78	8.30	69.89
1969-70	7.52	5.45	3.83	3.38	4.04**	4.66	5.65	7.22	8.14	12.95	11.22	10.80	84.86
1970-71	7.34	5.48	2.50	4.26	4.88	5.97	INC.	IC.	INC.	INC.	INC.	INC.	INC.
1971-72	INC.	5.72	3.82	7.08	4.80	7.17	6.84	7.76	9.08	12.26	4.58	7.85	INC.
1972-73	5.37	4.46	4.33	3.73	2.60	3.18	6.07	6.70	8.91	10.68	9.20	9.00	74.22

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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. 576
OPID'S (CAMP HI HILL)
24" DIAMETER SCREENED

SEASON	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1931-32	2.14	1.38#	1.78#	. #	. #	1.82	3.31	4.30	5.37	7.94	7.68	5.45	41.17#
1932-33	3.06	2.02	.26#	. #	. #	.01#	2.46	3.46	4.96	6.92	6.72	5.10	34.97#
1933-34	2.96	.86	.10#	2.05#	2.70#	.92	3.81	5.26	5.22	6.84	6.50	2.24	39.49
1934-35	1.71	1.20	.24#	.02#	.12#	.28#	1.82	2.62	4.48	5.58	5.32	4.20	27.59#
1935-36	5.56	2.19	.70#	1.28#	.62#	2.05#	2.66#	5.46	6.05	8.05	7.31	6.20	48.15#
1936-37	3.89	2.29	.66#	. #	. #	1.32	2.95	6.04	8.34	10.66	11.21	7.91	55.27#
1937-38	4.94	1.90	1.30#	.98#	.26#	1.05#	3.12	5.14	7.19	8.83	8.06	5.45	48.26#
1938-39	2.25	1.84	.94	.24#	. #	.78#	4.28	5.74	7.68	8.00	8.04A	3.84	43.63#
1939-40	2.29	1.12	.60#	.15#	.26#	1.62#	2.54	5.13	6.82	8.40	8.09	4.43	41.46#
1940-41	2.55	1.10	.30#	.04#	.09#	.79#	1.96	5.42	5.96	7.40	5.96	3.96	35.45#
1941-42	3.21	.29	.12#	.34#	.24#	1.36	.78	4.79	6.60	8.56	6.70	5.86	38.95#
1942-43	2.22	.57	.40	.14#	.12#	.86	2.40	5.26	6.20	8.22	7.93	6.02**	40.36#**
1943-44	3.08	1.68	.26#	.22#	.03#	1.52#	3.44	5.27	5.07	6.72	7.81	5.77	43.87#
1944-45	2.87	.42	.42#	.06#	.40#	.32#	4.18	5.34	6.34	9.10	7.65	6.20**	43.30#
1945-46	2.61	.83#	.42#	.32#	.18#	1.20#	3.52	4.20**	7.30**	8.70	9.20	4.72	43.20#**
1946-47	1.96	.40	.65#	.04#	.32#	1.20**	2.72	N.R	N.R	N.R	N.R	5.02	INC.
1947-48	2.42	1.18	.57#	.78#	.14#	.63	2.02	4.17	4.96	7.34	7.68	5.94	37.83#
1948-49	2.57	2.10	.34#	. #	. #	.85#	3.94	4.42	5.92	7.71	7.73	6.78	42.06#
1949-50	3.57	1.66	.20#	. #	.46#	2.12	3.84	5.44	7.36	8.38	9.09	5.26	47.42#
1950-51	3.26	1.50	1.02	.30#	.33#	1.53#	2.37	5.14	6.88	8.63	8.78	6.90	46.64#
1951-52	3.66	.90#	. #	. #	.30#	.25#	2.39	6.58	5.82	8.06	9.32	5.28	42.56#
1952-53	3.64	.56#	.07#	.57#	.70#	1.44#	2.62**	4.34**	5.95	9.30	8.12	6.73	44.04#**
1953-54	3.64	.96	1.40#	1.40#	1.40#**	.92#	3.64	5.44**	6.50	8.33	7.36	5.80	46.43#**
1954-55	3.74	1.04	.40#	. #	. #	1.08#	3.50	3.86	6.55	7.26	8.30	7.80	43.53#
1955-56	4.60	1.39	.12#	.22#	.10#	2.67#	1.02#	4.20	7.58	8.13	7.60	6.15	43.78#
1956-57	2.32	2.12	2.42	.08#	.73**	1.58**	2.80	3.10**	6.40	8.30	6.75	4.68	41.28#**
1957-58	2.10*	1.20*	.90*	.62#	. #	. #	2.90*	4.80*	6.38	7.22	7.85	6.52	40.49#*
1958-59	3.25**	1.02#	1.42	.83*	.15#	2.35	3.42**	4.20	6.85	8.15	7.64	4.38	43.66
1959-60	3.15	2.06	.69#	INC. #	INC. #	2.00**	3.93*	4.30	7.60	7.72	7.35	5.22	INC.
1960-61	2.80	. #	. #	1.19	1.15	1.84	3.94	4.95	7.50	8.75	7.25	5.25	44.62#
1961-62	3.26	2.06	.49#	.40#	. #	.62*#	5.00	4.23	6.30	8.38	8.58	6.25	45.57
1962-63	3.04	1.60	.98#	.70	1.47*	1.85**	2.32**	4.60	5.18	8.30	7.86	4.28	42.18**
1963-64	2.16**	1.02**	1.01	INC.#	INC.#	INC.#	2.87	4.30	6.32	8.35	7.90**	5.75	INC.
1964-65	3.33**	INC.#	INC.#	INC.#	INC.#	1.58**	INC.#	4.90	5.16	7.20	7.41	4.34	INC.
1965-66	3.58	1.41**	INC.#	INC.#	INC.#	INC.#	4.15	IC.	INC.	INC.	7.71	4.87	INC.
1966-67	2.82	.73*	INC.#	INC.#	INC.#	1.10**	INC.#	4.89	5.47	8.25	7.73	4.37	INC.#
1967-68	3.76	.89**	INC.#	INC.#	INC.#	1.86	3.53	5.16	6.60	7.19	6.19	5.60	INC.#
1968-69	2.31	1.26	INC.#	INC.#	INC.#	INC.#	3.25	4.81	5.32	6.82	7.95	5.23	INC.#
1969-70	2.76	1.43**	C.50**	0.85	INC.	1.69**	3.09	5.00	5.85	6.86	6.79	5.67	INC.
1970-71	2.64	1.20	INC.#	INC.#	INC.#	INC.#	3.21	3.24	5.02	6.90	7.05	5.47	INC.#
1971-72	2.62	8.00	INC.	INC.	INC.	2.90	3.93	5.06	6.12	8.40	6.65	4.16	INC.
1972-73	2.01	1.98	. #	. #	.. #	0.78	3.62	5.50	7.01	8.54	7.50	5.38	INC.

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N.R. = NO RECORD
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. 630
SANTA ANITA DAM
24" DIAMETER SCREENED

SEASON	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1929-30	5.40	5.38	4.40	1.60	2.00*	2.96	5.24	4.67	6.26	9.40	8.48	6.28	62.08**
1930-31	6.98	6.29	5.99	3.56	2.45	5.95	4.82	4.56	6.10	7.82	6.98	6.88	68.38
1931-32	5.18	3.86	2.68	3.04	2.38	4.34	5.47	4.64	5.54	6.88	7.64	5.56	57.21
1932-33	5.93	6.60	3.49	3.54	3.41	4.81	4.42	4.37	5.50	5.99	5.36	4.15	57.57
1933-34	4.12	4.81	2.68	3.38	2.01	3.72	3.70	4.16	2.84	4.46	4.44	4.62	44.94
1934-35	6.40	4.28	4.08	3.28	4.41	3.47	3.73	4.46	6.14	9.02	9.20	7.26	65.73
1935-36	6.71	5.18	4.58	4.28	2.35	4.78	4.62	6.97	7.36	8.36	8.32	7.74	71.25
1936-37	6.09	6.54	3.94	1.99	2.38	4.04	5.26	4.68	5.24	7.90	8.08	7.55A	63.69
1937-38	6.02	3.73	4.22	3.96	2.49	3.00	3.71	4.37	4.44	6.10	7.00	7.00	56.04
1938-39	5.15	4.72	2.77	2.30	2.05	2.28	3.82	4.48	5.89	6.28	6.47	6.26	52.47
1939-40	5.87	4.74	4.04	2.06	2.48	3.72	3.31	5.00	5.06	7.68	6.34	6.06	56.36
1940-41	5.31	4.74	3.47	2.38	1.66	3.26	2.78	5.01	4.32	6.28	5.38	5.30	49.89
1941-42	4.62	5.20	2.40	3.10	2.85	4.22	2.28	3.94	3.42	6.33	5.22	5.46	49.04
1942-43	4.58	4.19	3.70	3.67	2.70	1.88	2.68	4.94	5.26	6.38	6.48	6.30	52.76
1943-44	4.77	4.92	2.17	2.61	1.77	3.42	3.70	3.67	3.37	5.48	6.92	5.02	47.82
1944-45	3.82	2.50	3.50	3.46	2.02	2.04	3.67	3.94	2.58	5.10	6.25	5.30	44.18
1945-46	3.56	4.42	3.06	4.24	3.15	3.08	3.30	2.60	5.92	6.08	5.80	5.38	50.59
1946-47	3.93	2.87	2.88	3.72	2.82	2.94	3.20	2.68	3.40	7.84	6.28	5.16	47.72
1947-48	3.88	4.20	3.50	4.78	3.29	2.94	3.11	3.76	3.39	5.76	5.30	5.14	49.05
1948-49	3.63	4.48	2.70	2.00#	1.71	2.36	3.90	3.35	4.54	4.87	5.95	5.90	45.39#
1949-50	4.86	6.09	4.00	2.24	2.42	3.11	3.29	2.80	4.12	5.34	5.90	3.83	48.00
1950-51	5.52	4.66	4.71	2.92	3.02	4.24	2.24	3.27	3.66	5.04	5.02	4.54	48.84
1951-52	5.18	3.44	2.42	2.18	3.50	2.52	2.25	4.30	3.68	5.46	5.54	5.82	46.29
1952-53	4.28	3.08**	2.56**	3.52	4.46**	3.46**	2.64	4.72	3.94	6.02	5.60	4.79	47.07**
1953-54	5.67	3.97	4.38	2.42**	4.36**	3.02**	2.34	2.82	3.42	5.30	4.60	5.23	47.53**
1954-55	4.44	3.77	3.49	2.60	3.38	3.44	4.18	2.54	3.38	4.26	5.15	5.84	46.47
1955-56	3.30	3.20	1.67	2.24	2.47	4.03	2.20	2.96	4.10	4.47	4.51	5.64	40.79
1956-57	3.16	5.12	4.16	2.05	1.60	2.59	2.69	2.42	3.90	5.24	5.64	3.94	42.51
1957-58	2.62	2.57	2.98	3.02	1.98	2.04**	3.46	3.62	4.15	4.76	4.06	5.36	40.62**
1958-59	4.84	4.02	4.12	3.10	2.26	4.75	3.38	3.00	3.96	5.44	4.86	3.34	47.07
1959-60	4.28	4.61	3.66	2.16	2.70	3.12	4.05**	4.02	4.00	5.62	4.77	4.94	47.93**
1960-61	4.12	3.13	4.16	4.58	3.60	3.25	3.92	3.38	3.87	5.14	4.86	4.38	48.37
1961-62	4.74	3.67**	2.98**	3.84	1.97	2.36	3.58	3.06	2.88	4.54	5.13	4.34	43.09
1962-63	3.34	4.24	3.04	2.58	2.50**	2.86**	2.53	2.40	3.46	7.96	7.79	7.62	49.32**
1963-64	5.45	4.20	5.78	4.36**	5.62	4.42**	4.52**	4.88	4.96	8.15	7.46	7.50	67.30**
1964-65	6.84	4.39**	2.91**	3.70**	4.02**	3.43**	3.77**	4.62	3.27	7.15	7.48	5.88**	57.46**
1965-66	8.56	3.88**	3.50**	4.26	3.54**	4.45	5.21	3.96	6.08	8.01	7.06	6.42	64.93**
1966-67	6.49	4.04**	3.70	3.45	4.06	3.84	2.72	5.42	4.52	7.61**	8.75	5.93	60.53**
1967-68	9.01	5.15	4.19	4.91	3.47	5.93	5.81	4.23	5.36	7.83	7.51	7.80	71.20
1968-69	5.20	4.52	3.81	2.84	2.13	4.06	4.14	4.16	2.64	6.20	7.23	5.72	52.65
1969-70	5.76	5.61	4.19	2.66	4.38	4.21	4.81	4.72	3.96	6.14	6.76	7.06	60.26
1970-71	4.88	4.40	2.76	4.15	3.80	3.72	3.97	3.70	4.14	6.05	6.95	6.00	54.52
1971-72	6.44	3.58	2.68	3.40	3.48	3.58	4.77	4.66	4.44	7.28	6.46	5.23	56.00
1972-73	4.08	3.62	3.92	4.58	2.22	2.41	2.22	3.84	5.72	6.38	6.04	4.95	49.98

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MONTHLY EVAPORATION SUMMARY
STATION NO. 898
SAN DIMAS DAM
24" DIAMETER SCREENED

SEASON	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1934-35	7.28	2.98	1.68	.64	.58	.65	.64	1.25	2.78	3.02	4.87	5.39	31.76
1935-36	5.22	3.23	1.94	1.86	.78	2.63	2.62	4.42	5.31	6.26	7.26	7.01	48.54
1936-37	5.36	3.79	1.54	.34#	.90	2.04	2.80	3.27	4.75	7.71	8.46	7.72A	48.68#
1937-38	6.64	2.85	2.84	1.58	.48	.94	1.79	1.54	1.94	3.26	4.46	5.25	23.57
1938-39	3.88	4.46	1.68**	.60	.61	.60	.97	.98	1.82	5.70	4.88	3.94	30.13**
1939-40	4.64	4.26	2.64	1.34**	.90**	1.70**	1.40*	2.56	4.48	7.00	7.75	7.80	46.49**
1940-41	7.96	5.84	3.82	1.74	2.44	2.69	2.80	6.09	4.64	8.85	8.40	8.22	63.49**
1941-42	5.74	4.96	2.27	2.72	1.66	2.46	2.02	3.85	5.38	9.20	9.45	7.42	57.13
1942-43	6.20	5.40	2.82	1.80	1.20	.96	1.44	4.48	6.12	8.40	8.85	8.85	56.52
1943-44	6.02	3.70	1.52	1.35	.97**	1.02	1.40	2.85	4.36	6.28	7.35	5.50	42.32
1944-45	4.42	1.92	1.42	1.08	.66**	.45	1.92	1.85	3.52	7.65	7.82	7.20	39.91**
1945-46	4.00	1.96	.72	1.50	.80	1.32	2.20	1.22	6.38	6.45	6.65	6.55	39.75
1946-47	2.26	1.38	.86	1.50	1.60	1.41**	1.96	2.52	4.94**	8.95	7.05	6.25	40.70**
1947-48	2.18	2.32	1.76	3.95	1.98**	1.98	2.34*	3.69	5.24	7.66	7.71	7.12	47.93**
1948-49	4.44	3.88	1.44	.88	1.06	1.97	3.50	4.17	6.18	7.48	7.69	6.23	48.92
1949-50	4.42	3.44	1.96	1.10	1.50	2.75	3.42	4.28	6.16	7.60	7.74	5.04	49.41
1950-51	5.14	3.26	2.51	1.65	1.95	3.56	2.82	5.45	5.88	7.52	7.92	6.08	53.74
1951-52	4.98	2.48	1.42	1.15	2.06	2.12	2.58	5.88	5.67	8.10	8.12	6.56	51.12
1952-53	4.78	2.11**	1.28	1.48	2.84	3.04	2.98	5.46	5.59	8.27	8.06	6.43	52.37**
1953-54	4.82	2.74	2.90	1.46	2.72	2.22	2.98	4.50	5.01	7.67	6.54	6.35	49.91
1954-55	4.54	2.69	1.92	1.28	2.18	3.08	4.34	3.67	5.28	6.69	7.42	7.04	50.13
1955-56	3.92	2.43	1.16	1.44	1.74	3.76	2.97	3.96	6.05	6.93	6.97	6.45**	47.78**
1956-57	3.09	3.34	2.38	1.39	1.22	2.16	2.96	3.11	5.12	7.40	7.64	5.42	45.23
1957-58	2.76	2.11	1.69	2.01	1.22**	1.64	3.20	2.75	5.60	6.60	5.80	5.95	43.33**
1958-59	4.62	2.94	2.69	1.96	1.76	3.85	3.85	4.12	5.88	7.56	6.88	4.40	50.51
1959-60	4.05	3.40	2.26	1.48	1.88	2.63	4.40	5.09	6.10	8.32	6.96	6.32	52.91
1960-61	3.92	1.88	2.08	2.34	2.26	2.68	4.30	4.66	6.18	7.74	7.18	5.58	50.53
1961-62	4.60	2.54	1.30	2.08	1.33	1.80	4.34	4.41	5.08	7.13	7.64	5.76	48.01
1962-63	3.65	2.62	2.28	1.76	2.20**	2.92**	3.66	4.00	4.08	7.47	6.99	5.75	47.38**
1963-64	3.38	2.07	2.18	1.90**	3.01	3.20	3.67**	4.61	5.00	7.96	6.82	5.66	49.46**
1964-65	4.52	2.40	1.30**	1.62	2.25	2.72	3.44	4.66	3.88	INC.	INC.	INC.	INC.
1965-66	N.R.	2.19**	1.73**	1.98	2.03	3.20	6.63	4.66	6.37	8.27	7.59	5.86	INC.
1966-67	4.60	2.22	1.58	1.73**	2.68	2.59	2.45	4.99	4.42	7.69	7.87	4.84	47.66**
1967-68	5.51	2.67**	1.89	1.75	1.61	3.49	4.34	5.03	5.92	7.57	7.05	5.90	52.73**
1968-69	3.96	2.78	1.93	1.44	1.26	2.86	3.73	4.64	3.70	7.24	8.99	5.92	48.45
1969-70	4.56	2.87	2.16	1.37	3.36	3.27	4.42	5.98	5.88	8.81	8.86	8.22	59.76
1970-71	4.50	3.02	1.38	2.02	2.56	3.44	4.17	4.46	6.47	8.96	9.14	7.14	57.26
1971-72	5.73	2.79	1.64	1.82	2.60	3.74	5.08	6.00	6.54	9.75	7.50	5.33	58.52
1972-73	3.68	2.21	2.09	1.51	1.32	1.98	4.25	5.16	7.40	7.83	7.00	4.98	49.41

** = 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. 968
PUDDINGSTONE DAM
24" DIAMETER SCREENED

SEASON	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1929-30	7.90	7.73	5.32	2.29	2.76	3.60	4.52	4.64	6.73	11.65	10.52	7.37	75.03
1930-31	7.43	3.30	5.24	3.25	1.67	5.78	5.27	5.86	7.29	10.17	9.16	8.66	73.08
1931-32	6.04	3.74	2.32	2.24	1.60	4.20	3.47	5.50	6.65	9.42	9.30	6.70	63.18
1932-33	6.53	6.76	3.38	3.30	3.88	5.32	5.18	6.16	7.25	10.06	9.38	6.58	73.78
1933-34	6.99	7.32	4.18	4.10	2.68	4.44	4.74	8.82	6.39	9.99	9.67	8.55	77.87
1934-35	6.46	3.67	3.50	2.72	2.65	3.32	3.84	5.73	6.72	9.48	7.68	7.68	65.61
1935-36	6.68	5.19	4.35	3.96	2.46	3.87	4.66	7.61	8.60	10.10	10.78	9.24	77.50
1936-37	7.38	6.72	3.91	2.35	2.15	3.33	5.50	5.76	7.58	10.24	9.72	8.95	73.59
1937-38	6.96	4.33	3.86	3.52	2.18	3.00	3.82	4.82	6.50	9.30	9.76	8.88	66.95
1938-39	7.41	6.34	4.26	3.00	3.37	2.98	5.02	5.85	8.58	10.12	8.64	7.64	73.21
1939-40	6.33A	4.42	3.86	2.03	2.60	3.69	3.80	4.45	4.79	7.30	8.30	6.94	58.51
1940-41	6.28	4.92	5.02	3.72	2.58	3.66	3.65	5.95	5.95	8.34	7.78	5.62	63.47
1941-42	5.32	5.28	3.36	3.98	3.08	4.10	2.88	4.30	5.02	7.75	8.40	6.52	59.99
1942-43	6.08	4.30	3.72	3.38	3.30	2.95	3.76	5.68	7.25	8.72	7.38	7.42	63.96
1943-44	5.60	4.92	2.02	2.12	1.96	2.87	3.52	4.30	4.99	6.91	8.00	5.98	53.19
1944-45	4.52	2.60	3.16	2.55	2.08	2.06	3.30	5.48	4.88	7.43	7.54	7.12	52.72
1945-46	4.36	4.12	2.92	3.54	2.14	2.91	3.50	3.92	7.55	8.45	8.72	7.52	59.65
1946-47	4.56	2.62	2.18	2.66	2.40	2.68	3.52	3.98	4.70	8.28	7.32	5.86	50.76
1947-48	4.28	3.52	2.80	3.22	2.83	2.73	3.16	4.87	4.96	7.44	6.39	5.98	52.18
1948-49	4.00	4.21	2.33	2.05	1.40	2.18	3.42	4.20	5.86	6.14	6.61	5.88	48.28
1949-50	4.36	3.97	2.78	1.62	1.42	2.14	3.01	3.58	5.22	6.22	6.72	4.32	45.36
1950-51	5.36	3.47	3.12	2.52	2.22	3.37	2.33	3.86	4.76	6.60	6.51	5.28	49.42
1951-52	5.02	3.36	2.29	1.84	2.72	2.58	2.66	4.85	5.02	6.72	7.02	6.72	50.80
1952-53	4.59	3.66**	2.52	2.54	4.40	3.40	3.30	5.74	5.20	7.47	6.96	5.90	55.68**
1953-54	6.04	3.98	4.34	2.38	3.86	3.30	3.33	4.98	5.70	7.58	6.40	5.67	57.56
1954-55	3.76	2.79	2.36	1.84	2.70	2.98	4.10	3.34	4.62	5.55	5.88	5.90	45.84
1955-56	3.46	3.25	1.72	1.78	1.84	3.48	2.48	3.83	5.25	5.45	5.38	5.50	43.42
1956-57	3.45	4.32	2.87	1.66	1.20	1.88	2.52	3.00	4.80	6.40	6.16	4.32	42.58
1957-58	2.82	2.06	2.21	1.96	1.41	1.82	2.71	3.73	4.97	5.43	5.04	5.04	39.22
1958-59	4.42	3.02	2.89	1.86**	1.65	3.08	2.94	3.62	4.46	6.04	5.53	3.50	43.01**
1959-60	3.90	3.80	2.96	1.85	1.74	1.88	3.15	4.00	4.58	6.06	5.34	4.82	44.08
1960-61	3.52	1.68	1.66	1.57	1.64	2.08	2.85	4.32	5.34	6.68	6.74	5.47	43.55
1961-62	4.78	3.15	2.00	2.31	1.25	2.28	4.06	4.38	4.34	6.61	7.82	5.80	48.78
1962-63	4.08	3.06	2.74	2.32	2.39**	3.34**	3.84	4.13	4.33	7.49	7.13	6.18	51.03**
1963-64	3.77	2.80	3.26	2.60**	3.44	3.80**	4.27	5.02	5.24	8.22	7.20	5.93	55.55**
1964-65	4.99	3.03	1.81**	2.21**	2.58	3.01**	3.51**	4.90	3.88	7.14	7.06	5.05	49.17**
1965-66	6.11	2.44**	2.28**	2.72**	2.31**	3.60	4.63	4.53	6.07	8.04	7.38	5.96	56.07**
1966-67	4.69	2.64**	2.69	2.57	3.37	3.25**	3.00	5.36	5.18	8.57	8.91	5.91	56.14**
1967-68	6.35	3.23**	2.75	2.78	2.02	4.36	5.30	5.94	6.86	9.22	8.78	7.44	65.03**
1968-69	5.02	3.85	2.84	1.86	1.86	3.42	3.47	5.19	4.12	8.15	9.64	6.94	57.26
1969-70	5.88	3.96	1.84	1.69	3.01	3.64	5.46	6.31	6.24	9.38	9.18	7.96	64.55
1970-71	4.66	3.06	1.82	2.24	2.50	3.52	4.99	5.11	6.80	9.65	10.16	8.05	62.56
1971-72	6.66	2.93	2.40	2.62	3.04	3.98	5.84	6.42	6.94	10.04	9.00	6.17	66.04
1972-73	4.33	2.97	3.05	2.56	1.42	2.51	4.92	5.64	8.05	8.40	7.84	5.89	57.57

** = AMOUNT ESTIMATED IS LESS THAN 10% OF TOTAL
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. 223B
BIG DALTON DAM
24" DIAMETER SCREENED

SEASON	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1930-31	10.22	9.17	5.84	4.66	3.86	8.86	7.74	8.02	9.80	12.76	11.97	11.16	104.06
1931-32	7.32	5.08	3.02	3.21	2.71	6.02	7.20	7.15	8.41	11.02	11.84	8.88	81.82
1932-33	6.78	7.88	3.10	4.25	4.35	6.47	5.51	6.60	9.39	10.92	10.22	7.78	83.25
1933-34	8.03	7.99	3.22	4.52	2.84	6.42	7.08	9.42	6.76	12.15	11.36	11.02	90.81
1934-35	7.02	3.77	3.52	2.87	4.16	3.25	4.42	5.72	8.30	10.45	10.42	7.82A	71.72
1935-36	6.50	4.12	3.28	2.88	1.85	4.05	4.10	7.00	8.24	9.32	9.55	8.45	69.34
1936-37	6.22	5.00	2.92	1.50	1.92	3.28	5.75	5.00	6.60	9.40	9.40	8.25	65.24
1937-38	6.98	3.80	3.22	3.40	2.65	2.12	2.65	3.45	6.08	8.95	8.80	7.53	59.66
1938-39	5.28	4.65	4.08	2.98	3.48	2.48	3.55	4.28	6.32	7.70	7.88	6.98	59.62
1939-40	4.85	3.75	2.82	1.55	2.25	3.22	2.65	5.58	6.40	9.85	8.42	6.78	58.12
1940-41	5.02	2.75	1.74	1.45	.78	1.88	2.55	5.18	5.22	8.50	6.32	5.65	47.04
1941-42	4.00	3.35	1.55	1.72	2.30	3.25	2.22	4.80	4.80	5.48	8.18	6.55	52.20
1942-43	4.72	4.48	3.83	3.34	2.80	1.73	3.20	5.37	6.12	8.88	8.30	7.96	60.73
1943-44	5.06	4.75	1.81	1.10	1.43	3.50	3.06	3.23	3.38	6.51	9.71	7.13	50.69
1944-45	3.99	.86	1.14	3.10	2.02	.64	2.88	2.63	2.91	6.78	6.81	5.01	38.77
1945-46	4.98	1.04	.74	1.30	.55	.90	1.46	1.60	6.14	8.28	8.69	6.26	41.94
1946-47	4.15	2.23	1.30	2.73	2.04	1.36	2.32	4.26	4.28	9.00	7.14	5.99	46.80
1947-48	4.17	3.78	2.94	3.20	2.83	2.10	3.12	3.74	4.32	6.70	7.49	6.89	51.28
1948-49	3.40	2.92	.98	1.18	1.38	1.37	3.38	3.38	5.93	7.05	6.80	6.72	44.49
1949-50	4.22	3.02	1.80	.86	1.51	2.76	2.71	3.74	5.88	7.40	6.79	5.14	45.83
1950-51	4.93	3.04	2.22	1.40	1.86	3.07	2.56	3.85	4.88	7.37	6.94	6.63	48.77
1951-52	4.83	2.31	1.46	1.08	2.01	2.07	2.36	5.62	5.48	7.81	7.80	6.10	48.93
1952-53	4.64	2.08	1.17**	1.50**	3.27	2.81	2.70	4.58	4.62	7.05	6.77	5.43	46.62**
1953-54	4.41	2.31	2.52	1.37	2.46**	2.42	2.73	3.98	4.47	6.64	6.14	5.70	45.15**
1954-55	4.04	2.35	1.55	1.33	2.06	2.74	3.96	3.16	4.36	5.94	6.78	6.36	44.63
1955-56	3.76	2.28	1.02	1.08	1.68	3.10	2.63	3.34	5.27	6.10	6.06	5.96	42.28
1956-57	3.07	2.91	2.08	.96	1.08	1.88	2.72	2.84	4.41	6.80	7.14	5.26	41.15
1957-58	2.38	1.64	1.20	1.57	1.01	1.17	2.82	4.38	5.87	6.50	5.76	5.29	46.45
1958-59	4.12	2.46	2.48	1.68	1.44	3.56	3.64	3.75	5.44	7.26	6.54	4.08	46.45
1959-60	3.66	3.03	1.96	1.14	1.59	2.10	3.54	4.52	5.60	8.08	7.72	7.34	50.28
1960-61	5.11	2.44	3.12	3.16	3.20	3.24	5.19	5.73	7.14	9.01	8.27	6.74	62.35
1961-62	6.04	3.83**	2.02	3.06	1.30**	2.18**	5.22	5.24	5.94	4.48	9.11	7.18	55.60
1962-63	4.63	3.58	3.08	2.24	2.73**	3.25**	3.27	3.88	4.10	7.98	7.40	5.77	51.91**
1963-64	3.56	2.28	2.74	2.60**	3.73	3.50**	3.52**	4.16	5.28	8.28	7.26	6.42	53.33**
1964-65	5.15	2.85**	1.79**	1.87**	2.55	2.80	3.10**	4.43	3.76	7.24	7.54	5.17	48.27**
1965-66	5.79	2.53**	1.90**	2.56**	2.30**	3.28	4.49	4.45	5.99	8.48	7.89	5.86	55.52**
1966-67	4.94	2.20	1.85	2.02	2.89	2.27**	2.12**	4.66	4.00	7.70	7.78	4.38	46.81**
1967-68	5.93	2.95	2.39	2.19	1.74	3.46	4.72	5.08	5.88	7.42	7.07	6.12	54.95
1968-69	4.02	3.28	2.55	1.82	1.41	2.77	3.36	4.31	3.80	6.82	7.68	6.15	47.97
1969-70	4.94	3.81	2.64	1.80**	2.58**	2.70**	3.99	4.72	5.08**	7.42	7.38	6.63	50.69**
1970-71	4.10	3.14**	1.45**	2.48	2.38**	2.74**	3.68	4.10	4.45	6.32	7.00	5.98	47.83**
1971-72	5.22	2.90	1.98	2.14	2.32	2.89	4.12	4.66	4.88	7.68	6.32	4.36	49.47
1972-73	3.26	4.75	2.22	1.72	1.58	1.17	3.34	3.67	4.90	6.25	5.40	4.24	42.50

** = AMOUNT ESTIMATED IS LESS THAN 10% OF TOTAL
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	7.88	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	6.10	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	6.58	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	5.43	8.82	7.92	6.98	72.39
1964-65	5.86	5.04	3.48	3.56	3.97	3.43	3.96	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	4.87	6.21	8.31	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	6.66	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	2.66	3.34	5.86	5.16	6.99	6.98	6.97	6.00	64.08

* = 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	4.61	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	9.36	8.52	11.70	12.03	11.12	85.99
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	93.01**
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*	9.49	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	9.86	7.61	82.60
1942-43	6.11A	4.86	3.40	3.52	3.36	3.35	5.66	8.68	9.48	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	6.60	8.19	6.66	9.55	10.89	8.82	72.32
1945-46	5.48	4.35	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	2.46	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	5.67	62.99
1950-51	6.06	4.18	3.22	2.25	2.59	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.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.
1962-63	4.58*	4.35*	3.60	3.42	3.32	5.27	4.89	5.04	5.94	8.81	8.66	7.46	65.34*
1963-64	5.60	3.86	4.59	4.63	5.49	5.40	5.78	6.44	6.72	9.88	8.96	7.42	74.77
1964-65	6.22	4.14	2.79	2.93	3.97	3.73	4.21	7.00	6.14	8.61	8.73	6.97	65.44
1965-66	6.94	4.27	2.67	3.54	2.91	4.74	6.24	6.00	7.71	9.84	9.11	7.31	71.28
1966-67	6.57	3.12	3.05	3.43	4.11	4.04	4.39	6.75	6.37	9.00	9.44	6.72	66.99
1967-68	7.21	3.67	3.21	3.13	2.48	5.13	6.68	7.17	7.66	9.30	8.91	8.05	72.60
1968-69	5.42	4.99	3.27	2.52	1.92	4.48	6.52	6.00	5.96	8.87	10.82	7.58	68.35
1969-70	7.01	4.79	3.29	2.54	2.06	6.58	7.07	7.70	7.90	10.15	10.13	8.99	78.21
1970-71	6.02	4.78	2.60	2.82	4.00	5.16	5.88	6.51	7.03	9.38	10.14	7.98	72.30
1971-72	6.82	3.85	3.52	3.20	3.48	5.29	6.07	7.12	6.97	9.71	8.54	6.49	71.06
1972-73	4.88	3.20	4.04	2.62	1.47	3.01	5.35	5.76	7.66	8.32	7.76	5.71	59.78

* = 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	7.36	INC.
1953-54	8.34	6.86	5.28	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	5.51	8.95	84.31
1955-56	6.32	6.50	2.91	3.00	3.76	7.62	4.22	5.86	6.96	8.73	8.07	8.96	72.93
1956-57	5.66	11.54	9.89	3.31	2.61	5.84	4.64	5.11	8.22	9.92	9.36	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	8.82	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	7.16	78.98
1962-63	5.86	5.08	5.84	4.77	5.78	5.88	5.26	4.94	4.86	8.50	8.49	8.45	73.71
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	70.48
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	7.30	7.37	6.92	8.94	9.11	8.73	80.88
1968-69	6.39	7.13	5.47	3.42	2.21	5.66	6.50	5.66	5.22	8.73	10.30	7.59	74.28
1969-70	8.67	7.20	5.02	4.16	2.06	7.87	7.79	8.04	6.97	9.70	9.58	9.82	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

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	90.60
1932-33	8.67	6.51	2.96	1.72	3.46	5.67	6.35	7.76	9.82	12.79	12.25	10.32	88.30
1933-34	8.32	6.26	3.10	3.96	3.13	6.43	8.46	10.61	8.70	13.08	12.18	10.06	94.23
1934-35	6.51	3.63	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	8.86	10.48	11.55	11.66	9.40	82.31
1936-37	6.44A	4.72	2.54	1.36#	1.60	3.10	5.60	6.72	8.48	12.05	10.78	8.08	71.55#
1937-38	5.66	2.92	3.11	2.44	1.62	2.62	4.92	6.00	8.12	5.72	9.06	7.22	63.45
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	10.06	9.54	7.55	59.01
1941-42	4.09	2.46	1.18	2.66#	2.65	5.00	5.06	8.30	11.77	14.08	11.96	9.05	78.26
1942-43	7.24	4.62	3.16	2.76	3.04	3.84	5.52	10.45	10.15	12.20	12.00	10.10	85.10
1943-44	6.86	4.88	4.57	3.00	3.79	5.47	6.26	7.88	8.15	12.32	12.82	10.92	86.96
1944-45	7.40	3.86	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	3.06	3.80	3.52	4.70	6.26	7.32	11.82	12.31	12.22	9.86	84.83
1946-47	5.40	3.20	1.96	2.60	2.50	3.89	5.46	7.81	8.38	11.06	9.80	7.86	69.94
1947-48	5.70	3.91	2.70	3.42	2.90	3.65	4.26	7.50	8.50	10.71	10.20	8.94	72.93
1948-49	5.40	4.42	2.06	1.56	1.60	2.87	6.01	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	4.78	5.60	8.16	9.40	12.02**	11.42	9.60	78.09**
1951-52	7.42	3.99	2.04	2.46	3.25	3.17	5.04	9.33	9.06	11.54	11.28	9.08	77.66
1952-53	7.50	5.18	3.46**	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	3.66	2.99**	5.10	8.65	9.72	11.27	10.34	9.74	79.04**
1954-55	7.40	4.01	2.76	1.83	2.89	5.03	5.78	6.08	8.12	10.82	11.55	9.00	75.29
1955-56	6.62	4.23	2.49	1.85	2.92	5.57	4.19*	5.60	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	11.06	8.80	80.13
1957-58	4.82	3.70	3.10	3.45	1.95	2.36	4.92**	8.16	10.30	11.58	11.72	9.45	75.51**
1958-59	6.97	4.74	4.86	3.45	2.38	6.15	6.95	8.65	11.92	13.58	12.75	7.66	90.10
1959-60	6.80	5.80	3.48**	1.78	3.01**	5.36**	7.08**	8.71**	12.70	13.36	12.50	9.92	90.54**
1960-61	6.95	3.06	3.06	2.96	3.50	4.30	6.85	7.35	10.82	12.85	9.92	7.86	79.50
1961-62	6.35	3.70	2.40**	2.96#	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	10.66	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	67.41**
1965-66	7.05	3.19**	1.81**	2.42	2.71	4.46**	6.93	7.56	INC.	N.R.	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**	2.16	2.12	3.38	5.14	6.62	9.08	9.50	9.57	8.75	69.44**
1968-69	5.39	3.73	2.24	2.30	1.80	3.99	5.09	7.38	7.30	10.22	11.58	7.90	68.97
1969-70	6.82	4.12**	2.56	2.34**	3.09	4.33	5.40	7.75	9.80	11.02	12.95	8.38	78.56**
1970-71	7.22*	4.20	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	11.08	9.20	6.55	75.59
1972-73	4.27	2.99	2.48	1.82	1.85	2.69	4.75	6.80	8.50	9.55	8.85	7.82	62.37

* = 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 TO 9/30/46 SCREENED SUBSEQUENT TO 9/30/46

SEASON	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1935-36	7.16	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	2.66	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	8.06	10.74	13.10	12.80	8.85	86.05
1939-40	7.07	4.88	3.05	1.92	2.48	4.58	4.92	7.98	10.26	12.07	12.05	9.36	80.05
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	6.24	6.44	9.95	10.40	7.96	64.23**
1944-45	5.76	2.23	1.93	1.86	2.08	2.27	5.27	6.62	7.02	10.66	9.65	7.88	63.25
1945-46	4.74	2.90	1.66	3.02	2.10	2.86	4.63	5.34	8.68	9.41	10.10	7.81	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	6.06	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	1.60**	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	4.10	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**	2.26	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	5.06	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

* = 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	6.82	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	4.56	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	2.50	2.27	2.60	4.06	3.60	6.12	6.39	8.14	7.56	5.81	58.01
1959-60	4.68	3.98	2.91	2.18	2.89	3.66	6.00	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	7.82	7.12	5.64	57.68
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	52.70
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	60.62
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	54.84
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	61.59
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	59.12
1969-70	5.50	3.43	3.02	2.02	2.51	5.59	6.27	6.62	6.70	8.76	8.56	6.84	65.82
1970-71	4.93	3.08	1.66	2.22	3.48	4.37	5.54	6.02	6.32	8.44	8.58	7.09	61.73
1971-72	6.00	3.38	3.28	2.31	2.81	4.70	6.11	6.45	6.97	8.89	8.41	6.29	65.60
1972-73	4.99	4.45	3.38	2.74	3.06	4.72	6.17	5.97	7.71	8.05	7.84	6.27	65.35

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	5.68	4.80	2.44	2.21	3.14	4.86	5.82	7.75	9.06	10.10	9.41	6.59	71.85
1933-34	4.99	4.05	1.74	1.72	1.62	4.33	6.36	9.08	6.80	9.78	8.92	7.98	67.35
1934-35	4.25	2.65	2.19	1.77	2.71	3.09	4.37	6.30	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	3.36	4.70	6.74	7.32	8.98	8.86	7.42	62.25
1938-39	5.20	4.06	2.42	1.86	3.12	2.94**	4.61	6.50	8.57	9.06	8.40	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	2.30	3.87	6.56	7.44	8.93	8.30	7.08	58.18
1943-44	4.95	3.56	2.03	1.58	1.82	3.40	5.00	5.87	6.30	7.86	6.56	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	49.28
1945-46	4.20	3.04	2.04	2.45	2.02	3.31	4.16	4.62	7.94	9.64	8.30	7.66	58.48
1946-47	3.64	1.73	1.19	1.37	1.43	2.50	4.09	4.36	5.06	8.00	7.11	5.24	45.00
1947-48	3.21	2.64	1.66	1.64	2.11	3.06	4.46	5.86	5.83	7.70	7.32	5.86	51.57
1948-49	3.37	2.86	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	.94	1.28	2.94	3.86	4.66	6.16	7.21	6.32	5.14	46.65
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	47.69
1951-52	4.22	2.26	1.00	.68	2.14	1.88	2.10	5.16	5.66	7.13	7.11	5.80	45.14
1952-53	3.76	1.83**	1.06**	1.05**	2.43**	2.63**	3.40	6.00	5.27	7.24	6.84	5.36	46.91**
1953-54	4.51	2.23	2.70	1.13**	2.10**	2.51**	3.12	4.66	5.20	7.14	6.87	5.42	47.65**
1954-55	3.91	2.22	1.40	1.17	2.30	3.30	5.36	4.02	5.67	6.97	7.94	6.20	50.66
1955-56	3.42	2.16	1.00	.99	1.86	3.55	3.15	3.57	5.93	6.76	5.15	6.04	43.73
1956-57	3.16	4.33	1.62	1.13	1.36	2.17	3.13	3.66	4.35	7.76	7.56	5.65	45.92
1957-58	2.74	1.58	1.34*	.97**	2.56**	1.60*	2.30*	3.32*	5.26	7.75	6.84	5.85	42.13**
1958-59	4.36	2.40	1.66	1.70	1.43	3.49	3.59	5.16	6.52	8.20	7.70	5.16	51.57**
1959-60	4.05	3.02	2.05	1.34	1.60	2.66	4.25	5.86	6.34	6.74	6.27	6.30	50.57
1960-61	3.94	1.56	1.52	1.65	1.95	2.82	4.65	5.66	6.35	7.86	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	7.43	7.82	5.62	47.58**
1962-63	3.36	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	2.16**	1.66	1.66	2.62	3.52	4.06	5.16	5.45	7.51	6.76	5.79	48.61**
1964-65	4.09	2.00**	1.11*	1.35	2.03	3.23**	3.66	5.10	4.36	6.81	7.44	4.74	45.80
1965-66	4.86	2.11*	1.17*	1.56**	1.73	3.06	4.52	4.84	6.31	7.40	8.04	5.53	51.16
1966-67	4.12	1.86	1.26**	1.26**	2.30	3.31	2.49	5.36	5.20	8.06	8.60	8.71	52.57**
1967-68	N.R.	INC.	1.85	1.65	1.56	3.32	4.82	4.32	5.46	8.31	6.77	5.53	INC.
1968-69	3.26	1.97	1.46	INC.	INC.	INC.	3.95	4.31	3.47	6.00	6.44	5.46	INC.
1969-70	4.12	2.36	1.67	1.09	2.36**	2.92	4.42	5.76	6.21	8.04	7.54	5.96	52.53**
1970-71	4.36	2.14**	1.10	1.30	2.00	3.21	3.88	2.84	5.92	8.12	8.25	5.99	49.13
1971-72	5.26	2.44	INC.	1.89	2.62	4.36	4.42	6.26	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	6.96	7.74	7.95	4.40	47.16

* = 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. 3906
MORRIS 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	7.66	6.30	60.01
1931-32	4.33*	2.77	1.34	1.54	1.76	3.89	5.03	5.26	6.26	7.64	7.46	5.44	52.68
1932-33	5.02	4.26	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	8.06	7.04	64.12**
1934-35	4.52	2.76	1.96	1.62	2.60	2.59	3.46	4.56	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	6.66	7.43	8.21	8.14	7.04	59.01
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	5.03	6.01	7.66	7.61	6.64	53.68
1938-39	4.49	3.92	2.12	1.75	2.20	2.46	4.10	5.26	7.36	8.16	8.06	6.22	56.06
1939-40	4.66	3.32	2.58	1.36	1.80	3.26	3.73	6.04	6.56	8.99	7.97	6.56	56.84
1940-41	5.46	3.32	2.08	1.42	1.13	2.63	2.90	5.51	5.71	7.80	6.49	5.66	50.11
1941-42	3.91	2.89	1.44	1.67	2.06	3.56	3.10	5.90	6.35	7.86	7.69	6.07	53.38
1942-43	4.27	2.76	2.04	2.11	1.91	2.04	3.46	6.20	6.34	8.00	7.88	6.83	53.06
1943-44	4.79	3.40	1.54	1.58	1.42	3.20	3.73	5.10	4.98	7.32	7.96	5.86	50.94
1944-45	4.16	2.03	1.93	1.79	1.66	2.17	4.32	5.66	4.54	7.30	7.26	6.05	48.83
1945-46	3.85	2.90	1.67	2.63	2.00	2.86	4.14	3.91	7.24	7.96	8.43	6.71	54.37
1946-47	3.86	2.04	1.56	2.17	1.92	2.64	4.42	5.22	5.99	9.52	7.93	6.94	54.23
1947-48	4.42	3.50	2.24	2.90	2.41	2.83	3.76	5.36	6.16	8.54	8.06	7.22	57.42
1948-49	4.26	3.86	1.86	1.76	1.54	2.66	4.46	5.04	7.27	8.26	8.40	7.74	56.05
1949-50	5.09	3.95	2.40	1.37	1.96	3.32	4.04	4.94	7.01	8.24	8.33	5.72	56.39
1950-51	5.46	3.79	2.11	1.97	2.16	4.06	3.41	5.84	6.50	9.66	8.46	6.83	60.31
1951-52	5.56	3.11	1.73	1.30	2.42	2.36	3.26	6.37	6.24	8.66	8.63	7.02	56.06
1952-53	5.11	2.39	1.56	2.16	3.36	3.64	3.82	6.26	6.26	8.82	8.36	6.92	58.64
1953-54	6.16	3.26	3.61	1.92	3.13	2.76	4.07	4.92**	6.17	8.56	7.62	7.31	59.51**
1954-55	5.51	3.47	2.34	1.76	2.62	3.80	5.06	4.49	6.02	7.94	8.66	8.06	59.72
1955-56	4.84	3.40	1.64	1.80	2.39	4.31	3.56	4.94	7.46	8.22	6.52	6.64	55.66
1956-57	3.66	5.17	3.95	2.32	1.66	3.06	4.06	4.46	6.88	9.29	9.00	6.85	60.34
1957-58	3.35	3.19	3.44	2.46	1.66	2.09	3.79	6.16	7.64	8.36	7.84	7.74	57.75
1958-59	5.96	3.95	3.74	4.33	1.76	4.64	4.86	5.22	7.12	9.06	8.46	5.76	64.92
1959-60	5.35	4.31	2.96	1.70	2.50	3.50	5.46	6.36	7.46	9.36	8.74	8.06	65.78
1960-61	5.21	2.44	2.90	2.84	2.95	3.52	5.39	5.96	7.54	8.86	8.36	6.86	62.87
1961-62	5.66	3.46	1.81	2.53	1.14	2.50	5.46	5.42	6.12	8.27	8.72	6.96	58.06
1962-63	4.62	3.37	2.86	2.11	2.62**	3.62**	4.26	4.96	5.04	8.66	8.46	6.59	57.05**
1963-64	4.52	2.64	2.01	2.46	3.64	3.56	4.34	5.70	6.34	7.76	8.26	6.76	58.94
1964-65	5.42	2.71	1.76*	2.09	2.86	3.14	3.66	5.54	4.86	8.41	8.56	5.76	54.71**
1965-66	6.26	2.26	1.66	2.36	2.33	3.80	5.16	5.56	7.36	9.36	8.66	6.76	61.40
1966-67	5.26	2.47	1.86	1.96	3.16	3.06	2.56	5.36	5.11	8.66	8.56	5.56	53.51
1967-68	6.16	2.86	2.16	2.06	1.86	4.06	5.16	5.66	6.36	8.36	7.86	6.86	59.21
1968-69	4.76	3.46	2.36	1.26	.86	3.46	4.26	5.96	4.76	8.56	9.76	7.46	56.76
1969-70	5.46	3.36	2.66	1.66	2.86	3.66	5.26	6.26	6.76	9.36	9.46	8.16	64.66
1970-71	5.06	2.96	1.26	2.26	2.76	3.86	4.96	4.86	6.76	9.16	9.46	7.46	60.66
1971-72	5.86	3.16	2.36	2.66	3.06	4.86	6.06	6.86	7.56	10.36	8.96	6.46	68.06
1972-73	4.36	2.86	2.36	2.16	1.66	2.36	5.26	6.06	8.16	9.26	8.26	5.86	58.46

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

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	69.35
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	64.01
1950-51	6.76	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	6.76	4.00	4.22	2.20**	3.76**	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	3.05	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	8.76	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	1.76	2.24	4.16	6.46	7.54	8.97	7.94	8.92	60.52
1958-59	6.76	4.62	4.46	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	9.06	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	5.26	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	7.76	4.17	2.63**	3.00**	4.27	4.12	4.76**	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	3.66	4.76	4.07	3.77	6.53	5.99	9.43	9.70	6.36	69.10**
1967-68	8.16	4.62	3.35	3.80	2.76	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	5.06	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	9.46	9.33	9.18	INC.
1970-71	6.55	4.88**	2.36**	3.28	3.82	4.80	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

* = AMOUNT ESTIMATED IS GREATER THAN 10% OF TOTAL
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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*	5.94	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	1.76**	1.90	2.15	3.05	3.44	5.77**	5.10	6.60	7.37	5.02	50.09**
1967-68	4.55	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	5.56	5.92	7.27	7.14	5.72	53.12**
1970-71	3.86	2.90	1.40	1.65	2.36	3.28	4.55	5.12	5.15	6.82	7.48	5.96	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

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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	3.61	2.57	3.08	4.66	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	4.36	4.96	6.70	8.34	8.94	6.43	66.23
1957-58	5.16	3.76	2.53	3.14	2.25	2.48	4.57	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	8.86	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	5.50	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	5.67	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	6.73	3.61	3.76	3.77	4.37	4.50	4.26	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	5.16	5.16	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	69.90
1971-72	7.46	4.56	3.91	3.51	3.74	5.66	6.29	6.96	7.46	9.81	8.60	6.86	74.84
1972-73	5.37	4.70	4.44	4.15	3.62	3.89	6.04	5.69	7.52	7.83	8.24	6.09	69.58

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	6.62	66.91
1957-58	4.11	3.65	3.40	3.77	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	6.16	71.76
1959-60	5.57	5.30	3.75	2.56	3.43	4.54	6.73	7.40	7.13	9.01	7.78	8.29	71.41
1960-61	5.83	3.56	3.93	4.34	4.31	4.90	5.86	6.12	7.03	8.37	7.99	6.56	68.80
1961-62	5.38	3.43	2.95	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	5.01	8.43	8.01	7.60	62.59
1963-64	4.63	3.73	4.66	3.97	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	8.30	5.82	62.85
1965-66	7.54	3.32	3.10	3.88	3.76	5.05	5.78	5.07	7.39	9.03	8.12	6.58	68.82
1966-67	6.05	3.55	3.73	3.82	4.54	4.44	4.00	6.36	5.46	8.70	9.25	5.84	65.74
1967-68	6.66	3.70	3.15	3.66	3.17	5.93	6.61	6.36	6.38	8.66	8.21	7.10	69.63
1968-69	4.97	4.49	3.51	2.18	2.55	5.35	5.71	5.84	4.15	8.53	9.44	6.66	63.38
1969-70	6.31	5.13	3.37	2.56	2.75	6.85	6.59	6.82	6.63	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	9.19	9.62	8.07	67.79
1971-72	6.93	3.84	3.70	3.46	3.78	4.91	6.48	6.55	6.75	10.01	8.27	6.18	70.86
1972-73	4.72	4.10	3.83	3.53	4.06	4.24	6.05	5.94	7.83	7.59	7.66	5.41	65.00

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

MONTHLY EVAPORATION SUMMARY
STATION NO. 1008
LA FRESA – S.C. EDISON 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	1.48	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	99.79
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	3.16	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	8.75	4.96	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	46.09

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

MONTHLY EVAPORATION SUMMARY
STATION NO. 1011F
RIO HONDO 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	1.40	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	3.58	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	5.84	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	43.66**
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	47.65**
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

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N.R. = NO RECORD
INC. = RECORD INCOMPLETE

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

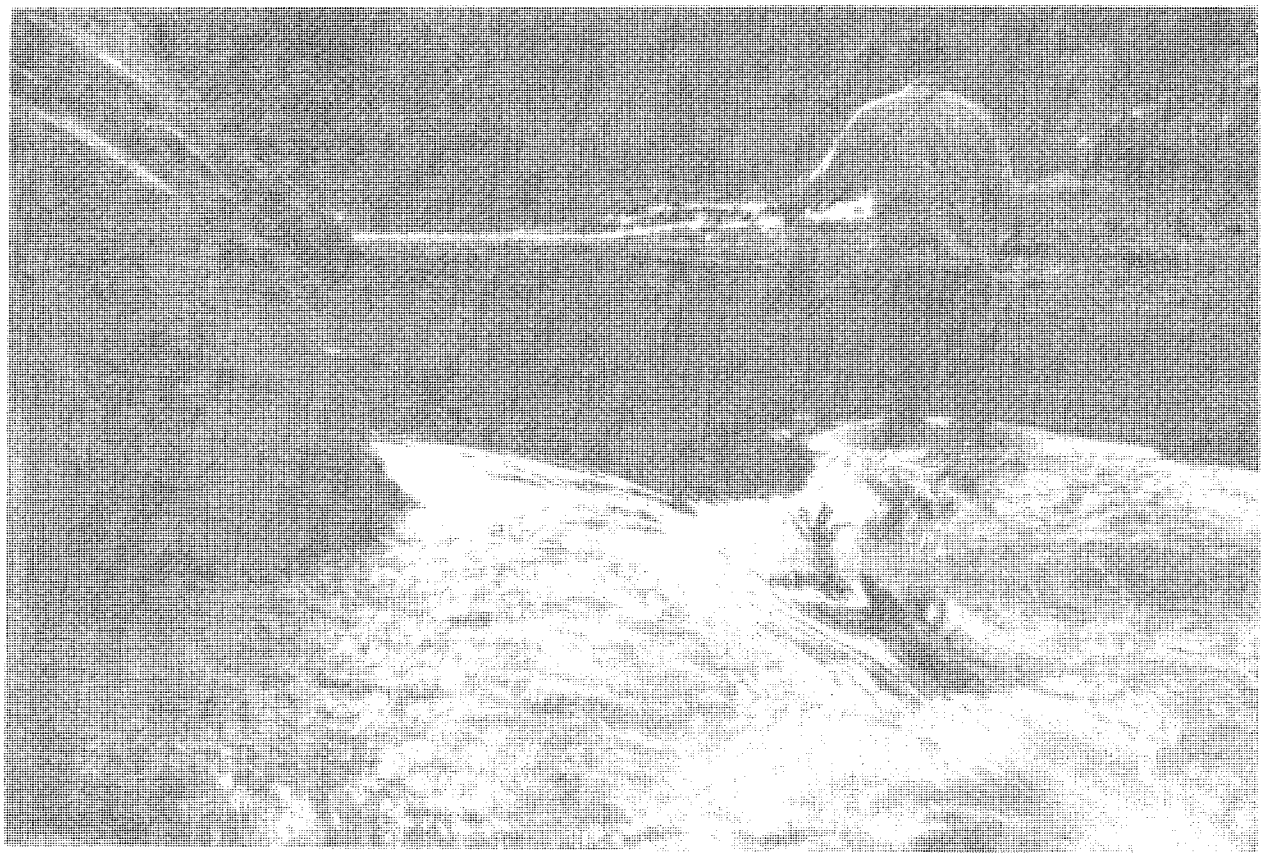
SEASON	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1967-68	7.07	6.34	2.49	2.25	2.56	5.02	9.45*	12.60	16.73	18.20	13.81	12.00	108.60**
1968-69	7.53	4.79	3.51	2.34	2.34	4.44	6.69	9.48	11.35	13.66	15.33	10.30	91.76
1969-70	7.40	3.80	2.86	2.74	3.37	4.87	6.75	9.55	11.01	13.46	12.00	9.35	87.18
1970-71	6.22	3.35	1.32	2.03	3.54	5.22	6.81	9.94	12.92	12.98	11.28	8.15	85.76
1971-72	5.97	3.56	2.49	2.02	3.02	4.98	4.68	6.95	7.70	11.12	8.82	5.06	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

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

MONTHLY EVAPORATION SUMMARY
STATION NO. 10716
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.	NC.	4.46	6.55	5.22	5.12	INC.
1954-55	3.84	2.64	1.95	1.60	2.10	2.39	3.46	3.22	4.34	5.53	6.44	5.60	43.17
1955-56	3.56	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	6.02	8.48	8.18	6.92	57.94
1957-58	3.75	3.06	2.56	2.78*	1.37*	2.30**	3.82**	5.05	6.26	7.66	7.44	7.45	53.54**
1958-59	6.00*	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.	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**	3.76	3.91**	3.56	3.76	4.42	5.34	6.10**	7.48*	7.46	6.28	62.51**
1961-62	5.74	3.63	2.03	2.82**	1.36	2.32	4.57	4.11	4.71	7.10	7.42	6.20	52.03**
1962-63	4.16	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	4.79	5.04	7.75	6.62	5.94	53.90
1964-65	4.97	2.70	1.69	2.05	2.57	2.79	3.23	4.41	4.04	6.95	4.89	7.87	48.16
1965-66	6.16	2.72	1.76	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	4.26	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	4.76	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	5.26	8.09	6.92	4.82	52.03
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

* = AMOUNT ESTIMATED IS GREATER THAN 10% OF TOTAL
** = AMOUNT ESTIMATED IS LESS THAN 10% OF TOTAL
N.I. = NOT INSTALLED
N.R. = NO RECORD
INC. = RECORD INCOMPLETE



The District operated 99 water-stage recording stations during the season. Data from 44 District stations are summarized and published in this volume. An alphabetical list of all past and present streamflow stations is also included.

Also included herein are data from two stations operated by the United States Geological Survey and three 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 RECORDING STATIONS

Records from recording stations are, in general, published under each station heading in three sections, giving the following information:

1. Station descriptions which present location drainage areas, channels, controls, regulations, diversions, and available records.
2. Daily discharge tabulations which show 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 stations are reviewed and published annually in the Geological Survey's annual water supply papers.

Agencies with which the District exchanges data area:

United States Geological Survey, Water Resources Division

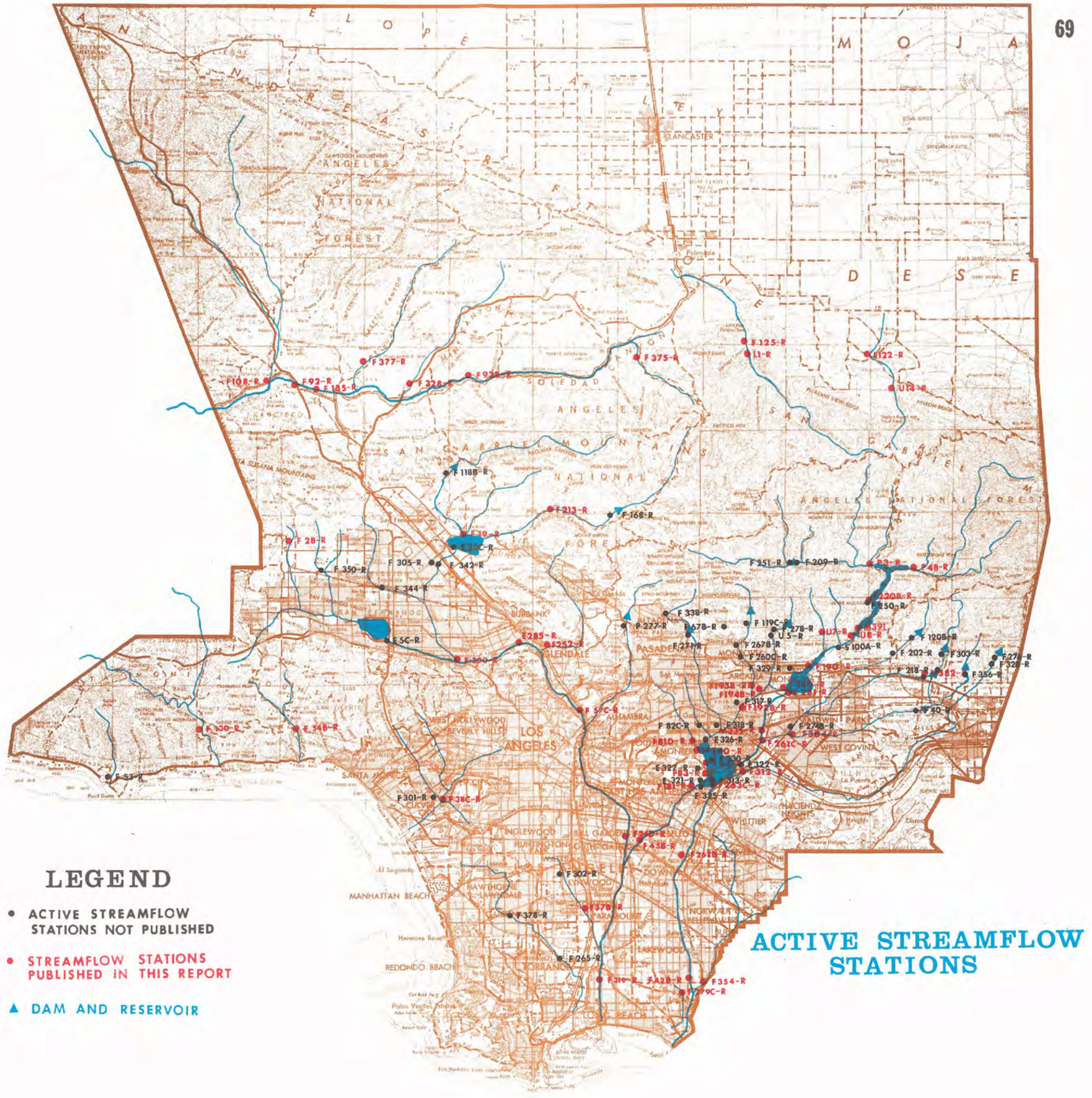
United States Corps of Engineers

The Metropolitan Water District

San Gabriel River Water Committee

LEGEND

Stations are designated by letters and num-



LEGEND

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

ACTIVE STREAMFLOW STATIONS

bers which indicate ownership, operating 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 and operatd 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 stations 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 stations 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 in stilling well.

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

LIST OF STREAMFLOW RECORDS AVAILABLE

ALPHABETICAL LIST OF STREAMFLOW RECORDING AND MEASURING STATIONS FOR WHICH RECORDS ARE AVAILABLE AT THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

THE PERIOD OF RECORD INDICATES THE EARLIEST AND LATEST DATES FOR WHICH RECORDS ARE AVAILABLE.

STATION NUMBER	STATION NAME	PERIOD OF RECORD		
F 102 -R	ALHAMBRA EAST WASH AT S.P.R.R. MAIN LINE	10-01-30	TO	09-30-82
M 340 -R	ALHAMBRA WASH - M.W.D. OUTLET NEAR RUSH ST.	02-28-58	TO	PRESENT
F 081B-R	ALHAMBRA WASH AT EMERSON PLACE	10-01-34	TO	05-22-36
F 081 -R	ALHAMBRA WASH AT GARVEY AVENUE	11-14-28	TO	09-30-34
F 081C-R	ALHAMBRA WASH AT GLADYS AVENUE	02-25-35	TO	04-27-36
F 081D-R	ALHAMBRA WASH NEAR KLINGERMAN STREET	09-02-36	TO	PRESENT
F 375 -R	ALISO CREEK AT BLUM RANCH	01-20-66	TO	PRESENT
F 152 -R	ALISO CREEK AT NORDHOFF STREET	11-03-39	TO	07-15-47
F 152 -S	ALISO CREEK AT NORDHOFF STREET	04-26-31	TU	PRESENT
F 369 -S	ALISO CREEK AT VAN OWEN STREET	10-01-61	TO	PRESENT
F 152B-R	ALISO CREEK BELOW NORDHOFF STREET	08-31-48	TU	05-12-69
F 317 -R	ARCADIA WASH BELOW GRAND AVENUE	12-12-55	TO	PRESENT
F 163 -S	ARCADIA WASH (EL MONTE ST.DR) BLO L.AZUSA RD	12-14-31	TO	01-05-35
F 116 -S	ARROYO DITCH BELOW HEADGATE	06-14-30	TO	09-25-53
F 058 -S	ARROYO SECO AT AVENUE 26	03-11-32	TO	PRESENT
F 221 -S	ARROYO SECO AT MOUTH OF CANYON	01-16-33	TO	02-16-33
P 277 -R	ARROYO SECO BELOW DEVILS GATE DAM	11-30-42	TO	PRESENT
F 153 -S	ARROYO SECO - MILLARD CK ABOVE DEVILS GT DAM	01-26-33	TO	02-13-36
F 157 -S	ARROYO SEQUIT AT ROOSEVELT HIGHWAY	11-27-31	TO	02-02-45
F 374 -S	AVOCADO CREEK AT DON JULIAN ROAD	10-01-61	TO	PRESENT
F 038C-R	BALLONA CREEK ABOVE SAWTELLE BOULEVARD	08-10-67	TO	PRESENT
F 038 -R	BALLONA CREEK AT CENTINELA BOULEVARD	02-27-28	TO	04-27-36
F 298 -R	BALLONA CREEK AT CURSON AVENUE	02-17-42	TO	09-04-62
F 166 -S	BALLONA CREEK AT JACCB STREET	12-21-31	TO	05-20-37
F 282 -R	BALLONA CREEK AT PACIFIC AVENUE	08-09-40	TO	08-01-62
F 038B-R	BALLONA CREEK AT SAWTELLE BOULEVARD	05-14-36	TO	08-10-67
F 294 -R	BALLONA CREEK AT SEPULVEDA BOULEVARD	04-14-48	TO	04-29-53
F 156 -S	BALLONA CREEK - EAST BRANCH BELOW ADAMS ST.	10-06-32	TO	07-19-34
F 293 -R	BALLONA CREEK 800 FEET BELOW CULVER BLVD	04-15-48	TO	04-29-53
F 087 -S	BANTA DITCH AT HEAD OF PIPELINE	07-02-28	TO	02-04-63
F 198 -S	BEAR CANYON CREEK ABOVE SOLEDAD CANYON	01-02-32	TO	08-31-33
F 368 -S	BELL CREEK AT TOPANGA CANYON BOULEVARD	10-01-61	TO	PRESENT
F 150 -S	BENEDICT CANYON CREEK NEAR OAKHURST STREET	01-01-31	TO	05-20-32
F 150 -R	BENEDICT CANYON CREEK NEAR OAKHURST STREET	05-21-32	TO	04-27-34
F 235 -R	BENEDICT CANYON STORM DRAIN AT WESLEY STREET	01-12-34	TO	01-21-39
F 202 -S	BIG DALTON CREEK ABOVE SIERRA MADRE AVENUE	02-24-37	TU	12-13-53
F 120 -R	BIG DALTON CREEK BELOW BIG DALTON DAM	10-01-29	TO	06-03-40
E 120B-R	BIG DALTON CREEK BELOW BIG DALTON DAM	06-03-40	TO	PRESENT
F 202 -R	BIG DALTON WASH AT SIERRA MADRE AVENUE	12-14-53	TO	PRESENT
U 014 -R	BIG ROCK CREEK ABOVE MOUTH OF CANYON	01-01-23	TU	PRESENT
F 143 -S	BIG ROCK CREEK ABOVE PALLETT CREEK	10-25-30	TO	PRESENT
F 295 -S	BIG ROCK CREEK ABOVE RISING WATER	10-15-47	TO	PRESENT
F 128 -S	BIG ROCK CREEK BELOW MONTES (PARADISE CAMP)	10-25-30	TO	03-26-32
F 171 -S	BIG ROCK CREEK NEAR VALYERMO HIGHWAY	12-09-31	TO	PRESENT
F 127 -S	BIG ROCK CREEK - SOUTH FORK ABOVE PUB. CMPGD.	01-27-31	TO	07-18-33
F 111B-R	BIG TUJUNGA CREEK ABOVE EDISON ROAD	09-15-32	TO	05-18-50
F 177 -S	BIG TUJUNGA CREEK ABOVE FUSIER CANYON	12-24-31	TO	05-16-34
F 213 -R	BIG TUJUNGA CREEK ABOVE GOLD CANYON	10-01-32	TO	PRESENT
F 111 -R	BIG TUJUNGA CREEK AT EDISON ROAD	11-30-30	TO	08-17-32
F 010 -R	BIG TUJUNGA CREEK BELOW BIG TUJUNGA DAM	01-13-33	TO	02-24-38
F 108 -R	BIG TUJUNGA CREEK BELOW BIG TUJUNGA DAM	12-08-31	TO	PRESENT
F 111C-R	BIG TUJUNGA CREEK BELOW MILL CREEK	01-16-48	TO	11-29-71
F 175 -S	BIG TUJUNGA - BREAKNECK CREEK NEAR MOUTH	02-01-32	TO	11-14-34
F 173 -S	BIG TUJUNGA - CLEAR CREEK ABOVE MOUTH	12-28-31	TU	01-01-37
F 110 -R	BIG TUJUNGA - FOX CREEK ABOVE MOUTH	10-01-30	TO	02-17-38
F 170 -S	BIG TUJUNGA - GOLD CANYON CREEK ABOVE MOUTH	01-29-32	TO	09-28-33
F 174 -S	BIG TUJUNGA - HANSEN CREEK NEAR MOUTH	01-20-32	TO	10-26-33
F 176 -S	BIG TUJUNGA - MAPLE CREEK NEAR MOUTH	01-16-32	TO	02-14-34
F 112 -R	BIG TUJUNGA - MILL CREEK ABOVE MOUTH	10-01-30	TO	11-26-34
F 169 -S	BIG TUJUNGA - TRAIL CANYON CREEK ABOVE MOUTH	12-09-31	TO	01-25-46
F 155 -S	BIG TUJUNGA WASH AT FOOTHILL BOULEVARD	02-04-28	TO	PRESENT
F 377 -R	BOUQUET CANYON CREEK AT URBANDALE AVENUE	10-11-67	TO	PRESENT
F 142 -S	BOUQUET CANYON CREEK 1.5 MI NORTH OF SAUGUS	01-08-31	TU	01-31-33
F 284 -S	BOUQUET CREEK 1.5 MI ABOVE TEXAS CANYON	09-18-47	TO	PRESENT
F 329 -R	BRADBURY CHANNEL BELOW CENTRAL AVENUE	06-14-57	TO	PRESENT
F 342 -R	BRANFORD STREET CHANNEL BELOW SHARP AVENUE	01-12-62	TO	PRESENT
F 002 -R	BROWNS CREEK AT DEVONSHIRE AVENUE	12-11-28	TO	10-31-39
F 002B-R	BROWNS CREEK AT VARIEL AVENUE	10-12-61	TU	PRESENT
F 360 -S	BROWNS CREEK AT SHERMAN WAY	09-12-61	TU	PRESENT
F 001 -S	BULL CREEK AT DEVONSHIRE AVENUE	01-09-30	TU	01-29-33
F 109 -S	BULL CREEK AT DEVONSHIRE AVENUE	01-11-30	TO	01-29-33
F 366 -S	BULL CREEK AT RINALDI STREET	12-01-64	TO	PRESENT
F 167 -S	BULL CREEK AT SAN FERNANDO MSSN BLVD BRIDGE	12-13-30	TO	04-06-34
F 358 -S	BULL CREEK AT VICTORY BOULEVARD	12-01-64	TU	PRESENT
F 372 -S	BURBANK EASTERN STORM DRAIN AT FLOWER STREET	10-01-62	TU	PRESENT
E 285 -R	BURBANK WESTERN STORM DRAIN AT RIVERSIDE DR	10-01-49	TU	PRESENT
F 285 -S	BURBANK WESTERN STORM DRAIN AT RIVERSIDE DR	12-10-49	TU	PRESENT
F 370 -S	CABALLERO CREEK AT ERWIN STREET	10-01-61	TO	PRESENT
F 373 -S	CALABASAS CREEK ABOVE VAN OWEN STREET	10-01-61	TU	PRESENT
F 270 -R	CALABASAS CREEK AT VENTURA BOULEVARD	02-17-40	TU	12-12-50
F 140 -S	CASTAIC CREEK AT ELIZABETH LAKE CYN HWY	02-04-38	TU	PRESENT
F 108 -R	CASTAIC CREEK AT HIGHWAY 126	12-27-45	TO	PRESENT
F 108 -S	CASTAIC CREEK 1 1/2 MI WEST OF CASTAIC JUNCT	01-10-35	TU	12-26-45
F 084 -S	CATE DITCH BELOW SLUICE GATE	08-19-28	TU	09-27-51
F 186 -R	CENTINELA CREEK AT CENTINELA BOULEVARD	09-15-32	TO	05-11-36
F 249 -S	CERRITOS SLOUGH AT ANAHEIM STREET	13 MEAS.1935/	TU	11-15-46
F 139 -S	CHARLIE CANYON CREEK ABOVE CASTAIC CREEK	1 MEASUREMENT	TO	02-24-57
F 061 -S	COLD CREEK AT CRATER CAMP	02-27-31	TO	PRESENT
F 302 -R	COMPTON CREEK AT 120TH STREET	01-29-51	TU	PRESENT
F 037 -R	COMPTON CREEK AT ROSECRANS AVENUE	01-22-28	TO	06-09-38
F 037B-R	COMPTON CREEK NEAR GREENLEAF DRIVE	10-03-36	TO	PRESENT
F 256 -S	CORRAL CREEK AT ROOSEVELT HIGHWAY	12-29-35	TO	04-03-36
F 320 -R	COYOTE CREEK AT CENTRALIA STREET	02-09-56	TO	07-02-63
F 041B-R	COYOTE CREEK AT DEL AMO STREET	10-30-36	TO	02-17-37
F 041C-R	COYOTE CREEK AT DEL AMO STREET	02-18-37	TO	02-08-56
E 041 -R	COYOTE CREEK BELOW P.E. BRIDGE NEAR ARTESIA	01-14-30	TO	10-30-36
F 354 -R	COYOTE CREEK BELOW SPRING STREET	12-17-63	TO	PRESENT
F 062 -R	CURSON CANYON AT CURSON AVENUE	01-15-30	TO	09-30-32
F 274 -R	DALTON WASH AT MERCED AVENUE	11-11-40	TO	09-30-58
F 274B-R	DALTON WASH AT MERCED AVENUE	10-01-58	TO	PRESENT
F 178 -S	DEVILS PUNCH BOWL CREEK ABOVE BIG ROCK CREEK	11-28-31	TO	PRESENT
F 355 -R	DOMINGUEZ CHANNEL AT HENRY FORD AVENUE	12-18-63	TO	09-28-66
F 283 -R	DOMINGUEZ CHANNEL AT ROSECRANS AVENUE	01-05-42	TO	09-30-55
F 378 -R	DOMINGUEZ CHANNEL AT VERMONT AVENUE	11-23-66	TU	PRESENT
F 265 -R	DOMINGUEZ CHANNEL(NIGGER SLOUGH)AT CARSON ST.	11-23-38	TU	PRESENT
F 053 -R	DUNE CREEK AT PACIFIC COAST HIGHWAY	01-15-30	TO	PRESENT
F 241 -F	DUNSMUIR CANYON CREEK ABOVE DEBRIS BASIN	11-15-34	TO	04-08-35
F 365 -S	EAST CANYON CHANNEL AT CHAMBERLAIN STREET	12-01-64	TO	PRESENT
F 104B-R	EATON WASH AT BROADWAY	12-28-30	TO	11-10-31
F 104 -R	EATON WASH AT ELLIS LANE	10-01-30	TO	05-04-55
F 074 -S	EATON WASH AT FOOTHILL BOULEVARD	11-14-28	TO	01-29-33
F 318 -R	EATON WASH AT LOFTUS DRIVE	02-23-56	TO	PRESENT
F 271 -R	EATON WASH BELOW EATON WASH DAM	10-01-40	TO	PRESENT
F 141 -S	ELIZABETH LAKE CREEK ABOVE DRY GULCH	02-12-31	TU	05-25-50
F 095 -S	ELIZABETH LAKE CREEK AT NARROWS	11-13-29	TO	01-23-31
F 141B-S	ELIZABETH LAKE CREEK 2.4 MI ABOVE CASTAIC CK	03-23-51	TU	12-31-70
F 371 -S	ENCINO CREEK AT VENTURA FREEWAY	10-01-61	TU	PRESENT
F 296 -S	EVEY CREEK ABOVE MOUTH OF CANYON	10-21-48	TO	03-29-56
F 296 -R	EVEY CREEK ABOVE MOUTH OF CANYON	12-17-56	TU	01-25-69
U 007 -R	FISH CREEK ABOVE MOUTH OF CANYON	07-01-17	TU	PRESENT
F 131 -S	GAVIN CN CK AT WELDON CN HWY ABOVE TOWSLEY CN	02-03-31	TO	01-01-72
F 132 -S	GAVIN CN CK AT WELDON CN HWY BELOW TOWSLEY CN	01-09-31	TO	12-24-40
F 361 -S	HAINES CANYON CHANNEL AT FOOTHILL BOULEVARD	10-01-64	TU	PRESENT
F 240 -F	HAINES CANYON CREEK BELOW USGS STATION	10-31-34	TU	03-07-35
F 384 WG	HALLS CANYON CHANNEL AT LA CRESCENTA AVENUE	01-01-72	TU	PRESENT
F 179 -S	HOLCOMB CREEK ABOVE BIG ROCK CREEK	02-24-31	TO	09-05-33
F 201 -S	KAGEL CANYON CREEK AT LITTLE TUJUNGA ROAD	02-08-32	TO	01-19-33
F 287 -R	LA TUNA CREEK AT BELMONT COUNTRY CLUB	03-13-46	TU	11-21-55
F 287B-R	LA TUNA CREEK BELOW DEBRIS BASIN	11-21-55	TU	05-04-60
F 287C-R	LA TUNA CREEK BELOW DEBRIS BASIN	02-28-61	TU	06-25-63
F 046 -R	LAGUNA DOMINGUEZ AT WILMINGTON AVENUE	11-24-28	TU	02-08-37
F 210 -R	LAGUNA DOMINGUEZ (NIGGER SLOUGH)AT HARBOR BD	01-05-42	TO	04-06-65
F 275 -S	LAS FLORES CREEK AT ROOSEVELT HIGHWAY	02-21-41	TO	04-16-43
F 350 -R	LIMEKILN CREEK ABOVE ALISU CREEK	12-26-61	TU	PRESENT
F 149 -S	LIMEKILN WASH AT DEVONSHIRE AVENUE	02-08-32	TU	02-16-32
F 149 -R	LIMEKILN WASH AT DEVONSHIRE AVENUE	11-09-39	TU	09-30-57
F 065B-R	LITTLE DALTON CREEK ABOVE MOUTH OF CANYON	11-30-38	TU	08-08-72
F 065 -R	LITTLE DALTON CREEK AT MOUTH OF CANYON	01-28-29	TU	11-23-38
F 030 -S	LITTLE DALTON WASH AT LORRAINE AVENUE	02-04-28	TU	06-10-43
L 001 -R	LITTLE ROCK CREEK ABOVE LITTLE ROCK DAM	10-01-30	TU	PRESENT
F 126 -S	LITTLE ROCK CREEK BELOW LITTLE ROCK DAM	03-01-32	TU	05-17-55
F 073 -S	LITTLE SANTA ANITA CR. AT DOUBLE DR.(ARCADIA)	02-04-28	TU	02-13-32
F 164 -S	LITTLE TUJUNGA CREEK ABOVE GOLD CREEK	06-26-31	TU	05-22-32
F 165 -S	LITTLE TUJUNGA - GOLD CREEK ABOVE MOUTH	06-26-31	TU	05-22-32
F 019 -R	LITTLE TUJUNGA WASH AT FOOTHILL BOULEVARD	12-26-28	TU	PRESENT
F 356 -R	LIVE OAK CREEK BELOW LIVE OAK DAM	11-29-63	TO	PRESENT
F 031 -R	LIVE OAK CREEK NEAR MOUTH OF CANYON.	01-04-28	TU	11-01-63
F 311 -R	LIVE OAK WASH BELOW SEVENTH STREET,LA VERNE	07-07-54	TU	12-11-70
F 362 -S	LOPEZ CANYON CHANNEL AT FOOTHILL BOULEVARD	12-01-64	TU	PRESENT
F 259 -S	LOS ALISOS CREEK AT ROOSEVELT HIGHWAY	02-14-36	TU	03-19-42
F 057C-R	LOS ANGELES RIVER ABOVE ARROYO SECO	12-08-39	TU	PRESENT
F 057 -R	LOS ANGELES RIVER AT DAYTON AVENUE	01-06-30	TU	05-26-38
F 034B-R	LOS ANGELES RIVER AT FIRESTONE BOULEVARD	04-11-38	TU	11-03-49
F 034C-R	LOS ANGELES RIVER AT FIRESTONE BOULEVARD	11-04-49	TU	12-11-56
F 266 -R	LOS ANGELES RIVER AT MARIPOSA STREET	12-20-30	TU	11-15-71
F 255 -S	LOS ANGELES RIVER AT NIAGARA STREET	01-16-36	TO	03-12-36
F 035 -S	LOS ANGELES RIVER AT NORTON AVE.(IMPERIAL HWY)	01-26-28	TU	PRESENT
F 180 -R	LOS ANGELES RIVER AT PACIFIC COAST HIGHWAY	10-31-31	TU	01-01-56
F 299 -R	LOS ANGELES RIVER AT RADFORD AVENUE	02-21-50	TU	11-15-71
F 034 -R	LOS ANGELES RIVER AT STEWART AND GRAY ROAD	02-04-28	TU	03-02-38
F 300 -R	LOS ANGELES RIVER AT TUJUNGA AVENUE	05-08-50	TU	PRESENT
F 007 -R	LOS ANGELES RIVER AT UNIVERSAL CITY	01-27-28	TO	12-26-30
F 005 -R	LOS ANGELES RIVER AT VAN NUYS BOULEVARD	02-04-28	TO	08-23-41
F 124 -R	LOS ANGELES RIVER AT VINELAND AVENUE	12-29-30	TU	03-02-38
F 006 -S	LOS ANGELES RIVER AT WHITSETT AVENUE	11-24-28	TU	11-23-33
F 036 -R	LOS ANGELES RIVER AT WILLOW ST.,LONG BEACH	02-01-28	TU	11-31-31
F 232 -S	LOS ANGELES RIVER BELOW BUENA VISTA STREET	12-28-33	TU	09-23-37
F 057B-R	LOS ANGELES RIVER BELOW DAYTON AVENUE	05-26-38	TU	12-08-39
F 034D-R	LOS ANGELES RIVER BELOW FIRESTONE BOULEVARD	12-11-56	TU	PRESENT
E 005C-R	LOS ANGELES RIVER BELOW SEPULVEDA DAM	10-01-52	TU	PRESENT
F 005B-R	LOS ANGELES RIVER BELOW SEPULVEDA DAM	08-23-43	TU	09-30-52
F 319 -R	LOS ANGELES RIVER BELOW WARDLOW ROAD	01-13-56	TU	PRESENT
F 279B-R	LOS CERRITOS CHANNEL ABOVE ANAHEIM STREET	06-01-49	TO	05-26-55
F 279 -R	LOS CERRITOS CHANNEL AT SEVENTH STREET	11-23-42	TO	06-01-49
F 279C-R	LOS CERRITOS CHANNEL AT STEARNS STREET	10-26-55	TO	PRESENT
F 390 WG	LYONS CANYON WASH AT WILEY CANYON BOULEVARD	01-01-72	TU	PRESENT
F 100 -R	MAIN SPREADING CANAL AT MOUTH OF SAN GAB CYN	02-08-29	TO	01-31-40
F 100 -S	MAIN SPREADING CANAL AT MOUTH OF SAN GAB CYN	02-08-30	TO	PRESENT
F 090 -S	MALIBU CREEK AT MALIBU GORGE	04-04-30	TU	06-30-32
F 130 -R	MALIBU CREEK BELOW CCLD CREEK	01-17-31	TU	PRESENT
F 056 -S	MANDEVILLE CANYON CREEK ABOVE BEVERLY BLVD.	01-31-32	TU	01-22-33
M 362 -R	M.W.D. OUTLET NEAR SAN DIMAS	10-29-68	TU	PRESENT
M 391 -S	M.W.D. OUTLET - SAN GABRIEL CANYON	02-08-72	TO	PRESENT
F 162 -S	MESCAL CREEK ABOVE MOUTH OF CANYON	03-13-32	TO	01-05-40
F 112 -S	MILL CREEK ABOVE BIG TUJUNGA CREEK	04-21-38	TU	PRESENT
F 328 -R	MINT CANYON CREEK AT FITCH AVENUE	10-26-56	TO	PRESENT
F 144 -S	MINT CANYON CREEK AT SOLEDAD CANYON HIGHWAY	11-27-31	TO	01-31-33
F 083 -R	MISSION CREEK AT SAN GABRIEL BOULEVARD	07-02-28	TO	PRESENT
F 330 -R	MISSION CREEK BELOW LEGG LAKE	08-08-56	TO	PRESENT
E 321 -R	MISSION CREEK BELOW WHITTIER NARROWS DAM	12-01-55	TU	PRESENT
F 022 -R	MONROVIA CREEK ABOVE SAWPIT CREEK	11-10-27	TO	09-30-61
F 195B-R	MONROVIA STORM DRAIN ABOVE PECK ROAD	12-15-55	TO	07-01-63
F 075 -S	MONROVIA STURM DRAIN AT PECK RD.-4 MEASUREMENTS	1929	TU	1930
F 195 -R	MONROVIA STORM DRAIN AT PECK ROAD	05-01-32	TO	12-29-54
F 181 -R	MONTEBELLO STORM DRAIN ABOVE RIO HONDO	01-12-32	TO	PRESENT
F 158 -S	NICHOLAS CANYON CREEK AT ROOSEVELT HIGHWAY	11-27-31	TO	12-14-36
U 015 -R	PACOIMA AT U.S.G.S. STATION	03-31-16	TO	09-30-29
F 154 -S	PACOIMA CREEK AT DILLIONS RANCH	12-12-30	TO	04-08-32
F 118 -R	PACOIMA CREEK FLUME BELOW PACOIMA DAM	10-01-29	TO	02-01-35
F 118B-R	PACOIMA CREEK FLUME BELOW PACOIMA DAM	02-09-35	TO	PRESENT
F 196 -S	PACOIMA CREEK NEAR MACLAY AVENUE	01-19-33	TO	PRESENT
F 305 -R	PACOIMA DIVERSION AT BRANFORD STREET	10-30-53	TO	PRESENT
F 018 -S	PACOIMA WASH AT FOOTHILL BOULEVARD	10-08-27	TO	03-04-44
F 016 -R	PACOIMA WASH AT PARTHENIA STREET	12-26-28	TO	09-03-52
F 017 -S	PACOIMA WASH AT SAN FERNANDO ROAD	10-08-27	TU	01-17-34
F 015 -R	PACOIMA WASH AT VAN NUYS BOULEVARD	10-14-52	TO	11-02-71
F 015 -S	PACOIMA WASH AT VAN NUYS BOULEVARD	01-04-30	TO	02-25-32
F 197 -S	PACOIMA WASH NEAR ARLETA ST.ABOVE SPROG GROS	03-04-32	TU	11-19-52
F 122 -S	PALLETT CREEK AT BIG ROCK CREEK	10-29-30	TU	10-31-61
F 122 -R	PALLETT CREEK AT VALYERMO HIGHWAY	10-31-61	TO	PRESENT
F 121 -S	PALLETT CREEK 1 MILE ABOVE BIG ROCK CREEK	10-25-30	TO	08-15-44
F 290 -S	PALM CREEK AT TELEGRAPH ROAD	02-11-48	TU	PRESENT
F 383 WG	PICKENS CANYON CHANNEL AT LA CRESCENTA AVE.	01-01-72	TU	PRESENT
F 388 WG	PICU CANYON CHANNEL AT WILEY CANYON ROAD	01-01-72	TU	PRESENT
F 136 -S	PICU CANYON CREEK AT HWY 1/2 MI W. OF SAUGUS	08-30-30	TO	12-08-32
F 134 -S	PLACERITA CANYON CREEK 1 MI. WEST OF NEWHALL	01-07-31	TO	02-08-32
F 344 -R	PROJECT 85 - PAC. WASH ABOVE VAN NUYS BLVD.	04-21-60	TO	PRESENT
F 040 -R	PUDDINGSTONE CREEK BELOW PUDDINGSTONE DAM	12-28-27	TO	PRESENT
F 115 -S	PUDDINGSTONE DIVERSION CHANNEL NEAR OUTLET	02-09-32	TU	01-23-33
F 307 -R	PUDD.DIV.CH.-SN.DIM.WAT.CO.OUTLT AT JUANITA	06-16-53	TO	06-20-63
F 089 -S	RINCON DITCH AT NEW DIVERSION	07-02-28	TO	06-14-29
F 248 -S	RIO HONDO ABOVE ARROW HIGHWAY	02-21-35	TO	04-21-36
F 064 -R	RIO HONDO ABOVE MISSION BRIDGE	07-01-28	TO	PRESENT
F 045B-R	RIO HONDO ABOVE STEWART AND GRAY ROAD	11-20-51	TU	PRESENT
F 192 -R	RIO HONDO AT LOWER AZUSA ROAD	02-22-32	TO	08-07-58
F 192B-R	RIO HONDO BELOW LOWER AZUSA ROAD	12-18-58	TO	PRESENT
F 045 -R	RIO HONDO AT STEWART AND GRAY ROAD	03-01-28	TU	11-20-51
E 325 -R	RIO HONDO BELOW GARVEY AVENUE	02-16-56	TO	PRESENT
E 327 -R	RIO HONDO BELOW WHITTIER NARROWS DAM	02-16-56	TU	PRESENT
F 313 -R	RIO HONDO BYPASS CH.ABOVE WHIT.NARROWS DAM	08-06-54	TO	PRESENT
F 325 -R	RIO HONDO-RISING WAT.CH.BELOW WHIT.NARR.DAM	10-23-58	TO	PRESENT
U 006 -S	ROGERS CREEK AT MOUTH OF CANYON	09-19-62	TU	PRESENT
U 006 -R	ROGERS CREEK NEAR AZUSA	05-19-16	TO	09-19-62
F 338 -R	RUBIO DIVERS.CH.BELOW GOOSEBERRY CYN INLET	12-16-59	TU	PRESENT
F 082 -R	RUBIO WASH AT BROADWAY	11-14-28	TO	09-30-30
F 082B-R	RUBIO WASH AT BROADWAY	01-20-32	TO	11-03-36
F 082C-R	RUBIO WASH AT GLENOON WAY	11-06-36	TU	PRESENT
F 107 -R	RUBIO WASH AT LAS TUNAS DRIVE	10-01-30	TU	01-19-32
F 238 -S	RUSTIC CANYON STORM DRAIN ABOVE CHANNEL ROAD	04-12-34	TO	06-05-41
F 323 -R	SAN ANTONIO CREEK ABOVE STODDARD CANYON	02-01-56	TO	11-01-69

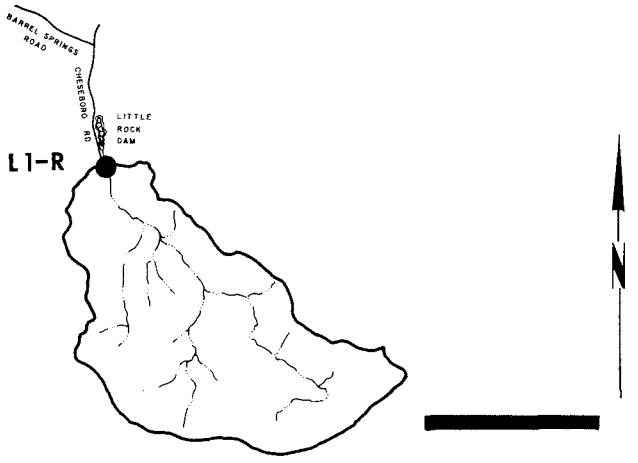
LIST OF STREAMFLOW RECORDS AVAILABLE (cont'd)

STATION NUMBER	STATION NAME	PERIOD OF RECORD		
F 151 -R	SAN ANTONIO CREEK AT MOUTH OF CANYON	02-20-31	TO	03-31-55
F 033 -R	SAN ANTONIO SPRG. GDS. AT MOUTH OF CANYON	03-10-29	TO	02-14-31
F 332 -R	SAN ANTONIO WAT.CO.DIV.AT ONTARIO #1 PWR HSE	02-08-57	TO	01-03-69
F 091 -S	SAN DIMAS CREEK ABOVE SAN DIMAS DAM	02-19-29	TO	05-06-37
F 101 -S	SAN DIMAS CREEK BELOW SAN DIMAS DAM	11-01-51	TO	PRESENT
F 303 -R	SAN DIMAS CREEK BELOW SAN DIMAS DAM	12-24-51	TO	PRESENT
F 218 -R	SAN DIMAS WASH BELOW PUDC.STONE DIVERS. DAM	01-26-33	TO	PRESENT
F 094 -S	SAN FRANCISQUITO CREEK NEAR CASTAIC JUNCTION	11-27-29	TO	02-27-31
F 220B-R	SAN GAB.-AZUSA COND.10-FT WEIR BELOW S.G.DAM	10-23-63	TO	PRESENT
F 220 -R	SAN GABRIEL-AZUSA COND.AT NO. PORTAL #4B TUNN	02-17-33	TO	10-23-63
F 250 -R	SAN GAB.-AZUSA COND.25 FT.WEIR BELOW S.G.DAM	02-14-35	TO	PRESENT
F 230 -R	SAN GABRIEL-AZUSA CONDUIT BELOW SAND BOX	03-17-34	TO	02-13-35
S 100A-R	SAN GAB-AZUZA-DUARTE TUN.DIV.AT NO. S.G. CYN	1918	TO	PRESENT
F 025 -S	SAN GABRIEL - BEAR CREEK ABOVE MOUTH	02-08-28	TO	07-03-34
F 099 -R	SAN GABRIEL - BEAR CREEK ABOVE WEST FORK	10-01-29	TO	12-20-35
F 099B-R	SAN GABRIEL - BEAR CREEK ABOVE WEST FORK	12-20-35	TO	02-06-38
F 079 -S	SAN GABRIEL - BROWNS GULCH ABOVE MOUTH	03-27-33	TO	10-14-34
F 029 -S	SAN GABRIEL - CATTLE CYN CREEK ABOVE E. FORK	10-03-28	TO	11-22-33
F 227 -R	SAN GABRIEL-DEVILS CYN.CK.ABOVE S.GAB.DAM #2	11-16-33	TO	02-01-38
M 335 -R	SAN GAB.-M.W.D. OUTLT.BELOW SAN BERNADINO RD.	11-30-57	TO	PRESENT
F 262B-R	SAN GABRIEL RIVER ABOVE FLORENCE AVENUE	08-06-68	TO	PRESENT
P 005 -R	SAN GABRIEL RIVER ABOVE PASADENA DAM SITE	10-14-32	TO	11-17-33
F 042B-R	SAN GABRIEL RIVER ABOVE SPRING STREET	11-16-64	TO	PRESENT
F 247B-S	SAN GABRIEL RIVER AT ARROW HIGHWAY	02-21-35	TO	02-11-43
F 263 -R	SAN GABRIEL RIVER AT BEVERLY BOULEVARD	02-04-37	TO	03-06-52
F 263B-R	SAN GABRIEL RIVER AT BEVERLY BOULEVARD	03-06-52	TO	08-09-68
F 028 -R	SAN GABRIEL RIVER AT EDISON INTAKE	11-06-27	TO	06-03-37
F 261 -R	SAN GABRIEL RIVER AT ELLIOT AVENUE	03-11-37	TO	09-30-41
F 190 -R	SAN GABRIEL RIVER AT FOOTHILL BOULEVARD	04-25-32	TO	PRESENT
F 262 -R	SAN GABRIEL RIVER AT FLORENCE AVENUE	02-27-37	TO	09-30-67
F 000 -R	SAN GABRIEL RIVER AT HOAG RANCH	02-13-26	TO	05-26-33
E 322 -R	SAN GABRIEL RIVER AT PECK ROAD	10-01-55	TO	PRESENT
F 042 -R	SAN GABRIEL RIVER AT SPRING STREET	02-06-28	TO	05-26-64
F 237 -R	SAN GABRIEL RIVER AT TELEGRAPH ROAD	04-04-34	TO	09-05-35
F 261B-R	SAN GABRIEL RIVER AT VALLEY BOULEVARD	10-01-41	TO	04-23-46
F 063 -R	SAN GABRIEL RIVER AT WHITTIER BOULEVARD	09-01-28	TO	01-27-37
F 223 -S	SAN GABRIEL RIVER BELOW EDISON INTAKE	02-22-33	TO	04-10-33
F 222 -S	SAN GABRIEL RIVER BELOW F.C. DAM #1	02-15-33	TO	10-26-33
F 191B-R	SAN GABRIEL RIVER BELOW GARVEY AVENUE	04-01-32	TO	01-25-37
P 006 -R	SAN GABRIEL RIVER BELOW MORRIS DAM	10-04-35	TO	01-02-37
U 008 -R	SAN GABRIEL RIVER BELOW MORRIS DAM	05- 1894	TO	PRESENT
F 208 -S	SAN GABRIEL RIVER BELOW MORRIS DAM	08-03-33	TO	PRESENT
F 263C-R	SAN GABRIEL RIVER BELOW SAN GAB.RIV. PARKWAY	08-09-68	TO	PRESENT
E 281 -R	SAN GABRIEL RIVER BELOW SANTA FE DAM	02-09-43	TO	PRESENT
F 086 -S	SAN GABRIEL RIVER BELOW STANDEFER DITCH	09-14-38	TO	PRESENT
F 261C-R	SAN GABRIEL RIVER BELOW VALLEY BOULEVARD	11-29-60	TO	PRESENT
F 314 -R	SAN GAB.RIV.BYPASS CH.ABOVE WHIT.NARROWS DAM	08-05-54	TO	09-30-65
P 002 -R	SAN GABRIEL RIVER - E. FORK BELOW CATTLE CYN.	11-06-24	TO	09-30-32
F 027 -S	SAN GABRIEL RIVER - E. FORK BELOW CATTLE CYN	01-31-28	TO	12-12-29
F 096 -R	SAN GABRIEL RIVER - E. FORK BELOW CATTLE CYN.	10-03-29	TO	04-17-34
F 078 -S	SAN GABRIEL RIVER - EAST FORK ABOVE DAM SITE	02-06-28	TO	09-12-29
P 004 -R	SAN GABRIEL RIVER -EAST FORK ABOVE FORKS	11-30-32	TO	12-10-38
P 004B-R	SAN GABRIEL RIVER -EAST FORK ABOVE FORKS	12-10-38	TO	PRESENT
F 233 -R	SAN GABRIEL RIVER NEAR ROBERTS RELAY STATION	02-05-34	TO	12-28-37
F 098 -R	SAN GABRIEL RIVER-NURTH FORK ABOVE NARROWS	09-03-29	TO	03-02-38
F 026 -S	SAN GABRIEL RIVER - NORTH FORK AT NARROWS	02-08-28	TO	12-20-29
S 100B-R	SAN GAB RIVER OLD DUARTE DITCH BELOW HOWKS	1918	TO	PRESENT
F 224 -S	SAN GABRIEL RIVER ON RAIL ROAD BRIDGE	03-21-33	TO	05-26-33
F 206 -S	SAN GABRIEL RIVER - W. FORK ABOVE DEVILS CYN	05-26-32	TO	05-10-34
F 228 -R	SAN GABRIEL RIVER-W.FORK ABOVE S.GAB DAM #2	12-06-33	TO	01-26-38
F 209 -R	SAN GABRIEL RIVER-W.FORK BELOW COGSWELL DAM	12-08-33	TO	PRESENT
F 076 -S	SAN GAB RIVER - WEST FORKS ABOVE BEAR CREEK	11-12-28	TO	05-12-38
F 077 -S	SAN GABRIEL RIVER - WEST FORK ABOVE FORKS	10-12-28	TO	03-07-30
P 001 -R	SAN GABRIEL RIVER - WEST FORK ABOVE FORKS	11-08-23	TO	12-03-30
P 003 -R	SAN GABRIEL RIVER - WEST FORK ABOVE FORKS	12-03-30	TO	PRESENT
F 023 -S	SAN GABRIEL RIVER - WEST FORK ABOVE NARROWS	01-21-32	TO	05-26-32
F 097 -R	SAN GABRIEL RIVER-WEST FORK ABOVE NORTH FORK	10-01-30	TO	10-02-34
F 228 -R	SAN GABRIEL RIVER-W.FORK ABOVE SAN GAB DAM #2	12-06-33	TO	01-26-38
F 024 -S	SAN GABRIEL RIVER - WEST FORK AT NARROWS	11-12-28	TO	05-26-29
F 251 -R	SAN GABRIEL RIVER-W.FORK AT TOE OF COGS. DAM	04-26-35	TO	PRESENT
P 003B-R	SAN GABRIEL RIVER - WEST FORK BELOW N FORK	07-12-38	TO	09-27-38
F 312 -R	SAN JOSE CHANNEL ABOVE WORKMAN MILL ROAD	09-13-55	TO	PRESENT
F 292 -S	SAN JOSE CREEK AT HACIENDA AVENUE	04-15-48	TO	PRESENT
F 357 -R	SAN JOSE CREEK AT MISSION MILL ROAD	12-09-64	TO	09-27-72
F 048 -R	SAN JOSE CREEK AT WORKMAN MILL ROAD	01-02-29	TO	12-09-64
F 103 -R	SAN PASQUAL WASH AT S.P.R.R. MAIN LINE	10-01-30	TO	09-30-32
F 273 -S	SAN PASQUAL WASH BELOW HUNTINGTON DRIVE	12-24-40	TO	02-15-41
F 145 -S	SAND CANYON CREEK AT SOLEDAD CANYON HIGHWAY	02-04-31	TO	01-31-33
F 289 -S	SANDROCK CREEK AT PEARBLOSSOM HIGHWAY	10-15-47	TO	PRESENT
F 260 -R	SANTA ANITA CREEK ABOVE LITTLE SANTA ANITA CK	08-17-36	TO	04 09-38

STATION NUMBER	STATION NAME	PERIOD OF RECORD		
F 021 -R	SANTA ANITA CREEK BELOW BIG SANTA ANITA DAM	08-19-27	TO	04-07-35
F 119 -R	SANTA ANITA CREEK BELOW BIG SANTA ANITA DAM	09-26-35	TO	02-06-48
F 119B-R	SANTA ANITA CREEK BELOW BIG SANTA ANITA DAM	02-06-48	TO	09-30-63
F 119C-R	SANTA ANITA CREEK BELOW SANTA ANITA DAM	01-13-64	TO	PRESENT
F 071 -S	SANTA ANITA WASH AT FOOTHILL BOULEVARD	10-05-27	TO	01-29-33
F 260B-R	SANTA ANITA WASH AT FOOTHILL BOULEVARD	04-10-38	TO	04-20-59
F 193B-R	SANTA ANITA WASH AT LONGDEN AVENUE	01-05-60	TO	PRESENT
F 193 -R	SANTA ANITA WASH BELOW ARROW HIGHWAY	05-01-32	TO	03-01-38
F 260C-R	SANTA ANITA WASH BELOW FOOTHILL BOULEVARD	12-11-59	TO	PRESENT
F 093 -S	SANTA CLARA RIVER ABOVE LANG R.R. STATION	11-06-29	TO	09-22-49
F 093 -R	SANTA CLARA RIVER ABOVE LANG R.R. STATION	10-18-49	TO	01-27-70
F 147 -S	SANTA CLARA RIVER AT BOUQUET CANYON ROAD	01-08-31	TO	01-31-38
F 093B-R	SANTA CLARA RIVER AT LANG R.R. BRIDGE	04-03-70	TO	PRESENT
F 092 -R	SANTA CLARA RIVER AT OLD HIGHWAY BRIDGE	10-25-29	TO	03-28-38
F 092 -R	SANTA CLARA RIVER AT OLD HIGHWAY BRIDGE	10-04-56	TO	PRESENT
F 092B-R	SANTA CLARA RIVER BELOW THE OLD ROAD	10-01-38	TO	09-27-56
F 137 -R	SANTA CLARA RIVER 1/2 MI WEST OF COUNTY LINE	10-01-48	TO	09-01-53
F 137B-S	SANTA CLARA RIVER 1 MILE EAST OF COUNTY LINE	11-11-30	TO	10-01-48
F 135 -R	SANTA CLARA RIVER -SO. FORK AT MAGIC MT PKWY	12-22-45	TO	PRESENT
F 280 -R	SANTA FE CHANNEL BELOW SANTA FE DAM	10-01-42	TO	PRESENT
F 272 -S	SANTA MONICA CREEK ABOVE RUSTIC CANYON	03-28-40	TO	PRESENT
F 055 -S	SANTA MONICA CREEK BELOW RUSTIC CANYON	11-27-31	TO	03-15-56
F 367 -S	SANTA SUSANA CREEK AT TOPANGA CANYON BLVD.	08-31-64	TO	PRESENT
F 125 -S	SANTIAGO CREEK ABOVE LITTLE ROCK CREEK	04-04-33	TO	06-04-53
F 125 -R	SANTIAGO CREEK ABOVE LITTLE ROCK CREEK	09-29-53	TO	PRESENT
U 005 -R	SAWPIT CREEK BELOW MONROVIA CREEK	11-08-16	TO	PRESENT
F 278 -R	SAWPIT CREEK BELOW SAWPIT DAM	02-06-42	TO	PRESENT
F 194 -R	SAWPIT WASH ABOVE ARROW HIGHWAY	02-22-32	TO	09-30-35
F 194 -S	SAWPIT WASH AT LONGDEN AVENUE	05-05-55	TO	07-01-63
F 194B-R	SAWPIT WASH BELOW LIVE OAK AVENUE	12-05-60	TO	PRESENT
F 301 -R	SAWTELLE-WESTWOOD CHANNEL ABOVE CULVER BLVD	01-22-51	TO	PRESENT
F 385 WG	SCHOOLHUUSE CYN.CHAN.BELOW FOOTHILL BLVD.	01-01-72	TO	PRESENT
F 185 -R	SEPULVEDA CK(SAWTELLE-WESTWOOD CH)AT CHARNOCK	09-15-32	TO	05-29-50
F 088 -S	SHEEP CREEK BELOW TEMPLE DIVERSION	07-02-28	TO	07-12-29
F 267B-R	SIERRA MADRE AT HIGHLAND OAKS AVENUE	10-30-38	TO	PRESENT
F 067 -R	SIERRA MADRE WASH BELOW SIERRA MADRE DAM	01-28-29	TO	05-20-36
F 067B-R	SIERRA MADRE WASH BELOW SIERRA MADRE DAM	05-21-36	TO	PRESENT
F 188 -S	SLAUSON STORM DRAIN AT COCHRAN AVENUE	12-21-31	TO	02-19-32
F 257 -S	SOLSTICE CREEK AT ROOSEVELT HIGHWAY	02-01-36	TO	02-04-43
F 068 -S	SPANISH CREEK ABOVE SAWPIT CREEK	03-16-30	TO	03-17-30
F 085 -S	STANDEFER DITCH BELOW HEAD GATE	07-02-28	TO	09-27-56
B 324 -R	STODDARD CREEK ABOVE SAN ANTONIO CREEK	10-28-58	TO	02-01-70
F 043 -R	SYCAMORE CANYON CHANNEL ABOVE SOLWAY STREET	01-30-28	TO	01-06-70
F 044 -R	SYCAMORE CANYON CHANNEL AT ADAMS SQUARE	12-15-27	TO	08-03-48
F 044B-R	SYCAMORE CANYON CHANNEL AT ADAMS SQUARE	08-03-48	TO	04-04-63
F 276 -R	THOMPSON CK.SPROG.GRDS.AT INTAKE F.C. DAM	01-14-41	TO	PRESENT
F 032 -S	THOMPSON CREEK BELOW THOMPSON CREEK DAM	12-28-31	TO	12-20-43
F 032 -R	THOMPSON CREEK BELOW THOMPSON CREEK DAM	12-21-43	TO	09-30-44
F 032B-R	THOMPSON CREEK BELOW THOMPSON CREEK DAM	10-01-44	TO	PRESENT
F 146 -S	TICK CANYON CREEK AT SOLEDAD CANYON HIGHWAY	02-04-31	TO	01-22-33
F 054 -R	TOPANGA CREEK ABOVE MOUTH OF CANYON	01-01-30	TO	06-04-40
F 054B-R	TOPANGA CREEK ABOVE MOUTH OF CANYON	06-05-40	TO	PRESENT
F 389 WG	TOWSLEY CANYON CHANNEL ABOVE GAVIN CYN. CHAN.	01-01-72	TO	PRESENT
F 258 -S	TRANCAS CREEK AT ROOSEVELT HIGHWAY	12-29-35	TO	04-16-43
F 258B-S	TRANCAS CREEK 1/2 MI ABOVE PACIFIC COAST HWY	10-17-63	TO	PRESENT
F 066 -S	TRI-CITY OUTFALL SEWER ABOVE RIO HONDO	11-12-28	TO	09-29-38
F 066B-S	TRI-CITY OUTFALL SEWER OUTLET OF PIPELINE	10-06-38	TO	03-04-48
F 059 -S	TRIUNFO CREEK AT CRAGS COUNTRY CLUB DAM	03-18-32	TO	05-06-32
F 203 -S	TRIUNFO CREEK AT SHERWOOD DAM	02-01-32	TO	04-13-33
E 020C-R	TUJUNGA WASH ABOVE GLENOAKS BOULEVARD	10-01-52	TO	PRESENT
F 020B-R	TUJUNGA WASH AT GLENOAKS BOULEVARD	01-11-40	TO	04-11-51
F 105 -R	TUJUNGA WASH AT MAGNOLIA BOULEVARD	08-19-30	TO	03-24-49
F 020 -S	TUJUNGA WASH AT MULHOLLAND AVENUE	01-31-31	TO	04-01-32
F 114 -S	TUJUNGA WASH AT SAN FERNANDO ROAD	01-31-31	TO	07-22-32
F 020 -R	TUJUNGA WASH AT STONEHURST AVENUE	04-29-32	TO	11-02-39
E 286 -R	TUJUNGA WASH BELOW HANSEN DAM IN LOW FLOW CH	10-01-40	TO	09-30-52
F 105B-R	TUJUNGA WASH BELOW MCORPARK STREET	03-22-50	TO	08-25-72
F 359 -S	TUJUNGA WASH-CENTRAL BRANCH AT VINELAND AVE.	12-01-61	TO	PRESENT
F 106 -R	TUJUNGA WASH - CENTRAL BR. AT MAGNOLIA BLVD.	08-19-30	TO	08-13-59
F 011 -S	TUJUNGA WASH - CENTRAL BR. AT S.P.R.R. BRIDGE	02-04-28	TO	01-01-34
F 291 -S	VALYERMO RANCH SPRINGS CK AT PEARBLOSSOM HWY	10-15-47	TO	PRESENT
F 236 -R	VERDUGO CHANNEL AT OPEECHEE WAY	02-09-34	TO	12-21-34
F 264 -R	VERDUGO CHANNEL AT DEL VALLE AVENUE	01-14-38	TO	01-17-57
F 244 -R	VERDUGO CHANNEL AT DON CARLOS STREET	12-13-34	TO	08-10-37
F 009 -R	VERDUGO CHANNEL AT GLENOAKS BOULEVARD	12-13-28	TO	12-31-34
F 386 WG	VERDUGO CHANNEL AT LA TUNA CANYON ROAD	01-01-72	TO	PRESENT
F 387 WG	VERDUGO CHANNEL BELOW NEW YORK AVENUE	01-01-72	TO	PRESENT
F 252 -R	VERDUGO WASH AT ESTELLE AVENUE	12-02-35	TO	PRESENT
F 138 -S	VIOLIN CANYON WASH AT CASTAIC CREEK	02-04-31	TO	01-20-33
F 047 -R	WALNUT CREEK AT BALDWIN PARK AVENUE	12-15-28	TO	10-14-52
F 304 -R	WALNUT CREEK AT PUENTE AVENUE	10-14-52	TO	PRESENT
F 148 -S	WELDON CANYON CREEK 1/2 MI ABOVE AQUEDUCT	12-13-30	TO	01-22-33
F 364 -S	WILSON CANYON CHANNEL AT ASTORIA STREET	12-01-64	TO	PRESENT
F 050 -S	WILSON CANYON NEAR COUNTY HOSPITAL	02-08-32	TO	05-06-37

STATION NO. L 1 - 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

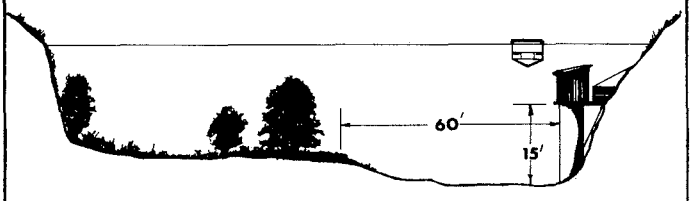
REGULATION – none

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 L1-R

DAILY DISCHARGE IN SECOND-FEET OF LITTLE ROCK CREEK above Little Rock Dam FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	2.7	2.1	3.9	89	38	49	8.7	1.4	0.2	0
2	0	0	2.5	2.3	3.9	64	37	45	8.7	1.2	0.2	0
3	0	0	2.5	2.5	4.2	51	37	46	8.0	1.0	0.6	0
4	0	0	4.2	2.5	8.0	46	37	46	7.7	0.9	0.5	0
5	0	0	8.7	2.1	7.4	40	36	45	7.4	0.7	0.5	0
6	0	0	5.2	2.0	26	41	41	40	6.7	0.7	0.3	0
7	0	0	4.6	2.1	60	42	54	39	6.4	0.7	0.2	0
8	0	0	4.2	2.3	27	42	65	40	6.1	0.6	0.2	0
9	0	0	3.4	2.7	17	40	60	40	5.2	0.6	0.1	0
10	0	0	2.7	3.2	15	40	56	41	4.9	0.5	0.1	0
11	0	0	2.7	2.7	556	49	65	41	4.6	0.5	0.1	0
12	0	0	2.7	2.7	127	49	72	37	4.4	0.5	0.1	0
13	0	0	2.7	2.7	72	45	72	35	4.4	0.4	0.1	0
14	0	0.3	2.5	2.7	52	41	64	32	4.4	0.4	0.1	0
15	0	2.0	2.5	2.7	42	38	59	31	4.6	0.4	0.1	0
16	0	2.1	2.5	4.2	34	36	56	29	4.4	0.4	0.1	0
17	0	6.4	2.5	11	31	36	60	27	4.4	0.4	0.1	0
18	0	3.4	2.7	11	30	36	70	27	4.4	0.3	0.1	0
19	0	2.3	2.7	20	29	36	62	24	3.9	0.3	0.1	0
20	0	2.3	3.4	8.7	29	45	58	22	3.4	0.3	0.1	0
21	0	2.3	4.4	7.0	27	38	52	20	3.2	0.3	0.1	0
22	0	2.3	4.4	6.4	25	36	49	19	3.2	0.3	0.1	0
23	0	2.3	3.9	5.2	23	36	52	17	2.9	0.3	0.1	0
24	0	2.3	3.6	4.9	23	38	60	15	2.7	0.3	0.1	0
25	0	2.1	3.2	4.6	24	41	66	15	2.1	0.3	0.1	0
26	0	2.0	2.7	4.6	25	42	74	14	2.1	0.2	0.1	0
27	0	2.9	2.7	3.9	29	40	78	12	2.1	0.2	0.1	0
28	0	3.6	2.7	3.6	153	37	76	11	2.0	0.2	0.1	0
29	0	3.2	2.5	3.6		36	66	11	1.8	0.2	+	0
30	0	2.9	2.3	3.9		33	58	9.5	1.6	0.2	+	0
31	0		2.3	4.4		36		9.1		0.2	+	
MEAN	0	1.49	3.30	4.65	53.7	42.5	57.7	28.7	4.55	0.48	0.15	0
ACRE-FEET	0	89	203	286	2980	2620	3430	1760	271	30	9.3	0

YEAR OR PERIOD MEAN 16.1
ACRE-FEET 11,680

STATION DATA SUMMARY

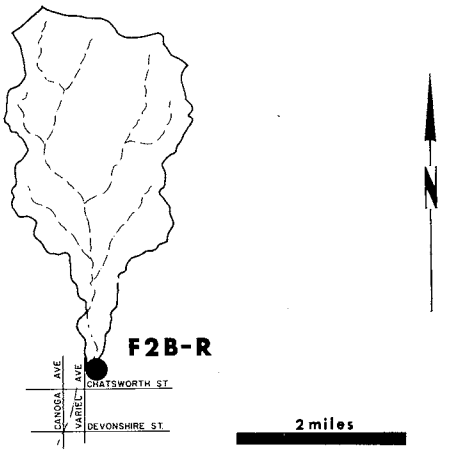
STA. NO. L1-R
LITTLE ROCK CREEK ABOVE LITTLE ROCK DAM

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK MON	PEAK DAY	PEAK FLOW 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.D.
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.D.	0	N.D.	N.D.	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	2	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	+	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	3.8	2800	4	1	49
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

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

STATION NO. F 2B-R
BROWNS CREEK
at Variel Avenue

drainage area



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

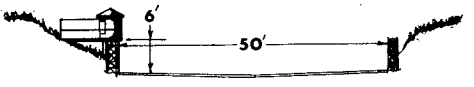
REGULATION – none

CHANNEL – sand and gravel with pipe and wire revetments, temporarily improved section

CONTROL – concrete stabilizer

LENGTH OF RECORD –
at Station F2-R, December 11, 1928, to August 27, 1932
October 2, 1935, to October 31, 1939
at Station F2B-R, October 12, 1961, to date

cross-section



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO F2B-R

DAILY DISCHARGE IN SECOND-FEET OF BROWNS CREEK at Variel Avenue — FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	October	November	December	January	February	March	April	May	June	July	August	September
1	0	0	0	0	0.1	1.5	0.2	0.1	e 0	e 0	e 0	e 0
2	0	0	0	0	0.1	1.0	0.2	e 0.1	e 0	e 0	e 0	e 0
3	0	0	0	0	0.7	1.2	0.2	e 0.1	e 0	e 0	e 0	e 0
4	0	0	1.5	0	0.2	1.4	0.2	e 0.1	e 0	e 0	e 0	e 0
5	0	0	0	0	0.9	1.4	0.2	e 0.1	e 0	e 0	e 0	e 0
6	0	0	+	0	10.7	1.4	0.2	e 0.1	e 0	e 0	e 0	e 0
7	0	0	0.2	0	4.4	1.8	0.2	e 0.1	e 0	e 0	e 0	e 0
8	0	0	0.2	0	1.7	5.7	0.2	e 0.1	e 0	e 0	e 0	e 0
9	0	0	0.1	0.2	1.2	b 6.4	0.1	e 0.1	e 0	e 0	e 0	e 0
10	0	0	0.1	+	23	b 7.0	0.2	e 0.1	e 0	e 0	e 0	e 0
11	0	+	+	0	155	2.5	0.2	e 0.1	e 0	e 0	e 0	e 0
12	0	0	+	0	31	3.1	0.4	e 0.1	e 0	e 0	e 0	e 0
13	0	0	+	0	28	2.5	0.9	e 0.1	e 0	e 0	e 0	e 0
14	0	1.4	0	0	8.3	1.7	0.6	e 0.1	e 0	e 0	e 0	e 0
15	0	0	0	0	5.1	1.4	0.2	e 0.1	e 0	e 0	e 0	e 0
16	0	3.2	0	19	a 1.5	1.4	0.2	e +	e 0	e 0	e 0	e 0
17	0	0	0	3.8	a 1.2	3.1	0.4	e +	e 0	e 0	e 0	e 0
18	0	0	0	68	a 1.2	3.8	0.2	e +	e 0	e 0	e 0	e 0
19	0	0	0	3.8	a 1.2	5.1	b 0.2	e +	e 0	e 0	e 0	e 0
20	0	0	0	b 3.3	a 1.2	19	b 0.2	e +	e 0	e 0	e 0	e 0
21	0	0	0	b 2.8	a 1.0	4.4	b 0.2	e +	e 0	e 0	e 0	e 0
22	0	0	0	b 2.3	a 1.0	1.0	b 0.2	e +	e 0	e 0	e 0	e 0
23	0	0	0	b 1.8	a 1.0	0.6	b 0.2	e +	e 0	e 0	e 0	e 0
24	0	0	0	b 1.3	a 1.0	0.6	b 0.2	e +	e 0	e 0	e 0	e 0
25	0	0	0	b 0.8	a 0.8	0.2	b 0.2	e +	e 0	e 0	e 0	e 0
26	0	0	0	b 0.3	a 1.0	0.6	0.1	e +	e 0	e 0	e 0	e 0
27	0	0	0	0.2	a 16	0.4	0.1	e +	e 0	e 0	e 0	e 0
28	0	0	0	0.1	5.1	0.2	0.1	e +	e 0	e 0	e 0	e 0
29	0	0	0	0.2		0.2	0.2	e +	e 0	e 0	e 0	e 0
30	0	0	0	0.2		0.4	0.1	e +	e 0	e 0	e 0	e 0
31	0		0	0.2		0.6		e +		e 0	e 0	

MEAN	0	0.15	0.07	3.49	10.8	2.63	0.23	0.05	0	0	0	0
ACRE-FEET	0	9.1	4.2	215	603	162	14	3.0	0	0	0	0

YEAR OR PERIOD MEAN 1.39
ACRE-FEET 1010

STATION DATA SUMMARY

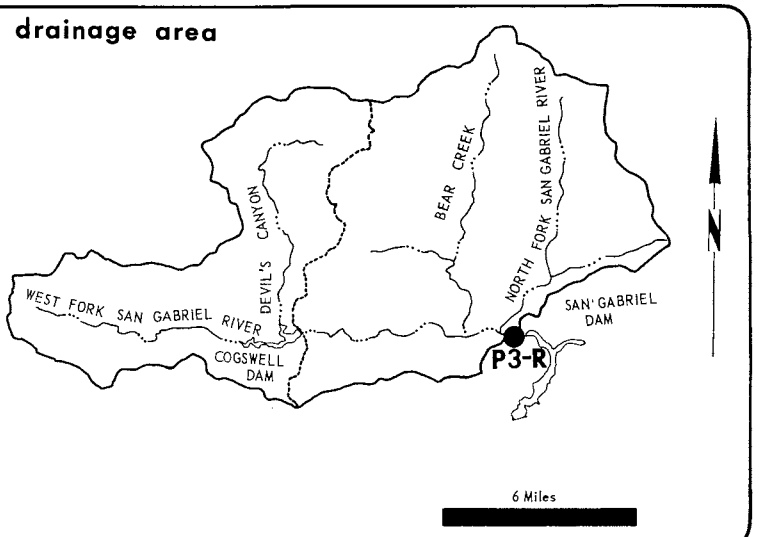
STA. NO. F2B-R
BROWNS CREEK AT VARIEL AVENUE

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

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

STATION NO. P 3-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

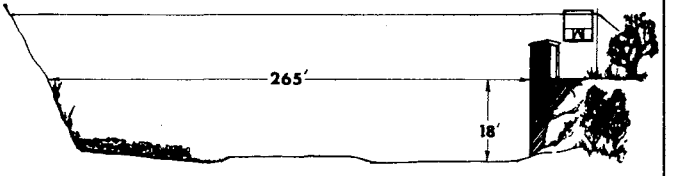
CHANNEL - natural, sand, gravel, and boulders

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 above Forks FOR THE WATER YEAR ENDING SEPTEMBER 30, 1973

	October	November	December	January	February	March	April	May	June	July	August	September
1	5.1	6.6	12.0	11.6	18.0	e 227	e 189	72	42	35	28	23
2	5.3	6.6	12.0	12.0	17.2	e 164	e 155	70	50	35	26	26
3	5.5	6.6	12.0	12.0	29	e 152	e 129	68	49	33	25	25
4	5.5	6.6	25	12.0	33	e 147	156	66	46	33	25	23
5	5.3	6.6	20	12.0	23	e 137	152	66	42	33	25	26
6	5.1	6.6	16.4	11.6	104	e 132	152	62	41	33	25	26
7	5.3	6.6	22	11.6	259	e 184	152	60	39	32	25	23
8	5.6	6.6	18.0	11.2	119	e 239	152	58	39	33	25	25
9	6.0	6.6	14.8	14.0	74	e 233	152	56	39	32	25	25
10	6.2	6.6	14.0	12.8	132	e 229	149	54	38	32	25	26
11	6.1	9.6	13.6	12.0	e 3760	e 223	149	50	38	32	26	28
12	6.1	7.5	13.6	11.6	e 569	e 269	149	50	36	32	28	28
13	6.0	7.1	13.2	11.6	e 393	e 311	149	50	36	32	26	28
14	6.0	26	13.6	11.2	e 571	e 359	149	50	38	36	26	28
15	5.8	12.4	13.6	11.2	e 695	e 347	146	49	39	41	25	28
16	7.8	31	13.2	39	e 394	e 337	122	47	38	38	23	29
17	29	28	13.2	58	e 437	e 332	100	47	38	42	21	30
18	29	18.0	12.8	85	e 419	e 329	98	50	36	42	20	26
19	37	15.6	12.8	100	e 403	e 258	93	50	33	44	19.6	28
20	35	14.8	12.8	41	e 389	e 264	88	50	32	44	18.8	30
21	33	13.6	12.8	30	e 303	e 177	81	49	36	39	18.0	32
22	32	13.2	12.8	23	e 150	e 170	79	47	38	33	17.2	32
23	29	12.8	12.4	20	e 129	e 164	74	46	38	33	16.4	32
24	25	12.4	12.0	20	e 118	e 159	74	46	36	32	15.6	30
25	7.1	12.4	11.6	21	e 107	e 152	74	47	35	30	15.6	29
26	6.5	12.4	12.0	22	e 100	e 150	74	46	35	30	17.2	28
27	6.5	12.0	12.0	19.6	e 140	e 153	74	42	38	30	25	26
28	6.5	12.0	12.0	18.8	e 365	e 208	74	39	38	29	25	23
29	6.4	12.0	12.0	18.0		e 209	74	38	36	29	20	23
30	6.3	12.0	12.0	19.6		e 202	74	38	35	29	20	23
31	6.3		11.6	18.8		e 197		39		28	20	
MEAN	12.5	12.4	13.9	23.6	366	220	118	51.7	38.5	34.1	22.5	12.0
ACRE-FEET	768	716	856	1450	20,330	13,520	7010	3180	2290	2090	1380	1600

YEAR OR PERIOD MEAN 76.2
ACRE-FEET 55,190

STATION DATA SUMMARY

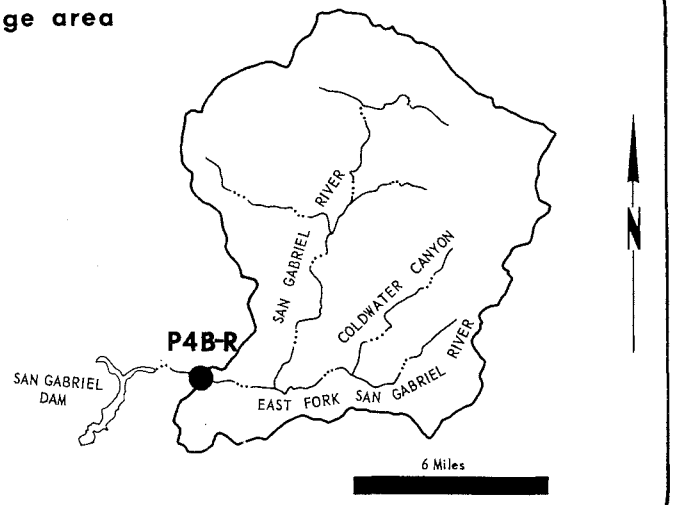
STA. NO. P3-R
SAN GABRIEL RIVER - WEST FORK ABOVE FORKS

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS
1927-28	704	1.6	17.9	15180	2	4	1620
1928-29	422	0	20.7	14960	4	4	775
1929-30	225	1.9	25.5	18470	3	15	301
1930-31	676	1.2	20.2	14630	4	26	1530
1931-32	598	1.4	76.3	55360	2	9	3790
1932-33	1360	2.5	33.1	23990	1	19	3460
1933-34	3340	1.5	34.5	24990	1	1	5320
1934-35	1180	1.9	77.5	56110	4	8	1840
1935-36	312	2.5	31.8	23070	2	12	752
1936-37	1640	2.7	133	96590	2	14	2000
1937-38	*	13	237	171900E	3	2	34000E
1938-39	1140	7.5	46.5	33660	9	25	2530
1939-40	369	6.5	38.2	27720	1	8	1220
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	83500	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	8350	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
1964-65	228	1.7	21.1	15270	4	9	534
1965-66	4000	2.7	160	115600	12	29	13000
1966-67	2320	7.0	143	103600	12	6	4700
1967-68	559	12	47.5	34460	11	19	1400
1968-69	4370	11	363	262900	2	25	26000
1969-70	788	12	49.7	35840	2	28	2370
1970-71	1590	12	46.7	33810	11	29	6230
1971-72	453	5.5	20.3	14740	12	24	791
1972-73	3760	5.1	76.2	55190	2	11	15200

E = ESTIMATE
* = RECORD INCOMPLETE

STATION NO. P 4B-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 Azuso

REGULATION – none

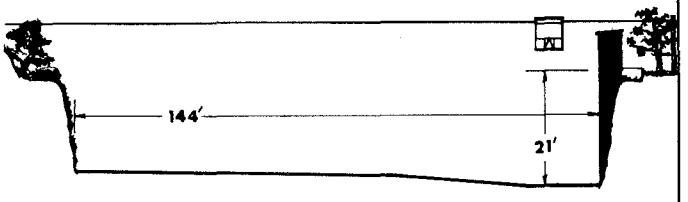
CHANNEL – sand, gravels, and boulders, natural section

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 above Forks FOR THE WATER YEAR ENDING SEPTEMBER 30, 1973

	October	November	December	January	February	March	April	May	June	July	August	September
1	d 8.2	8.8	9.9	12.3	21	e 250	153	169	d 93	d 54	d 38	d 23
2	d 8.2	8.8	9.3	12.3	20	e 185	e 154	165	d 92	d 53	d 38	d 23
3	d 8.2	8.8	9.3	12.9	28	e 175	e 155	167	d 90	d 52	d 38	d 23
4	d 8.2	8.8	26	13.5	39	e 165	e 155	167	d 88	d 52	d 37	d 22
5	d 8.2	8.8	24	12.9	53	e 157	e 156	174	d 87	d 51	d 37	d 22
6	d 8.2	8.8	20	12.3	99	302	e 156	162	d 86	d 50	d 37	d 22
7	d 8.3	8.8	23	12.3	132	e 204	e 157	160	d 84	d 49	d 37	d 22
8	d 8.5	8.8	19.5	11.7	95	e 210	e 157	165	d 82	d 48	d 37	d 22
9	d 8.6	8.8	17.0	13.5	87	e 240	e 158	169	d 80	d 47	d 37	d 22
10	d 8.7	8.8	14.7	12.3	106	e 260	e 159	177	d 78	d 46	d 35	d 22
11	d 8.8	15.8	14.7	11.7	1830	e 270	e 160	177	d 76	d 45	d 33	d 22
12	d 8.8	13.5	14.7	11.7	e 506	e 275	186	174	d 74	d 44	d 32	d 22
13	d 8.8	12.3	13.5	11.7	e 338	e 255	179	169	d 72	d 44	d 31	d 22
14	d 8.8	23	13.5	11.1	e 262	239	165	167	d 70	d 44	d 30	d 22
15	d 8.8	19.5	13.5	11.1	e 210	182	157	160	d 70	d 43	d 29	d 21
16	d 8.8	27	12.9	24	e 168	184	151	153	d 69	d 43	d 28	d 21
17	d 8.8	25	12.9	40	e 161	e 180	157	147	d 68	d 42	d 28	d 20
18	d 8.8	19.5	12.9	64	e 154	e 172	165	145	d 67	d 42	d 28	d 20
19	d 9.5	16.1	13.5	81	e 148	e 167	157	147	d 66	d 42	d 28	d 19.6
20	d 9.3	14.1	13.5	48	e 142	246	151	141	d 65	d 41	d 27	d 19.2
21	d 9.1	11.7	13.5	42	e 135	201	147	137	d 64	d 41	d 27	d 19.0
22	d 8.9	11.1	13.5	39	e 128	221	149	130	d 63	d 40	d 27	d 18.8
23	d 8.9	11.1	13.5	36	e 121	e 236	157	125	d 62	d 40	d 26	d 18.6
24	d 8.9	9.3	12.9	32	e 115	252	169	121	d 61	d 40	d 26	d 18.3
25	d 8.9	10.3	13.5	30	e 108	233	182	117	d 60	d 39	d 26	d 18.0
26	d 8.9	9.9	12.9	26	e 102	227	192	113	d 59	d 39	d 25	d 17.9
27	d 8.9	9.9	12.9	25	e 110	207	204	110	d 58	d 39	d 25	d 18.0
28	d 8.9	9.9	12.9	23	e 360	194	204	109	d 57	d 38	d 25	d 18.4
29	d 8.9	9.9	12.9	23		179	196	105	d 56	d38 38	d 24	d 18.8
30	d 8.9	9.9	12.9	23		167	172	101	d 55	d 38	d 24	d 19.2
31	d 8.9		12.3	22		155		97		d 38	d 24	

MEAN	8.72	12.6	14.6	24.6	206	213	165	146	71.7	43.9	30.4	20.6
ACRE-FEET	537	748	897	1510	11,460	13,070	9840	8970	4270	2700	1870	1220

YEAR OR PERIOD MEAN 78.9
ACRE-FEET 57,090

STATION DATA SUMMARY

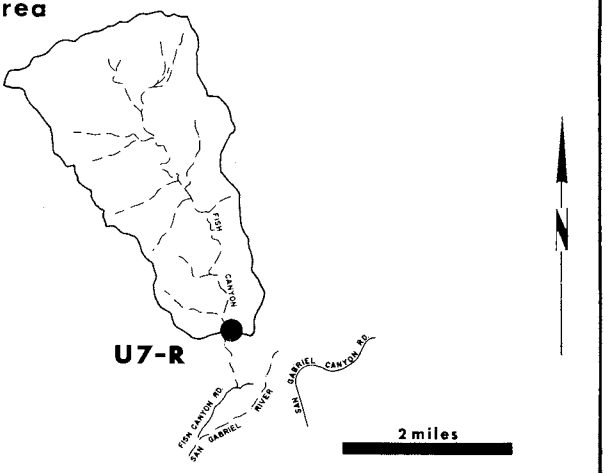
STA. NO. P48-R
SAN GABRIEL RIVER - EAST FORK ABOVE FORKS

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	52000	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

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

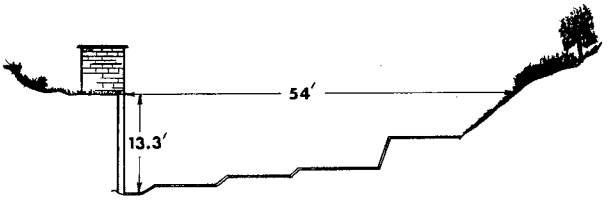
CHANNEL – natural, rock and gravel

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, 19 73

	October	November	December	January	February	March	April	May	June	July	August	September
1	0.6	0.3	0.8	a 0.7	2.3	28	a 16	d 5.7	d 3.3	d 2.3	d 1.8	d 1.5
2	0.8	0.3	0.8	a 0.7	2.2	21	a 15	d 5.6	d 3.2	d 2.2	d 1.8	d 1.5
3	0.9	0.3	0.8	a 0.7	4.1	b 17	a 14	d 5.6	d 3.2	d 2.2	d 1.8	d 1.5
4	0.9	0.3	5.2	a 0.7	3.4	b 15	a 13	d 5.5	d 3.1	d 2.2	d 1.9	d 1.5
5	0.9	0.3	2.2	a 0.7	2.7	13	a 13	d 5.4	d 3.0	d 2.2	d 1.9	d 1.5
6	0.5	0.4	1.3	a 0.6	23	22	a 12	d 5.3	d 3.0	d 2.1	d 1.9	d 1.4
7	0.5	0.5	4.6	a 0.6	54	24	a 11	d 5.2	d 2.9	d 2.1	d 1.9	d 1.4
8	0.4	0.5	2.7	a 0.6	28	29	a 11	d 5.2	d 2.8	d 2.1	d 1.8	d 1.4
9	0.5	0.5	1.9	a 0.6	18	26	a 10	d 5.1	d 2.7	d 2.1	d 1.8	d 1.4
10	0.4	0.6	1.5	a 0.6	39	21	a 9.0	d 5.0	d 2.7	d 2.0	d 1.8	d 1.4
11	0.4	2.7	1.2	a 0.5	480	a 65	a 9.0	d 4.9	d 2.6	d 2.0	d 1.7	d 1.4
12	0.4	0.9	1.1	a 0.5	69	a 25	d 8.6	d 4.8	d 2.6	d 2.0	d 1.7	d 1.4
13	0.4	0.6	1.1	a 0.5	50	a 24	d 8.4	d 4.7	d 2.6	d 2.0	d 1.7	d 1.4
14	0.5	3.7	1.0	a 0.5	28	a 24	d 8.2	d 4.6	d 2.6	d 1.9	d 1.6	d 1.4
15	0.6	1.2	0.9	a 0.5	34	a 23	d 8.0	d 4.6	d 2.6	d 1.9	d 1.6	d 1.4
16	0.5	9.2	0.6	a 5.0	28	a 23	d 7.8	d 4.5	d 2.5	d 1.9	d 1.6	d 1.3
17	0.5	4.8	1.0	a 6.6	22	a 22	d 7.6	d 4.4	d 2.5	d 1.8	d 1.6	d 1.3
18	0.6	1.9	0.9	a 5.0	21	a 22	d 7.4	d 4.3	d 2.5	d 1.8	d 1.6	d 1.3
19	1.5	1.3	1.0	a 15	19	a 21	d 7.2	d 4.3	d 2.5	d 1.8	d 1.6	d 1.3
20	0.7	1.1	1.0	a 10	19	a 55	d 7.0	d 4.2	d 2.5	d 1.8	d 1.6	d 1.3
21	0.4	1.0	1.0	a 8.5	b 19	a 30	d 6.8	d 4.1	d 2.4	d 1.8	d 1.6	d 1.3
22	0.3	0.9	1.1	a 6.5	b 18	a 25	d 6.6	d 4.0	d 2.4	d 1.7	d 1.6	d 1.3
23	0.2	0.8	1.1	a 4.5	b 18	a 24	d 6.4	d 4.0	d 2.4	d 1.7	d 1.5	d 1.3
24	0.2	0.8	1.1	3.3	b 17	a 23	d 6.3	d 3.9	d 2.4	d 1.7	d 1.5	d 1.3
25	0.2	0.8	1.2	3.3	b 17	a 22	d 6.2	d 3.8	d 2.4	d 1.6	d 1.5	d 1.2
26	0.2	0.8	1.2	3.1	b 16	a 21	d 6.2	d 3.8	d 2.3	d 1.6	d 1.5	d 1.2
27	0.2	0.8	1.2	2.7	27	a 20	d 6.1	d 3.7	d 2.3	d 1.6	d 1.5	d 1.2
28	0.2	0.8	1.0	2.5	54	a 19	d 6.0	d 3.6	d 2.3	d 1.7	d 1.5	d 1.2
29	0.2	0.8	1.0	2.4		a 18	d 5.9	d 3.5	d 2.3	d 1.7	d 1.5	d 1.2
30	0.2	0.8	0.8	2.6		a 17	d 5.8	d 3.5	d 2.3	d 1.7	d 1.5	d 1.2
31	0.2		0.7	2.4		a 16		d 3.4			d 1.5	
MEAN	0.48	1.32	1.39	2.98	40.8	24.4	8.85	4.52	2.63	1.90	1.66	1.35
ACRE-FEET	30	79	85	183	2270	1500	527	278	156	117	102	80

YEAR OR PERIOD MEAN 7.44
ACRE-FEET 5390

STATION DATA SUMMARY

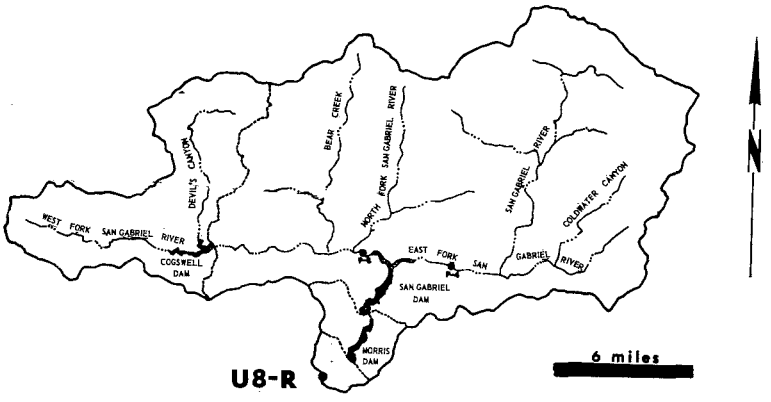
STA. NO. U7-R
FISH CREEK ABOVE MOUTH OF CANYON

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS
1917-18	193	0.1	4.1	2960	3	10	330
1918-19	10	0	0.9	648	2	11	21
1919-20	83	+	3.0	2160	3	2	255
1920-21	120	0	2.3	1670	3	13	286
1921-22	290	0.1	12.4	8980	2	9	505
1922-23	64	0.1	2.1	1510	12	12	186
1923-24	14	0	0.5	344	3	26	58
1924-25	132	0	1.7	1230	4	4	N.D.
1925-26	410	0.1	7.2	5170	4	7	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	50	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
1968-69	5540	0.7	55.2	39980	1	25	13000
1969-70	99	0.8	4.2	3010	2	28	898
1970-71	93	0.6	3.3	2400	11	29	259
1971-72	23	0.1	1.0	742	12	24	62
1972-73	480	0.2	7.4	5390	2	11	1600

N.D. = NOT DETERMINED
E = ESTIMATE

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

drainage area



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

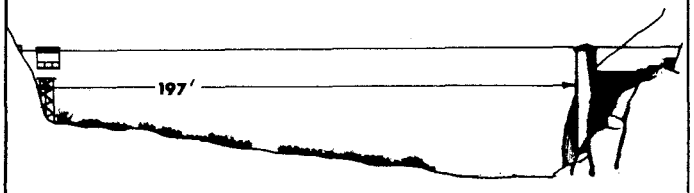
CHANNEL – gravel and boulders, natural section

CONTROL – channel forms 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

cross-section



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, 19 78

	October	November	December	January	February	March	April	May	June	July	August	September
1	0	151	143	0	0	442	612	225	74	0	0	0
2	0	262	62	0	0	625	235	225	74	0	0	0
3	0	242	0	0	0	630	58	210	76	7.3	0	0
4	0	242	+	0	0	635	277	183	77	26	0	0
5	0	245	0	0	0	635	277	167	77	27	0	0
6	0	245	0	0	+	650	277	165	78	37	0	0
7	0	247	0	0	101	645	277	154	76	32	0	0
8	0	247	0	0	250	310	277	141	41	52	0	0
9	0	247	0	0	253	332	277	143	3.0	52	0	0
10	32	250	0	0	259	580	230	143	2.0	32	0	0
11	35	253	0	0	40	584	198	146	1.5	0.5	0	0
12	34	256	0	0	13.7	575	200	146	0	0	0	0
13	30	172	0	0	119	580	202	146	0	0	0	0
14	31	+	0	0	385	580	205	146	0	0	0	0
15	32	0	0	0	718	580	208	157	0	0	0	0
16	32	+	0	1.5	849	658	276	171	0	0	0	0
17	32	0	0	0	838	735	328	171	0	0	0	0
18	32	0	0	5.7	826	735	285	171	0	0	0	0
19	33	0	0	0.5	815	720	220	171	0	0	0	0
20	33	34	0	0	798	351	220	171	86	0	0	0
21	33	141	0	0	793	228	220	171	160	0	0	0
22	33	146	0	0.4	787	437	220	154	79	0	0	0
23	33	146	0	0	701	607	220	167	2.0	0	0	0
24	33	146	0	0	523	612	220	141	1.0	0	0	0
25	33	146	0	0	523	620	220	128	0	0	0	0
26	33	146	0	0	709	625	220	119	0	0	0	0
27	30	146	0	0	669	625	220	119	0	0	0	0
28	25	146	0	0	253	620	220	117	0	0	0	0
29	25	146	0	0		616	222	107	0	0	0	0
30	26	146	0	0		616	222	217	0	0	0	0
31	26		0	0		616		83		0	0	
MEAN	22.1	152	6.61	0.26	401	574	245	154	30.0	9.22	0	0
ACRE-FEET	1360	9020	407	16	22,260	35,310	14,560	9490	1800	570	0	0

YEAR OR PERIOD MEAN 131
ACRE-FEET 94,790

Additional information

Releases of imported water are made occasionally from The Metropolitan Water District outlet, USG 3, below Morris Dam. These releases flow past the Gaging Station U8-R and are included in the record of that station. During the 1971-72 season a release of 2915.5 acre-feet was made in February. Releases in the 1972-73 season were 6667 acre-feet in November and 436 acre-feet in December.

Average discharge of local water for a 78-year period is 153 second-feet (adjusted for regulations and diversions).

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

Month	1969-70 A.F.	1970-71 A.F.	1971-72 A.F.	1972-73 A.F.
October	4370	1720	1280	896
November	4600	9240	1420	1960
December	3960	11250	10370	2260
January	4060	11310	6770	3980
February	7720	6480	3500	37120
March	20710	5440	2850	32950
April	7060	4270	2370	20270
May	5070	3700	1840	14270
June	3160	2570	1360	6980
July	2130	1750	918	4280
August	1790	1370	773	2990
September	1510	1170	848	2280
Total	66140	60270	34300	130240

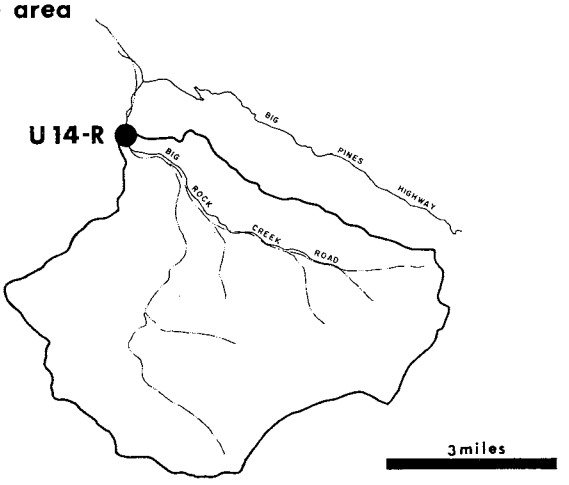
STA. NO. U8-R
SAN GABRIEL RIVER BELOW MORRIS DAM

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	250
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	588	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	22080	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	8	299
1972-73	849	0	131	94790	3	19	918

*N.D. = NOT DETERMINED

STATION NO. U 14-R
BIG ROCK CREEK
above Mouth of Canyon

drainage area



RECORDER – continuous water stage

METHOD OF MEASUREMENTS – wading or from cable car

DRAINAGE AREA – 22.9 square miles

LOCATION – 0.1 mile above Punchbowl Canyon, 0.9 mile southwest of Valyermo

REGULATION – none

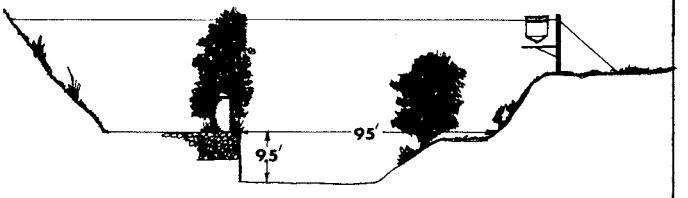
CHANNEL – natural; sand, gravel, and boulders

CONTROL – channel forms control

LENGTH OF RECORD – January, 1923 to September, 1937
May 1938 to date

REMARKS - operated and maintained by USGS

cross-section



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO U14-R

DAILY DISCHARGE IN SECOND-FEET OF BIG ROCK CREEK above Mouth of Canyon FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	October	November	December	January	February	March	April	May	June	July	August	September
1	2.7	2.9	4.1	4.9	3.8	34	26	34	30	20	14	8.6
2	2.9	2.9	4.1	4.9	3.8	34	27	33	29	20	14	8.6
3	2.9	2.8	4.3	4.9	4.3	32	26	34	26	20	14	8.6
4	2.9	2.9	3.8	4.8	4.3	31	27	34	25	19	13	8.6
5	2.9	3.1	3.3	4.6	4.3	26	27	35	25	19	13	8.6
6	2.9	3.2	3.3	4.7	7.6	26	28	33	25	19	13	8.6
7	2.9	3.1	3.3	4.8	9.0	26	31	33	24	19	13	8.2
8	2.9	3.1	3.3	4.6	7.5	25	33	33	24	19	13	8.2
9	2.9	3.1	3.3	5.1	6.8	22	34	34	24	19	13	8.2
10	2.9	3.1	3.3	4.9	7.7	21	34	36	24	19	14	8.2
11	3.0	3.3	3.1	4.9	50	24	36	36	23	19	13	8.2
12	3.0	3.4	2.9	4.9	29	23	39	35	23	19	13	7.8
13	3.0	3.6	2.9	4.9	27	21	38	35	23	20	13	7.8
14	3.1	3.7	2.9	4.9	25	20	37	35	23	18	13	7.8
15	3.3	3.6	2.9	4.6	23	20	36	34	22	17	13	7.8
16	3.3	3.8	2.9	5.8	23	20	36	34	22	16	14	7.8
17	3.3	3.8	3.4	4.9	22	20	37	34	21	15	12	7.4
18	3.4	3.6	4.1	6.2	20	22	38	33	22	14	12	7.4
19	3.6	3.6	4.1	6.0	19	22	36	35	22	14	12	7.4
20	3.6	3.6	4.1	5.1	19	26	34	34	22	14	12	7.4
21	3.4	3.5	4.1	4.8	17	26	31	33	22	13	12	7.2
22	3.3	3.5	4.1	4.5	16	26	30	32	22	14	12	7.2
23	2.8	3.5	4.1	4.3	14	25	31	31	22	15	12	7.0
24	2.8	3.2	4.1	4.2	14	26	32	32	22	15	12	7.0
25	2.8	3.2	4.2	4.1	13	26	35	31	22	15	11	7.0
26	2.8	3.3	4.3	4.0	13	27	38	31	21	14	10	6.8
27	2.8	3.3	4.3	3.8	14	27	38	30	21	14	10	6.6
28	2.8	3.3	4.3	3.8	66	27	40	31	21	14	10	6.4
29	2.9	3.3	4.3	3.8		26	40	31	20	15	10	6.4
30	2.9	3.6	4.3	4.0		26	36	30	19	15	9.5	6.2
31	2.9		4.4	3.8		26		30		14	9.5	
MEAN	3.02	3.33	3.74	4.69	17.3	25.3	33.7	33.1	23.0	16.7	12.2	7.63
ACRE-FEET	186	198	230	289	958	1,550	2,010	2,040	1,370	1,030	752	454

YEAR OR PERIOD MEAN 15.3
ACRE-FEET 11,060

STATION DATA SUMMARY

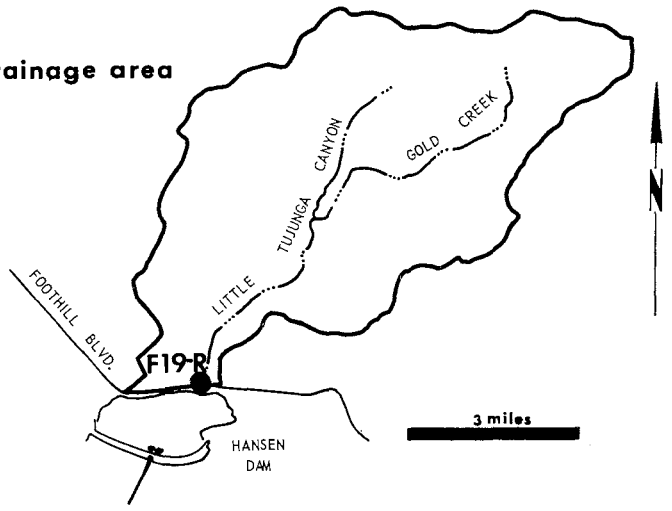
STA. NO. U14-R
BIG ROCK CREEK ABOVE MOUTH OF CANYON

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS
1923-24	18	2.0	5.8	4180	4	14	19
1924-25	12	1.7	4.0	2860	4	4	16
1925-26	251	1.6	16.8	12200	4	7	416
1926-27	433	5.5	22.0	16000	2	16	510
1927-28	46	2.2	7.5	5470	2	4	86
1928-29	56	1.8	5.4	3870	3	10	136
1929-30	45	2.0	8.5	6160	3	25	56
1930-31	51	2.6	5.9	4270	4	26	98
1931-32	378	2.6	22.8	16500			N.D.
1932-33	22	3.0	8.2	5950	4	4	24
1933-34	193	2.0	6.6	4760	1	1	246
1934-35	217	1.5	24.6	17800	12	14	338
1935-36	65	2.2	6.9	5000	2	23	70
1936-37	241	2.2	30.0	21710			N.D.
1937-38	*	*	*	*	3	2	8300**
1938-39	124	6.0	14.7	10660	12	18	552
1939-40	78	5.0	11.9	8660	2	25	150
1940-41	410	4.5	50.3	36420	2	21	512
1941-42	24	4.1	9.7	7000	8	10	175
1942-43	1380	3.6	42.5	30740	1	23	3000
1943-44	112	6.5	33.2	24120	12	19	180
1944-45	129	5.8	14.4	10450	11	11	513
1945-46	385	4.8	20.1	14560	12	21	650
1946-47	540	5.5	22.2	16040	12	26	900
1947-48	45	2.9	6.4	4640	4	29	84
1948-49	24	*	5.8	4180	4	23	26
1949-50	31	1.6	4.7	3390	2	26	48
1950-51	3.7	0.9	1.9	1380	4	28	4.3
1951-52	139	0.7	24.2	17540	12	30	224
1952-53	14	2.0	6.6	4780	12	1	17
1953-54	150	1.8	9.6	6980	1	25	320
1954-55	26	4.0	8.2	5940	11	11	48
1955-56	185	2.3	6.6	4800	1	26	380
1956-57	149	2.3	6.1	4420	1	13	362
1957-58	203	2.5	34.6	25020	12	15	399
1958-59	88	2.5	7.2	5190	2	16	215
1959-60	5.1	1.3	2.9	2130	2	1	6.5
1960-61	20	0.9	2.4	1740	11	5	34
1961-62	678	0.9	19.7	14240	2	11	1090
1962-63	26	1.8	4.6	3360	2	9	80
1963-64	6.7	1.8	4.0	2900	11	20	13
1964-65	38.0	1.6	5.5	3970	4	26	46
1965-66	546	2.6	34.0	26640	12	29	2100
1966-67	544	3.5	27.5	19940	12	6	1200
1967-68	114	4.9	11.3	8230	11	19	240
1968-69	2370	3.2	69.6	50380	1	25	4760
1969-70	106	3.2	10.7	7770	2	28	182
1970-71	166	3.0	9.8	7080	11	29	534
1971-72	190	1.6	7.3	5270	12	27	2200
1972-73	66	2.7	15.3	11060	2	11	161

** = STATION DESTROYED BY FLOOD OF 3-2-38.
PEAK FLOW BY SLOPE-AREA METHOD
N.D. = NOT DETERMINED
* = RECORD INCOMPLETE

STATION NO. F 19 - R
LITTLE TUJUNGA WASH
at Foothill Boulevard

drainage area



RECORDER – continuous water stage

METHOD OF MEASUREMENTS – wading or from bridge

DRAINAGE AREA – 21.0 square miles

LOCATION – at Foothill Boulevard bridge, 4.0 miles easterly of San Fernando

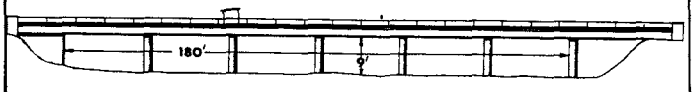
REGULATION – none

CHANNEL – sand and silt, natural in section

CONTROL – concrete wall below gage

LENGTH OF RECORD – December 26, 1928, to date

cross-section



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F 19–R

DAILY DISCHARGE IN SECOND-FEET OF LITTLE TUJUNGA WASH at Foothill Boulevard FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	0	0	0	5.4	0	0	0	0	0	0
2	0	0	0	0	0	b 4.0	0	0	0	0	0	0
3	0	0	0	0	+	b 1.2	0	0	0	0	0	0
4	0	0	0.2	0	+	b 0.5	0	0	0	0	0	0
5	0	0	0	0	0.3	b 0.2	0	0	0	0	0	0
6	0	0	+	0	1.3	b 0.5	0	0	0	0	0	0
7	0	0	0.2	0	9.9	b 0.4	0	0	0	0	0	0
8	0	0	0	0	0.2	+	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	53	0	0	0	0	0	0	0
11	0	0	0	0	a 477.0	0.1	0	0	0	0	0	0
12	0	0	0	0	a 35.0	0.6	0	0	0	0	0	0
13	0	0	0	0	a 30.0	0.7	0	0	0	0	0	0
14	0	0.1	0	0	a 9.7	0.4	0	0	0	0	0	0
15	0	0	0	0	a 3.3	b 0.1	0	0	0	0	0	0
16	0	0.7	0	4.6	a 0.6	0	0	0	0	0	0	0
17	0	+	0	1.1	a 0.1	0	0	0	0	0	0	0
18	0	0	0	17	0	0	0	0	0	0	0	0
19	0	0	0	0.8	0	0	0	0	0	0	0	0
20	0	0	0	0	0	23	0	0	0	0	0	0
21	0	0	0	0	0	23	0	0	0	0	0	0
22	0	0	0	0	0	b 10	0	0	0	0	0	0
23	0	0	0	0	0	b 3.0	0	0	0	0	0	0
24	0	0	0	0	0	b 2.0	0	0	0	0	0	0
25	0	0	0	0	0	b 0.5	0	0	0	0	0	0
26	0	0	0	0	0	b 0.2	0	0	0	0	0	0
27	0	0	0	0	15	b 0.1	0	0	0	0	0	0
28	0	0	0	0	46	b +	0	0	0	0	0	0
29	0	0	0	0		b +	0	0	0	0	0	0
30	0	0	0	0		b +	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
MEAN	0	.03	0.01	.76	24.3	2.45	0	0	0	0	0	0
ACRE-FEET	0	1.6	0.8	46	1350	150	0	0	0	0	0	0

YEAR OR PERIOD MEAN 2.14
ACRE-FEET 1550

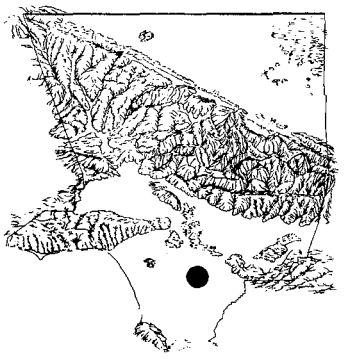
STATION DATA SUMMARY

STA. NO. F19-R
LITTLE TUJUNGA WASH AT FOOTHILL BOULEVARD

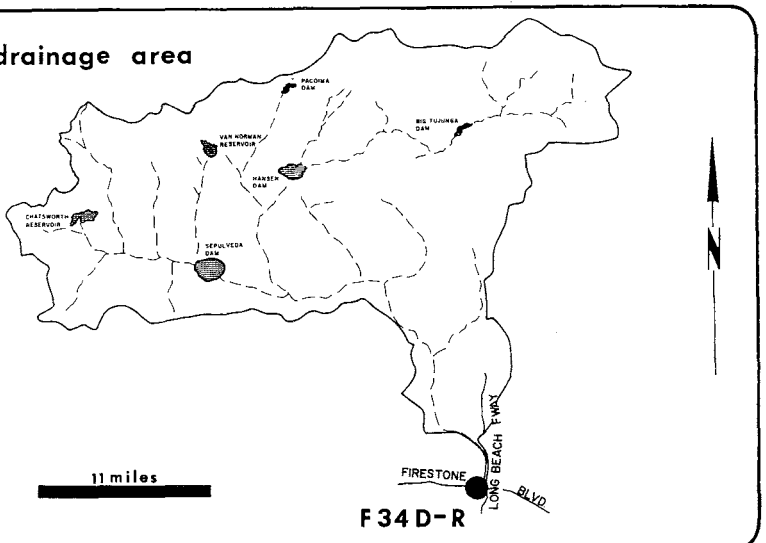
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS	
1930-31	7.1	0	0.1	57	2	4	30	
1931-32	274	0	2.6	1870	2	9	660	
1932-33	118	0	0.7	514	1	19	450	
1933-34	258	0	1.1	819	1	1	1360	
1934-35	63	0	0.6	455	12	13	89	
1935-36	83	0	1.3	929	2	2	653	
1936-37	175	0	6.6	4760	2	14	964	
1937-38	1300	0	12.4	8960	3	2	8500	E
1938-39	40	0	0.7	504	3	9	175	
1939-40	148	0	1.2	899	1	8	2090	
1940-41	534	0	14.6	10600	3	4	1310	
1941-42	30	0	0.3	199	12	28	198	
1942-43	592	0	10.2	7380	1	23	3700	
1943-44	826	0	8.0	5840	2	22	4220	
1944-45	48	0	0.8	550	11	11	244	
1945-46	96	0	0.8	577	3	30	156	
1946-47	54	0	1.0	706	11	20	200	
1947-48	2.6	0	+	9.1	3	24	16	
1948-49	0.1	0	+	0	5	19	0.9	
1949-50	3.1	0	+	29	12	18	9.8	
1950-51	1.4	0	+	9.0	1	11	13	
1951-52	422	0	7.7	5570	1	16	2110	
1952-53	18	0	0.2	184	12	1	138	
1953-54	43	0	0.6	407	2	13	198	
1954-55	7.3	0	0.1	47	1	18	35	
1955-56	125	0	0.5	385	1	26	445	
1956-57	5.0	0	0.1	35	2	28	112	
1957-58	223	0	4.8	3440	4	3	559	
1958-59	10	0	0.1	71	1	6	84	
1959-60	0.6	0	+	1.4	2	1	6.0	
1960-61	11	0	0.1	52	11	5	266	
1961-62	365	0	3.3	2390	2	11	1630	
1962-63	9.8	0	0.1	45	2	10	52	
1963-64	20	0	0.1	81	1	22	256	
1964-65	50	0	0.3	201	4	9	223	
1965-66	355	0	5.2	3760	11	24	1300	
1966-67	358	0	5.7	4140	12	6	906	
1967-68	43	0	0.6	420	11	19	112	
1968-69	1180	0	16.9	12260	2	25	1420	
1969-70	37	0	0.4	286	2	28	353	
1970-71	93	0	1.0	710	11	29	569	
1971-72	58	0	0.4	239	12	25	762	
1972-73	477	0	2.1	1550	2	11	1570	

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

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.

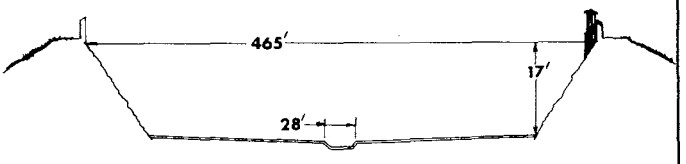
CHANNEL – concrete, with rip-rap side slopes, trapezoidal in section, with trapezoidal low-flow channel

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 Boulevard FOR THE WATER YEAR ENDING SEPTEMBER 30, 1973

	October	November	December	January	February	March	April	May	June	July	August	September
1	20	18.0	19.0	17.0	31	161	46	54	27	34	42	21
2	20	21	28	19.0	27	208	42	36	24	31	39	17.0
3	24	20	16.2	22	1,430	187	50	39	24	32	39	16.2
4	20	21	2,580	21	697	264	50	40	25	35	40	18.0
5	20	44	86	19.0	130	120	54	42	31	34	39	24
6	19.0	35	33	21	3,340	384	56	37	35	40	37	21
7	17.0	28	1,010	19.0	4,420	480	54	39	31	37	39	21
8	15.4	25	213	22	158	1,710	46	48	39	32	34	22
9	13.0	23	48	386	70	194	32	36	31	35	32	20
10	15.4	28	23	196	2,480	56	40	36	25	40	32	20
11	15.4	1,080	19.0	31	14,470	973	40	35	27	44	31	21
12	15.4	42	23	27	1,660	350	39	31	27	68	26	23
13	17.0	22	21	24	3,220	188	37	35	32	63	27	25
14	15.4	2,800	20	19.0	699	150	36	28	32	65	37	21
15	15.4	106	19.0	19.0	425	142	35	31	32	58	31	22
16	25	1,920	18.0	5,560	170	97	35	34	32	70	27	24
17	19.0	713	18.0	547	180	65	42	44	26	68	21	24
18	29	42	22	5,750	130	65	39	32	28	39	23	27
19	205	24	22	583	116	63	35	31	31	42	25	24
20	141	19.0	19.0	70	81	2,790	31	30	27	42	36	20
21	24	18.0	22	34	42	892	31	34	30	39	28	19.0
22	15.4	15.4	47	31	46	473	26	48	31	32	24	19.0
23	15.4	14.6	23	27	48	83	28	37	31	36	23	20
24	19.0	14.6	22	27	40	65	36	31	26	39	24	24
25	17.0	14.6	18.0	27	46	56	35	37	30	39	25	19.0
26	17.0	16.2	21	28	39	85	36	32	37	36	21	16.2
27	23	16.2	25	26	1,240	63	37	27	42	35	19.0	18.0
28	17.0	18.0	24	26	2,210	54	35	28	30	35	23	15.4
29	16.2	17.0	26	25		39	34	35	42	31	22	84
30	14.6	19.0	18.0	297		37	32	31	37	32	21	22
31	18.0		18.0	40		36		30		39	23	
MEAN	28.3	240	146	450	1,340	340	39.0	35.7	30.7	42.2	29.4	22.9
ACRE-FEET	1,740	14,270	8,970	27,690	74,670	20,890	2,320	2,200	1,830	2,590	1,800	1,360

YEAR OR PERIOD MEAN 221
ACRE-FEET 160,300

STATION DATA SUMMARY

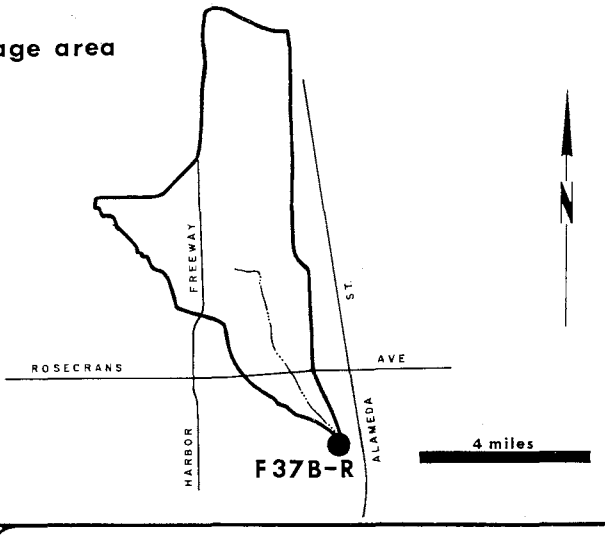
STA. NO. F34D-R
LOS ANGELES RIVER BELOW FIRESTONE BOULEVARD

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS
1927-28	*	0	*	6990*	2	4	1120*
1928-29	775	0	13.6	9830	11	14	2010
1929-30	813	0	13.4	9730	3	15	2210
1930-31	1560	1.4	18.6	13450	2	4	4360
1931-32	2650	0.4	35.3	25620	2	8	4780
1932-33	2900	0	23.5	17020	1	19	7070
1933-34	8550	0	52.9	38330	1	1	29400
1934-35	1430	0	40.3	29170	1	5	10400
1935-36	1040	0	20.5	14920	2	12	5730
1936-37	3460	0	67.2	48630	12	30	10000E
1937-38B	40000	0	278	201300	3	2	79000
1938-39	5090E	0	108	78440	9	25	10800
1939-40C	2410	14E	80.5	58420	1	8	7610
1940-41	7580	10	345	249500	2	20	14800
1941-42	2030	27	97.8	70820	12	10	8210
1942-43	10700	18	268	193700	1	23	27500
1943-44	13000	38	249	180900	2	22	24800
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
1960-61	2230	4.5	32.6	23600	11	5	7810
1961-62	9630	3.8	170	123300	2	12	28400
1962-63	4080	4.3	56.2	40690	2	9	19300
1963-64	2810	2.6	49.6	36030	1	21	11400
1964-65	3380	4.3	66.5	48110	4	9	18700
1965-66	15700	4.3	209	151200	12	29	37000
1966-67	10000	6.0	159	114800	11	7	37100
1967-68	9410	13	116	84240	3	8	37400
1968-69	31800	12	541	391800	1	25	58000
1969-70	4250	13	90.4	65440	2	28	20900
1970-71	16700	11	162	117300	11	29	49800
1971-72	6980	14	86.6	62890	12	24	27400
1972-73	14470	13.0	221	160300	2	11	35000

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

drainage area



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

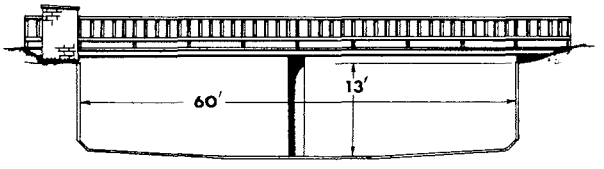
REGULATION – none

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

cross-section



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, 1973

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	1.9	0.6	1.6	0.2	0.9	1.6	0.6	0.4	0.8	0.8	1.9	0.9
2	1.6	0.4	1.6	0.2	0.9	0.9	0.8	0.4	0.6	0.8	2.6	0.6
3	1.6	0.6	1.6	0.2	83	0.8	0.6	0.6	0.6	1.2	2.6	0.4
4	1.6	0.8	206	0.4	28	1.2	0.6	2.3	0.6	0.9	2.3	0.6
5	1.6	0.8	1.9	0.4	16.6	0.8	0.6	0.8	0.4	0.9	1.6	0.6
6	1.9	0.6	36	0.3	156	30	0.9	0.4	0.6	1.6	2.3	0.6
7	1.9	3.1	176	0.3	304	6.2	0.9	0.8	0.6	1.2	1.9	2.6
8	0.9	6.5	47	0.3	2.6	177	0.8	0.4	1.6	0.9	1.9	1.9
9	0.8	1.2	1.6	58	1.9	2.6	0.9	0.8	1.9	0.6	1.9	0.9
10	0.9	2.7	0.6	7.5	25	1.6	1.6	0.9	0.6	0.9	1.6	0.9
11	0.9	88	0.2	0.9	375	79	1.2	0.4	0.2	1.6	2.6	0.9
12	1.6	0.9	0.2	0.9	89	34	0.9	0.6	0.4	1.2	1.6	1.2
13	0.9	0.8	1.2	0.8	74	1.2	3.3	0.4	0.4	1.2	1.2	1.9
14	1.2	361	0.9	0.8	1.6	0.8	1.2	0.6	0.4	1.6	2.3	1.2
15	0.9	2.9	0.4	0.8	1.2	0.9	1.9	0.4	0.4	0.9	1.9	0.8
16	0.9	304	0.8	473	0.9	0.9	2.6	0.6	0.4	0.6	1.9	0.8
17	1.2	119	0.9	7.7	1.6	0.9	1.6	0.8	0.2	0.8	1.9	0.9
18	34	1.2	0.8	171	1.6	0.8	1.2	0.6	0.4	0.6	1.9	1.9
19	15.4	1.2	0.8	9.8	0.9	0.8	2.3	0.9	1.9	0.8	1.2	2.3
20	1.2	0.8	0.6	0.4	0.8	141	1.6	0.6	1.6	0.9	1.6	0.9
21	0.8	1.2	0.6	0.4	0.9	112	2.3	0.6	1.6	0.9	2.3	1.6
22	0.8	1.2	0.6	0.4	0.9	7.2	2.3	0.4	1.6	0.8	1.9	0.9
23	0.6	0.9	0.6	0.8	1.2	0.9	1.6	0.9	1.2	0.8	1.2	0.9
24	2.6	0.6	0.6	0.9	1.6	1.2	1.9	0.6	0.8	2.6	1.9	1.2
25	0.9	1.6	0.4	1.2	0.9	0.8	1.6	0.6	1.2	2.9	1.9	1.2
26	0.9	0.9	0.2	0.9	1.2	13	1.2	0.6	2.3	3.3	1.2	1.6
27	0.9	0.9	0.4	0.9	80	1.2	0.9	0.8	1.9	2.3	0.8	1.2
28	0.9	0.9	0.4	0.9	48	1.2	0.9	0.6	0.9	2.6	0.9	1.2
29	0.8	2.3	0.2	1.6		0.6	0.8	0.9	0.9	1.9	0.9	1.9
30	0.2	1.9	0.2	88		0.6	0.8	1.9	0.9	1.9	0.8	1.6
31	0.2		0.6	1.6		0.9		1.6		1.9	0.9	
MEAN	2.66	30.3	15.7	26.8	46.4	20.1	1.35	0.75	0.93	1.35	1.72	1.20
ACRE-FEET	164	1,800	963	1,650	2,580	1,230	80	46	55	83	106	72

YEAR OR PERIOD MEAN 12.2
ACRE-FEET 8,830

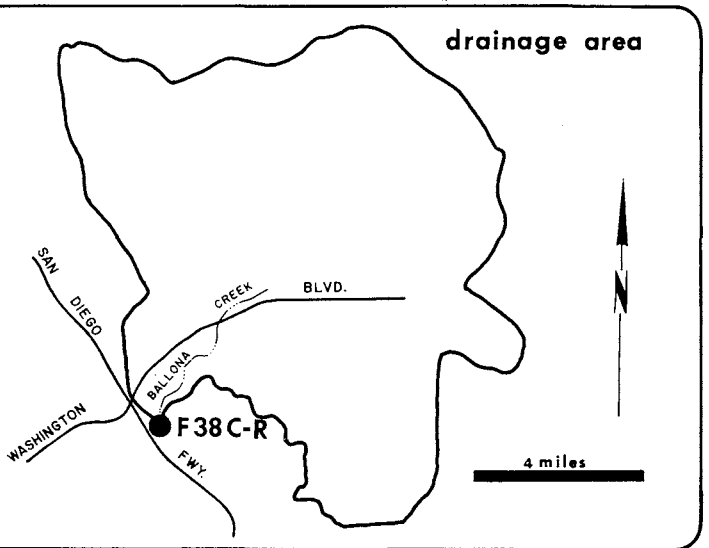
STATION DATA SUMMARY

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

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS
1927-28	*	0	*	1230*	3	5	240*
1928-29	197	0	3.1	2270	3	10	924
1929-30	144	0	3.5	2520	3	14	580
1930-31	137	+	3.3	2400	4	26	678
1931-32	248	0	4.4	3220	1	31	757
1932-33	166	0	2.4	1780	1	19	740
1933-34	372	0	3.5	2560	1	1	960
1934-35	301	0	5.7	4170	4	8	850
1935-36	143	0	4.0	2920	2	12	824
1936-37	559	0	*	*	2	6	1220
1937-38	986 E	*	*	*	3	2	N.D.
1938-39B	837	0	7.1	5150	9	25	2150
1939-40	256	10	7.4	5340	2	3	1630
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	10080	11	23	2930
1947-48	170	0.6	7.9	5740	3	24	1410
1948-49	282	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
1964-65	424	0	7.4	5390	4	9	2630
1965-66	809	+	10.8	7800	12	29	3250
1966-67	765	+	11.8	8560	11	7	4650
1967-68	1120	+	9.4	6850	3	7	3690
1968-69	1040	0	16.6	12010	1	20	5890
1969-70	275	0.2	4.4	3150	1	16	1960
1970-71	609	0.4	11.7	8500	11	29	2930
1971-72	622	0.4	6.8	4940	12	27	6000
1972-73	473	0.2	12.2	8830	11	14	4300

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

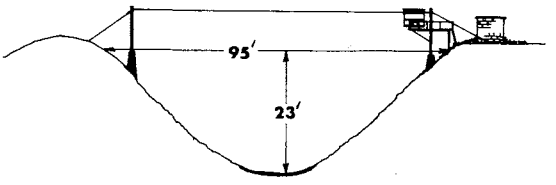
REGULATION – Stone Canyon Reservoir prior to January, 1951. Upper and Lower Franklin Canyon Reservoir, Hollywood Reservoir, and Silverlake Reservoir

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

cross-section



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO F38C-R

DAILY DISCHARGE IN SECOND-FEET OF BALLONA CREEK above Sawtelle Boulevard FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	October	November	December	January	February	March	April	May	June	July	August	September
1	9.4	17.0	11.2	11.2	10.6	19.0	12.4	12.4	17.0	11.2	11.2	14.0
2	10.6	16.0	10.0	18.0	10.0	18.0	13.0	14.0	16.0	13.0	10.6 d	13.8
3	10.6	18.0	9.4	15.0	568	16.0	17.0	16.0	15.0	12.4	11.2 d	13.7
4	10.6	18.0	920	13.0	59	15.0	15.0	17.0	16.0	11.2	11.8 d	13.5
5	12.4	17.0	11.8	13.0	296	15.0	15.0	16.0	15.0	12.4	12.4 d	13.4
6	12.4	18.0	153	11.8	d 583	145	17.0	15.0	13.0	13.0	15.0 d	13.2
7	11.8	20	463	11.8	1680	d 18.0	17.0	17.0	13.0	11.2	14.0 d	13.0
8	10.6	20	124	15.0	18.0	669	14.0	19.0	13.0	10.6	13.0 d	12.9
9	12.4	19.0	10.0	292	14.0	17.0	15.0	18.0	12.4	14.0	12.4 d	12.7
10	11.2	d 84	8.8	28	d 737	12.4	19.0	19.0	11.8	15.0	11.2 d	12.6
11	11.8	d 452	11.2	9.4	d 1860	491	20	17.0	14.0	15.0 d	12.5	12.4
12	11.2	10.6	11.8	12.4	d 817	d 26	18.0	14.0	14.0	15.0 d	13.7	14.0
13	11.8	11.8	11.8	11.8	d 364	15.0	15.0	11.8	15.0	15.0	15.0	12.4
14	10.6	d 1320	11.8	11.2	d 29	15.0	15.0	13.0	15.0	11.8 d	13.8	12.4
15	10.0	13.0	13.0	13.0	14.0	17.0	14.0	13.0	15.0	10.0 d	12.5	13.0
16	11.8	d 1050	12.4	2590	12.4	17.0	14.0	13.0	13.0	15.0 d	11.3	11.8
17	12.4	d 274	11.8	48	12.4	16.0	17.0	13.0	12.4	15.0 d	11.5	13.0
18	173	10.6	10.6	823	9.4	16.0	18.0	13.0	15.0	12.4 d	11.7	14.0
19	75	8.8	11.2	41	11.2	19.0	17.0	13.0	16.0	12.4 d	12.0	15.0
20	11.8	10.0	12.4	12.4	15.0	722	18.0	13.0	13.6	13.0 d	12.2	17.0
21	10.6	10.6	12.4	11.8	14.0	578	19.0	14.0	17.0	13.0	12.4	16.0
22	11.2	10.6	12.4	11.8	15.0	32	15.0	14.0	16.0	17.0	13.0	13.0
23	11.2	9.4	12.4	11.2	16.0	15.0	16.0	14.0	15.0	38	14.0	13.0
24	13.0	10.0	11.8	11.2	15.0	14.0	17.0	15.0	16.0	15.0	15.0	15.0
25	13.0	10.6	10.0	11.8	14.0	14.0	15.0	14.0	16.0	14.0 d	14.6	14.0
26	13.0	10.0	12.4	11.2	16.0	23	11.8	15.0	16.0	14.0 d	14.3	13.0
27	15.0	10.6	12.4	10.6	531	12.4	11.2	15.0	14.0 d	13.4	14.0	13.0
28	14.0	11.8	13.0	9.4	166	15.0	10.0	14.0	13.0 d	12.9 d	13.6	13.0
29	18.0	11.8	13.0	10.6		13.0	9.4	17.0	13.0 d	12.4 d	13.3	13.0
30	16.0	11.8	11.8	333		14.0	11.8	17.0	11.2 d	12.1	12.4	11.8
31	15.0		11.8	11.2		13.0		17.0		11.8	13.0	
MEAN	19.4	117	63.6	143	282	98.1	15.2	14.9	14.4	13.9	12.9	13.4
ACRE-FEET	1190	6970	3910	8820	15680	6030	906	919	858	857	791	799

YEAR OR PERIOD MEAN 65.9
ACRE-FEET 47730

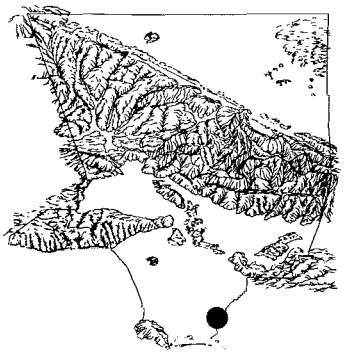
STATION DATA SUMMARY

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

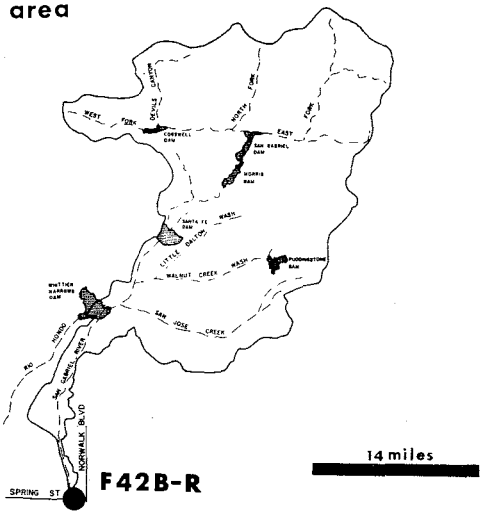
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS
1927-28	N.D	0	N.D.	3930	5	8	1100
1928-29	1150	0	20.6	14900	3	10	4990
1929-30	1130	0	18.6	13480	1	11	4460
1930-31	1500	0	25.6	18520	4	26	6280
1931-32	1780	0	30.0	21790	12	28	6130
1932-33	1660	0	21.8	15810	1	19	7000
1933-34	4310	0	28.5	20630	1	1	11300
1934-35	2190	0	34.4	24870	4	8	11200
1935-36B	929	0	19.3	13500	2	12	8070
1936-37	2160	0	56.2	40680	12	30	8940
1937-38	7330	3.6	72.5	52500	3	2	19000
1938-39	3080	1.8	39.4	28490	12	17	9900
1939-40	1270	1.3	29.1	21110	2	3	9730
1940-41	2680	3.1	93.0	67360	12	23	17300
1941-42	990	2.8	23.8	17250	12	10	7500
1942-43	4840	2.6	47.3	34240	1	22	13200
1943-44	3010	3.4	45.4	33000	2	22	8800
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	2.8	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
1960-61	945	4.2	17.3	12560	11	5	7700
1961-62	3490	3.2	69.2	50090	2	19	12900
1962-63	1940	3.2	29.6	21450	3	16	12100
1963-64	789	3.9	24.8	18000	1	22	6420
1964-65	1590	3.9	38.0	27540	4	9	17600
1965-66	3620	5.3	61.5	44540	11	22	18000
1966-67C	3020	6.7	62.1	45300	11	7	13900
1967-68	6350	8.2	55.9	40570	11	21	32500
1968-69	4840	8.2	101	73060	1	25	17000
1969-70	1380	7.6	30.7	22230	2	28	1380
1970-71	3170	8.8	50.8	35620	11	29	14600
1971-72	1900	7.6	31.3	22700	12	24	11100
1972-73	2590	8.8	65.9	47730	1	16	17600

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



drainage area



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.

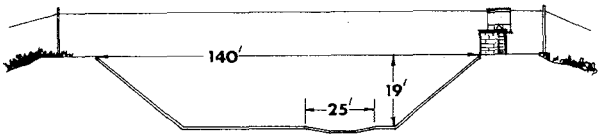
CHANNEL – concrete, trapezoidal section with a low-flow channel.

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

cross-section



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO F42B-R

DAILY DISCHARGE IN SECOND-FEET OF SAN GABRIEL RIVER above Spring Street FOR THE WATER YEAR ENDING SEPTEMBER 30, 1973

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	53	51	53	14.5	50	54	42	13.1	47	13.1	17.9	26
2	51	51	30	14.0	50	50	44	14.5	24	13.1	52	11.3
3	55	51	14.9	16.3	148	54	44	40	13.5	21	53	12.2
4	55	55	802	49	132	52	45	40	14.5	45	32	13.1
5	53	53	105	40	51	54	44	21	38	44	14.5	21
6	53	50	56	24	370	63	42	12.2	50	44	14.9	47
7	55	50	229	12.6	1590	60	27	12.6	49	24	13.1	49
8	53	50	75	22	140	269	14.0	13.1	49	12.6	14.0	26
9	54	55	55	89	54	65	14.0	14.9	46	12.6	52	13.5
10	53	58	55	55	52	54	12.6	40	46	15.4	53	14.5
11	54	129	53	40	2710	231	14.0	41	50	43	30	15.4
12	55	56	21	42	206	95	40	22	50	44	14.0	15.4
13	55	54	13.1	26	906	55	40	13.1	52	48	12.6	50
14	55	613	51	14.5	55	54	24	12.2	53	29	12.6	52
15	53	79	51	13.1	53	55	12.2	13.1	52	25	26	29
16	47	707	29	931	53	52	13.5	14.5	27	11.7	48	14.9
17	51	330	14.0	602	51	34	13.1	41	14.5	11.7	50	15.4
18	55	57	12.6	221	48	12.6	14.9	41	14.5	12.6	27	15.4
19	92	50	11.7	551	52	13.5	40	40	16.3	43	28	18.5
20	54	52	10.6	53	54	396	40	40	52	19.0	50	55
21	58	33	49	50	50	75	22	46	47	21	50	56
22	54	21	51	41	55	317	13.5	44	47	12.2	49	30
23	56	52	27	15.4	54	39	13.1	46	28	12.2	49	17.9
24	54	50	14.5	12.6	50	40	13.1	47	14.9	13.1	50	17.4
25	56	28	14.0	49	53	39	14.0	46	14.9	16.8	30	17.4
26	55	14.9	13.5	49	54	42	40	43	14.9	50	26	19.0
27	55	14.5	13.5	50	57	44	40	41	34	52	12.6	55
28	57	14.0	51	48	509	44	22	41	42	27	12.2	53
29	56	14.5	51	49		46	12.6	43	47	13.1	14.0	22
30	57	51	27	96		42	13.1	43	25	13.5	48	16.3
31	54		12.6	50		42		43		14.0	49	
MEAN	55.4	98.1	66.6	108	275	82.0	26.1	31.7	35.8	25.1	32.4	27.3
ACRE-FEET	3410	5840	4100	6620	15290	5040	1550	1950	2130	1540	1990	1620

YEAR OR PERIOD MEAN 70.6
ACRE-FEET 51100

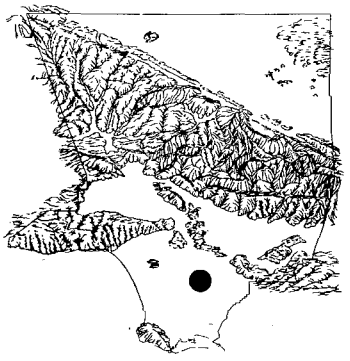
STATION DATA SUMMARY

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

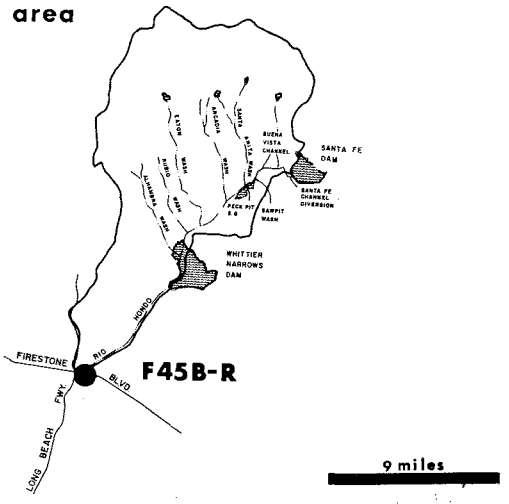
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS
1927-28	0	0	0	0			
1928-29	0	0	0	0			
1929-30	0	0	0	0			
1930-31	0	0	0	0			
1931-32	1270	0	9.0	6560	2	9	4490
1932-33	170	0	1.1	809	1	20	2250
1933-34	4860	0	17.1	12370	1	1	15000
1934-35	463	0	3.3	2380	10	17	3390
1935-36	220	0	1.6	1190	2	12	1910
1936-37	1850	0	18.7	13510	2	14	4560
1937-38	14500	0	122	88020	3	2	27000E
1938-39	265	0	1.5	1080	12	19	956
1939-40	192E	0	2.0	1460	2	3	1400
1940-41	1710	0	91.0	65890	3	13	4830
1941-42	148	0	15.0	10830	12	11	277
1942-43	9570	0	280	175100	1	23	14600
1943-44	5570	0	99.4	72200	2	22	15000
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
1960-61	204	0	0.6	448	1	26	1780
1961-62	2940	0	32.0	23070	2	11	7350
1962-63	1530	0	7.3	5290	3	17	4120
1963-64	751	0	4.4	3160	1	22	2570
1964-65B	1070	0	12.1	8770	4	9	4540
1965-66	630	0	10.2	7400	2	6	1950
1966-67	1190	0	37.1	26850	1	23	4760
1967-68	847	+	9.2	6720	11	21	3280
1968-69	9350	+	286	207300	1	25	11700
1969-70	1760	+	24.2	17520	3	5	5550
1970-71	2700	+	27.1	19610	12	19	5550
1971-72	1980	0.1	82.2	39900	12	24	8580
1972-73	2710	10.6	70.6	51100	1	16	5680

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

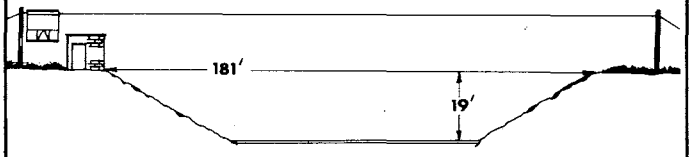
CHANNEL – concrete, with rip-rap side slopes. trapezoidal in section

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

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, 19 73

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.1	0.2	0.2	+	1.0	1.4	0.1	0.8	0.8	0.1	+	+
2	+	0.1	0.2	+	0.6	1.4	0.3	0.6	0.8	0.1	+	+
3	0.1	0.1	0.3	0.3	72	0.8	0.3	0.4	0.6	+	+	0.1
4	0.1	0.2	231	0.8	7.5	1.6	0.4	0.8	0.1	+	+	0.4
5	+	0.2	1.8	0.4	13.3	0.6	0.4	0.6	0.1	+	0.1	0.4
6	0.1	0.2	5.1	0.4	117	51	1.0	0.6	+	+	+	0.4
7	0.3	3.4	118	0.6	717	1.6	1.0	0.4	0.1	0.1	0.3	0.3
8	0.2	4.2	22.5	1.0	4.5	86	0.6	0.8	0.1	0.8	0.3	0.3
9	0.1	0.1	0.4	48	2.6	1.6	1.0	0.6	0.6	0.6	0.1	0.3
10	0.2	1.5	+	2.6	45	1.0	0.8	0.6	0.4	0.6	0.4	0.8
11	0.2	60	+	0.3	2550	147	0.8	0.4	0.3	0.6	0.1	1.0
12	0.7	0.1	+	0.3	119	26	0.8	0.6	0.6	0.8	+	0.4
13	0.2	0.1	+	0.4	352	1.6	1.0	0.6	0.6	0.8	+	0.6
14	0.2	328	+	0.4	2.6	0.8	0.6	0.6	0.6	0.3	0.1	0.8
15	0.3	6.1	+	0.6	2.0	0.6	1.0	0.6	0.4	0.1	0.1	0.4
16	0.3	205	+	1280	1.8	0.6	1.4	0.6	0.6	0.1	0.1	0.4
17	0.3	88	+	23	1.4	0.6	1.4	0.4	0.6	0.1	0.3	0.3
18	0.9	3.4	0.1	535	1.2	0.4	0.8	0.1	0.4	0.1	0.6	0.3
19	2.6	2.8	0.3	13.9	1.0	0.6	1.2	+	0.4	+	0.3	+
20	2.4	2.4	0.4	1.2	0.6	80	0.8	+	0.1	+	0.3	+
21	0.2	1.5	0.6	1.2	0.6	90	0.8	+	0.4	+	0.6	+
22	0.2	0.2	0.6	1.2	0.6	9.3	0.8	+	0.4	+	0.3	+
23	0.2	0.1	0.6	0.8	0.3	1.0	0.8	+	0.6	+	0.1	+
24	0.3	0.1	0.6	0.8	0.1	0.6	1.4	+	0.4	0.1	0.1	+
25	0.3	+	0.3	1.6	+	0.6	1.2	+	0.6	0.3	0.3	+
26	0.2	0.1	0.1	1.2	0.3	1.0	1.2	0.1	0.6	0.6	0.1	+
27	0.5	0.1	0.1	0.4	91	0.6	1.2	0.4	0.8	0.6	0.1	+
28	0.2	0.1	0.1	0.4	240	1.0	1.2	0.4	0.8	0.1	0.1	+
29	0.2	0.2	+	0.4		0.1	1.0	0.6	0.3	+	0.1	+
30	+	0.1	+	49		0.4	1.0	0.8	0.1	+	+	+
31	+		+	1.2		0.6		0.8		+	+	

MEAN	0.37	23.6	12.4	63.5	155	16.5	0.88	0.43	0.44	0.22	0.16	0.24
ACRE-FEET	23	1400	760	3900	8620	1010	52	26	26	14	9.7	14

YEAR OR PERIOD MEAN 21.9
ACRE-FEET 15,860

STATION DATA SUMMARY

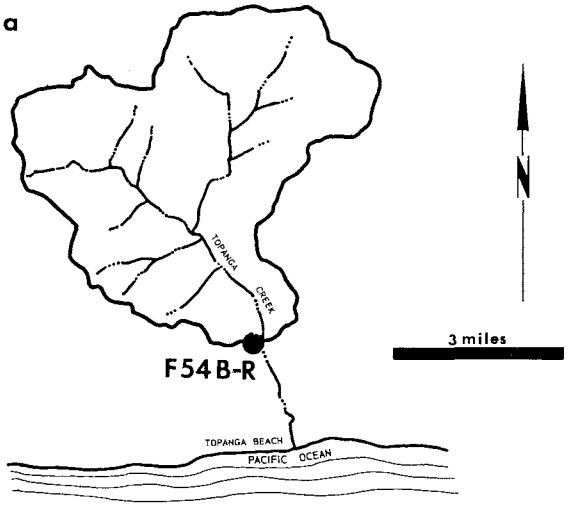
STA. NO. F45B-R
RIO HONDO ABOVE STEWART AND GRAY ROAD

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS
1927-28	*	0	*	269*	3	6	4.0*
1928-29	248	0	3.4	2460	4	4	912
1929-30	285	0	2.8	2000	3	15	743
1930-31	335	0	2.6	1900	2	4	841
1931-32	3440	0	27.4	19920	2	9	4610
1932-33	971	0	6.2	4450	1	19	2730
1933-34	5810	0	23.5	17030	1	1	16000
1934-35	667	0	8.3	6000	4	8	3450
1935-36	472	0	5.8	4220	2	12	3160
1936-37	1460	0	37.1	26870	2	14	4800
1937-38	12700	0	238	172100	3	3	24400E
1938-39	910	0	13.2	9540	12	18	5260
1939-40	442	0	6.7	4850	1	8	1930
1940-41	3690	0	129	93260	3	4	6420
1941-42	564	0	9.3	6730	12	10	4240
1942-43	4660	0	57.9	41910	1	23	11800
1943-44	2570E	0	36.9	26820	2	22	6670
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
1951-52B	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	8000	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
1960-61	115	0	1.2	831	11	26	2090
1961-62	2080	0	31.4	22780	2	19	7100
1962-63	620	0	4.5	3280	2	9	4240
1963-64	190	0	2.4	1730	1	22	2060
1964-65	1130	0	7.3	5310	4	9	8780
1965-66	4810	+	95.8	69390	12	29	19000
1966-67	5210	+	26.6	21530	1	24	20100
1967-68	4300	+	25.3	18360	3	8	17900
1968-69	23100	+	424	307100	1	25	46900
1969-70	964	+	10.0	7220	2	28	7540
1970-71	2430	+	13.1	9520	11	29	9350
1971-72	2420	+	6.0	4409	12	24	11400
1972-73	2550	+	21.9	15860	2	11	15180

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. 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

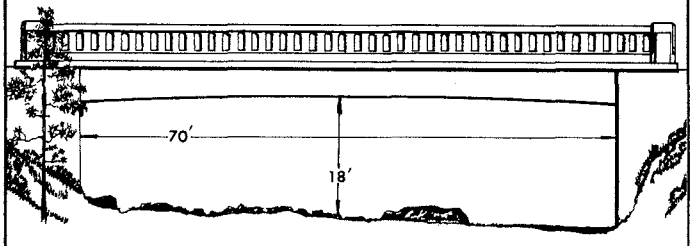
REGULATION – none

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 F 54B-R

DAILY DISCHARGE IN SECOND-FEET OF TOPANGA CREEK above Mouth of Canyon FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	October	November	December	January	February	March	April	May	June	July	August	September
1	0.2	0.2	0.2	0.4	0.7	12	4.4	1.4	1.1	0.5	0.2	0.1
2	0.2	0.2	0.2	0.4	0.7	8.4	4.1	1.3	1.2	0.4	0.2	0.1
3	0.2	0.2	0.2	0.4	4.5	8.4	3.7	1.2	1.0	0.4	0.2	0.1
4	0.2	0.2	2.4	0.4	9.6	8.7	3.2	1.2	0.9	0.3	0.2	0.2
5	0.2	0.2	0.6	0.4	3.1	8.7	3.2	1.2	0.9	0.3	0.2	0.2
6	0.1	0.2	0.6	0.4	72	12	3.2	1.2	0.8	0.4	0.3	0.2
7	0.2	0.2	1.5	0.4	79	9.3	3.4	1.3	0.7	0.4	0.2	0.2
8	0.2	0.2	1.0	0.4	17	39	3.2	1.4	0.6	0.4	0.2	0.2
9	0.2	0.2	0.7	1.6	9.6	20	3.0	1.4	0.5	0.4	0.2	0.2
10	0.2	0.2	0.5	0.8	371	16	2.9	1.3	0.5	0.4	0.2	0.2
11	0.2	1.4	0.5	0.6	1140	17	2.9	1.3	0.6	0.4	0.2	0.3
12	0.2	0.4	0.5	0.6	94	12	2.9	1.3	0.6	0.4	0.2	0.3
13	0.2	0.4	0.6	0.6	170	10	2.7	1.7	0.6	0.4	0.2	0.3
14	0.2	9.6	0.5	0.5	39	9.0	2.7	1.2	0.6	0.4	0.2	0.3
15	0.4	0.6	0.6	0.4	26	8.1	2.7	1.2	0.5	0.2	0.2	0.3
16	0.3	9.0	0.6	66	18	6.6	2.6	1.1	0.5	0.2	0.2	0.2
17	0.3	2.7	0.6	12	14	6.2	2.4	1.1	0.6	0.2	0.2	0.2
18	0.3	0.7	0.6	255	12	5.9	2.4	1.0	0.6	0.2	0.2	0.2
19	0.3	0.4	0.6	30	10	6.2	2.2	1.1	0.5	0.2	0.2	0.2
20	0.2	0.4	0.5	5.5	9.3	41	1.9	1.1	0.4	0.3	0.2	0.2
21	0.2	0.3	0.5	4.1	8.1	16	1.8	1.0	0.3	0.4	0.2	0.2
22	0.2	0.3	0.4	2.4	6.9	11	1.7	0.8	0.4	0.4	0.2	0.2
23	0.2	0.2	0.4	1.8	6.6	8.7	1.5	0.8	0.4	0.4	0.2	0.2
24	0.2	0.2	0.4	1.4	d 6.6	7.5	1.7	0.8	0.4	0.4	0.2	0.1
25	0.2	0.2	0.3	1.2	d 6.4	7.2	1.5	0.8	0.4	0.4	0.2	0.1
26	0.2	0.2	0.3	1.2	d 5.9	6.9	1.7	0.9	0.4	0.4	0.2	0.1
27	0.3	0.2	0.4	0.9	28	6.2	1.7	0.8	0.4	0.4	0.2	0.1
28	0.3	0.2	0.4	0.8	36	5.9	1.7	0.8	0.4	0.4	0.2	0.1
29	0.2	0.2	0.4	0.7		5.5	1.7	0.8	0.4	0.4	0.2	0.1
30	0.2	0.2	0.4	1.0		5.1	1.5	0.8	0.4	0.4	0.2	0.1
31	0.2		0.4	0.8		4.6		0.8		0.2	0.1	
MEAN	0.22	0.99	0.57	12.7	78.7	11.3	2.54	1.10	0.58	0.35	0.20	0.18
ACRE-FEET	14	59	35	780	4370	692	151	68	35	22	12	11

YEAR OR PERIOD MEAN 8.63
ACRE-FEET 6250

STATION DATA SUMMARY

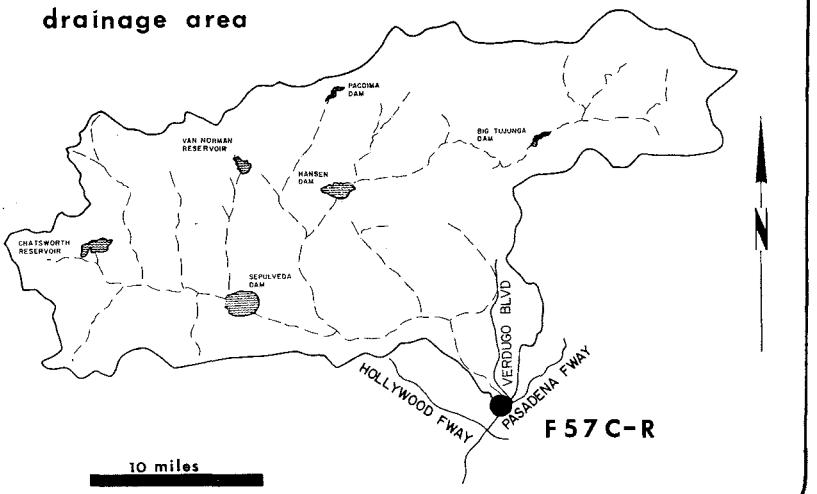
STA. NO. F54B-R
TOPANGA CREEK ABOVE MOUTH OF CANYON

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS
1929-30	*	*	*	647*	3	14	340
1930-31	186	+	1.0	705	2	4	386
1931-32	409	+	4.9	3590	2	8	1250
1932-33	542	+	3.1	2240	1	19	1430
1933-34	1590	0	8.9	6420	12	31	4510
1934-35	130	+	1.9	1360	1	5	1200
1935-36	77	+	2.0	1490	2	22	528
1936-37	413	+	9.1	6620	3	15	1130
1937-38	3270	+	21.2	15310	3	2	9300E
1938-39	NO RECORD						
1939-40B	183	+	2.9	2080	2	1	1280
1940-41	1100E	+	26.2	18940	2	20	8700E
1941-42	47	+	0.8	540	12	28	385
1942-43	1100E	+	12.0	8720	1	22	2200
1943-44	1100E	0.1	9.6	6970	2	22	5070
1944-45	176	0.1	1.5	1090	2	2	964
1945-46	182	+	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
1962-63	66	+	0.6	454	2	9	569
1963-64	17	+	0.2	178	1	21	196
1964-65	148	+	1.2	886	4	9	716
1965-66	1120	+	10.0	7270	12	29	3500
1966-67	569	0.1	7.0	5070	1	24	2280
1967-68	186	0.1	2.2	1570	3	8	567
1968-69	4920	0.1	40.6	29400	1	25	12200
1969-70	84	0	1.2	902	3	4	844
1970-71	720	+	6.3	4560	1	29	3020
1971-72	110	0.2	1.1	809	12	27	588
1972-73	1140	0.1	8.6	6250	2	11	3840

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.

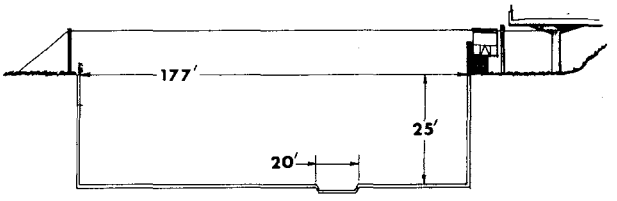
CHANNEL – concrete, rectangular in section, with a trapezoidal low-flow channel

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, 19 73

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	8.7	19.4	18.4	13.5	21	53	32	31	30	27	30	9.8
2	9.8	22	25	14.9	14.9	34	34	21	23	28	26	8.7
3	13.5	19.4	14.2	17.5	1100	33	42	20	19.4	34	26	8.2
4	14.2	19.4	1590	15.6	741	46	39	20	19.4	32	25	11.6
5	13.5	49	63	13.5	255	21	39	22	21	32	19.4	14.9
6	12.8	30	38	19.4	2340	379	42	18.4	21	38	18.4	8.7
7	12.8	17.5	568	15.6	2560	225	36	18.4	20	34	21	10.4
8	10.4	14.2	199	19.4	91	1360	32	17.5	32	26	16.5	9.2
9	11.0	12.8	35	416	39	100	18.4	17.5	19.4	30	17.5	8.7
10	12.2	21	18.4	180	2310	46	27	18.4	14.9	39	18.4	8.7
11	10.4	1200	12.2	26	9190	895	24	18.4	17.5	33	16.5	9.2
12	11.6	42	16.5	17.5	1170	403	24	20	17.5	31	13.5	14.9
13	12.2	24	14.2	15.6	2300	114	21	21	19.4	31	20	6.7
14	11.6	3450	12.8	11.6	385	70	19.4	14.9	18.4	26	21	8.7
15	14.9	99	11.0	11.6	144	62	15.6	14.9	13.5	24	15.6	10.4
16	26	2100	10.4	3300	86	28	15.6	18.4	18.4	27	12.8	11.6
17	18.4	689	12.2	352	77	28	20	27	16.5	33	9.2	8.7
18	25	36	14.2	3760	50	28	21	23	19.4	32	14.2	12.8
19	324	22	14.2	397	43	34	17.5	23	24	28	17.5	14.2
20	102	15.6	13.5	46	33	2020	11.6	28	25	27	26	17.5
21	20	15.6	14.2	25	30	439	14.9	36	27	23	19.4	16.5
22	12.2	12.2	31	20	31	332	12.8	58	32	19.4	18.4	19.4
23	13.5	10.4	14.2	16.5	31	e 35	14.2	47	31	23	16.5	25
24	14.2	10.4	13.5	16.5	28	e 45	19.4	46	25	25	21	30
25	13.5	11.0	11.0	15.6	31	e 45	19.4	53	27	25	18.4	14.2
26	12.8	13.5	11.6	18.4	24	e 40	21	45	33	27	15.6	15.6
27	17.5	12.8	15.6	14.9	1060	e 30	20	33	33	30	17.5	11.6
28	14.9	14.2	17.5	12.8	1280	e 28	16.5	28	22	27	26	14.9
29	14.9	14.2	20	11.6		21	16.5	33	30	24	13.5	94
30	14.2	17.5	11.0	163		21	16.5	28	30	30	13.5	9.2
31	18.4		13.5	25		25		31		33	16.5	

MEAN	27.2	268	92.7	290	909	227	23.4	27.4	23.3	29.0	18.7	15.5
ACRE-FEET	1670	15,940	5700	17,860	50,510	13,960	1390	1690	1390	1780	1150	920

YEAR OR PERIOD MEAN 157
ACRE-FEET 114,000

STATION DATA SUMMARY

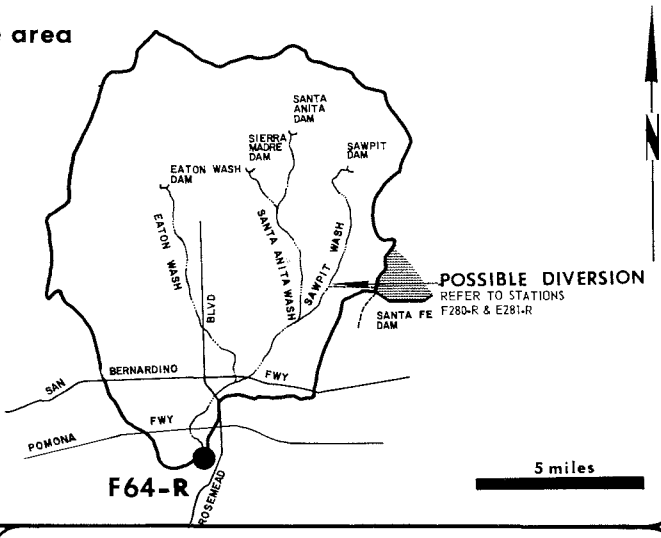
STA. NO. F57C-R
LOS ANGELES RIVER ABOVE ARROYO SECO

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	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	8	3020
1932-33	2330	0	14.7	10640	1	19	5780
1933-34	5990	0	41.2	29810	1	1	22000
1934-35	568	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	228	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	18270	1	18	6850
1955 56	7290	0.6	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	32100
1967-68	4780	3.4	82.2	59710	3	8	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

B = 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

drainage area



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 Montebello

REGULATION – partially regulated by Sierra Madre, Santa Anita, Sawpit, Eaton, and Santa Fe Dams and several debris basins.

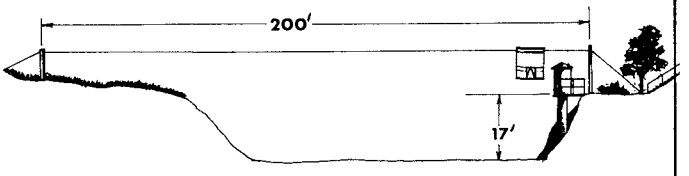
CHANNEL – sand and silt, natural in section

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

cross-section



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, 1973

	October	November	December	January	February	March	April	May	June	July	August	September
1	b 3.1	b 2.6	b 3.1	b 3.2	b 5.0	34	b 15	4.6	6.3	5.7	6.0	5.5
2	b 2.9	b 2.7	b 3.1	b 3.2	b 5.0	40	b 12	4.6	6.3	5.7	6.3	5.5
3	b 2.7	b 2.9	b 3.1	b 3.2	261	24	b 10	4.6	6.3	5.5	6.6	5.5
4	b 2.6	b 3.0	619	b 3.2	22	28	16	4.8	7.2	5.2	6.3	5.7
5	b 2.6	b 3.1	b 10	b 3.2	43	49	9.4	5.0	9.0	5.0	6.3	5.5
6	b 2.5	b 3.2	b 5.0	b 3.2	536	301	9.1	5.2	174	5.7	5.5	5.2
7	b 2.4	b 3.5	235	b 3.2	955	135	9.4	5.5	232	5.7	5.7	5.5
8	b 2.3	b 3.7	38	b 3.2	15	494	9.4	5.7	223	6.0	5.7	5.2
9	b 2.2	b 3.7	b 5.0	67	b 10	68	43	5.7	217	6.3	5.7	5.2
10	b 2.1	b 3.7	b 4.0	b 15	399	120	103	5.7	211	6.6	5.7	5.5
11	b 2.1	324	b 4.0	b 5.5	2150	674	92	6.0	205	6.6	5.7	5.7
12	b 2.1	b 10	b 3.0	b 5.4	681	200	71	5.7	205	6.8	5.7	5.7
13	b 2.1	b 5	b 3.0	b 5.3	412	115	60	5.7	205	6.8	5.7	6.0
14	b 2.2	572	b 3.1	b 5.2	86	89	49	5.5	208	6.8	5.5	5.7
15	b 2.2	b 10	b 3.2	b 5.0	66	25	35	5.0	166	6.6	5.7	5.5
16	b 2.3	525	b 3.3	1187	72	33	22	4.8	64	6.3	6.0	5.7
17	b 2.3	167	b 3.4	45	151	124	11	4.8	59	6.3	6.0	6.0
18	b 2.3	b 7.0	b 3.5	789	140	124	6.0	4.8	59	6.0	6.0	6.3
19	b 68	b 6.0	b 3.6	75	137	128	6.0	4.8	59	6.0	5.7	6.0
20	b 5.0	b 5.0	b 3.7	b 5.0	148	553	6.0	5.0	60	6.0	5.7	4.2
21	b 4.7	b 4.2	b 3.7	b 4.5	129	206	5.7	4.8	25	6.0	6.0	3.9
22	b 4.3	b 3.5	b 3.6	b 4.2	178	28	5.5	4.8	6.0	6.0	5.7	3.9
23	b 4.0	b 3.4	b 3.6	b 4.0	128	28	5.7	4.8	5.7	6.3	5.7	3.9
24	b 3.6	b 3.4	b 3.5	b 4.0	b 30	30	5.5	4.8	5.5	5.7	5.7	3.7
25	b 3.3	b 3.3	b 3.5	b 3.9	b 30	31	5.0	4.8	5.7	6.0	5.5	4.6
26	b 3.2	b 3.3	b 3.4	b 3.9	b 40	30	5.0	5.2	6.0	6.0	5.5	4.4
27	b 3.1	b 3.2	b 3.4	b 3.9	703	32	4.8	5.5	6.0	6.0	5.7	5.0
28	b 3.0	b 3.2	b 3.4	b 3.9	436	32	5.0	5.7	6.8	6.0	5.7	5.0
29	b 2.9	b 3.1	b 3.3	b 3.9		24	4.6	5.7	6.8	5.7	5.7	4.6
30	b 2.8	b 3.1	b 3.3	78		b 21	4.6	6.0	6.3	5.7	5.5	4.8
31	b 2.7		b 3.3	5.7		b 18		6.3		6.0	5.5	

MEAN	4.95	56.6	32.2	76	285	124	22.0	5.22	82.0	6.03	5.80	5.16
ACRE-FEET	305	3370	1980	4770	15810	7610	1280	321	4880	371	356	307

YEAR OR PERIOD MEAN 57.0
ACRE-FEET 41,260

STATION DATA SUMMARY

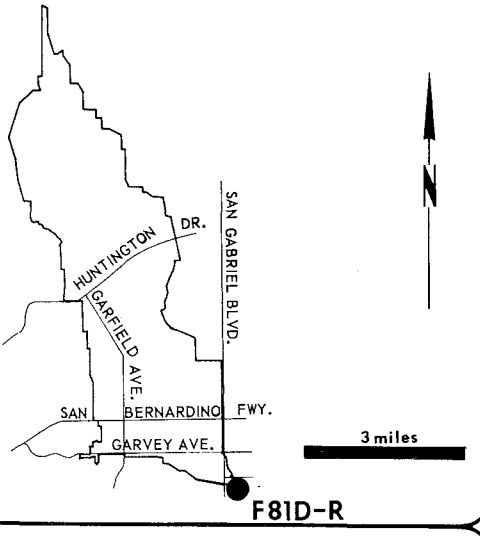
STA. NO. F64-R
RIO HONDO ABOVE MISSION BRIDGE

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	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	10190

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

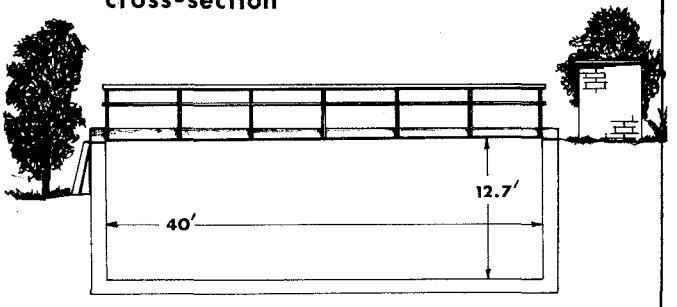
REGULATION – none

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 ALAHAMBRA WASH above Klingerman Street FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	October	November	December	January	February	March	April	May	June	July	August	September
1	0.6	b 0.9	0.4	0.6	0.6	1.6	0.6	1.4	0.4	0.9	b 0.6	b 0.7
2	0.6	b 0.9	0.4	0.4	0.6	1.4	0.4	1.1	0.4	1.1	b 0.7	b 0.7
3	0.6	b 0.9	0.4	0.4	73	0.9	0.6	0.9	0.4	0.9	b 0.8	b 0.7
4	0.9	b 0.9	257	1.1	14.6	1.1	0.6	0.9	0.4	0.9	b 0.9	b 0.6
5	0.9	b 0.9	1.1	0.6	41	0.6	0.6	a 0.6	0.4	0.9	b 1.0	b 0.6
6	0.9	b 0.9	23	0.4	222	57	0.6	a 0.6	1.1	0.9	b 1.1	b 0.6
7	0.6	b 0.9	74	0.4	418	2.8	0.6	a 0.6	1.4	0.6	b 1.2	b 0.6
8	0.6	b 0.9	17.2	0.6	1.8	122	0.6	a 0.4	1.1	0.6	b 1.3	b 0.7
9	0.6	b 0.9	0.6	39	1.4	2.1	0.9	a 0.4	1.1	0.6	b 1.5	b 0.7
10	0.6	4.1	0.6	1.4	195	0.9	0.6	a 0.4	1.1	0.6	b 1.5	b 0.8
11	0.6	114	0.6	0.9	555	114	0.6	0.4	1.1	0.9	b 1.5	b 0.8
12	0.6	2.3	0.6	0.6	181	4.6	1.1	0.3	1.1	0.9	b 1.4	b 0.9
13	0.6	1.1	0.6	0.4	61	2.1	1.4	0.3	1.1	1.1	b 1.4	b 0.9
14	0.6	232	0.6	0.6	19.3	1.4	0.9	0.3	0.9	1.1	b 1.4	b 0.9
15	0.6	1.6	0.9	0.6	4.0	1.6	0.9	0.4	0.9	1.1	b 1.3	b 0.9
16	0.6	227	0.6	365	2.1	1.4	0.9	0.4	1.1	1.1	b 1.3	b 0.8
17	0.6	64	0.6	1.8	1.8	1.6	0.9	0.3	1.1	0.9	b 1.3	b 0.8
18	0.6	0.6	0.6	235	1.6	0.9	0.9	0.4	1.1	1.1	b 1.2	b 0.8
19	1.8	0.6	0.9	4.6	1.4	1.1	0.9	0.4	1.1	0.9	b 1.2	b 0.7
20	0.9	0.6	0.9	2.8	1.4	143	1.1	0.3	1.6	0.9	b 1.2	b 0.7
21	0.9	0.6	0.6	1.1	1.6	66	0.9	0.3	1.6	0.9	b 1.1	b 0.7
22	0.9	0.6	0.4	2.1	1.4	5.2	0.9	0.4	1.1	0.9	b 1.1	b 0.7
23	0.9	0.4	0.6	1.8	1.6	1.4	1.1	0.4	1.1	0.9	b 1.1	b 0.6
24	0.9	0.4	0.4	1.1	1.4	0.4	1.4	0.4	1.4	0.9	b 1.0	b 0.6
25	0.9	0.4	0.4	1.4	1.1	0.4	1.1	0.4	1.6	1.1	b 1.0	b 0.6
26	0.9	0.4	0.4	1.4	1.4	1.6	1.4	0.4	1.4	1.1	b 1.0	b 0.6
27	0.9	0.9	0.4	0.9	258	1.4	1.4	0.4	1.1	b 0.9	b 1.0	b 0.6
28	0.9	1.1	0.4	0.9	49	1.6	1.1	0.6	1.1	b 0.8	b 1.0	0.9
29	0.9	0.9	1.4	0.9		0.6	1.4	0.4	1.1	b 0.7	b 1.0	0.6
30	0.9	0.6	0.6	39		1.4	1.4	0.4	1.1	b 0.6	b 0.9	0.9
31	0.9		0.6	0.6		0.9		0.4		b 0.5	b 0.8	

MEAN	0.78	22.1	12.5	22.8	75.4	17.5	0.93	0.49	1.05	0.88	1.12	0.72
ACRE-FEET	48	1310	769	1400	4190	1080	55	30	62	54	69	43

YEAR OR PERIOD MEAN 12.6
ACRE-FEET 9110

STATION DATA SUMMARY

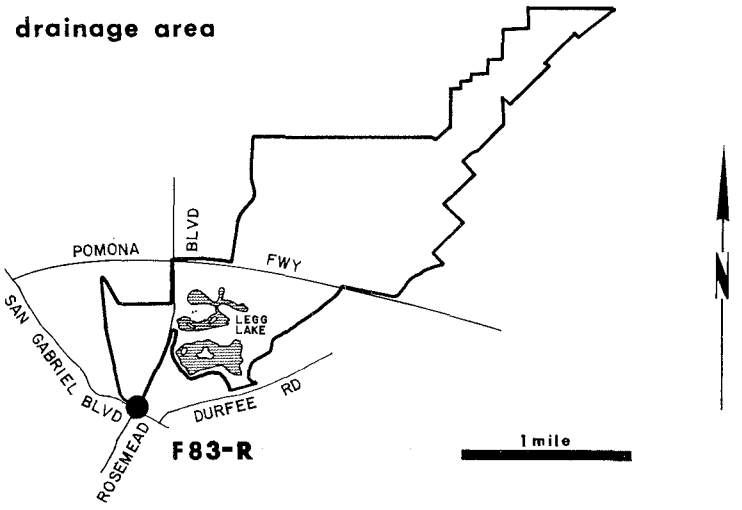
STA. NO. F81D-R
ALHAMBRA WASH NEAR KLINGERMAN STREET

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS
1929-30	N.D.	0	N.D.	635	3	14	1870
1930-31	226	0	2.1	1480	2	3	1530
1931-32	220	0	2.7	1940	1	31	1120
1932-33	418	0	2.3	1680	1	19	1850
1933-34	1770	0	8.0	5820	1	1	4890
1934-35BC	219	0	3.3	2380	1	5	2280
1935-36D	144	0	2.0	1420	2	12	1700
1936-37	309	0	5.4	3880	3	15	2470
1937-38	997	0	7.6	5520	3	2	5010
1938-39	288	0	4.1	2990	1	5	2480
1939-40	130	0	2.4	1730	2	1	1280
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	95	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	382	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	6.4	4610	4	9	3730
1965-66	686	0.3	10.7	7740	11	24	3520
1966-67	662	0.4	12.2	8820	1	22	3550
1967-68	398	0.4	6.5	4740	3	8	3480
1968-69	999	0.4	17.0	12300	2	6	3980
1969-70	486	0.3	5.3	1871	2	28	3430
1970-71	648	0.4	7.1	2601	11	29	4040
1971-72	449	0.3	2.5	3000	12	24	2000
1972-73	555	0.3	12.6	9110	2	11	4450

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 83-R
MISSION CREEK
at San Gabriel Boulevard

drainage area



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

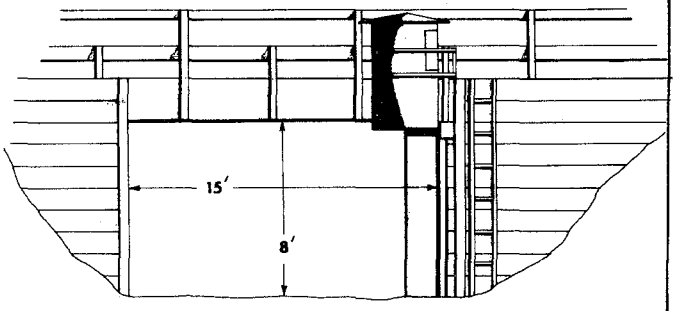
CHANNEL – sand with brush and fences, natural in section

CONTROL – channel forms control

LENGTH OF RECORD – June 14, 1930, to date

REMARKS – nearly all flows originate in rising water

cross-section



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO F83-R

DAILY DISCHARGE IN SECOND-FEET OF MISSION CREEK at San Gabriel Boulevard FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	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
4	0	0	+	0	0	0	+	0	0	0	0	0
5	0	0	0	0	0.2	0	+	0	0	0	0	0
6	0	0	0	0	2.5	+	+	0	0	0	0	0
7	0	0	+	0	2.6	+	0	0	0	0	0	0
8	0	0	0	0	0.8	+	0	0	0	0	0	0
9	0	0	0	0	0.6	+	0	0	0	0	0	0
10	0	0	0	0	0.6	+	0	0	0	0	0	0
11	0	0	0	0	5.1	0.1	0	0	0	0	0	0
12	0	0	0	0	3.0	0.1	0	0	0	0	0	0
13	0	0	0	0	1.2	0.1	0	0	0	0	0	0
14	0	0	0	0	0.2	0.1	0	0	0	0	0	0
15	0	+	0	0	0.1	0.1	0	0	0	0	0	0
16	0	+	0	0	0.1	+	0	0	0	0	0	0
17	0	0	0	0	0.1	+	0	0	0	0	0	0
18	0	0	0	0	0.1	+	0	0	0	0	0	0
19	0	0	0	0	0.1	+	0	0	0	0	0	0
20	0	0	0	0	0.1	0.1	0	0	0	0	0	0
21	0	0	0	0	0.1	0.1	0	0	0	0	0	0
22	0	0	0	0	0.1	0.1	0	0	0	0	0	0
23	0	0	0	0	+	0.1	0	0	0	0	0	0
24	0	0	0	0	0	0.1	0	0	0	0	0	0
25	0	0	0	0	0	0.1	0	0	0	0	0	0
26	0	0	0	0	0	0.1	0	0	0	0	0	0
27	0	0	0	0	0	0.1	0	0	0	0	0	0
28	0	0	0	0	0.4	0.1	0	0	0	0	0	0
29	0	0	0	0		0.1	0	0	0	0	0	0
30	0	0	0	0		+	0	0	0	0	0	0
31	0		0	0		+		0		0	0	
MEAN	0	+	+	0	0.64	0.05	0	0	0	0	0	0
ACRE-FEET	0	+	+	0	35	3.0	0	0	0	0	0	0

YEAR OR PERIOD MEAN 0.05
ACRE-FEET 38

STATION DATA SUMMARY

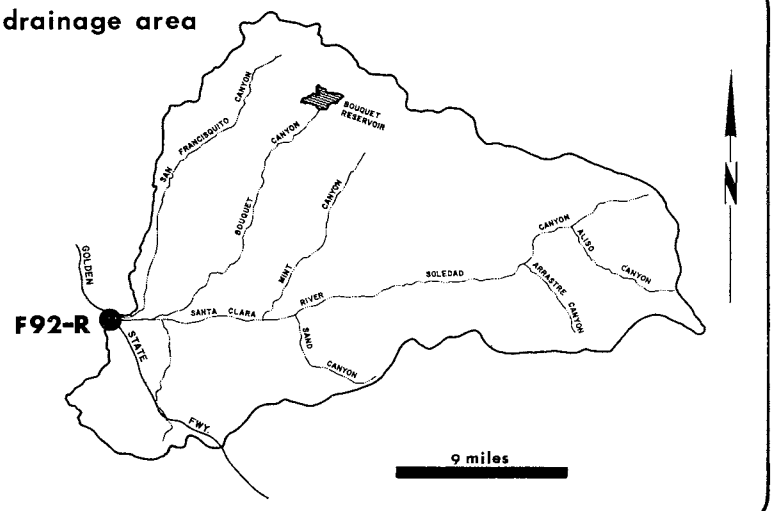
STA. NO. F83-R
MISSION CREEK AT SAN GABRIEL BOULEVARD

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	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	12120	2	8	44
1932-33	32	11	16.2	11720	1	29	51
1933-34	84	7.6	12.5	9030	1	1	166
1934-35	18	9.0	12.6	9140	4	8	32
1935-36	26	9.5	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	18120	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	18850	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	80
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	8.2	+	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	606	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

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

STATION NO. F 92 - 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

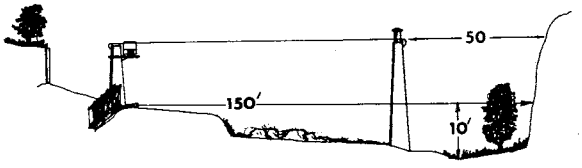
CHANNEL - sand and gravel with brush, natural section

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 - below Highway 5 FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	d 2.0	3.0	2.0	d 2.0	2.2	4.6	2.5	4.6	5.1	3.6	11	1.1
2	2.0	3.0	d 1.0	d 3.0	2.2	2.5	4.6	7.2	7.2	3.2	11	3.6
3	4.0	4.0	d 1.0	4.0	15	4.1	2.9	5.6	5.1	6.2	11	1.4
4	d 2.0	3.0	16	4.0	9.2	3.6	4.6	b 5.6	5.1	11	8.7	1.8
5	1.0	d 1.0	d 3.0	3.0	19	2.9	4.6	b 5.6	5.6	11	4.6	3.6
6	1.0	3.0	d 2.0	2.0	79	4.1	5.1	b 5.6	5.6	8.7	3.2	3.2
7	d 1.0	6.0	4.0	3.0	25	5.1	3.6	b 5.6	5.6	8.7	8.2	3.2
8	d 1.0	3.0	2.0	5.0	5.6	11	2.5	b 5.6	5.6	9.4	2.9	0.7
9	1.0	4.0	1.0	7.0	3.6	6.2	3.2	b 5.6	5.6	11	5.6	2.2
10	2.0	5.0	1.0	5.0	322	5.1	2.5	b 5.6	5.6	11	7.7	3.2
11	3.0	24	2.0	5.0	1470	12	5.6	b 5.6	6.2	11	7.7	2.2
12	d 2.0	2.0	2.0	4.0	112	4.1	7.2	b 6.0	6.7	11	8.2	2.9
13	d 2.0	3.0	2.0	2.0	182	5.1	7.7	b 6.0	7.2	10	8.2	7.3
14	d 1.0	50	2.0	1.0	b 15	5.1	6.2	b 6.0	a 7.2	10	7.7	30
15	d 1.0	b 2.5	2.0	3.0	8.2	5.6	6.2	b 6.0	a 7.2	8.7	7.7	26
16	d 2.0	20	2.0	256	7.7	7.7	6.2	b 6.0	7.2	9.4	7.7	7.2
17	d 2.0	6.3	1.0	41	8.2	8.2	5.6	b 6.0	7.2	11	8.2	1.8
18	2.0	2.0	2.0	221	8.2	7.7	6.7	b 6.0	7.2	11	3.2	1.8
19	3.0	2.0	2.0	17	7.2	7.2	6.7	5.1	7.7	12	1.1	1.1
20	3.0	2.0	2.0	2.9	7.7	127	5.6	d 5.1	7.7	13	1.4	1.1
21	2.0	5.0	2.0	2.5	8.7	19	5.6	b 5.1	8.2	13	3.6	1.1
22	2.0	8.0	3.0	2.5	8.7	5.1	5.6	b 5.6	8.2	13	1.4	1.4
23	3.0	5.0	2.0	2.2	7.7	2.9	5.6	b 5.6	7.7	12	2.9	1.1
24	3.0	6.0	2.0	2.5	9.4	2.9	5.1	5.6	8.2	11	2.9	0.4
25	3.0	d 2.0	3.0	2.5	7.2	3.2	d 6.7	5.1	8.2	11	1.4	2.9
26	3.0	d 2.0	3.0	2.5	8.7	3.6	7.7	4.6	8.7	9.4	0.4	5.1
27	3.0	d 2.0	3.0	2.5	d 31	3.6	6.2	4.1	6.7	10	1.8	0.7
28	2.0	d 2.0	2.0	2.5	d 18	3.2	5.1	6.2	5.1	8.2	2.9	1.1
29	2.0	d 2.0	2.0	2.5		2.9	5.1	4.1	6.7	5.1	3.2	2.2
30	3.0	d 2.0	d 2.0	2.9		2.9	5.6	13	6.2	7.2	3.6	1.4
31	6.0		d 2.0	2.9		2.9		5.6		7.2	1.4	

MEAN	2.26	6.15	2.52	20.0	86.0	9.39	5.27	5.46	6.72	9.61	5.18	4.13
ACRE-FEET	139	366	155	1230	4780	577	314	336	400	591	318	246

YEAR OR PERIOD MEAN 13.0
ACRE-FEET 9450

STATION DATA SUMMARY

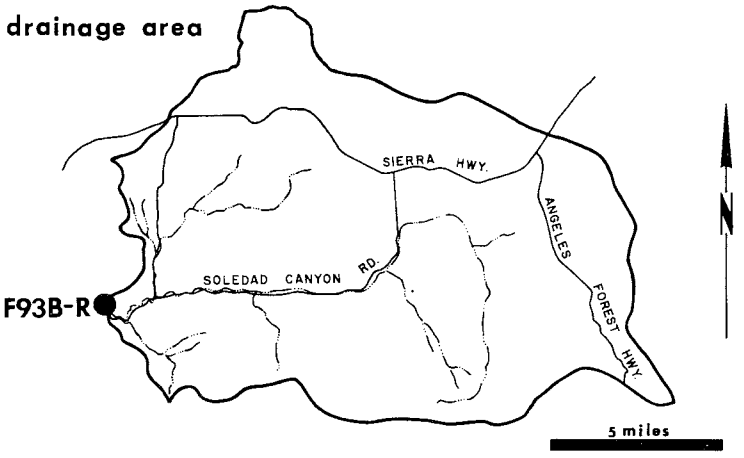
STA. NO. F92-R
SANTA CLARA RIVER AT OLD HIGHWAY BRIDGE

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS
1929-30	83	0.2	1.1	793	3	15	193
1930-31	291	0.1	2.6	1890	2	7	2310
1931-32	739	0.1	5.9	4280	2	9	2090
1932-33	90	0	0.7	488	1	19	618
1933-34	448	+	2.2	1600	1	1	3870
1934-35	82	+	1.5	1090	1	5	608
1935-36	113	0	2.2	1590	2	23	833
1936-37	471	0	6.7	4850	12	27	3410
1937-38	6370	+	37.2	26900	3	2	24000E
1938-39B	435E	+	14.4	10410	12	15	4620
1939-40	79	0.3	2.2	1570	2	1	676
1940-41	3450	0.3	57.1	41320	3	4	5050
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	184	+	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
1965-66	3200	0	22.0	15990	12	29	11600
1966-67	820	+	9.8	7100	1	24	3000
1967-68	475	0	4.2	3070	11	19	2810
1968-69	N.D.	0.2	**	30170E	2	25	31800E
1969-70	164	1.0	13.3	9610	3	1	900
1970-71	1830	0.5	15.1	10930	11	29	8150
1971-72	442	0.5	9.2	6640	12	27	2200
1972-73	1470	0.4	13.0	9450	2	11	4760

** = STATION DESTROYED BY FLOOD OF 2-25-69.
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.
* = RECORD INCOMPLETE
N.D. = NOT DETERMINED
E = ESTIMATE

STATION NO. F 93B-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

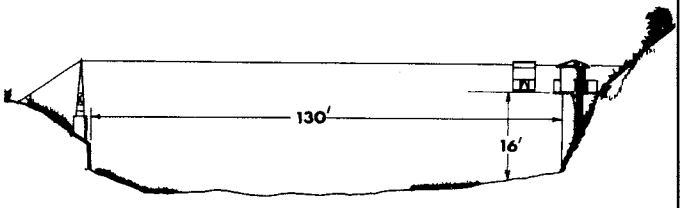
CHANNEL – sand, gravel, and rock, natural section

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 STA. F93B-R



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO F93B-R

DAILY DISCHARGE IN SECOND-FEET OF SANTA CLARA RIVER above Lang Station at R.R. Bridge FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	0.5	1.7	1.9	17	13	5.6	0.5	0.5	d 0.3	d 0.2
2	0	d +	0.5	1.7	1.9	13	13	5.6	0.2	0.5	d 0.3	d 0.2
3	0	d +	0.5	2.2	2.2	13	13	5.0	1.0	0.5	d 0.3	d 0.2
4	0	d +	0.5	1.9	2.2	b 11	12	4.3	3.0	0.5	d 0.3	d 0.1
5	0	d +	0.5	1.7	2.2	b 11	11	e 4.3	3.0	0.5	d 0.2	d 0.1
6	0	d +	0.5	1.2	5.6	b 10	9.8	e 4.3	1.7	0.5	d 0.2	d 0.1
7	0	d +	0.5	1.0	8.2	b 12	11	e 4.2	1.4	0.5	d 0.2	d 0.1
8	0	d +	0.5	1.0	3.7	b 12	9.8	e 4.2	1.2	0.5	d 0.2	d 0.1
9	0	d +	0.5	1.7	2.2	b 10	9.8	e 4.2	1.0	0.5	d 0.2	d 0.1
10	0	d 0.1	0.7	1.7	7.9	b 11	8.2	e 4.1	1.2	0.5	d 0.2	d 0.1
11	0	a 0.1	1.0	1.7	458	26	6.9	e 4.1	1.2	0.5	d 0.2	d 0.1
12	0	a 0.1	1.0	1.4	89	19	6.9	e 4.1	1.2	0.5	d 0.2	d 0.1
13	0	a 0.1	1.0	1.0	46	17	6.2	e 4.0	1.2	0.5	d 0.2	d 0.1
14	0	a 0.1	0.7	1.0	b 29	15	6.9	e 4.0	1.4	0.5	d 0.3	d 0.1
15	0	a 0.1	0.5	0.7	20	15	6.9	e 4.0	1.4	0.5	d 0.3	d 0.1
16	0	a 0.1	0.7	2.0	18	14	5.6	e 3.9	1.7	0.2	d 0.3	d 0.1
17	0	a 0.1	0.7	1.2	14	14	6.9	e 3.9	1.7	0.2	d 0.3	d 0.2
18	0	a 0.1	0.7	9.4	12	12	7.5	e 3.9	e 2.0	0.2	d 0.2	d 0.2
19	0	a 0.1	0.7	7.5	11	9.8	7.5	e 3.8	2.2	0.2	d 0.2	d 0.2
20	0	a 0.1	0.7	4.3	11	31	7.5	e 3.8	1.2	e 0.2	d 0.2	d 0.2
21	0	a 0.1	1.0	3.7	11	b 25	6.9	e 3.8	1.2	e 0.2	d 0.1	d 0.2
22	0	0.2	1.0	3.0	11	18	7.5	e 3.7	1.0	e 0.2	d 0.1	d 0.2
23	0	0.5	1.4	3.0	11	16	7.5	e 3.7	0.7	0.2	d 0.1	d 0.2
24	0	0.5	1.7	3.0	11	15	6.9	3.7	0.5	0.2	d 0.1	d 0.2
25	0	0.5	1.7	2.4	9.8	14	3.7	3.7	0.5	0.2	d 0.1	d 0.1
26	0	0.5	1.4	2.4	9.8	17	3.7	3.7	0.5	0.2	d 0.1	d 0.1
27	0	0.5	1.7	3.0	16	17	4.3	3.0	0.5	0.2	d 0.1	d 0.1
28	0	0.5	1.9	2.4	28	17	5.0	1.7	0.5	0.2	d 0.1	d 0.1
29	0	0.5	1.7	2.4		16	6.2	0.5	0.5	0.2	d 0.2	d 0.1
30	0	0.5	1.4	2.4		16	6.2	e 0.5	0.5	0.2	d 0.2	d 0.1
31	0		1.4	2.2		15		e 0.5		0.2	d 0.2	
MEAN	0	.18	0.94	2.45	30.5	15.4	7.91	3.67	1.19	0.35	0.20	0.14
ACRE-FEET	0	11	58	151	1690	950	471	226	71	21	12	8.1

YEAR OR PERIOD MEAN 5.07
ACRE-FEET 3670

STATION DATA SUMMARY

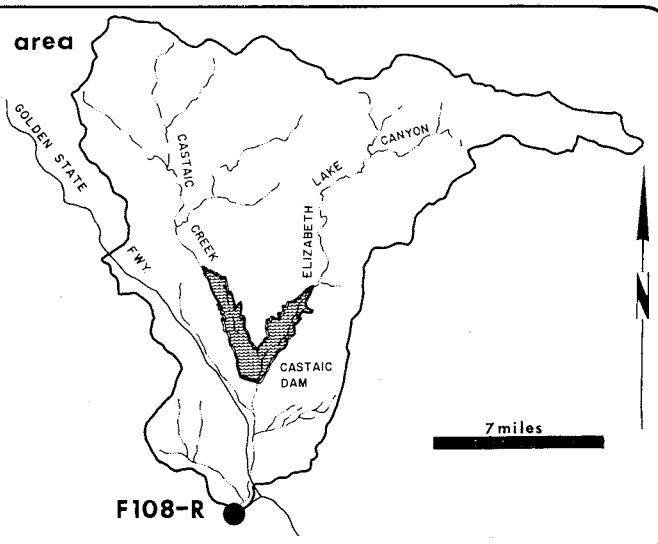
STA. NO. F93B-R
SANTA CLARA RIVER AT LANG RAILROAD BRIDGE

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS
1949-50	5.2	0.8	1.5	1110	2	6	6.0
1950-51	1.7	0.6	1.1	774	4	28	2.0
1951-52	1280	0.5	29.3	21230	1	16	4200
1952-53	9.0	1.2	3.1	2250	11	15	39
1953-54	18	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	509	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	500 E
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	0.6	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	60	0.1	5.3	3860	3	1	200 E
1970-71	195	+	6.2	4510	11	29	620
1971-72	33	0	2.2	1600	12	25	79
1972-73	458	0	5.1	3670	2	11	953

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

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

drainage area



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 Sougus

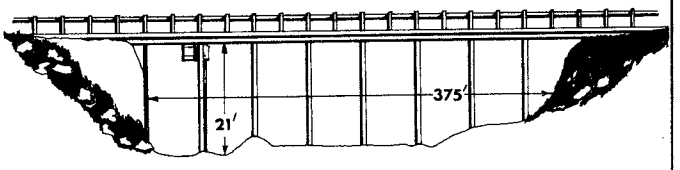
REGULATION – none

CHANNEL – sand and gravel, natural section

CONTROL – channel forms control

LENGTH OF RECORD – December 27, 1945, to date

cross-section



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, 19 73

	October	November	December	January	February	March	April	May	June	July	August	September
1	0.3	a 0.2	5.9	33	10	s 80	b 11	b 3.8	b 2.2	b +	0	0
2	0.3	a 0.2	4.3	32	10	s 75	b 10	b 3.7	b 2.1	b +	0	0
3	0.3	a 0.3	2.6	34	10	s 75	b 9.5	b 3.6	b 2.0	b +	0	0
4	0.3	a 0.3	3.0	32	11	s 75	b 9.0	b 3.5	b 1.9	b +	0	0
5	0.3	a 0.3	3.0	23	11	s 53	b 8.5	b 3.4	b 1.8	b +	0	0
6	0.3	a 0.3	2.2	19	14	s 40	b 8.0	b 3.3	b 1.7	b +	0	0
7	0.3	a 0.3	1.6	16	15	s 18	b 7.7	b 3.2	b 1.6	b +	0	0
8	0.6	a 0.3	1.2	15	46	s 70	b 7.5	b 3.1	b 1.5	b +	0	0
9	0.3	a 0.3	1.2	16	114	s 90	b 7.3	b 3.0	b 1.4	b 0.1	0	0
10	0.3	a 0.3	1.1	15	133	s 75	b 7.1	b 2.9	b 1.3	b 0.1	0	0
11	0.3	a 0.3	1.0	14	s 1910	s 55	b 6.9	b 2.8	b 1.2	b 0.1	0	0
12	0.6	a 0.4	0.9	12	s 500	s 40	b 6.7	b 2.7	b 1.2	b 0.1	0	0
13	0.6	a 0.4	0.9	11	s 642	s 40	b 6.5	b 2.6	b 1.2	b 0.1	0	0
14	0.3	a 0.4	0.9	11	384	s 45	b 6.3	b 2.5	b 1.1	b 0.1	0	0
15	0.3	a 0.3	0.9	11	260	s 50	b 6.1	b 2.4	b 1.1	b 0.1	0	0
16	0.3	0.2	0.9	14	214	s 45	b 5.9	b 2.3	b 1.1	b +	0	0
17	0.3	0.2	1.0	23	214	s 40	b 5.7	b 2.2	b 1.0	b +	0	0
18	0.4	0.2	2.1	40	208	s 30	b 5.5	b 2.1	b 1.0	b +	0	0
19	0.5	0.2	8.8	54	150	s 20	b 5.3	b 2.0	b 0.8	b +	0	0
20	0.3	0.2	27	46	105	s 60	b 5.1	b 1.9	b 0.7	b +	0	0
21	0.3	0.2	32	39	94	s 120	b 4.9	b 1.8	b 0.6	b +	0	0
22	0.3	0.2	31	46	80	s 100	b 4.7	b 1.7	b 0.5	b +	0	0
23	0.3	0.2	28	57	b 60	b 60	b 4.6	b 1.6	b 0.4	b +	0	0
24	0.5	0.2	27	50	b 50	b 40	b 4.5	b 1.7	b 0.3	b 0	0	0
25	0.3	9.5	29	39	b 40	b 20	b 4.4	b 1.8	b 0.2	b 0	0	0
26	a 0.3	39	27	32	b 40	b 18	b 4.3	b 1.9	b 0.1	b 0	0	0
27	a 0.3	56	30	27	s 48	b 16	b 4.2	b 2.0	b 0.1	b 0	0	0
28	a 0.3	55	32	22	96	b 15	b 4.1	b 2.1	b 0.1	b 0	0	0
29	a 0.3	33	33	18		b 14	b 4.0	b 2.2	b 0.1	b 0	0	0
30	a 0.2	14	32	14		b 13	b 3.9	b 2.3	b 0.1	b 0	0	0
31	a 0.2		32	11		b 12		b 2.4		b 0	0	

MEAN	0.33	7.10	13.0	26.6	195	48.5	6.31	2.53	1.01	0.02	0	0
ACRE-FEET	20	422	800	1640	10830	2980	375	156	60	1.4	0	0

YEAR OR PERIOD MEAN 23.9
ACRE-FEET 17280

STATION DATA SUMMARY

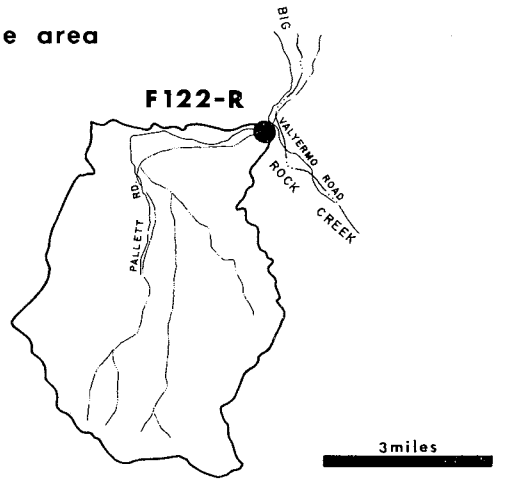
STA. NO. F108-R
CASTAIC CREEK AT HIGHWAY 126

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW 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	1.5	E
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	

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

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

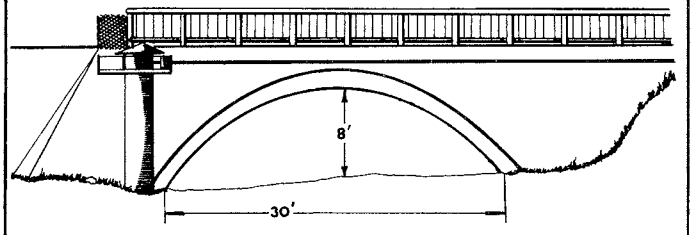
REGULATION – none

CHANNEL – sand and gravel, natural section

CONTROL – channel forms control for low flows; bridge culvert forms 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 Highway — FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	October	November	December	January	February	March	April	May	June	July	August	September
1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.1	e .04	e .02	e .02	a 0.2
2	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.1	e .04	e .02	e .02	a 0.2
3	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.1	e .04	e .02	e .02	a 0.2
4	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.1	e .04	e .02	e .02	a 0.2
5	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.1	e .04	e .02	e .02	a 0.2
6	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.1	e .04	e .02	e .02	0.2
7	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.1	e .04	e .02	e .02	0.2
8	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.1	e .04	e .02	e .02	0.2
9	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.1	e .04	e .02	e 0.1	0.2
10	0.1	0.1	0.2	0.2	0.2	0.4	0.2	0.1	e .04	e .02	e 0.1	0.2
11	0.1	0.1	0.2	0.2	6.5	0.4	0.2	0.1	e .04	e .02	e 0.1	0.2
12	0.1	0.1	0.2	0.3	3.0	0.4	0.2	0.1	e .04	e .02	e 0.2	0.2
13	0.1	0.1	0.2	0.3	4.5	0.4	0.2	0.1	e .04	e .02	e 0.2	0.2
14	0.1	0.1	0.2	0.3	4.5	0.4	0.2	0.1	e .04	e .02	e 0.2	0.2
15	0.1	0.1	0.2	0.3	1.5	0.4	0.2	0.1	e .04	e .02	e 0.2	0.2
16	0.1	0.1	0.2	0.2	1.0	0.4	0.2	0.1	e .03	e .02	e 0.2	0.2
17	0.1	0.1	0.2	0.2	0.8	0.4	0.2	e .09	e .03	e .02	e 0.2	0.2
18	0.1	0.1	0.2	0.2	0.8	0.3	0.2	e .09	e .03	e .02	e 0.2	0.2
19	0.1	0.1	0.2	0.2	0.6	0.3	0.2	e .09	e .03	e .02	e 0.2	0.2
20	0.1	0.1	0.2	0.2	0.4	0.4	0.2	e .08	e .03	e .02	a 0.2	0.2
21	0.1	0.1	0.2	0.2	0.3	0.3	0.1	e .08	e .03	e .02	a 0.2	0.2
22	0.1	0.1	0.2	0.2	0.3	0.3	0.1	e .08	e .03	e .02	a 0.2	0.2
23	0.1	0.1	0.2	0.2	0.3	0.4	0.1	e .07	e .02	e .02	a 0.2	0.3
24	0.1	0.1	0.2	0.2	0.3	0.3	0.1	e .07	e .02	e .02	a 0.2	0.4
25	0.1	0.1	0.2	0.2	0.3	0.3	0.1	e .07	e .02	e .02	a 0.2	0.4
26	0.1	0.1	0.2	0.2	0.3	0.3	0.1	e .06	e .02	e .02	a 0.2	0.4
27	0.1	0.1	0.2	0.2	0.3	0.3	0.1	e .06	e .02	e .02	a 0.2	0.5
28	0.1	0.1	0.2	0.2	0.3	0.3	0.1	e .06	e .02	e .02	a 0.2	0.4
29	0.1	0.1	0.2	0.2		0.3	0.1	e .05	e .02	e .02	a 0.2	0.4
30	0.1	a 0.1	0.2	0.2		0.3	0.1	e .05	e .02	e .02	a 0.2	0.4
31	0.1		0.2	0.2		0.3		e .05		e .02	a 0.2	

MEAN	0.10	0.10	0.20	0.21	1.0	0.33	0.18	0.09	0.03	0.02	0.14	0.25
ACRE-FEET	6.1	6.0	12.	13.	56.	20.	10.	5.3	1.9	1.2	8.8	15.

YEAR OR PERIOD — MEAN 0.22 — ACRE-FEET 156

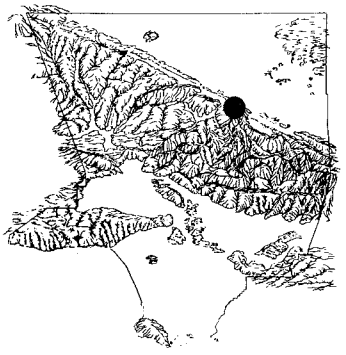
STATION DATA SUMMARY

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

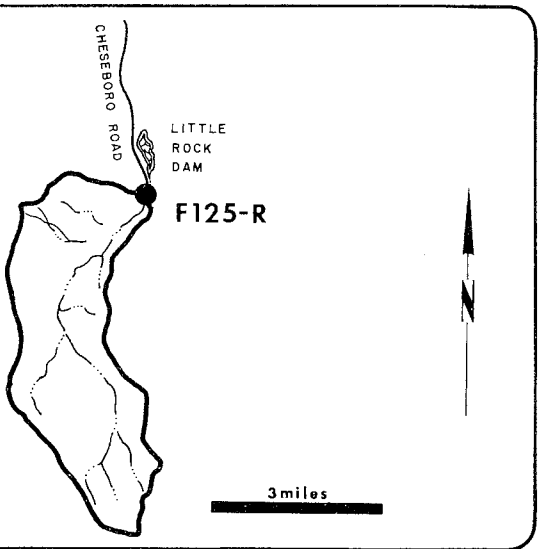
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS
1961-62	92	0	0.4	311	2	11	259
1962-63	0.7	0	0.3	190	2	9	3.0
1963-64	0	0	0	0			
1964-65	0.3	0	+	0.6	8	12	16
1965-66	53	0	1.5	1110	12	29	176
1966-67	3.8	0.3	0.8	618	12	6	6.6
1967-68	5.0	0.3	0.8	615	11	21	9.6
1968-69	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

= 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

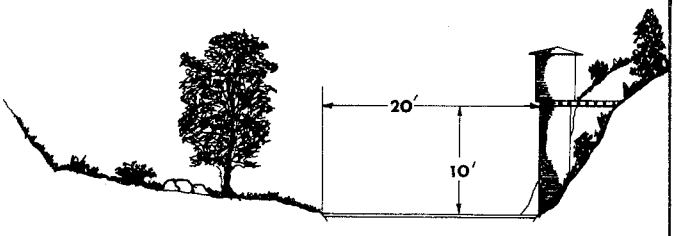
CHANNEL – sand, gravel and boulders

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 F125R

DAILY DISCHARGE IN SECOND-FEET OF SANTIAGO CREEK above Little Rock Creek FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	October	November	December	January	February	March	April	May	June	July	August	September
1	0	0	0	0	0.1	5.0	1.9	0.6	+	0	0	0
2	0	0	0	0	0.1	3.9	1.9	0.6	+	0	0	0
3	0	0	0	0	0.1	3.2	1.8	0.5	+	0	0	0
4	0	0	0	0	0.2	3.2	1.8	0.5	0	0	0	0
5	0	0	0	0	0.1	3.0	1.8	0.5	0	0	0	0
6	0	0	0	0	3.7	3.2	1.8	0.5	0	0	0	0
7	0	0	0	0	5.3	3.9	2.4	0.4	0	0	0	0
8	0	0	0	0	3.2	3.7	a 2.1	0.4	0	0	0	0
9	0	0	0	0	2.4	3.5	1.9	0.3	0	0	0	0
10	0	0	0	0	2.4	3.2	1.9	0.3	0	0	0	0
11	0	0	0	0	72	4.1	1.8	0.2	0	0	0	0
12	0	0	0	0	16	3.7	1.8	0.2	0	0	0	0
13	0	0	0	0	9.7	3.2	1.9	0.2	0	0	0	0
14	0	0	0	0	11	3.0	1.8	0.2	0	0	0	0
15	0	0	0	0	8.8	2.8	1.6	0.2	0	0	0	0
16	0	0	0	0	b 8.0	2.8	1.3	0.1	0	0	0	0
17	0	0	0	0	b 6.0	2.8	1.3	0.1	0	0	0	0
18	0	0	0	0	b 5.0	2.8	1.2	0.1	0	0	0	0
19	0	0	0	0	b 4.0	2.6	1.1	+	0	0	0	0
20	0	0	0	0	b 3.0	3.0	0.9	+	0	0	0	0
21	0	0	0	0	b 2.0	2.6	0.9	+	0	0	0	0
22	0	0	0	0	1.7	2.6	0.9	+	0	0	0	0
23	0	0	0	0	1.7	2.4	0.9	+	0	0	0	0
24	0	0	0	0	1.7	2.4	0.9	+	0	0	0	0
25	0	0	0	0	1.7	2.4	0.9	+	0	0	0	0
26	0	0	0	0	1.7	2.4	0.8	+	0	0	0	0
27	0	0	0	0	1.9	2.4	0.8	+	0	0	0	0
28	0	0	0	+	7.6	2.4	0.7	+	0	0	0	0
29	0	0	0	0.1		2.2	0.7	0	0	0	0	0
30	0	0	0	0.1		2.2	0.7	0	0	0	0	0
31	0		0	0.1		2.2		0		0	0	
MEAN	0	0	0	0.01	6.43	2.99	1.41	0.19	+	0	0	0
ACRE-FEET	0	0	0	0.6	359	184	84	12	+	0	0	0

YEAR OR PERIOD MEAN 0.88
ACRE-FEET 640

STATION DATA SUMMARY

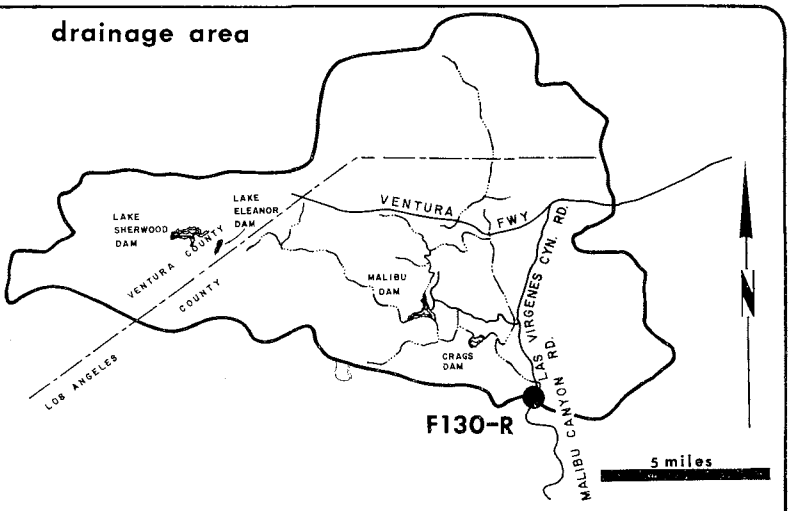
STA. NO. F125-R
SANTIAGO CREEK ABOVE LITTLE ROCK CREEK

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS
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	+	+	8	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	345	0	5.8	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

+ = 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 coble 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 Craq's Dam. Other small recreational dams affect low summer flows.

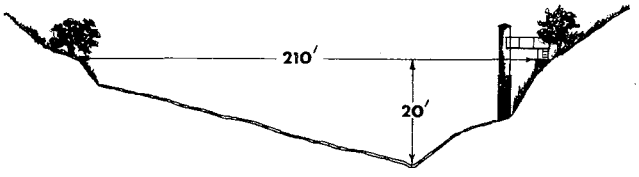
CHANNEL – coarse sand and gravel, lined with trees and brush, natural in section

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 F 130 – R

DAILY DISCHARGE IN SECOND-FEET OF MALIBU CREEK below Cold Creek — FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	October	November	December	January	February	March	April	May	June	July	August	September
1	2.3	4.0	2.5	4.2	6.4	121	39	12	6.4	4.0	2.3	1.9
2	1.9	4.0	2.7	4.4	6.4	86	35	11	8.6	4.0	2.7	2.0
3	1.4	4.0	3.1	4.4	33	70	30	11	9.0	2.5	2.9	2.0
4	1.1	3.6	5.8	4.0	58	63	30	11	6.1	2.9	2.3	2.2
5	1.1	3.8	4.2	4.2	22	53	30	13	6.1	4.8	2.3	2.2
6	0.8	3.6	4.0	4.2	229	72	27	11	8.0	3.8	2.3	2.2
7	1.1	3.3	9.6	4.2	251	75	27	10	8.0	4.4	2.5	2.5
8	1.4	3.3	6.1	4.2	82	162	26	9.3	6.1	4.6	2.0	2.7
9	1.7	3.3	4.8	26	54	149	23	9.9	7.1	4.4	2.0	2.2
10	1.4	4.0	4.6	8.0	628	100	24	10	7.4	3.6	2.0	2.3
11	1.7	6.3	4.4	5.4	3340	123	23	9.6	6.8	3.1	2.0	2.0
12	2.3	3.8	4.4	4.8	468	143	19	11	6.4	3.1	2.2	2.3
13	2.3	3.3	4.2	4.6	582	88	23	11	7.1	3.1	2.0	2.7
14	2.9	51	4.4	4.8	b 233	72	21	11	7.1	2.9	2.0	2.7
15	3.1	6.6	4.4	4.8	170	60	18	10	5.8	3.1	1.9	2.7
16	3.3	27	3.6	124	b 129	58	18	9.6	6.4	3.1	2.0	2.9
17	3.3	50	3.3	106	b 109	54	19	8.6	5.4	2.7	1.9	2.5
18	3.1	7.4	2.5	475	b 96	49	17	11	5.8	2.7	1.5	2.5
19	2.7	5.4	2.5	172	b 85	46	19	11	4.4	2.9	1.4	2.9
20	2.9	4.6	2.7	34	b 67	260	18	12	4.2	4.2	1.5	3.1
21	2.5	4.2	2.5	20	43	107	14	11	2.7	3.6	1.4	3.3
22	2.5	5.1	3.6	15	49	106	14	11	3.8	3.6	1.2	3.3
23	2.5	3.1	4.2	13	47	82	15	9.0	3.6	3.8	1.2	3.1
24	2.3	2.9	3.8	12	63	66	14	9.9	3.6	4.4	1.4	3.3
25	2.3	2.9	3.8	10	58	60	17	8.6	3.8	3.8	1.5	2.9
26	2.2	3.1	4.0	9.3	39	60	15	9.3	3.3	3.6	1.7	2.9
27	2.7	3.1	4.2	8.3	92	56	10	8.0	3.6	2.9	1.7	2.5
28	2.9	2.9	4.2	8.0	260	51	8.6	7.1	3.8	2.5	1.7	2.5
29	2.9	2.7	3.8	8.0		46	9.6	6.6	3.3	2.5	1.9	2.3
30	3.3	2.5	4.4	8.0		42	11	6.1	2.9	2.7	1.9	2.9
31	3.6		4.4	7.4		39		7.4		2.7	1.9	
MEAN	2.31	7.83	4.08	36.2	261	84.5	20.5	9.90	5.55	3.42	1.91	2.58
ACRE-FEET	142	466	251	2230	14,480	5190	1220	609	330	210	117	154

YEAR OR PERIOD MEAN 35.1
ACRE-FEET 25,400

STATION DATA SUMMARY

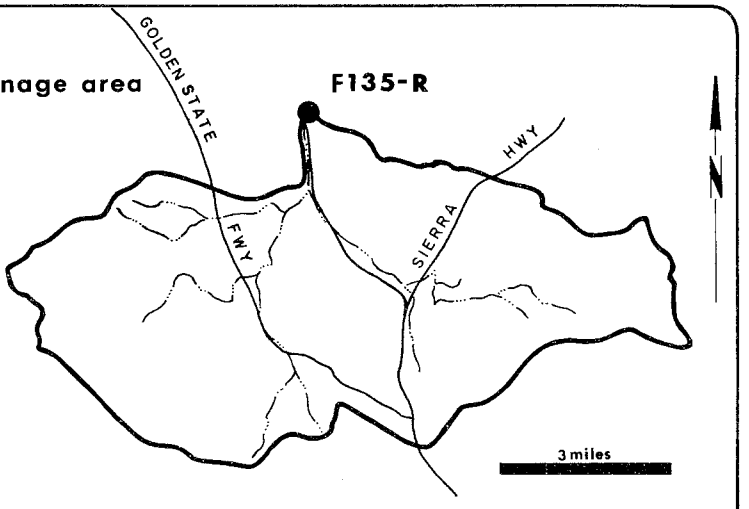
STA. NO. F130-R
MALIBU CREEK BELOW COLD CREEK

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	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	+	8.6	6220			N.D.
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	+	8.4	6100	2	2	690
1940-41	2200	0.1	101	73220	2	20	3620
1941-42	32	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	5.8	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	81	+	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	2.0	+	0.1	99	1	26	8.0
1961-62	3920	+	36.3	26150	2	10	7060
1962-63	24	+	1.0	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

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

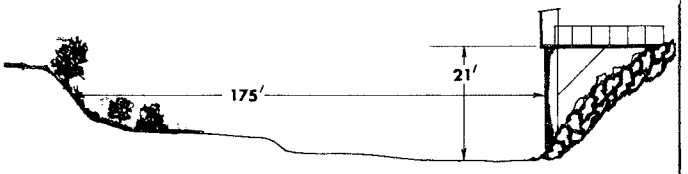
CHANNEL – natural, sand, and gravel

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 - SOUTH FORK AT Magic Mountain Parkway FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	October	November	December	January	February	March	April	May	June	July	August	September
1	0	0	0	0	0	0	0	0	0	2.9	e 0	e 0
2	0	0	0	0	0	0	0	0	e +	2.6	e +	e 0
3	0	0	0	0	17	0	0	0	0	e +	e 0.2	e 0
4	0	0	8.3	0	2.7	0	0	e +	e 0.1	e +	e +	e 0
5	0	0	0	0	10	0	0	e 0.1	2.6	e 0.1	e +	e 0
6	0	0	1.1	0	81	2.3	0	0.6	1.0	0	e +	e 0
7	0	0	2.6	0	62	+	0	1.0	0.2	e +	e 0	e 0
8	0	0	0	0	0.2	20	0	0.6	e 0.1	e 0.2	e +	e 0
9	0	0	0	1.6	0	+	0	e 0.1	e +	e 0.1	e 0	e 0
10	0	0	0	+	339	0	0	0 8	0	e 0.1	e +	e 0
11	0	3.1	0	0	681	11	0	0.6	e +	e 0.2	e 0	e 0
12	0	0	0	0	123	+	0	0.8	2.6	e 0.2	e 0	e +
13	0	0	0	0	93	0	0	1.0	3.2	e 0.1	e 0	e 0
14	0	47	0	0	6.8	0	0	e 0.1	2.6	a +	e 0	e 0
15	0	d +	0	0	2.9	0	0	0	3.2	a +	e 0	e +
16	0	13	0	160	2.3	0	e +	e 0	3.5	e +	e 0	e 0.2
17	0	4.0	0	2.6	1.8	0	e 0.1	0	4.1	e +	e 0	e 0.2
18	0	0	0	233	1.4	0	0	0	4.4	e +	e 0	e +
19	0	0	0	8.2	1.4	0	0	0	4.4	0.4	e 0	e +
20	0	0	0	d +	1.2	114	0	0	3.5	1.4	e 0	e 0.1
21	0	0	0	d +	1.4	24	e +	0	3.2	1.4	e +	e 0
22	0	0	0	0	1.2	1.6	e 0.1	0	e 0.1	1.4	e 0	e 0
23	0	0	0	0	0.8	+	e 0.1	0	3.2	e 0.1	e 0	e 0
24	0	0	0	0	1.2	+	e 0.1	0	3.8	e +	e 0	e 0
25	0	0	0	0	b 1.0	+	0	0	3.5	e 0.1	e 0	e 0
26	0	0	0	0	b 1.0	+	0	0	2.6	e 0.2	e 0	e 0
27	0	0	0	0	59	0.6	0	0	2.0	e 0.2	e 0	e 0
28	0	0	0	0	46	0.2	0	0	2.9	e 0.2	e 0	e 0
29	0	0	0	0		d 0.1	0	e +	3.5	e 0.2	e 0	e 0
30	0	0	0	0		d 0.1	0	0.2	2.0	e 0.3	e 0	e 0
31	0		0	0		d +		e +		e +	e 0	

MEAN	0	2.24	0.39	13.1	54.9	5.61	0.01	.19	2.08	0.4	0.01	0.02
ACRE-FEET	0	133	24	804	3050	345	0.8	12	124	25	0.4	1.0

YEAR OR PERIOD MEAN 6.24

ACRE-FEET 4520

STATION DATA SUMMARY

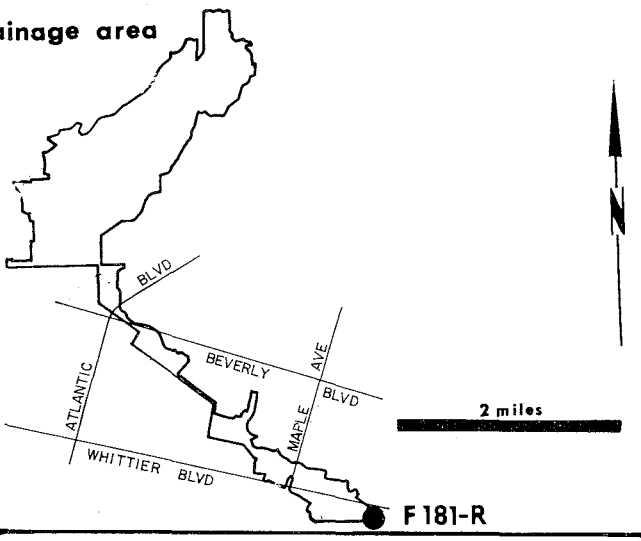
STA. NO. F135-R
SANTA CLARA RIVER - SOUTH FORK AT MAGIC MOUNTAIN PARKWAY

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	8.6	0	0.1	94	12	26	37
1949-50	12	0	0.1	101	1	8	71
1950-51	0.2	0	+	0.6	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	1000	1	19	1100
1954-55	58	0	0.3	200	1	18	460
1955-56	278	0	1.0	753	1	26	573
1956-57	228	0	1.0	756	2	28	2030
1957-58	746	0	10.7	7760	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	9.4	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	8	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

+ = 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

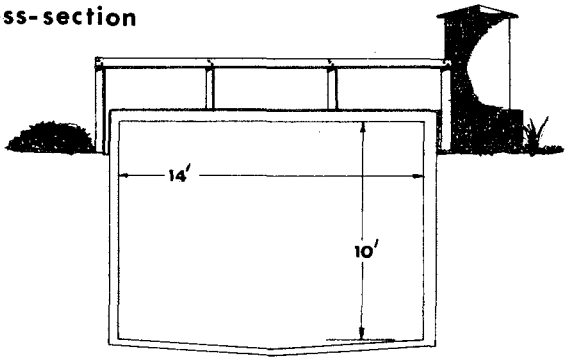
CHANNEL – 14.0-foot by 10.0-foot concrete, box section

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, 19 73

	October	November	December	January	February	March	April	May	June	July	August	September
1	0.5	0.8	0.3	0.4	0.4	0.5	0.4	1.0	1.2	1.2	e 1.0	e 0.8
2	b 0.5	0.4	0.3	0.4	0.4	0.8	0.4	0.8	1.0	1.4	e 0.6	e 0.5
3	b 0.5	0.4	0.3	0.4	22	0.5	0.4	0.8	1.0	1.4	e 1.0	e 0.7
4	b 0.5	0.4	80	0.6	2.3	1.0	0.8	1.0	1.0	1.6	e 0.8	e 0.5
5	b 0.5	0.4	0.4	0.5	1.0	0.4	0.8	0.5	1.0	1.0	e 0.9	e 0.5
6	0.5	0.5	56	0.4	42	15.8	1.0	0.4	1.2	e 0.5	e 1.1	e 0.5
7	0.4	0.5	36	0.4	112	0.5	0.8	0.8	1.0	e 0.5	e 0.7	e 0.4
8	b 0.4	0.4	8.0	0.4	1.4	33	0.4	0.6	1.0	e 0.5	e 0.8	e 0.4
9	b 0.5	0.5	0.2	19.0	0.8	0.6	0.5	0.8	0.8	e 0.5	e 0.6	e 0.4
10	b 0.5	2.7	0.2	0.4	24	0.4	0.4	0.5	0.5	e 0.5	e 0.5	e 0.4
11	b 0.6	23	0.3	0.3	140	38	0.6	0.6	0.8	e 0.5	e 0.4	e 0.3
12	0.6	0.5	0.2	0.3	30	3.6	0.8	0.6	0.5	e 0.5	e 0.4	e 0.3
13	0.6	0.5	0.3	0.3	14.3	0.5	0.8	0.5	0.8	e 0.5	e 0.8	e 0.3
14	0.6	62	0.2	0.3	1.2	0.4	0.8	0.6	0.5	1.1	e 0.5	e 0.3
15	0.6	1.1	0.3	0.3	0.8	0.4	0.8	0.6	0.6	1.1	e 0.6	e 0.3
16	0.8	68	0.3	127	1.0	0.4	1.2	0.6	0.8	1.7	e 0.8	e 0.2
17	0.5	26	0.2	1.7	0.4	0.4	1.0	0.6	0.8	1.0	e 0.8	e 0.2
18	0.6	0.3	0.4	58	0.4	0.4	1.0	1.2	0.8	1.2	e 0.5	e 0.2
19	3.5	0.3	0.3	1.4	0.5	0.5	0.8	1.0	1.0	1.1	e 0.4	e 0.2
20	0.8	0.4	0.4	0.5	0.5	27	1.0	1.0	1.0	e 0.5	e 0.4	e 0.2
21	0.6	0.2	0.3	1.2	0.8	29	0.8	1.0	1.1	e 0.5	e 0.5	e 0.1
22	0.6	0.3	0.4	0.8	0.6	1.1	0.4	1.0	1.2	e 0.5	e 0.5	e 0.1
23	0.8	0.2	0.4	0.6	0.8	0.4	0.8	1.1	1.0	e 0.5	e 0.5	e 0.1
24	0.8	0.3	0.3	0.5	0.5	0.4	0.4	1.0	1.0	e 0.5	e 0.4	e 0.1
25	1.0	0.3	0.3	2.4	0.4	0.4	0.6	1.1	1.1	e 0.5	e 0.4	e 0.1
26	1.0	0.2	0.4	0.4	0.5	0.8	0.5	1.0	1.2	e 0.5	e 0.5	e 0.1
27	1.1	0.3	0.4	0.3	42	0.4	0.8	1.0	1.4	e 0.5	e 0.5	e 0.1
28	1.1	0.3	0.3	0.2	9.2	1.0	0.6	1.1	1.2	1.7	e 0.5	e 0.1
29	1.1	0.3	0.4	0.3		0.4	0.4	1.1	2.2	1.6	e 0.5	e 0.1
30	1.2	0.3	0.3	15.4		0.4	0.8	1.4	1.2	1.4	e 0.8	e 0.1
31	1.2		0.4	0.8		0.4		1.0		1.1	e 1.0	
MEAN	0.79	6.39	6.08	7.61	16.1	5.16	0.69	0.85	1.00	0.89	0.64	0.29
ACRE-FEET	48	380	374	468	893	317	41	52	59	55	39	17

YEAR OR PERIOD MEAN 3.79
ACRE-FEET 2740

STATION DATA SUMMARY

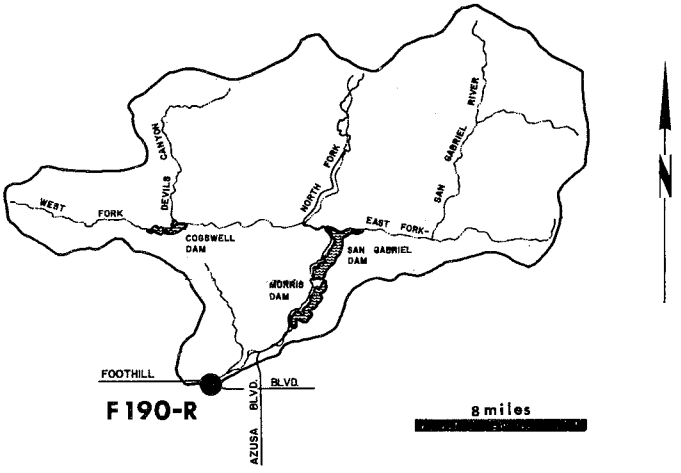
STA. NO. F181-R
MONTEBELLO STORM DRAIN ABOVE RIO HONDO

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	2.6	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	885	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	0.1E	3.6	2580			N.D.
1943-44	323 E	0.1	3.3	2390	2	22	1040
1944-45	64	0.1E	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

* = 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 Cogswell, San Gabriel, and Morris Dams

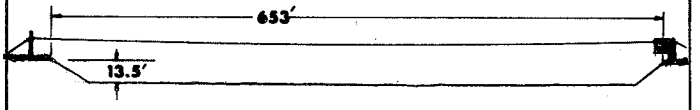
CHANNEL – sand, gravel and rock, trapezoidal section with soft bottom

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 Foothill Boulevard FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	October	November	December	January	February	March	April	May	June	July	August	September
1	0	27	90	0	1.0	487	613	214	62	2.0	0.3	0
2	0	178	53	0	0.5	701	309	214	62	1.9	+	0
3	0	166	0	0	3.0	701	68	190	62	1.9	+	0
4	0	160	6.0	0	1.2	712	280	166	59	1.7	+	0
5	0	160	0.2	0	1.2	701	290	160	59	1.5	+	0
6	0	160	0	0	22	724	290	160	59	3.0	+	0
7	0	154	+	0	146	689	290	148	55	12	+	0
8	0	154	0	0	238	433	280	130	45	15	0.5	0
9	0	154	0	0	230	347	280	126	10	17	1.5	0
10	0	154	0	0	288	646	248	126	4.0	10	1.4	0
11	0	172	0	0	690	678	206	126	3.0	1.5	0	0
12	0	160	0	0	214	656	206	121	3.0	1.4	0	0
13	0	124	0	0	224	635	206	126	3.0	1.2	0	0
14	0	1.7	0	0	435	635	206	126	3.0	1.2	0.9	0
15	0	+	0	0	690	635	206	130	3.0	1.0	1.0	0
16	0	13.4	0	6.9	803	712	264	154	4.0	1.2	+	0
17	0	12.0	0	1.5	792	792	329	154	2.0	1.2	+	0
18	0	0	0	45	769	792	292	154	3.0	1.0	0	0
19	0	0	0	23	758	768	214	148	3.0	0.5	0	0
20	0	0	0	4.0	758	482	214	148	22	0.5	0	0
21	0	70	0	2.0	746	290	206	148	133	0.5	0	0
22	0	90	0	2.0	746	475	206	126	91	1.0	0	0
23	0	90	0	2.0	701	624	198	142	8.0	1.2	0	0
24	0	90	0	2.0	613	624	198	117	7.0	1.7	0	0
25	0	90	0	3.0	602	613	206	112	6.0	1.7	0	0
26	0	90	0	3.0	701	613	206	99	5.0	1.7	0	0
27	0	90	0	2.0	689	624	206	99	3.0	1.0	0	0
28	0	90	0	1.9	369	613	214	99	4.0	+	0	0
29	0	90	0	1.3		613	214	86	2.0	+	0	0
30	0	90	0	0		613	214	109	3.0	+	0	0
31	0		0	0		613		72		0.5	0	
MEAN	0	94.3	4.81	3.21	437	621	245	136	26.3	2.77	0.18	0
ACRE-FEET	0	5610	296	198	24,260	38,160	14,600	8390	1560	170	11	0

YEAR OR PERIOD MEAN 129
ACRE-FEET 93,260

STATION DATA SUMMARY

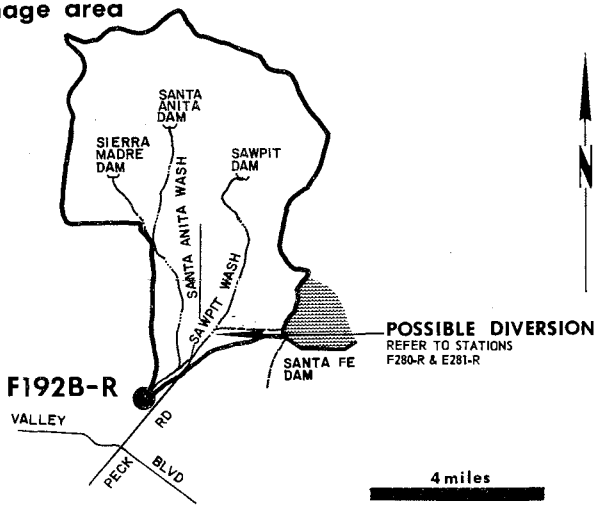
STA. NO. F190-R
SAN GABRIEL RIVER AT FOOTHILL BOULEVARD

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	62000E
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	18	4670
1952-53	1030	0	56.9	41180	10	28	1080
1953-54	848	0	30.3	21920	4	16	2160
1954-55	3.8	0	+	38	1	18	12
1955-56	215	0	2.0	1430	1	26	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	2080	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	9660	12	8	254
1972-73	803	0	129	93260	2	11	1010

* = 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.

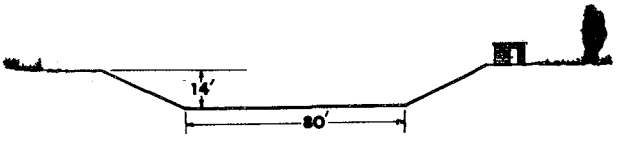
CHANNEL – concrete, trapezoidal in section

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, 1973

	October	November	December	January	February	March	April	May	June	July	August	September
1	+	+	+	+	+	31	+	+	+	0	+	+
2	+	0.1	+	+	0.1	35	0.2	+	0	0	+	+
3	+	0.1	+	+	9.2	22	0.2	0	0	0	+	+
4	+	0.1	23	0.1	2.9	24	20	0	0	+	0.1	0.1
5	+	0.1	+	+	2.8	58	+	+	0	+	+	+
6	0.1	0.1	1.6	+	12.6	175	+	0	0	+	+	+
7	0.1	0.1	5.7	0.2	30	138	0.1	+	0	+	+	+
8	+	0.1	2.1	0.2	0.1	201	+	0	0	+	+	+
9	+	0.1	+	4.4	0.1	66	44	0	0	+	+	+
10	+	+	+	0.3	8.3	132	81	0	0	+	+	+
11	+	10.5	+	0.1	86	270	86	0	0	+	+	+
12	0.1	0.1	+	0.1	225	170	76	0	0	+	+	+
13	+	+	+	+	116	95	67	0	+	+	+	+
14	+	23	+	+	18.6	61	61	0	0	+	+	+
15	+	0.1	+	0.1	25	22	48	0	0	+	+	0.1
16	+	16.6	+	38	68	58	31	0	0	+	+	0.1
17	+	5.3	+	0.2	163	126	11.1	+	0	+	+	0.1
18	6.2	+	+	25	175	126	0.1	0	0	+	+	+
19	2.6	+	+	0.3	157	126	0.3	0	0	+	+	0.1
20	0.1	+	+	+	157	222	0.3	+	+	+	+	0.1
21	+	+	+	+	178	8.3	0.1	0	+	+	+	0.1
22	+	+	+	+	229	0.4	0.1	0	+	+	+	0.1
23	+	+	0.1	+	132	3.9	+	0	+	+	+	0.1
24	+	+	0.1	+	29	17.8	0.1	0	+	+	+	0.1
25	+	+	+	+	29	15.9	+	0	+	+	+	+
26	+	+	+	+	81	17.8	+	0	+	+	+	0.4
27	+	0.1	+	+	258	14.8	+	+	+	+	+	0.3
28	+	0.1	+	+	170	3.9	+	+	+	+	+	+
29	0.2	0.1	0	+		1.9	+	+	0	+	+	+
30	+	+	+	4.0		0.1	+	+	0	+	+	+
31	+		+	0.1		0.1		+		+	+	
MEAN	0.30	1.89	1.05	2.36	84.4	72.4	17.6	+	+	+	+	0.06
ACRE-FEET	19	112	65	145	4690	4450	1040	+	+	+	0.2	3.4

YEAR OR PERIOD MEAN 14.5
ACRE-FEET 10,520

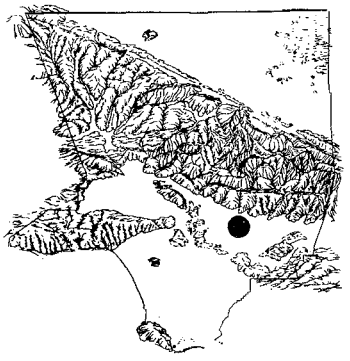
STATION DATA SUMMARY

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

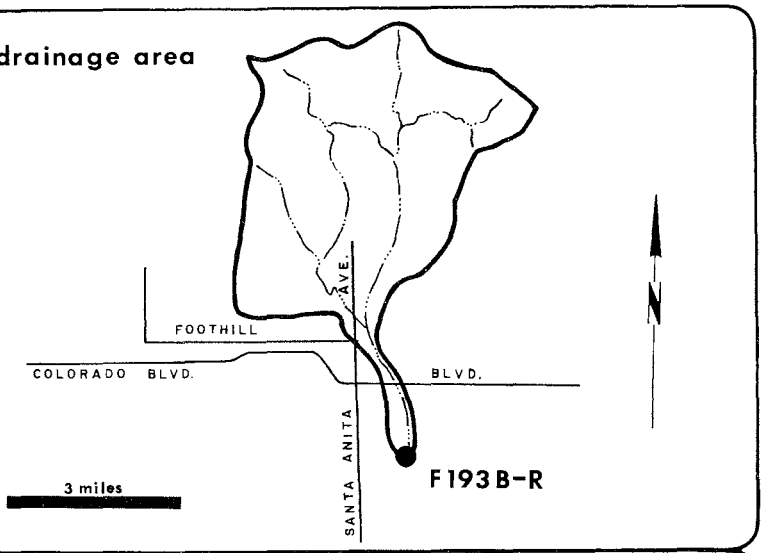
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS
1931-32	*	0	*	12710*			N.D.
1932-33	937	0	5.2	3800	1	20	5160
1933-34	2700	0	11.2	8110	1	1	5860
1934-35	324	0	11.3	8160	4	8	604
1935-36	114	0	4.7	3400	2	11	391
1936-37	904	0	38.6	27960	2	20	I030E
1937-38	10500	0	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	113	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	785	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	0.8	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	9770	2	27	2390

B = RECORD BEGAN AT B 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

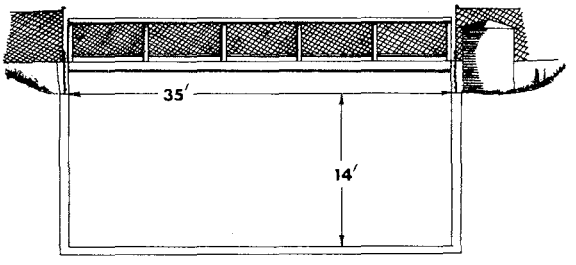
REGULATION – regulated by Santa Anita and Sierra Madre Dams, and Santa Anita Debris Basin

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 F 193 B-R

DAILY DISCHARGE IN SECOND-FEET OF SANTA ANITA WASH at Longden Avenue FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	+	+	+	+	0.1	2.5	1.4	0.2	+	0.1	+	+
2	+	+	+	+	+	4.6	2.0	0.2	+	0.1	+	+
3	+	+	+	+	15.0	2.0	2.5	0.2	+	0.1	1.4	+
4	+	+	24	0.1	1.2	1.4	3.6	0.2	+	+	0.3	+
5	+	+	+	+	3.6	0.3	3.6	0.7	+	+	0.2	+
6	+	+	0.7	0	46	16.0	4.6	0.3	+	+	0.1	+
7	+	+	8.7	+	51	0.1	3.6	0.3	+	0.1	+	+
8	+	+	1.5	+	4.6	39	2.5	0.3	+	+	+	+
9	+	+	0	0.3	3.6	36	2.5	0.3	+	+	+	+
10	+	2.2	0	+	35	4.6	1.4	0.2	0.1	+	+	+
11	0	20	0	+	595	86	1.4	0.2	0.2	+	+	+
12	0	+	+	+	268	68	1.4	0.1	0.2	+	+	+
13	0	+	0	+	121	110	1.4	0.1	0.2	+	+	+
14	0	28	0	+	33	52	1.4	+	0.3	+	+	0.1
15	0	+	0	+	7.8	5.7	1.4	+	0.3	+	+	+
16	+	19.0	+	44	5.7	6.8	1.4	+	0.2	+	+	+
17	+	3.3	+	0.1	11.1	4.6	1.4	+	0.2	+	0.2	0.1
18	1.7	0	+	61	5.7	4.6	1.4	+	0.2	+	0.2	0.1
19	1.5	0	0.6	2.6	2.0	3.6	1.4	+	+	+	0.2	0.1
20	0.4	0	1.0	+	1.0	47	0.7	+	+	+	0.2	0.2
21	0	0	0.2	0.6	1.0	13.5	0.2	+	+	+	0.2	0.1
22	0	0	0.1	0	2.0	5.7	0.1	+	+	+	0.1	0.1
23	0	0	0.1	0	1.4	3.6	0.1	+	+	+	+	0.1
24	0	0	+	0	1.4	3.6	0.1	+	+	+	0.1	0.1
25	0	0	+	+	1.4	2.5	0.1	+	0.2	+	+	0.1
26	0	0	+	0	2.5	2.0	0.1	+	0.7	+	+	0.1
27	0	0	+	+	84	2.5	+	+	1.0	+	0.1	0.1
28	+	0	+	+	29	3.6	+	+	1.0	+	0.1	0.1
29	0	+	+	0.2		2.5	+	+	0.2	+	+	0.1
30	0	+	+	5.8		1.4	+	+	0.2	+	+	0.1
31	0		+	0.2		1.4		+		+	+	
MEAN	0.12	2.42	1.19	3.71	47.6	17.3	1.39	0.11	0.17	+	0.11	0.05
ACRE-FEET	7.1	144	73	228	2640	1070	83	6.5	10	0.8	6.7	3.2

YEAR OR PERIOD MEAN 5.90
ACRE-FEET 4270

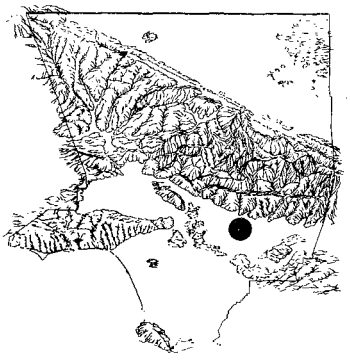
STATION DATA SUMMARY

STA. NO. F193B-R
SANTA ANITA WASH AT LONGDEN AVENUE

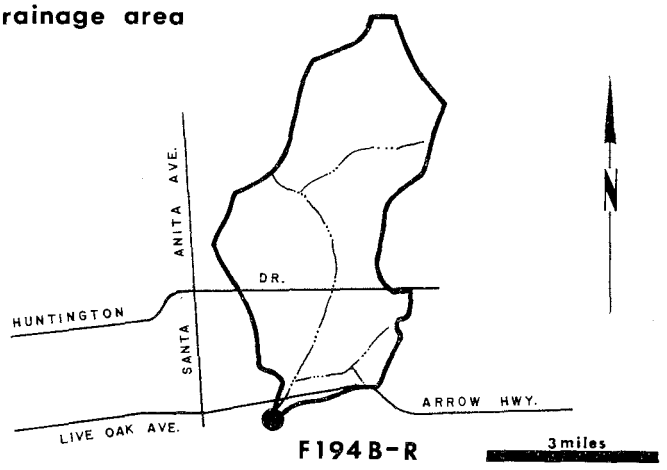
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS
1959-60B	55	+	0.6	465	4	27	534
1960-61	33	0	0.3	216	11	12	314
1961-62	693	0	8.2	5910	2	11	1780
1962-63	101	0	1.0	709	2	9	621
1963-64	47	0	0.9	650	11	20	581
1964-65	63	0	1.4	985	4	9	518
1965-66	541	+	12.0	8730	12	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

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

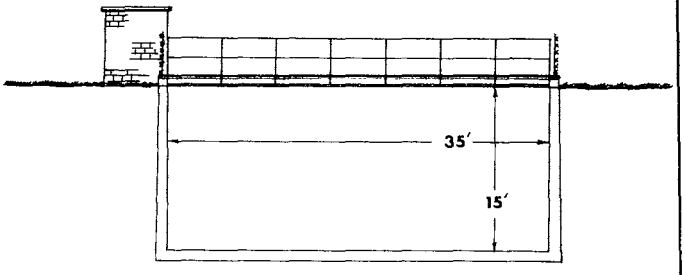
REGULATION – partially regulated by Sawpit and Santa Fe Dams, and by several debris basins

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 Avenue — FOR THE WATER YEAR ENDING SEPTEMBER 30, 1973

	October	November	December	January	February	March	April	May	June	July	August	September
1	+	0.3	0.4	+	0.3	65	22	2.2	2.0	0.2	0.2	0.3
2	+	3.1	0.2	0.1	0.1	58	22	2.2	2.0	0.2	0.2	0.1
3	+	0.1	0.7	0.2	29	52	22	2.2	2.0	0.2	0.2	0.1
4	+	0.2	61	0.5	3.3	54	22	2.2	1.5	0.2	0.2	0.1
5	+	0.3	1.7	0.6	7.9	112	12.5	3.6	1.1	0.2	0.1	0.2
6	+	0.2	13.4	0.2	63	188	0.3	2.2	1.1	0.3	0.3	0.2
7	+	0.1	63	0.4	69	173	0.3	2.0	0.8	0.2	0.6	0.3
8	+	0.4	18.1	0.2	0.3	157	0.4	2.0	0.4	0.2	0.6	0.2
9	+	0.2	1.1	3.8	0.3	77	1.8	2.0	0.2	0.2	0.4	0.1
10	+	2.4	+	0.8	52	166	0.8	2.0	0.2	0.3	0.2	0.2
11	0	30	1.7	0.8	381	185	0.8	2.0	0.2	0.8	0.2	0.2
12	0	0.6	0.2	0.3	116	122	0.8	2.0	0.1	0.6	0.1	0.3
13	0	0.2	0.2	0.2	49	39	0.8	2.2	0.1	0.4	0.1	1.1
14	0	53	0.2	0.2	20	37	0.3	2.2	0.2	0.2	0.2	0.3
15	0	1.1	0.1	1.1	83	37	0.3	1.5	0.2	0.1	0.2	0.2
16	+	52	0.2	89	173	87	0.3	0.8	0.2	0.1	0.2	0.2
17	+	11.4	4.8	0.9	180	134	0.3	0.6	0.2	0.2	0.2	2.0
18	8.4	1.2	0.2	90	176	134	0.3	0.3	0.2	0.2	0.2	1.3
19	3.3	0.4	0.2	2.5	176	134	0.3	0.3	0.2	0.2	0.1	1.9
20	1.6	0.6	0.2	2.7	173	139	0.3	0.2	0.2	0.2	0.2	2.7
21	0	0.3	0.1	2.4	183	18.6	4.2	0.2	0.2	0.1	0.2	2.1
22	0	0.7	0.1	4.8	184	15.6	5.0	0.2	0.3	0.1	0.2	0.1
23	0	1.0	0.2	1.8	137	40	4.0	0.2	0.2	0.2	0.2	0.1
24	0	0.2	2.7	1.1	62	39	23	0.2	0.2	0.2	0.3	2.8
25	0	0.2	1.7	0.4	62	39	3.1	0.3	0.2	0.2	0.1	2.2
26	0	0.2	0.1	0.3	124	40	2.7	0.2	0.2	0.2	0.1	0.1
27	0	0.3	0.1	0.2	264	31	2.4	0.2	0.2	0.2	0.1	0.1
28	+	1.1	2.3	0.1	82	22	2.4	0.2	0.2	0.2	0.1	0.1
29	0	1.3	0.1	0.1		21	2.4	0.3	0.2	0.1	0.2	0.1
30	0	0.9	0.1	8.6		21	2.2	1.3	0.2	0.2	0.2	0.1
31	0		+	0.2		21		2.0		0.2	0.2	
MEAN	0.43	5.47	5.65	6.92	102	79.2	5.33	1.29	0.51	0.23	0.21	0.66
ACRE-FEET	26	325	347	425	5650	4870	317	79	30	14	13	39

YEAR OR PERIOD — MEAN 16.8 — ACRE-FEET 12130

STATION DATA SUMMARY

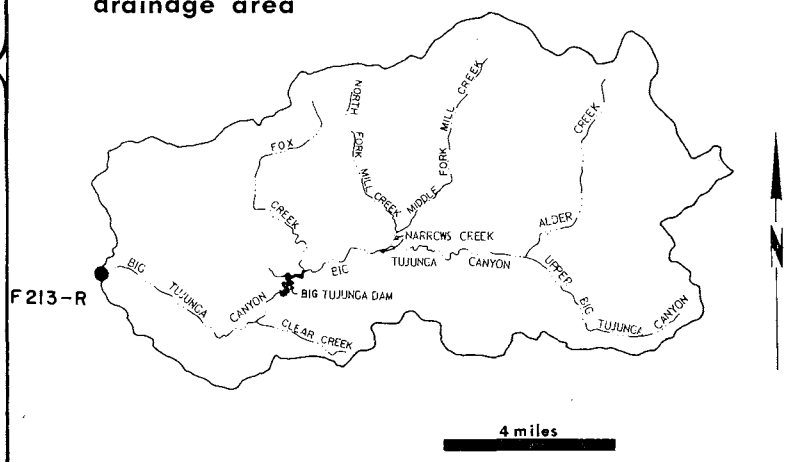
STA. NO. F194B-R
SAWPIT WASH BELOW LIVE OAK AVENUE

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS
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	1500	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

B = RECORD BEGAN AT B 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

drainage area



RECORDER – cantinuous 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

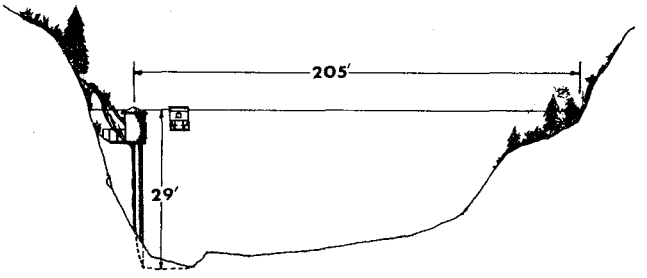
CHANNEL – gravel and boulders, natural section

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

cross-section



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO F 213-R

DAILY DISCHARGE IN SECOND-FEET OF BIG TUJUNGA CREEK above Gold Canyon — FOR THE WATER YEAR ENDING SEPTEMBER 30, 1973

	October	November	December	January	February	March	April	May	June	July	August	September
1	5.3	6.6	2.0	2.0	3.5	45	66	34	7.1	3.6	1.3	77
2	5.3	6.6	2.8	2.0	3.5	26	64	9.7	7.5	3.2	0.6	75
3	5.3	6.6	2.4	2.0	4.6	22	57	8.6	7.1	3.6	0.3	74
4	5.3	6.6	10	2.0	4.6	18	50	8.1	6.6	3.2	0.3	51
5	5.3	6.6	3.6	2.0	4.0	18	50	7.5	6.2	3.2	0.6	14
6	4.6	6.6	3.2	2.0	29	69	50	7.5	5.4	3.2	1.3	12
7	4.6	6.6	10	2.0	76	71	50	7.5	4.1	3.2	1.3	11
8	4.6	6.6	5.3	2.0	26	92	50	7.1	3.2	3.2	1.3	9.7
9	4.6	6.6	4.6	2.0	17	122	51	6.6	3.2	2.9	30	9.2
10	4.6	7.2	4.0	2.0	74	92	51	7.1	4.1	2.9	75	9.2
11	4.6	11	4.0	2.0	970	47	36	7.1	4.1	2.9	78	9.7
12	4.6	7.8	4.0	2.0	493	86	13	7.5	6.2	2.9	78	9.7
13	4.6	7.8	4.0	2.0	264	151	13	7.5	6.6	3.2	67	9.7
14	5.3	16	4.0	2.0	213	155	13	8.1	6.6	3.6	70	14
15	5.3	10	4.0	2.0	176	133	13	7.5	7.5	3.6	70	12
16	5.9	25	4.0	4.1	184	131	13	7.1	7.5	3.6	69	12
17	5.9	16	3.6	19	220	131	13	6.6	7.5	3.2	67	11
18	5.9	9.1	3.6	57	224	131	12	6.6	7.1	2.9	67	12
19	11	6.6	3.6	37	b 216	131	12	6.6	5.8	3.2	67	12
20	7.2	5.3	3.6	b 3.5	b 149	130	12	7.1	4.1	2.9	75	11
21	6.6	8.7	3.2	b 3.5	34	85	12	7.1	3.6	2.9	85	11
22	6.6	5.3	2.8	b 3.5	20	33	11	7.1	3.2	3.6	91	11
23	5.9	4.0	2.8	b 3.5	18	29	10	7.5	2.9	3.2	94	11
24	5.3	4.0	2.4	b 3.5	18	27	10	7.1	2.9	2.9	85	11
25	4.6	4.0	2.4	b 3.5	18	25	9.7	7.1	2.6	2.9	85	11
26	4.0	4.6	2.0	b 3.5	18	24	24	6.6	2.2	2.6	82	11
27	4.0	4.6	2.0	b 3.5	26	30	48	5.8	2.2	2.2	78	12
28	4.0	3.2	2.0	b 3.5	64	66	49	5.8	2.2	1.9	78	12
29	4.0	3.2	2.0	b 3.5		66	50	6.6	2.9	1.9	77	12
30	5.9	2.0	2.0	b 3.5		64	50	7.5	2.9	1.9	77	12
31	6.6		2.0	b 3.5		64		7.5		1.9	77	
MEAN	5.4	7.5	3.6	6.1	127	74.7	32.1	8.1	4.8	3.0	55.8	19.0
ACRE-FEET	332	446	222	375	7080	4590	1910	498	288	183	3430	1130

YEAR OR PERIOD MEAN 28.3
ACRE-FEET 20,480

STATION DATA SUMMARY

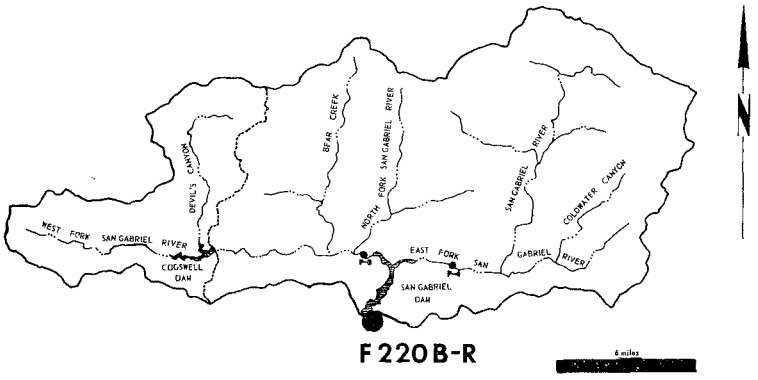
STA. NO. F213-R
BIG TUJUNGA CREEK ABOVE GOLD CANYON

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS
1932-33	488	1.1	10.5	7590	1	19	1390
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	350 E	1.6	15.1	10990			N.D.
1940-41	1260	1.2	109	78840	2	21	1650
1941-42	62	4.4	14.8	10690	12	28	165
1942-43	8000 E	1.2	105	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	108
1953-54	227	0.6	11.4	8240	1	25	387
1954-55	33	1.1	5.0	3580	1	18	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	0.8	213	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

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

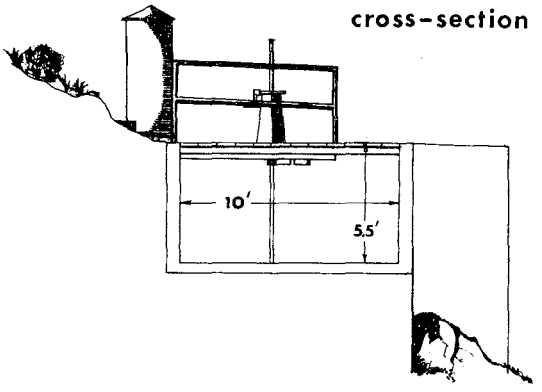
CHANNEL - rectangular in section

CONTROL - 10-foot concrete weir

LENGTH - February 26, 1933, to date

REMARKS - approximate capacity 95 second-feet

cross-section



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO F220B-R

DAILY DISCHARGE IN SECOND-FEET OF SAN GABRIEL-AZUSA CONDUIT 10-FT. WEIR below San Gabriel Dam FOR THE WATER YEAR ENDING SEPTEMBER 30, 1973

	October	November	December	January	February	March	April	May	June	July	August	September
1	0	10.6	26	30	50	62	74	0	0	0	0	0
2	0	18.1	25	30	50	62	74	0	0	0	0	0
3	0	18.1	25	30	50	62	74	0	0	0	0	0
4	0	18.1	25	30	50	62	74	0	0	0	0	0
5	0	18.1	25	30	50	66	74	0	0	0	0	0
6	0	18.1	28	30	50	71	74	0	0	0	0	0
7	0	18.1	30	30	50	71	74	0	0	0	0	0
8	0	18.1	30	30	50	71	74	0	0	0	0	0
9	0	18.0	29	30	49	71	75	0	0	0	0	0
10	0	17.9	30	30	48	70	76	0	0	0	0	0
11	0	17.9	30	30	15.2	70	76	0	0	0	0	0
12	0	17.9	30	30	0	70	76	0	0	0	0	0
13	0	17.9	30	30	0	70	76	0	0	0	0	0
14	0	17.9	30	30	0	71	76	0	0	0	0	0
15	0	17.9	30	30	0	71	76	0	0	0	0	0
16	0	17.9	30	30	0	71	76	0	0	0	0	0
17	0	18.1	30	9.9	0	70	29	0	0	0	0	0
18	0	18.1	30	0	0	70	0	0	0	0	0	0
19	0	18.1	30	20	0	69	0	0	0	0	0	0
20	0.8	29	30	30	22	69	0	0	0	0	0	0
21	1.4	35	30	30	49	70	0	0	0	0	0	0
22	2.2	35	30	30	56	69	0	0	0	0	0	0
23	3.4	35	30	30	60	69	0	0	0	0	0	0
24	1.8	35	30	30	60	69	0	0	0	0	0	0
25	1.3	35	30	30	60	70	0	0	0	0	0	0
26	1.3	35	30	30	59	69	0	0	0	0	0	0
27	1.3	30	30	30	60	72	0	0	0	0	0	0
28	1.4	25	30	30	60	74	0	0	0	0	0	0
29	1.4	26	30	30		74	0	0	0	0	0	0
30	1.4	25	30	44		74	0	0	0	0	0	0
31	1.4		30	50		74		0		0	0	
MEAN	0.62	22.7	29.1	29.2	35.6	69.5	40.9	0	0	0	0	0
ACRE-FEET	38	1350	1790	1790	1980	4270	2440	0	0	0	0	0

YEAR OR PERIOD MEAN 18.9
ACRE-FEET 13,660

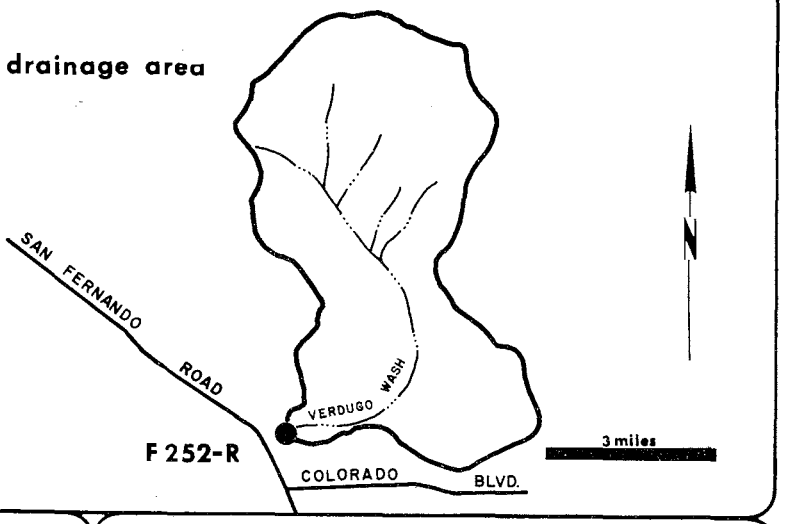
STATION DATA SUMMARY

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.	MON	DAY	CFS
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			
1964-65D	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			

B = RECORD BEGAN AT B 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. F 252 - R
VERDUGO WASH
at Estelle Avenue



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

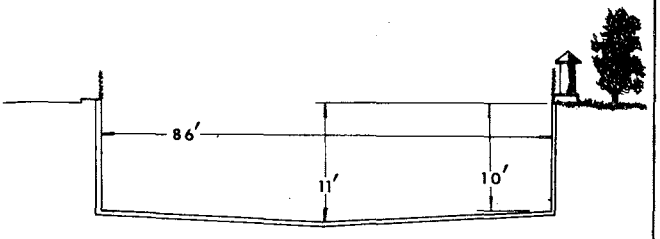
REGULATION – partially regulated by several debris basins

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 Avenue FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	October	November	December	January	February	March	April	May	June	July	August	September
1	1.8	2.0	6.2	2.0	2.3	3.9	1.8	2.5	2.5	2.3	2.3	2.0
2	1.8	1.8	5.0	2.3	1.8	2.8	1.8	2.5	2.3	2.3	2.5	2.3
3	1.8	2.0	5.0	2.5	36	3.9	1.8	2.3	2.3	2.3	2.5	2.3
4	2.0	2.0	157	2.3	16.1	12.6	1.8	2.0	2.3	2.3	2.5	2.0
5	2.0	2.0	2.3	2.3	33	6.2	1.8	2.0	2.0	2.3	2.8	2.0
6	1.8	2.0	27	2.3	106	42	1.8	2.3	2.3	2.3	2.3	2.0
7	1.8	2.0	36	2.3	217	11.8	2.0	2.3	2.3	2.0	2.3	2.0
8	1.5	2.0	22	3.9	11.8	71	1.8	2.5	2.5	2.0	2.3	2.0
9	1.5	2.0	2.8	36	6.2	14.0	1.8	2.8	2.8	2.3	2.3	2.0
10	1.5	10.6	5.0	5.7	216.	9.5	1.8	2.5	2.8	2.3	2.3	2.0
11	1.2	103	5.0	2.5	897	173	1.8	2.3	2.5	2.8	2.3	2.5
12	1.2	2.3	2.8	7.3	28	26	1.5	2.3	2.5	2.3	2.3	2.5
13	1.2	2.3	2.0	5.0	57	12.9	1.5	2.3	2.5	2.3	2.3	2.0
14	1.2	145	2.0	2.3	b 10.0	9.5	1.5	2.0	2.5	2.3	2.3	2.0
15	1.5	6.2	2.3	2.3	b 7.0	6.2	1.5	2.0	2.5	2.3	2.5	2.0
16	1.5	199	2.5	155	b 5.0	5.0	1.2	2.0	2.5	2.3	2.3	1.8
17	1.5	35	7.3	5.5	d 3.0	2.8	1.2	2.3	2.5	2.3	2.3	1.8
18	4.5	2.0	3.9	325	d 3.0	2.0	1.2	2.8	2.3	2.3	2.0	1.8
19	10.2	2.0	2.3	11.5	d 3.0	2.0	1.2	2.8	2.3	2.5	2.0	1.8
20	2.0	2.0	2.3	2.0	d 3.0	271	1.0	2.8	2.3	2.5	2.0	2.0
21	1.8	2.5	2.3	1.8	d 3.0	48	1.2	2.8	2.3	2.5	2.3	2.0
22	1.8	2.5	2.3	1.5	d 3.0	6.2	1.2	2.8	2.3	2.5	2.5	2.0
23	1.8	2.8	2.3	1.8	d 3.0	3.9	1.5	2.8	2.0	2.5	2.3	2.0
24	1.8	2.8	2.0	1.8	d 3.0	1.5	1.8	2.8	2.0	2.5	2.3	2.0
25	1.5	3.9	2.3	2.0	d 3.0	2.3	2.0	3.9	2.0	2.3	2.3	2.0
26	1.0	6.2	2.3	2.3	3.9	2.8	2.3	2.8	2.0	2.3	2.3	2.0
27	1.8	2.8	2.3	2.3	192	2.5	2.3	2.5	2.0	2.3	2.3	2.0
28	1.8	3.9	2.0	2.0	68	1.8	2.5	2.5	2.0	2.3	2.0	2.0
29	1.8	5.0	2.0	1.8		1.8	2.3	2.5	2.3	2.3	2.3	2.0
30	2.0	5.0	2.0	19.1		2.0	2.3	2.5	2.3	2.3	2.0	2.0
31	2.0		2.0	2.5		1.8		2.5		2.3	2.0	
MEAN	2.02	18.8	10.5	20.0	69.3	24.6	1.71	2.51	2.32	2.34	2.29	2.03
ACRE-FEET	124	1120	644	1230	3850	1510	102	154	138	144	141	121

YEAR OR PERIOD MEAN 12.8
ACRE-FEET 9280

STATION DATA SUMMARY

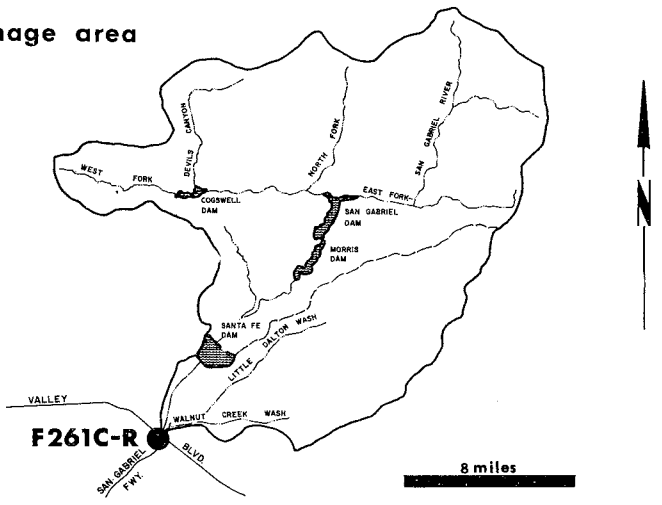
STA. NO. F252-R
VERDUGO WASH AT ESTELLE AVENUE

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	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	998	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	7690	11	29	5330
1971-72	476	1.2	14.8	4570	12	24	1960
1972-73	897	1.0	12.8	9280	1	18	4010

* = 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 Monte

REGULATION - partly regulated by Santa Fe, Big Dalton, 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

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 Boulevard FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	October	November	December	January	February	March	April	May	June	July	August	September
1	0	54	138	219	219	0.2	38	166	205	a 205	d 210	67
2	0	138	169	219	206	0	35	166	208	a 201	d 209	68
3	0	142	208	219	178	9.2	11.0	171	201	a 198	d 207	68
4	0	146	512	219	12.1	52	0.2	177	184	198	d 207	97
5	0	146	1.6	215	5.5	43	33	188	3.3	198	d 207	93
6	0	146	0	215	254	94	95	188	0	198	d 207	95
7	0	146	162	212	398	15.4	99	191	0	198	d 207	97
8	0	146	11.7	119	5.1	184	95	188	0	201	d 207	97
9	0	146	+	49	+	5.8	97	177	0	201	d 207	97
10	0	125	0	3.7	103	0	101	177	0	201	d 207	95
11	0	113	56	0	1210	136	101	201	0	201	d 207	101
12	0	0.6	208	70	84	23	93	191	0	205	d 207	101
13	0	0	223	208	220	9.8	93	191	0	208	d 207	101
14	0	257	226	208	6.7	28	93	198	0	212	d 207	106
15	0	0.8	215	212	3.8	18.9	93	201	67	205	d 207	108
16	0	266	208	886	+	4.2	93	201	212	201	d 207	106
17	0	93	212	22	0.6	0.5	93	201	212	201	d 208	103
18	5.8	0.1	212	543	58	+	89	198	205	208	d 208	106
19	163	0	212	36	78	0	89	194	198	205	d 208	106
20	2.3	24	215	0	79	271	141	191	201	208	d 208	103
21	0	134	220	0	73	106	168	201	205	208	d 208	97
22	0	146	230	0	19.4	17.2	171	208	201	208	d 208	91
23	0	144	223	0	68	0.3	177	201	201	208	d 208	93
24	0	141	226	0	6.8	15.0	171	205	205	208	d 208	87
25	0	136	223	0	0	23	163	208	201	212	d 208	87
26	0	138	226	0	0	22	160	212	201	215	d 208	138
27	0	138	226	0	138	22	163	215	201	212	d 208	174
28	0	138	230	0	215	44	166	215	a 205	212	d 208	194
29	0	138	226	0		35	163	219	a 205	212	d 208	184
30	0	138	223	14.1		37	163	219	a 205	215	186	188
31	0		226	153		37		212		212	70	
MEAN	5.5	116	183	130	130	40.4	108	196	131	206	202	108
ACRE-FEET	339	6900	11,240	8020	7220	2490	6440	12,000	7790	12,640	12,450	6440

YEAR OR PERIOD MEAN 130.
ACRE-FEET 93,880

STATION DATA SUMMARY

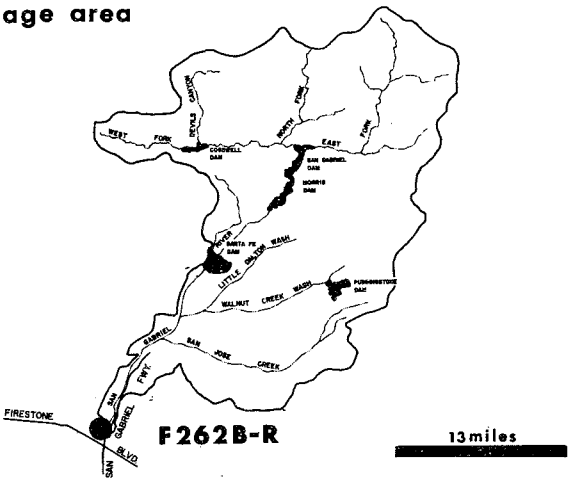
STA. NO. F261C-R
SAN GABRIEL RIVER BELOW VALLEY BOULEVARD

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	221	160300	1	23	9350
1943-44	2720	0.6	83.0	60290	2	22	5950
1944-45	650	0.1	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			
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	48000	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

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

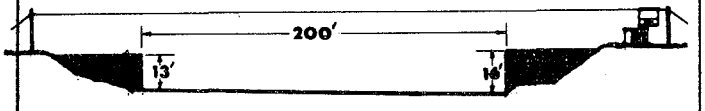
CHANNEL – sand bottom with rip-rap side slopes, trapezoidal section

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 Avenue FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	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	3.5	119	0	0	0	0	0	0	0
4	0	0	724	0.4	14	0	0	0	0	0	0	0
5	0	0	7.5	0	0	0	0	0	0	0	0	0
6	0	0	0	0	329	0	0	0	0	0	0	0
7	0	0	119	0	1320	0	0	0	0	0	0	0
8	0	0	0	0	28	173	0	0	0	0	0	0
9	0	0	0	0	0	0.3	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	62	0	0	2540	174	0	0	0	0	0	0
12	0	0	0	0	105	12.7	0	0	0	0	0	0
13	0	0	0	0	765	0.2	0	0	0	0	0	0
14	0	510	0	0	0	0	0	0	0	0	0	0
15	0	4.1	0	0	0	0	0	0	0	0	0	0
16	0	545	0	815	0	0	0	0	0	0	0	0
17	0	196	0	368	0	0	0	0	0	0	0	0
18	0	0	0	199	0	0	0	0	0	0	0	0
19	0	0	0	397	0	0	0	0	0	0	0	0
20	0	0	0	0	0	319	0	0	0	0	0	0
21	0	0	0	0	0	48	0	0	0	0	0	0
22	0	0	0	0	0	209	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	391	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
MEAN	0	43.9	27.4	58	198	30.2	0	0	0	0	0	0
ACRE-FEET	0	2610	1690	3540	11.0	1860	0	0	0	0	0	0

YEAR OR PERIOD MEAN 28.6
ACRE-FEET 11,000

STATION DATA SUMMARY

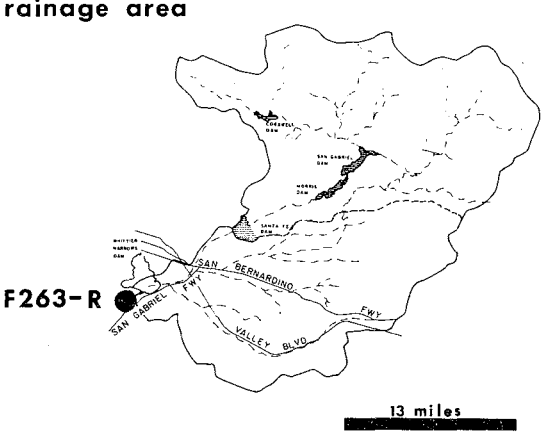
STA. NO. F262B-R
SAN GABRIEL RIVER ABOVE FLORENCE AVENUE

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	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	1600
1944-45	806	0	36.1	26110	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	688	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
1967-68B	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

B = RECORD BEGAN AT B LOCATION 08-06-68
* = RECORD INCOMPLETE
E = ESTIMATE

STATION NO. F 263C-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

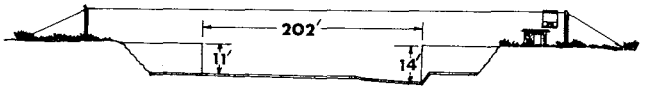
REGULATION - partly regulated by Santa Fe, Big Dalton, Puddingstone Diversion, Puddingstone, and Thompson Creek Dams. Flows may include imported water from several Metropolitan Water District outlets. Water is at times diverted to the Zone I ditch upstream of Whittier Narrows Dam.

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 Parkway FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	October	November	December	January	February	March	April	May	June	July	August	September
1	0	25	74	71	64	21	54	54	80	88	55 d	20
2	0	76	74	69	64	17.2	54	47	76	76	57 d	20
3	0	110	74	74	379	14.4	54	50	71	71	57 d	40
4	0	110	1180	86	66	48	36	49	64	78	58 d	70
5	0	110	32	76	18.2	46	25	54	18.0	74	58 d	64
6	3.3	112	5.4	73	757	88	82	55	26	74	55 d	57
7	18.7	112	667	73	1350	127	67	54	25	73	54 d	58
8	19.5	127	39	80	43	367	50	54	23	64	54 d	59
9	20	120	e 5.0	101	18.7	39	54	a 49	23	64	d 54	d 60
10	21	125	e 5.0	54	92	21	58	a 54	23	65	d 54	d 61
11	21	274	e 5.0	7.0	2540	320	58	a 58	23	64	d 54	d 62
12	22	e 2.0	61	7.0	291	92	58	64	24	67	d 57	d 63
13	22	e 1.0	67	74	848	23	57	62	23	65	d 60	d 68
14	22	573	69	78	22	26	50	64	23	65	d 63	d 67
15	23	33	69	78	18.7	26	58	64	20	64	d 63	d 66
16	25	950	71	1320	14.4	19.5	60	64	54	69	d 60	d 65
17	13.7	307	71	497	10.6	18.0	98	64	71	57	d 58	d 64
18	0	10.6	71	560	20	22	120	62	73	65	d 56	d 64
19	85	e 3.0	69	401	86	19.5	116	62	67	64	d 56	d 64
20	28	e 1.0	71	11.7	92	415	77	64	76	64	d 56	d 64
21	8.8	83	71	7.4	71	310	57	64	92	64	d 56	d 64
22	e 4.0	98	71	7.4	12.8	284	55	69	154	67	d 56	d 64
23	e 2.0	100	71	6.4	58	21	52	69	128	65	d 56	d 64
24	e 1.0	94	73	6.0	32	22	54	158	63	62	d 56	d 64
25	e 0.5	76	71	5.4	10.0	30	54	140	63	64	d 56	d 30
26	0	76	71	7.4	9.5	30	54	76	78	76	d 55	d 15
27	0	76	71	5.4	10.6	29	52	73	90	149	d 55	d 30
28	0	71	71	5.7	688	52	54	71	88	156	d 55	d 40
29	0	62	71	5.4		39	54	74	88	161	d 55	d 45
30	0	67	71	47		39	57	76	88	136	d 55	d 49
31	22		71	73		50		76		58	d 40	
MEAN	12.3	133	115	128	275	86.3	61.0	67.5	60.5	78.4	55.9	54.0
ACRE-FEET	759	7900	7070	7870	15,250	5310	3630	4150	3600	4820	3440	3220

YEAR OR PERIOD MEAN 92.6
ACRE-FEET 67,020

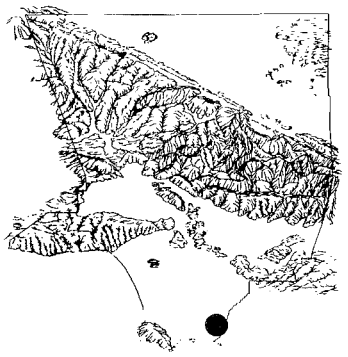
STATION DATA SUMMARY

STA. NO. F263C-R
SAN GABRIEL RIVER BELOW SAN GABRIEL RIVER PARKWAY

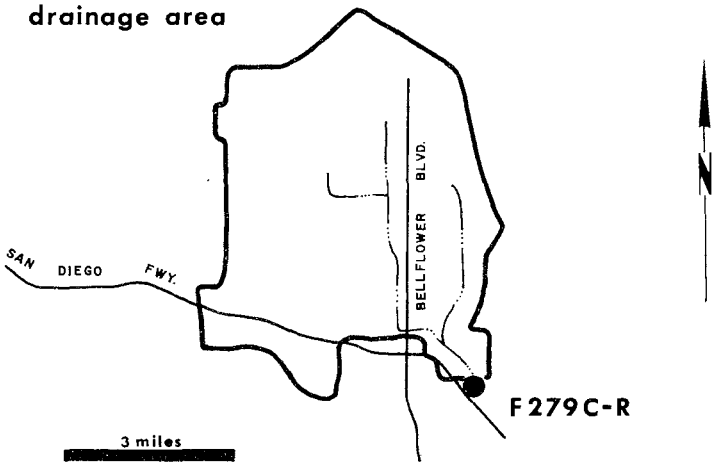
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS
1928-29	93	0	3.9	2850	3	10	397
1929-30	152	0	4.8	3490	1	11	726
1930-31	106	0	3.4	2490	2	4	404
1931-32	1620	0	18.0	13060	2	9	3830
1932-33	286	0	4.2	3040	1	29	1450
1933-34	5580	0	23.4	16950	1	1	22000
1934-35	746	0	16.8	12190	10	17	5400
1935-36	355	0	6.3	4590	2	12	3400
1936-37	2440	0	47.3	34240*	2	14	6970
1937-38	11400	0	131	94810	3	2	22700E
1938-39	672	0	34.1	24620	9	25	2110
1939-40	544	0	27.8	20180	2	1	2110
1940-41	2700	0	139	100900	3	4	5830
1941-42	149	0	39.5	28630	12	10	412
1942-43	10500	0	289	209600	1	23	14810
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	18	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	8810
1962-63	1080	0	58.6	42430	3	17	4320
1963-64	881	0	63.0	45700	1	22	3380
1964-65	1410	0	107	77270	4	9	5590
1965-66	916	0	76.4	55320	2	6	2670
1966-67	2270	0.3	86.7	62800	1	23	5680
1967-68C	222	3.2	36.2	26240	11	19	330
1968-69	10210	15	379	274300	1	26	11740
1969-70	1880	13	109	79110	3	4	5530
1970-71	2170	2.6	75.4	54590	12	21	4610
1971-72	1900	0	45.1	32740	12	24	6970
1972-73	2540	0	92.6	67020	2	11	5620

B = RECORD BEGAN AT B LOCATION 03-06-52
C = RECORD BEGAN AT C LOCATION 08-09-68
* = RECORD INCOMPLETE
E = ESTIMATE

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, Lang Beach

REGULATION – none

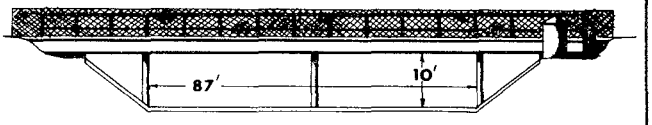
CHANNEL – concrete, trapezoidal in section

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 F 279C-R

DAILY DISCHARGE IN SECOND-FEET OF LOS CERRITOS CHANNEL at Stearns Street FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	October	November	December	January	February	March	April	May	June	July	August	September
1	3.0	1.3	1.0	0.6	0.8	1.0	0.4	1.2	a 1.3	1.5	1.9	1.5
2	2.6	1.7	1.3	0.8	0.8	0.4	0.2	1.2	a 1.3	1.7	1.9	1.5
3	2.6	1.5	1.3	0.8	86	0.6	0.6	1.3	a 1.3	1.7	1.7	1.3
4	1.5	1.7	156	1.3	30	1.5	0.6	1.5	a 1.3	1.7	1.5	1.5
5	1.0	1.7	1.5	0.8	12.3	0.4	0.6	1.3	a 1.3	1.7	1.7	1.3
6	1.3	1.7	1.7	0.8	154	35	1.0	1.3	1.3	1.9	1.5	1.5
7	2.1	1.7	96	1.0	383	3.0	1.0	1.3	1.5	1.7	1.7	1.7
8	1.5	1.7	44	1.2	4.4	166	1.0	1.2	1.7	1.7	1.5	1.3
9	1.3	1.5	1.3	89	1.7	1.9	1.0	1.3	1.7	1.7	1.7	1.3
10	1.3	41	0.8	4.4	1.9	1.0	1.0	1.3	1.5	1.7	1.7	1.3
11	1.5	120	0.8	1.0	471	68	1.0	1.5	1.3	1.9	1.5	1.3
12	1.3	1.3	1.0	1.0	32	5.4	1.0	1.3	1.5	1.9	1.5	1.3
13	1.5	1.3	1.0	1.0	91	1.0	0.8	1.3	1.7	1.9	1.9	1.3
14	1.5	217	0.8	1.0	24	0.4	0.8	1.3	1.9	1.5	1.7	1.2
15	1.5	3.5	0.8	1.0	5.4	0.8	0.8	1.3	1.3	1.5	1.7	1.2
16	1.3	384	0.8	355	1.7	0.6	0.8	1.3	1.3	1.5	1.7	1.3
17	1.7	124	1.0	9.3	1.3	1.2	1.0	1.3	1.3	1.7	1.5	1.3
18	1.7	2.6	1.2	129	1.3	0.8	0.6	a 1.3	1.5	1.7	1.7	1.2
19	31	1.5	1.3	19.4	1.2	1.3	0.8	a 1.3	1.5	1.7	1.7	1.2
20	1.3	1.3	1.3	1.0	1.2	123	0.6	a 1.3	1.5	1.7	1.7	1.3
21	1.0	1.2	1.2	1.0	0.8	56	0.8	a 1.3	1.7	1.3	1.5	1.3
22	1.3	1.2	1.3	1.0	1.3	5.9	0.8	a 1.3	1.5	1.5	1.5	1.3
23	1.3	1.0	1.0	0.6	0.8	0.6	0.8	a 1.3	1.5	1.7	1.2	1.3
24	1.5	0.8	1.0	0.6	1.0	0.4	1.0	a 1.3	1.7	1.7	1.3	1.3
25	1.3	1.0	0.8	0.8	0.8	0.6	1.0	a 1.3	2.1	1.5	1.3	1.3
26	1.3	1.0	0.6	0.6	0.6	1.2	1.2	a 1.3	1.5	1.7	1.3	1.3
27	1.5	1.2	1.0	0.6	16.2	1.2	1.2	a 1.3	1.5	1.7	1.3	1.3
28	1.3	1.2	0.6	0.6	55	1.2	1.2	a 1.3	1.5	1.7	1.3	1.9
29	1.3	1.2	0.8	0.8		0.4	1.2	a 1.3	1.7	1.7	1.3	1.9
30	1.0	1.0	0.6	91		0.6	1.2	a 1.3	1.7	1.7	1.3	1.5
31	1.0		1.0	1.2		0.6		a 1.3		1.9	1.5	
MEAN	2.46	30.8	10.5	23.2	49.3	15.5	0.87	1.30	1.51	1.68	1.55	1.37
ACRE-FEET	151	1830	644	1420	2740	956	51.6	80.1	90.0	103	95.6	81.7

YEAR OR PERIOD MEAN 11.4
ACRE-FEET 8240

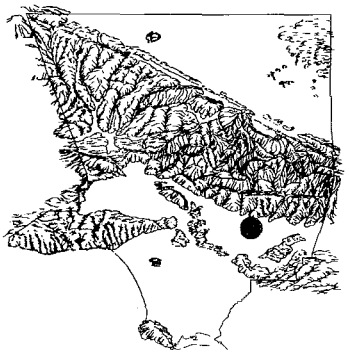
STATION DATA SUMMARY

STA. NO. F279C-R
LOS CERRITOS CHANNEL AT STEARNS STREET

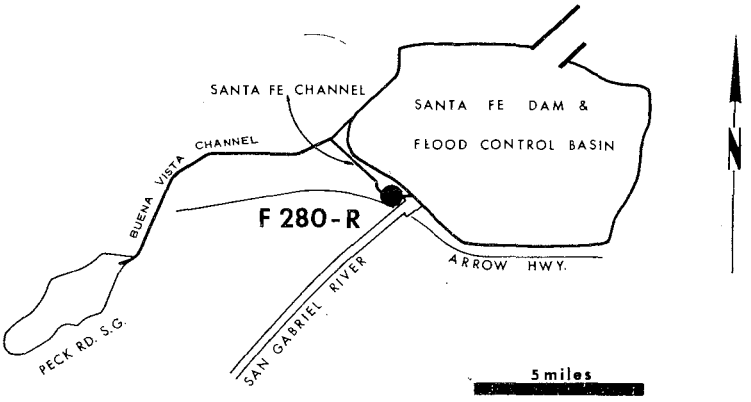
SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS
1949-50B	247	0	2.6	1900	2	6	894
1950-51	161	0	3.0	2190	1	29	934
1951-52	836	0	13.4	9730	1	18	2220
1952-53	298	0	3.9	2810	11	15	1700
1953-54	795	0	8.1	5850	2	13	2790
1954-55	362	0	6.2	4500	1	18	2120
1955-56C	1460	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	8	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

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



drainage area



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

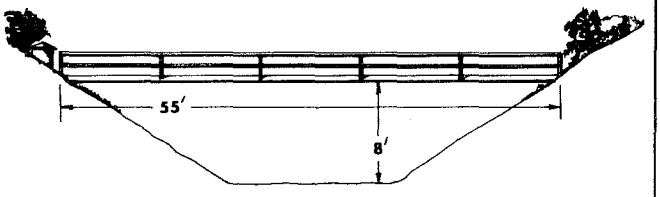
REGULATION – flow regulated by five gates of stilling basin outlet of Santa Fe Dam

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

cross-section



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO F280-R

DAILY DISCHARGE IN SECOND-FEET OF SANTA FE DIVERSION CHANNEL below Santa Fe Dam FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	October	November	December	January	February	March	April	May	June	July	August	September
1	0	0	0	0	0	71	26	0	0	0	0	0
2	0	0	0	0	0	70	27	0	0	0	0	0
3	0	0	0	0	0	62	27	0	0	0	0	0
4	0	0	0	0	0	59	26	0	0	0	0	0
5	0	0	0	0	0	117	14.8	0	0	0	0	0
6	0	0	0	0	0	181	0.1	0	0	0	0	0
7	0	0	0	0	0	181	0	0	0	0	0	0
8	0	0	0	0	1.4	121	0	0	0	0	0	0
9	0	0	0	0	3.3	88	0	0	0	0	0	0
10	0	0	0	0	3.3	170	0	0	0	0	0	0
11	0	0	0	0	3.6	170	0	0	0	0	0	0
12	0	0	0	0	3.3	119	0	0	0	0	0	0
13	0	0	0	0	3.4	46	0	0	0	0	0	0
14	0	0	0	0	3.6	47	0	0	0	0	0	0
15	0	0	0	0	90	48	0	0	0	0	0	0
16	0	0	0	0	177	98	0	0	0	0	0	0
17	0	0	0	0	178	146	0	0	0	0	0	0
18	0	0	0	0	180	148	0	0	0	0	0	0
19	0	0	0	0	186	151	0	0	0	0	0	0
20	0	0	0	0	187	100	0	0	0	0	0	0
21	0	0	0	0	222	0.1	0	0	0	0	0	0
22	0	0	0	0	222	20	0	0	0	0	0	0
23	0	0	0	0	145	48	0	0	0	0	0	0
24	0	0	0	0	65	47	0	0	0	0	0	0
25	0	0	0	0	65	48	0	0	0	0	0	0
26	0	0	0	0	138	48	0	0	0	0	0	0
27	0	0	0	0	136	34	0	0	0	0	0	0
28	0	0	0	0	70	26	0	0	0	0	0	0
29	0	0	0	0		26	0	0	0	0	0	0
30	0	0	0	0		26	0	0	0	0	0	0
31	0		0	0		26		0		0	0	
MEAN	0	0	0	0	74.4	82.0	4.03	0	0	0	0	0
ACRE-FEET	0	0	0	0	4,130	5,040	240	0	0	0	0	0

YEAR OR PERIOD MEAN 13.0
ACRE-FEET 9,410

STATION DATA SUMMARY

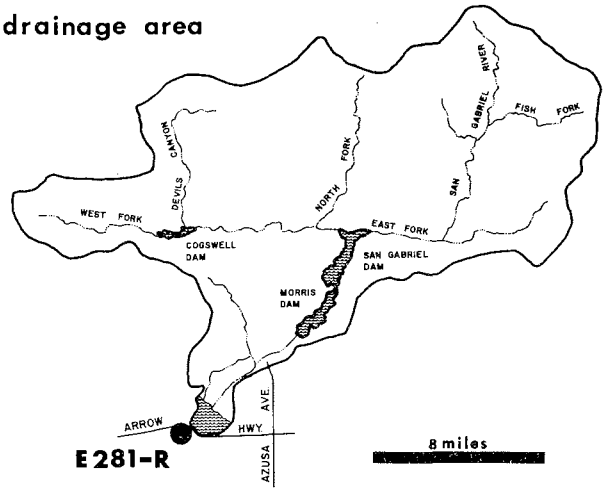
STA. NO. F280-R
SANTA FE CHANNEL BELOW SANTA FE DAM

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS
1943-44	253	0	20.9	15180	5	18	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	381	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

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

STATION NO. E 281 - R
SAN GABRIEL RIVER
below Santa Fe Dam

drainage area



RECORDER - continuous water stage

METHOD OF MEASUREMENTS – wading or from cable car

DRAINAGE AREA – 236.0 square miles (revised)

LOCATION – 1.7 miles north of Baldwin Park

REGULATION – regulated by Santa Fe Dam

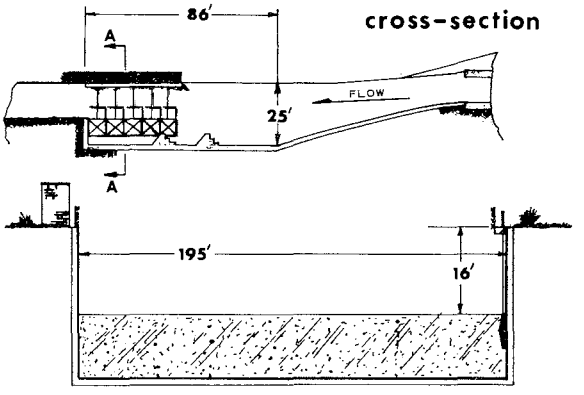
CHANNEL – Stilling basin, located in the outlet channel immediately below Santa Fe Dam

CONTROL – 195.0-foot-wide concrete overflow section to the San Gabriel River and five gated openings to the Rio Hando diversion channel

LENGTH OF RECORD – February 9, 1943, to date

REMARKS - Station operated by USGS. Outflow from Santa Fe Dam may be diverted through Santa Fe Diversion Channel. Refer to Station 280.

cross-section



Section A-A

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO E281-R

DAILY DISCHARGE IN SECOND-FEET OF SAN GABRIEL RIVER below Santa Fe Dam FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	October	November	December	January	February	March	April	May	June	July	August	September
1	0	0	0	0	0	138	310	0	0	0	0	0
2	0	0	0	0	0	213	304	0	0	0	0	0
3	0	0	0	0	0	280	274	0	0	0	0	0
4	0	0	0	0	0	274	222	0	0	0	0	0
5	0	0	0	0	0	151	53	0	0	0	0	0
6	0	0	0	0	0	0	16	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	53	63	0	0	0	0	0	0
9	0	0	0	0	79	204	0	0	0	0	0	0
10	0	0	0	0	0	227	0	0	0	0	0	0
11	0	0	0	0	0	222	0	0	0	0	0	0
12	0	0	0	0	43	253	0	0	0	0	0	0
13	0	0	0	0	98	298	0	0	0	0	0	0
14	0	0	0	0	88	292	0	0	0	0	0	0
15	0	0	0	0	105	292	0	0	0	0	0	0
16	0	0	0	0	180	286	5.6	0	0	0	0	0
17	0	+	0	0	274	292	17	0	0	0	0	0
18	0	0	0	0	269	292	18	0	0	0	0	0
19	0	0	0	0	269	274	17	0	0	0	0	0
20	0	0	0	+	263	167	16	0	0	0	0	0
21	0	0	0	0.1	232	185	13	0	0	0	0	0
22	0	0	0	+	232	253	3.9	0	0	0	0	0
23	0	0	0	0	204	298	0	0	0	0	0	0
24	0	0	0	0	101	298	0	0	0	0	0	0
25	0	0	0	0	101	298	0	0	0	0	0	0
26	0	0	0	0	208	292	0	0	0	0	0	0
27	0	0	0	0	180	304	0	0	0	0	0	0
28	0	0	0	0	134	310	0	0	0	0	0	0
29	0	0	0	0		304	0	0	0	0	0	0
30	0	0	0	0		310	0	0	0	0	0	0
31	0		0	0		310		0		0	0	
MEAN	0	+	0	+	111	238	42.3	0	0	0	0	0
ACRE-FEET	0	+	0	.2	6,170	14,640	2,520	0	0	0	0	0

YEAR OR PERIOD MEAN 32.2
ACRE-FEET 23,330

STATION DATA SUMMARY
SAN GABRIEL RIVER BELOW SANTA FE DAM

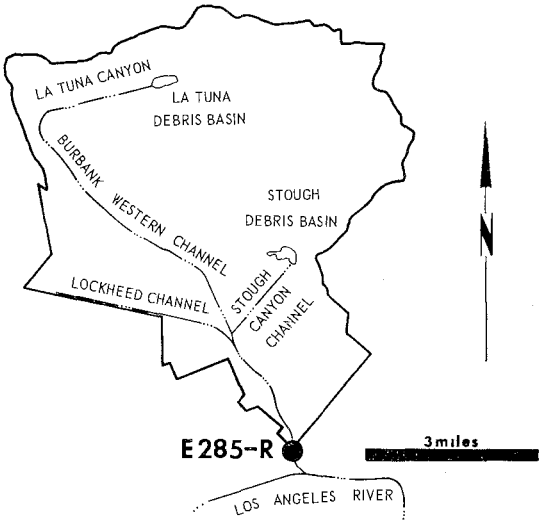
STA. NO. E281-R

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS
1942-43	6700	0	242	175100	1	23	8000
1943-44	2550	0	133	96890	2	22	3480
1944-45	783	0	14.0	10140	2	2	960
1945-46	1140	0	45.0	32560	12	23	1600
1946-47	2550	0	53.3	38600	12	31	2580
1947-48	809	0	11.2	8120	6	4	822
1948-49	0	0	0	0			
1949-50	0	0	0	0			
1950-51	0	0	0	0			
1951-52	838	0	45.2	32800	1	17	861
1952-53	488	0	23.5	16990	10	30	598
1953-54	0	0	0	0			
1954-55	0	0	0	0			
1955-56	0	0	0	0			
1956-57	0	0	0	0			
1957-58	944	0	126	91530	4	5	1210
1958-59	342	0	12.4	9000	2	24	606
1959-60	3.3	0	0.2	15	2	2	6.9
1960-61	0	0	0	0			
1961-62	437	0	46.2	33450	2	13	728
1962-63	0	0	0	0			
1963-64	24	0.1	1.0	754			
1964-65	0	0	0	0			
1965-66	6000	0	133	96200	11	23	11000
1966-67	597	0	62.1	44930	3	23	614
1967-68	2.8	0	+	5.5	11	29	30
1968-69	26000	0	540	391200	1	26	30900
1969-70	263	0	13.3	9600	3	4	458
1970-71	116	0	6.5	7170	12	17	116
1971-72	12	0	0.2	182	12	12	25
1972-73	310	0	32.2	23330	3	22	340

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

STATION NO. E 285 - R
BURBANK-WESTERN ST. DR.
at Riverside Drive

drainage area



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

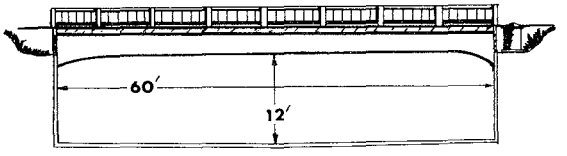
CHANNEL – concrete, rectangular section

CONTROL – channel forms control

LENGTH OF RECORD – October 1, 1949 to date

REMARKS – operated in cooperation with the USCE

cross-section



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, 1973

	October	November	December	January	February	March	April	May	June	July	August	September
1	7.9	b 7.9	7.9	11.9	9.1	b 7.0	6.7	9.1	9.1	10.6	5.6	9.1
2	9.1	b 7.9	7.9	11.9	7.9	b 5.0	6.7	6.7	9.1	9.1	5.6	9.1
3	9.1	b 7.9	7.9	11.9	89	b 5.0	5.6	5.6	10.6	9.1	5.6	9.1
4	9.1	b 7.9	148	9.1	10.6	b 15.0	5.6	5.6	10.6	7.9	5.6	10.6
5	10.6	b 7.9	7.9	10.6	82	b 10.0	6.7	5.0	10.6	7.9	5.6	11.9
6	9.1	b 7.9	25	11.9	73	b 50	5.6	5.0	7.9	6.7	5.6	11.9
7	9.1	9.1	23	10.6	119	b 15.0	5.6	6.7	7.9	5.6	5.6	13.1
8	9.1	11.9	17.7	7.9	10.6	b 80	5.0	6.7	7.9	5.6	6.7	13.1
9	9.1	11.9	4.5	27	11.9	6.7	5.0	5.6	7.9	5.6	6.7	11.9
10	9.1	13.1	4.5	9.1	221	5.6	4.5	5.0	7.9	5.6	6.7	11.9
11	9.1	121	4.5	7.9	478	80	5.0	5.0	7.9	5.6	5.6	9.1
12	10.6	14.6	4.5	7.9	116	9.1	5.0	5.0	7.9	5.6	5.6	6.7
13	9.1	14.6	4.5	7.9	29	6.7	6.7	5.0	9.1	6.7	6.7	5.6
14	6.7	120	4.5	7.9	18.5	7.9	7.9	5.0	9.1	7.9	5.6	6.7
15	5.6	11.9	4.5	7.9	11.9	7.9	7.9	5.0	6.7	7.9	5.6	6.7
16	6.7	b 200	4.5	161	10.6	7.9	9.1	4.5	7.9	9.1	6.7	5.6
17	6.7	b 40	5.0	7.9	7.9	7.9	9.1	4.5	9.1	9.1	6.7	6.7
18	6.7	7.9	6.7	295	7.9	6.7	11.9	5.0	9.1	7.9	6.7	7.9
19	10.6	7.9	6.7	7.9	7.9	6.7	9.1	5.0	9.1	9.1	7.9	7.9
20	10.6	7.9	7.9	9.1	7.9	182	9.1	4.5	9.1	7.9	10.6	9.1
21	7.9	7.9	10.6	9.1	7.9	41	11.9	5.0	9.1	9.1	10.6	9.1
22	10.6	6.7	11.9	9.1	7.9	5.6	10.6	4.5	10.6	9.1	10.6	11.9
23	11.9	6.7	10.6	9.1	7.9	6.7	11.9	4.5	9.1	6.7	10.6	13.1
24	11.9	6.7	9.1	9.1	7.9	6.7	11.9	4.5	9.1	6.7	11.9	14.6
25	9.1	7.9	4.5	9.1	7.9	6.7	11.9	4.5	7.9	6.7	11.9	15.7
26	b 7.9	6.7	7.9	9.1	9.1	6.7	9.1	5.0	5.6	6.7	11.9	14.6
27	b 7.9	7.9	11.9	7.9	147	6.7	10.6	4.5	6.7	7.9	13.1	15.7
28	b 7.9	7.9	10.6	7.9	b 90	6.7	10.6	5.0	6.7	7.9	10.6	15.7
29	b 7.9	7.9	10.6	9.1		6.7	10.6	5.6	11.9	7.9	9.1	14.6
30	b 7.9	7.9	9.1	17.6		6.7	11.9	6.7	11.9	9.1	10.6	13.1
31	b 7.9		11.9	9.1		6.7		7.9		9.1	10.6	
MEAN	8.79	23.8	13.4	24.1	57.7	20.3	8.29	5.39	8.77	7.66	8.02	10.7
ACRE-FEET	541	1,420	826	1,480	3,200	1,250	493	332	522	471	493	638

YEAR OR PERIOD MEAN 16.1
ACRE-FEET 11,670

STATION DATA SUMMARY

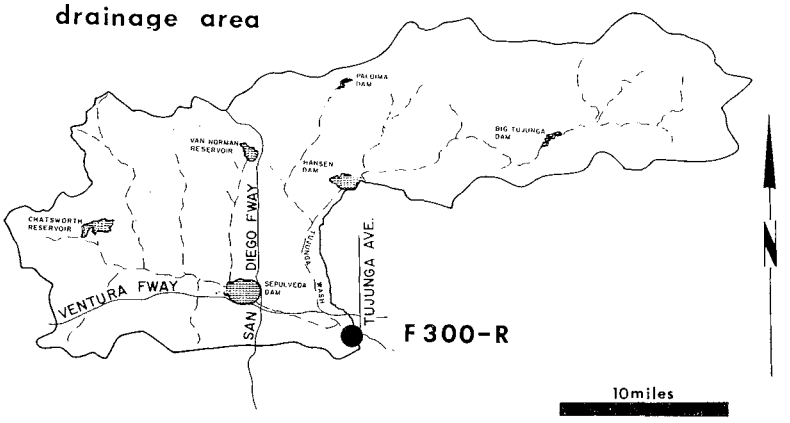
STA. NO. E285-R
BURBANK WESTERN STORM DRAIN AT RIVERSIDE DRIVE

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	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.D.
1956-57	192	1.6	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

N.D. = NOT DETERMINED

STATION NO. F 300 - R
LOS ANGELES RIVER
at Tujunga Avenue

drainage area



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

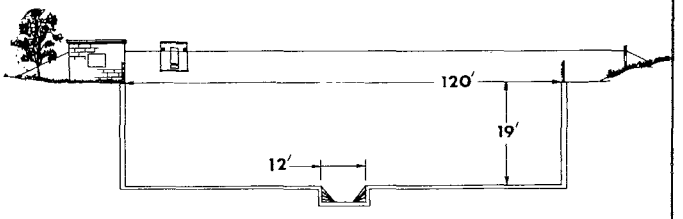
CHANNEL – concrete, rectangular section, 120 feet wide by 19 feet deep

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

cross-section



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO F300-R

DAILY DISCHARGE IN SECOND-FEET OF LOS ANGELES RIVER at Tujunga Avenue FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	October	November	December	January	February	March	April	May	June	July	August	September
1	9.7	10.2	8.5	9.3	7.6	39	15.4	15.7	13.4	12.7	13.4	12.7
2	9.5	10.2	8.4	10.2	7.6	34	14.9	16.9	14.2	12.7	11.8	13.0
3	8.9	9.7	8.7	11.3	829	25	15.7	15.2	13.2	13.2	11.8	14.4
4	10.9	19.2	879	11.1	572	20	14.7	14.7	12.7	13.2	12.7	14.4
5	9.5	21	19.2	10.6	270	20	14.4	15.4	15.2	13.2	11.1	13.4
6	9.5	10.0	76	11.1	1680	212	17.7	13.4	14.7	13.7	11.8	13.4
7	9.3	10.0	267	12.5	1330	60	18.5	13.2	25	12.0	11.1	12.5
8	8.2	10.4	97	13.0	46	885	17.5	14.9	14.4	12.0	11.3	11.3
9	6.6	10.0	12.0	297	22	47	18.0	15.2	13.0	13.7	12.0	10.6
10	8.9	13.8	7.2	73	1820	23	21	14.9	12.7	14.7	12.2	11.6
11	8.4	454	5.9	10.9	6470	486	17.5	13.4	12.5	13.0	11.3	11.8
12	8.4	10.6	10.2	9.3	1410	192	17.5	14.9	13.0	12.0	10.6	11.1
13	6.8	7.8	11.3	9.5	1400	43	17.2	14.9	12.2	12.0	12.0	11.8
14	7.4	1370	10.4	8.7	250	68	16.4	12.7	11.3	11.3	10.4	12.2
15	16.7	42	12.0	8.4	100	36	16.7	11.8	11.8	11.3	10.2	15.2
16	7.2	840	10.0	2530	80	33	16.9	13.2	12.0	11.3	10.4	14.2
17	9.7	220	11.1	101	70	32	17.7	12.5	12.7	13.0	10.4	11.8
18	10.0	14.9	12.0	3020	45	32	16.4	12.5	13.2	12.7	10.2	13.4
19	263	12.5	12.0	250	40	36	16.7	12.7	14.2	12.2	9.5	13.2
20	17.7	11.1	12.0	21	21	1260	15.2	13.9	14.9	12.0	11.3	11.1
21	8.9	10.0	11.8	15.4	24	293	14.7	13.9	14.9	11.1	11.8	11.6
22	9.7	7.4	12.0	10.9	25	83	13.9	12.2	16.2	10.6	11.3	11.1
23	9.5	5.5	11.3	10.4	30	29	13.9	14.2	15.7	11.1	10.0	12.2
24	9.5	9.1	10.9	9.5	41	41	15.9	13.9	13.7	11.6	10.4	10.6
25	9.3	7.4	8.9	9.7	34	43	16.4	14.7	14.4	11.8	10.6	10.6
26	11.3	7.8	9.5	8.7	26	37	17.5	11.8	16.4	13.7	10.4	9.1
27	12.2	9.5	10.9	8.2	1010	27	16.7	11.8	14.7	12.2	10.2	8.4
28	12.2	8.2	12.5	8.4	536	24	15.4	13.9	14.4	11.1	12.2	50
29	10.6	10.1	10.2	9.1		17.2	14.4	13.9	15.2	11.1	11.3	61
30	8.0	6.6	10.6	41		17.2	15.2	14.7	15.2	11.6	11.3	13.4
31	9.1		10.2	8.4		17.5		13.2		12.7	12.5	
MEAN	18.0	106	51.9	212	650	136	16.3	13.9	14.2	12.3	11.2	15.0
ACRE-FEET	1100	6330	3190	13,030	36,090	8350	972	853	847	755	689	895

YEAR OR PERIOD MEAN 101
ACRE-FEET 73,100

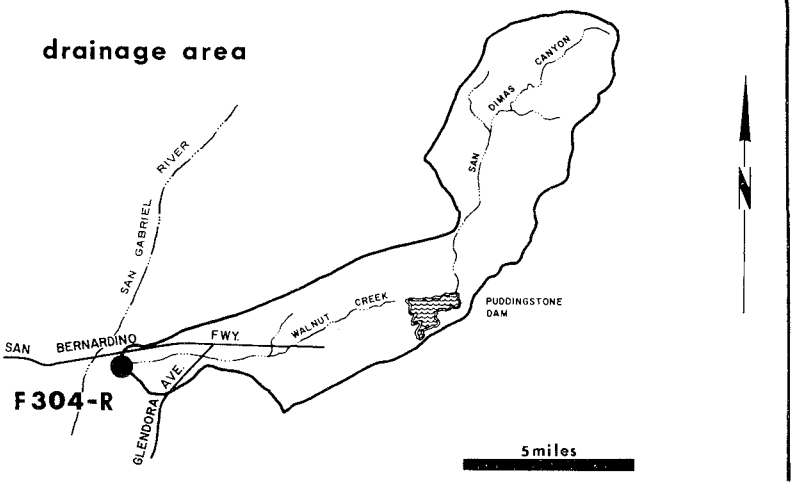
STATION DATA SUMMARY

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	3.8	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	40080	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

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

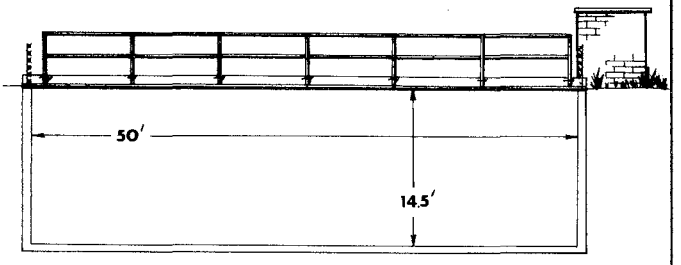
CHANNEL – concrete, rectangular in section

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 F304-R

DAILY DISCHARGE IN SECOND-FEET OF WALNUT CREEK above Puente Avenue FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	October	November	December	January	February	March	April	May	June	July	August	September
1	+	b 0.1	0.01	0.01	0.2	b 2.0	1.6	0.9	2.1	1.6	0.6	0.9
2	0	b 0.1	0.01	0.02	0.2	b 1.0	2.1	0.6	1.2	0.6	0.6	1.2
3	0	b 0.1	0	0.02	72	b 0.5	1.6	1.6	1.2	1.2	1.2	0.9
4	0	b 0.1	235	2.8	2.7	b 0.3	0.9	1.2	1.6	0.6	2.7	0.4
5	0	b 0.1	0.2	0.03	5.0	b 0.1	0.9	1.6	1.2	0.6	2.7	1.6
6	0	b 0.1	2.1	0.02	130	48	0.9	2.1	1.2	1.2	1.2	0.6
7	0	b 0.1	80	0.01	202	7.6	1.2	1.2	2.1	2.7	1.6	0.4
8	0	b 0.1	0.9	0	4.0	95	1.2	1.6	3.3	1.2	1.2	0.4
9	0	b 0.1	0.1	18.6	2.1	2.1	0.9	1.6	2.7	1.2	1.2	0.4
10	0	b 0.1	0.1	0.2	42	1.6	1.2	1.6	3.3	2.1	1.6	0.6
11	0	59	0.04	0.03	591	77	0.9	2.7	2.1	2.7	2.7	1.6
12	0	b 0.1	0.03	0.03	84	4.8	0.4	1.6	2.7	1.6	1.2	0.6
13	0	b 0.1	0.1	0.03	122	1.6	0.9	1.2	2.7	3.3	1.2	0.4
14	0	119	0.04	0.02	3.3	0.6	0.9	2.7	0.9	3.3	2.1	0.4
15	0	0.1	0.03	0.02	2.1	0.6	1.2	2.7	0.6	2.1	3.3	1.6
16	0	132	0.1	372	1.2	0.4	1.2	3.3	0.9	3.3	1.6	1.2
17	0	35	0.02	4.0	0.9	0.6	1.2	f 5.6	2.1	4.0	2.1	1.2
18	39	0.04	0.03	172	0.6	0.2	1.2	f 4.8	0.4	2.7	1.6	1.6
19	20	0.03	0.03	5.6	0.6	0.04	1.2	2.7	0.6	0.9	0.9	1.2
20	b 0.1	0.02	0.03	0.9	0.2	153	1.2	2.1	0.6	2.1	1.2	0.4
21	b 0.1	0.02	0.1	0.4	0.4	76	0.9	3.3	0.9	1.6	1.2	0.2
22	b 0.1	0.03	0.04	0.2	0.2	5.6	0.9	2.7	0.4	2.7	0.9	0.2
23	b 0.1	0.03	0.04	0.1	0.1	2.1	1.6	2.1	0.6	1.6	0.4	0.6
24	b 0.1	0.03	0.03	0.2	0.04	1.2	1.6	2.1	0.6	0.6	0.4	0.6
25	b 0.1	0.03	0.03	0.4	0.4	1.2	1.6	2.7	0.6	0.6	1.2	0.6
26	b 0.1	0.03	0.04	0.4	0.04	1.2	1.2	2.7	0.9	0.9	1.2	0.6
27	b 0.1	0.03	0.03	0.4	65	1.6	1.2	2.7	0.9	0.9	0.6	0.2
28	b 0.1	0.02	0.03	0.2	71	6.5	2.1	2.1	0.6	0.4	0.4	1.2
29	b 0.1	0.01	0.02	0.4		1.6	0.9	1.2	0.9	1.2	0.4	0.9
30	b 0.1	0.01	0.03	15.0		1.6	0.9	1.6	1.2	1.2	1.2	0.6
31	b 0.1		0.02	0.4		1.6		2.1		0.6	0.9	
MEAN	1.94	11.6	10.3	19.2	50.1	16.0	1.19	2.22	1.37	1.65	1.33	0.78
ACRE-FEET	119	687	633	1,200	2,780	986	71	136	82	102	82	46

YEAR OR PERIOD MEAN 9.54
ACRE-FEET 6,920

STATION DATA SUMMARY

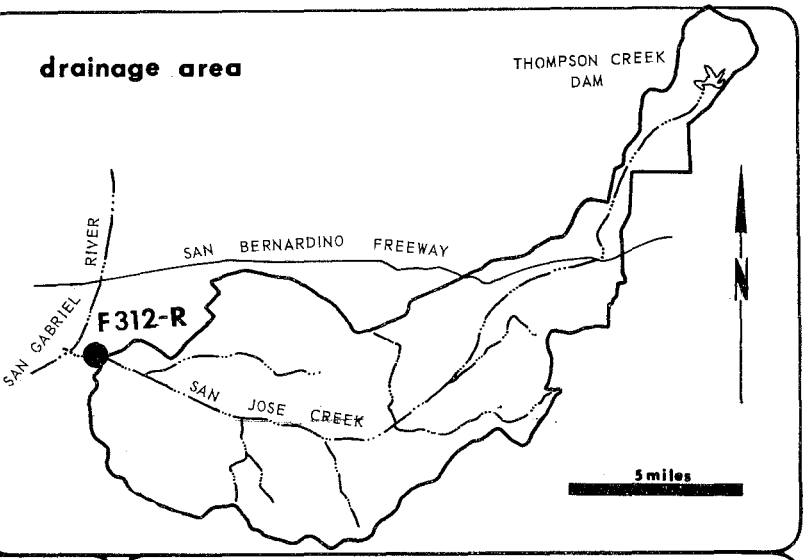
STA. NO. F304-R
WALNUT CREEK AT PUENTE AVENUE

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	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	68.5	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

* = 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

drainage area



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

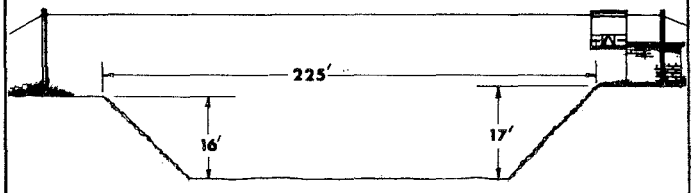
REGULATION – partially regulated by Thompson Creek Dam and Pomona Sewage Treatment Plant

CHANNEL – grouted rip-rap side slopes with natural bottom, trapezoidal section

CONTROL – rock stabilizer

LENGTH OF RECORD – September 13, 1955, to date

cross-section



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, 19 73

	October	November	December	January	February	March	April	May	June	July	August	September
1	b 9.0	b 9.0	b 9.0	b 9.0	b 9.0	b 20	b 10	b 9.0	b 8.0	b 12	b 12	b 12
2	b 9.0	b 9.0	b 9.0	b 9.0	b 9.0	b 15	b 10	b 9.0	b 8.0	b 12	b 12	b 12
3	b 9.0	b 9.0	b 9.0	b 9.0	202	b 10	b 9.0	b 9.0	b 8.0	b 12	b 12	b 12
4	b 9.0	b 9.0	455	b 20	26	b 10	b 9.0	b 9.0	b 8.0	b 12	b 12	b 12
5	b 9.0	b 9.0	9.0	b 10	19	b 10	b 9.0	b 9.0	b 8.0	b 12	b 12	b 12
6	b 9.0	b 9.0	9.0	b 9.0	405	87	b 10	b 10	b 9.0	b 11	b 11	b 11
7	b 9.0	b 9.0	269	b 8.0	810	29	b 10	b 10	b 9.0	b 11	b 11	b 11
8	b 9.0	87	25	b 7.0	b 15	238	b 10	b 10	b 9.0	b 11	b 11	b 11
9	b 9.0	b 9.0	b 9.0	108	b 10	b 25	b 11	b 10	b 9.0	b 11	b 11	b 11
10	b 9.0	b 9.0	b 9.0	33	77	b 15	b 11	b 10	b 9.0	b 11	b 11	b 11
11	b 9.0	309	b 9.0	b 10	1820	b 252	b 11	b 11	b 10	b 10	b 10	b 10
12	b 9.0	b 9.0	b 9.0	b 10	200	63	b 12	b 11	b 10	b 10	b 10	b 10
13	b 9.0	b 9.0	b 9.0	b 10	766	20	b 12	b 11	b 10	b 10	b 10	b 10
14	b 9.0	511	b 9.0	b 10	b 20	15	b 12	b 11	b 10	b 10	b 10	b 11
15	b 9.0	b 9.0	b 9.0	b 10	b 15	b 10	b 11	b 11	b 10	b 10	b 10	b 11
16	b 9.0	490	b 9.0	801	b 10	9.0	b 11	b 10	b 11	b 11	b 11	b 12
17	b 9.0	248	b 9.0	69	b 10	9.0	b 11	b 10	b 11	b 11	b 11	b 13
18	b 20	b 9.0	b 9.0	573	b 10	9.0	b 10	b 10	b 11	b 11	b 11	b 13
19	283	b 9.0	b 9.0	65	b 10	b 9.0	b 10	b 10	b 11	b 11	b 11	b 13
20	58	b 9.0	b 9.0	b 15	b 10	b 335	b 10	b 10	b 11	b 11	b 11	b 12
21	b 9.0	b 9.0	b 9.0	b 12	b 9.0	293	b 10	b 9.0	b 12	b 12	b 12	b 12
22	b 9.0	b 9.0	b 9.0	b 10	b 9.0	62	b 9.0	b 9.0	b 12	b 12	b 12	b 12
23	b 9.0	b 9.0	b 9.0	b 9.0	b 9.0	b 15	b 9.0	b 9.0	b 12	b 12	b 12	b 12
24	b 9.0	b 9.0	b 9.0	b 9.0	b 9.0	b 10	b 9.0	b 9.0	b 12	b 12	b 12	b 12
25	b 9.0	b 9.0	b 9.0	b 12	b 9.0	b 10	b 8.0	b 9.0	b 12	b 12	b 12	b 12
26	b 9.0	b 9.0	b 9.0	b 12	b 9.0	b 10	b 8.0	b 8.0	b 12	b 12	b 12	b 12
27	b 9.0	b 9.0	b 9.0	b 9.0	b 83	b 10	b 8.0	b 8.0	b 12	b 12	b 12	b 12
28	b 9.0	b 9.0	b 9.0	b 9.0	b 247	b 25	b 8.0	b 8.0	b 12	b 12	b 12	b 12
29	b 9.0	b 9.0	b 9.0	b 9.0		b 15	b 8.0	b 8.0	b 12	b 12	b 12	b 12
30	b 9.0	b 9.0	b 9.0	b 77		b 10	b 8.0	b 8.0	b 12	b 12	b 12	b 12
31	b 9.0		b 9.0	b 10		b 8.0		b 8.0		b 12	b 12	
MEAN	19.1	62.3	32.2	63.6	171	53.5	9.80	9.45	10	11.4	11.4	11.7
ACRE-FEET	1180	3710	1980	3910	9500	3290	583	581	615	698	698	694

YEAR OR PERIOD MEAN 37.9
ACRE-FEET 27,440

STATION DATA SUMMARY

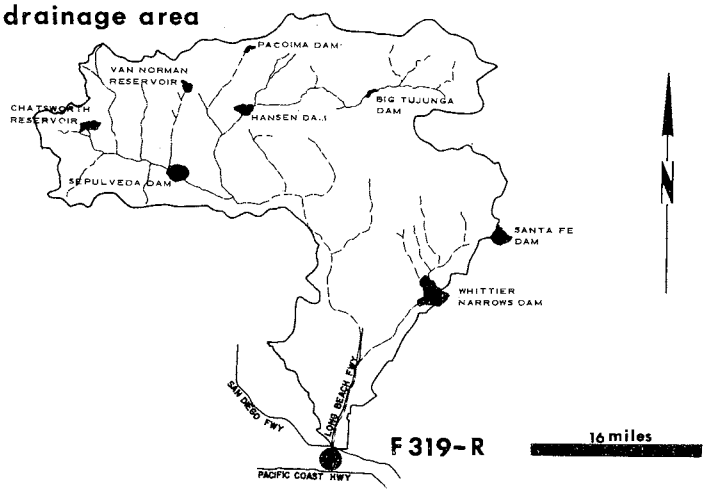
STA. NO. F312-R
SAN JOSE CHANNEL ABOVE WORKMAN MILL ROAD

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	1080	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	2180	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

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

STATION NO. F 319-R
LOS ANGELES RIVER
below Wardlow Road

drainage area



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

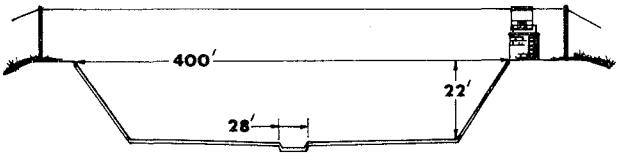
CHANNEL – trapezoidal, concrete, 302.0 feet wide at bottom with 2.25:1 side slopes. Low flow channel 28.0 feet wide by 1.0 foot deep in center of channel

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

cross-section



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, 19 70

	October	November	December	January	February	March	April	May	June	July	August	September
1	42	35	36	37	31	4,490	44	30	28	49	39	a 31
2	39	32	40	38	36	2,740	34	30	35	34	37	a 31
3	49	35	36	39	40	168	32	23	40	34	36	30
4	38	36	31	35	41	2,680	38	30	39	34	45	35
5	30	39	36	37	63	d 2,410	32	38	36	34	48	30
6	31	2,210	33	33	43	d 101	34	38	33	35	42	25
7	38	1,980	28	28	57	d 54	37	45	29	39	45	25
8	40	136	36	28	42	d 47	34	43	30	39	45	30
9	40	75	68	74	1,120	d 47	36	39	37	39	53	30
10	40	86	40	1,390	4,010	d 47	38	30	32	38	36	29
11	34	62	38	170	1,000	d 47	35	25	31	37	47	31
12	39	48	47	385	101	45	30	30	32	34	44	33
13	33	54	31	63	69	42	30	27	42	32	39	28
14	38	37	29	170	35	39	50	33	69	38	33	26
15	41	34	30	258	29	37	57	33	42	40	30	31
16	41	32	37	2,310	30	35	37	35	32	36	30	31
17	37	34	36	413	35	35	38	33	31	32	26	30
18	33	34	35	69	33	34	40	35	41	30	31	30
19	30	33	36	37	34	30	45	43	42	25	35	27
20	32	34	32	36	35	33	35	40	36	32	32	23
21	38	37	30	35	33	33	37	40	30	34	30	24
22	41	39	34	37	29	33	37	38	36	34	32	28
23	33	36	36	36	30	42	35	35	40	37	34	25
24	30	38	30	33	40	42	48	31	39	48	30	27
25	30	38	41	45	35	36	45	34	37	40	31	28
26	25	35	39	37	36	37	40	36	37	24	32	24
27	34	36	39	40	32	35	37	35	45	30	33	30
28	35	36	33	38	5,300	31	41	34	30	32	a 32	22
29	36	31	32	35		29	33	36	32	45	a 32	27
30	40	28	42	33		30	30	30	39	41	a 32	30
31	36		34	34		352		29		39	a 31	
MEAN	36.2	181	36.3	195	444	447	38.0	34.1	36.7	36.0	36.2	28.4
ACRE-FEET	2,270	10,800	2,230	12,000	24,630	27,490	2,260	2,100	2,170	2,210	2,220	1,690

YEAR OR PERIOD MEAN 128
ACRE-FEET 92,070

STATION DATA SUMMARY

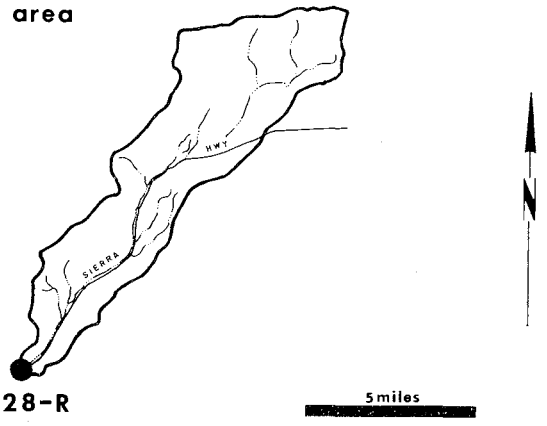
STA. NO. F319-R
LOS ANGELES RIVER BELOW WARDLOW ROAD

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	CFS
1955-56	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
1958-59	6340	7.2	68.2	49390	1	6	31000
1959-60	3420	3.7	67.6	49100	1	12	21700
1960-61	2860	1.3	44.2	32000	1	26	9450
1961-62	14800	0.6	245	177400	2	12	42200
1962-63	5480	1.2	75.6	54700	2	9	31400
1963-64	4150	5.3	64.8	47020	1	22	16000
1964-65	5150	4.1	106	76680	4	9	30100
1965-66	22500	3.0	342	247900	12	29	61500
1966-67	12400	9.9	237	171900	11	7	43700
1967-68	13600	18	173	125800	3	8	48900
1968-69	55000	16	1150	832000	1	25	102000
1969-70	5300	22	128	92070	2	28	5300
1970-71	20600	20	201A	145300A	11	29	65100
1971-72	8550	17	106	77560	12	24	28700
1972-73	16170	20	254	184050	2	11	50800

A = RECORDER FAILED,- FLOW COMPUTED BY ADDING Q'S OF STATIONS NOS. F34D-R, F45B-R, + 104.6% OF F37B-R

STATION NO. F 328-R
MINT CANYON CREEK
at Fitch Avenue

drainage area



RECORDER – continuous water stage

METHOD OF MEASUREMENTS – wading or from bridge

DRAINAGE AREA – 26.9 square miles

LOCATION – 8.5 miles northeast of Saugus on west end of Fitch Avenue bridge

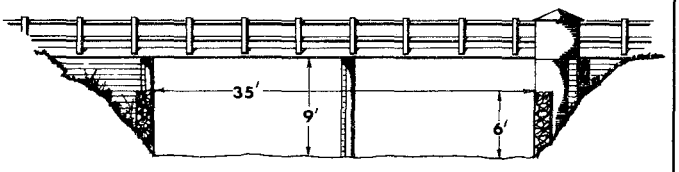
REGULATION – none

CHANNEL – natural, sand and gravel

CONTROL – concrete control at downstream end of bridge

LENGTH OF RECORD – October 26, 1956, to date

cross-section



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO F328-R

DAILY DISCHARGE IN SECOND-FEET OF MINT CANYON CREEK at Fitch Avenue FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	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
5	0	0	0	0	0.1	0	0	0	0	0	0	0
6	0	0	0	0	0.1	0.6	0	0	0	0	0	0
7	0	0	0	0	0.5	0	0	0	0	0	0	0
8	0	0	0	0	0	3.5	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	2.2	0	0	0	0	0	0	0
11	0	0	0	0	25	6.0	0	0	0	0	0	0
12	0	0	0	0	2.6	0	0	0	0	0	0	0
13	0	0	0	0	1.3	0	0	0	0	0	0	0
14	0	[a] 0.6	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	1.2	0	1.5	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	7.0	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	4.2	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	2.2	0	0	0	0	0	0	0
28	0	0	0	0	[b] 0.5	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
MEAN	0	0.06	+	.27	1.23	0.46	0	0	0	0	0	0
ACRE-FEET	0	3.6	+	17	68	28	0	0	0	0	0	0

YEAR OR PERIOD MEAN 0.16
ACRE-FEET 117.

STATION DATA SUMMARY

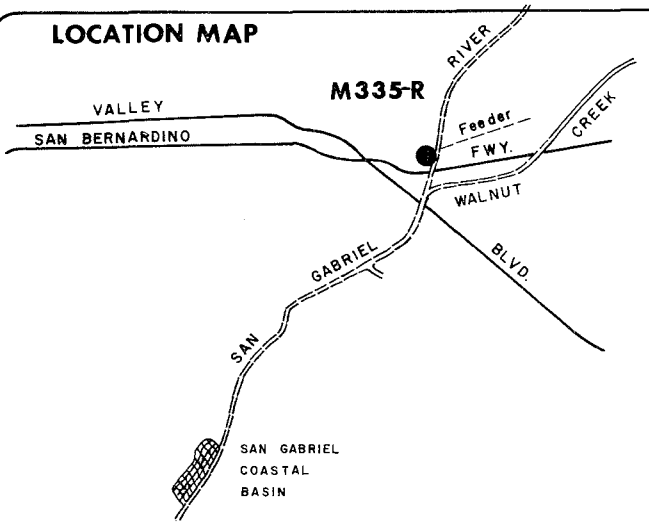
STA. NO. F328-R
MINT CANYON CREEK AT FITCH AVENUE

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	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	49	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	112	2	11	184

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

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 totolizer 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.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO M335-R

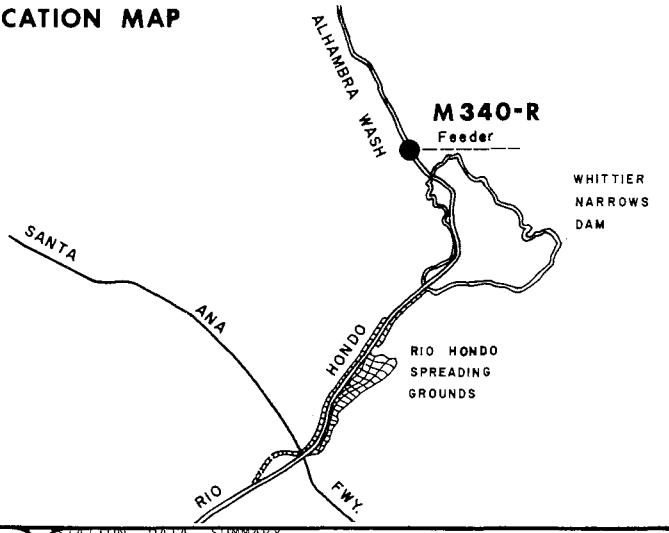
DAILY DISCHARGE IN SECOND-FEET OF SAN GABRIEL - MWD OUTLET below Ramona Boulevard FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	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	60
4	0	0	0	0	0	0	0	0	0	0	0	141
5	0	0	0	0	0	0	0	0	0	0	0	153
6	0	0	0	0	0	0	0	0	0	0	0	153
7	0	0	0	0	0	0	0	0	0	0	0	153
8	0	0	0	0	0	0	0	0	0	0	0	154
9	0	0	0	0	0	0	0	0	0	0	0	154
10	0	0	0	0	0	0	0	0	0	0	0	153
11	0	0	0	0	0	0	0	0	0	0	0	155
12	0	0	0	0	0	0	0	0	0	0	0	155
13	0	0	0	0	0	0	0	0	0	0	0	155
14	0	0	0	0	0	0	0	0	0	0	0	156
15	0	0	0	0	0	0	0	0	0	0	24	157
16	0	0	0	0	0	0	0	0	0	0	0	157
17	0	0	0	0	0	0	0	0	0	0	0	156
18	0	0	0	0	0	0	0	0	0	0	0	157
19	0	0	0	0	0	0	0	0	0	0	0	157
20	0	0	0	0	0	0	0	0	0	0	0	157
21	0	0	0	0	0	0	0	0	0	0	0	150
22	0	0	0	0	0	0	0	0	0	0	0	150
23	0	0	0	0	0	0	0	0	0	0	0	148
24	0	0	0	0	0	0	0	0	0	0	0	148
25	0	0	0	0	0	0	0	0	0	0	0	140
26	0	0	0	0	0	0	0	0	0	0	0	197
27	0	0	0	0	0	0	0	0	0	0	0	228
28	0	0	0	0	0	0	0	0	0	0	0	234
29	0	0	0	0		0	0	0	0	0	0	226
30	0	0	0	0		0	0	0	0	0	0	232
31	0		0	0		0		0		0	0	
MEAN	0	0	0	0	0	0	0	0	0	0	0.77	151
ACRE-FEET	0	0	0	0	0	0	0	0	0	0	48	9000

YEAR OR PERIOD MEAN 12.5
ACRE-FEET 9050

STATION NO. M340-R
ALHAMBRA WASH- MWD OUTLET ABOVE 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.

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	97.0	70170
1961-62	243	0	102	73810
1962-63	189	0	28.1	20320
1963-64	235	0	63.3	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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

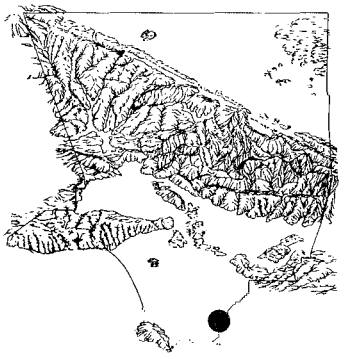
STATION NO M 340 – R

DAILY DISCHARGE IN SECOND-FEET OF ALHAMBRA WASH M.W.D. Outlet near Rush Street FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

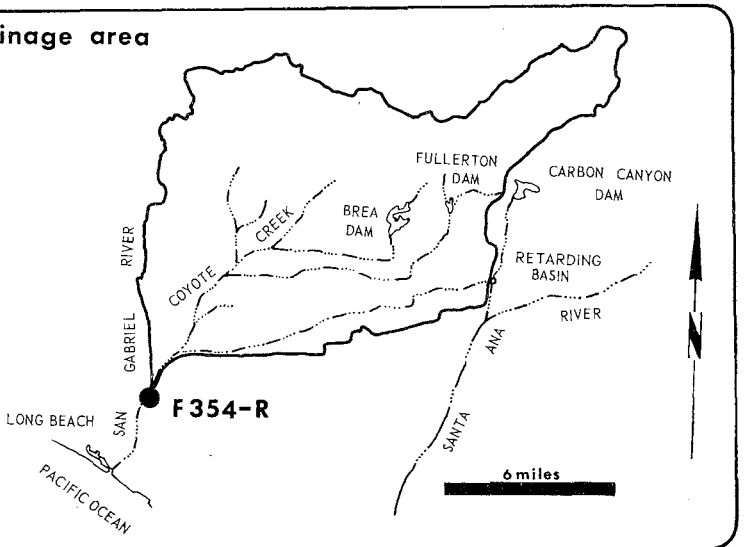
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	21	0	0	0
5	0	0	0	0	0	0	0	0	5.0	0	0	0
6	0	0	0	0	0	0	0	0	176	0	0	0
7	0	0	0	0	0	0	0	0	200	0	0	0
8	0	0	0	0	0	0	0	0	198	0	0	0
9	0	0	0	0	0	0	0	0	198	0	0	0
10	0	0	0	0	0	0	0	0	198	0	0	0
11	0	0	0	0	0	0	0	0	198	0	0	0
12	0	0	0	0	0	0	0	0	197	0	0	0
13	0	0	0	0	0	0	0	0	197	0	0	0
14	0	0	0	0	0	0	0	0	197	0	0	0
15	0	0	0	0	0	0	0	0	136	0	0	0
16	0	0	0	0	0	0	0	0	50	0	0	0
17	0	0	0	0	0	0	0	0	50	0	0	0
18	0	0	0	0	0	0	0	0	50	0	0	0
19	0	0	0	0	0	0	0	0	50	0	0	0
20	0	0	0	36	0	0	0	0	54	0	0	0
21	0	0	0	5.7	0	0	0	0	12	0	0	0
22	0	0	0	5.7	0	0	0	0	0	0	0	0
23	0	0	0	5.7	0	0	0	0	0	0	0	0
24	0	0	0	5.7	0	0	0	0	0	0	0	0
25	0	0	0	5.7	0	0	0	0	0	0	0	0
26	0	0	0	5.7	0	0	0	0	0	0	0	0
27	0	0	0	5.7	0	0	0	0	0	0	0	0
28	0	0	0	5.7	0	0	0	0	0	0	0	0
29	0	0	0	5.7	0	0	0	0	0	0	0	0
30	0	0	0	3.9		0	0	0	0	0	0	0
31	0		0	1.6		0		0		0	0	
MEAN	0	0	0	3.0	0	0	0	0	72.9	0	0	0
ACRE-FEET	0	0	0	184	0	0	0	0	4340	0	0	0

YEAR OR PERIOD MEAN 6.25
ACRE-FEET 4520

STATION NO. F 354 - R
COYOTE CREEK
below Spring Street



drainage area



RECORDER – continuous water stage

METHOD OF MEASUREMENTS – wading or from coble 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

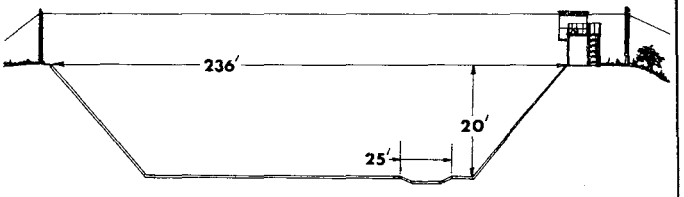
CHANNEL – concrete, trapezoidal in section

CONTROL – channel forms control

LENGTH OF RECORD – December 17, 1963, to date

REMARKS – previous gaging stations for record corelation:
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

cross-section



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO F354-R

DAILY DISCHARGE IN SECOND-FEET OF COYOTE CREEK below Spring Street FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	October	November	December	January	February	March	April	May	June	July	August	September
1	15.9	3.4	10.0	5.6	5.6	10.0	5.2	a 5.1	10.7	10.7	7.4	4.3
2	3.1	3.7	10.0	5.6	4.8	8.6	4.6	a 5.1	6.8	8.8	4.6	4.6
3	7.4	4.3	10.0	6.3	575	6.3	4.6	a 5.1	5.5	9.4	4.9	5.2
4	6.2	3.7	873	9.3	243	10.8	7.4	a 5.1	5.5	10.0	4.6	4.3
5	5.5	4.6	32	8.6	31	5.6	5.5	a 5.0	6.2	6.8	5.5	9.4
6	4.9	4.4	14.6	6.3	959	133	5.2	a 5.0	8.1	7.4	6.2	5.2
7	4.9	6.3	509	4.4	1330	99	5.2	a 5.0	5.5	8.1	10.0	5.5
8	6.2	35	180	7.0	44	589	6.2	a 5.0	5.5	10.0	6.8	6.8
9	5.5	3.7	11.6	395	15.8	25	6.8	a 5.0	4.6	9.4	6.8	8.1
10	4.9	6.7	7.8	130	37	17.2	4.6	a 5.0	4.3	10.0	7.4	6.8
11	4.6	658	7.0	7.8	2350	344	5.2	a 5.0	4.9	8.1	7.4	7.4
12	4.6	6.3	6.3	4.8	446	89	4.9	a 4.9	5.2	8.8	9.4	6.8
13	5.5	3.3	5.6	4.4	875	19.9	5.5	a 4.9	5.2	9.4	11.4	8.8
14	4.6	987	4.4	4.4	32	17.2	5.5	a 4.9	5.5	8.8	8.8	12.0
15	5.5	17	4.0	4.8	24	14.6	5.5	4.9	5.2	7.4	8.8	11.4
16	4.3	1410	4.4	1360	19.3	10.7	7.4	5.2	5.2	5.5	10.0	10.7
17	4.0	705	4.4	304	15.8	10.0	6.2	4.9	6.2	6.2	10.0	15.9
18	40	27	5.6	627	10.8	10.7	8.1	5.2	5.2	8.8	9.4	18.6
19	661	20	5.6	317	7.0	10.0	6.2	6.2	6.8	4.6	9.4	19.9
20	314	18.2	3.3	12.3	6.3	526	4.0	6.8	6.2	4.3	8.8	19.9
21	4.3	12.3	6.3	6.3	6.3	104	4.3	6.8	6.8	4.9	6.2	24
22	3.4	10.8	7.8	6.3	5.6	116	4.9	7.4	5.5	4.6	4.9	27
23	3.4	9.3	8.6	4.8	7.0	7.4	4.3	8.8	6.2	5.5	5.2	28
24	3.1	9.3	7.8	4.8	5.6	4.9	5.5	8.8	5.2	5.2	4.9	22
25	3.4	9.3	9.3	4.8	5.6	4.6	5.5	6.8	5.5	4.9	5.5	18.6
26	3.7	11.6	10.8	7.8	6.3	5.5	5.5	7.4	6.2	4.6	5.5	10.7
27	3.7	9.3	6.3	4.8	32	3.7	5.2	7.4	7.4	5.2	4.9	5.5
28	3.1	8.6	4.8	4.0	778	4.3	a 5.2	7.4	8.1	4.9	4.6	4.9
29	2.3	8.6	4.0	3.7		4.6	a 5.2	10.0	8.8	5.2	4.3	4.3
30	3.1	9.3	3.7	380		5.2	a 5.1	10.0	9.4	5.5	4.3	3.4
31	2.8		4.4	10.0		5.5		8.1		6.2	3.4	
MEAN	37.1	134	57.5	118	281	71.7	5.48	6.20	6.25	7.07	6.82	11.3
ACRE-FEET	2280	7990	3540	7260	15630	4410	326	381	372	435	419	674

YEAR OR PERIOD MEAN 60.4
ACRE-FEET 43720

STATION DATA SUMMARY

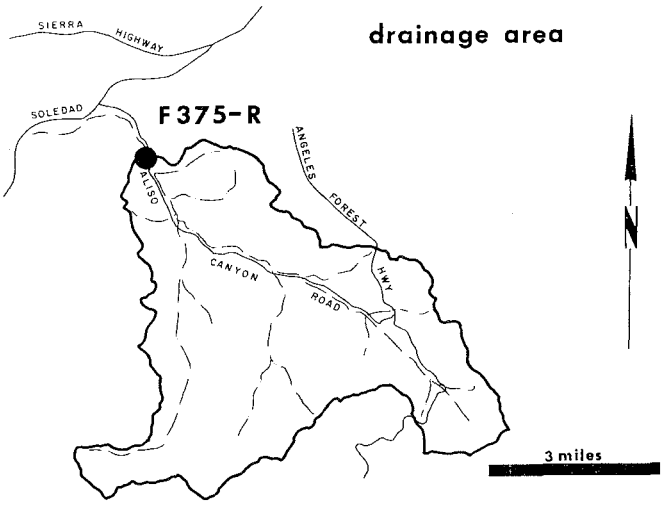
STA. NO. F354-R
COYOTE CREEK BELOW SPRING STREET

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	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	6970
1968-69	4420	3.1	88.8	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

\+ = 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

drainage area



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

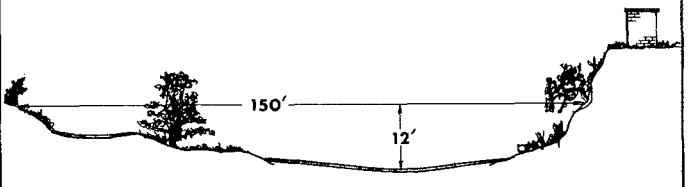
REGULATION - none

CHANNEL - natural, rock, sand and gravel

CONTROL - asphalt covered, concrete dip crossing

LENGTH OF RECORD - January 20, 1966, to date

cross-section



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO F375-R

DAILY DISCHARGE IN SECOND-FEET OF ALISO CANYON CREEK at Blum Ranch FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL		MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	0	0	0	0	5.0	2.8		0.6	0	0	0	0
2	0	0	0	0	0	3.3	2.8		0.6	0	0	0	0
3	0	0	0	0	0	2.8	2.8		0.6	0	0	0	0
4	0	0	+	0	0	2.8	2.8		0.6	0	0	0	0
5	0	0	0	0	0	2.8	1.6		0.6	0	0	0	0
6	0	0	0	0	2.0	3.8	1.6		0.6	0	0	0	0
7	0	0	+	0	3.8	8.0	1.6		0.6	0	0	0	0
8	0	0	0	0	3.3	5.5	2.2		0.6	0	0	0	0
9	0	0	0	0	1.6	5.5	2.8		0.6	0	0	0	0
10	0	0	0	0	1.6	5.0	2.8	e	0.5	0	0	0	0
11	0	+	0	0	286	14	2.8	e	0.4	0	0	0	0
12	0	0	0	0	42	12	2.8	e	0.3	0	0	0	0
13	0	0	0	0	18	9.2	2.8	e	0.2	0	0	0	0
14	0	+	0	0	13	6.7	3.3	e	0.1	0	0	0	0
15	0	0	0	0	12	5.0	3.3	e	0.1	0	0	0	0
16	0	+	0	+	6.7	4.4	3.3	e	0.1	0	0	0	0
17	0	0	0	0	4.4	3.8	3.3	e	0.1	0	0	0	0
18	0	0	0	1.8	3.3	3.3	3.3	e	+	0	0	0	0
19	0	0	0	4.4	3.3	2.8	2.2	e	+	0	0	0	0
20	0	0	0	0.6	2.2	11	2.2	e	+	0	0	0	0
21	0	0	0	0	2.2	3.8	2.2	e	+	0	0	0	0
22	0	0	0	0	2.2	3.8	1.6	e	+	0	0	0	0
23	0	0	0	0	2.2	3.3	1.6	e	+	0	0	0	0
24	0	0	0	0	2.2	3.3	1.1	e	+	0	0	0	0
25	0	0	0	0	2.2	3.3	1.1	e	+	0	0	0	0
26	0	0	0	0	2.2	3.3	0.6	e	+	0	0	0	0
27	0	0	0	0	2.8	3.3	0.6	e	+	0	0	0	0
28	0	0	0	0	17	3.3	0.6		0	0	0	0	0
29	0	0	0	0		2.8	0.6		0	0	0	0	0
30	0	0	0	0		2.8	0.6		0	0	0	0	0
31	0		0	0		2.8			0		0	0	
MEAN	0	+	+	0.22	15.6	4.92	2.12		0.23	0	0	0	0
ACRE-FEET	0	+	+	13	865	302	126		14	0	0	0	0

YEAR OR PERIOD MEAN 1.83

ACRE-FEET 1320

STATION DATA SUMMARY

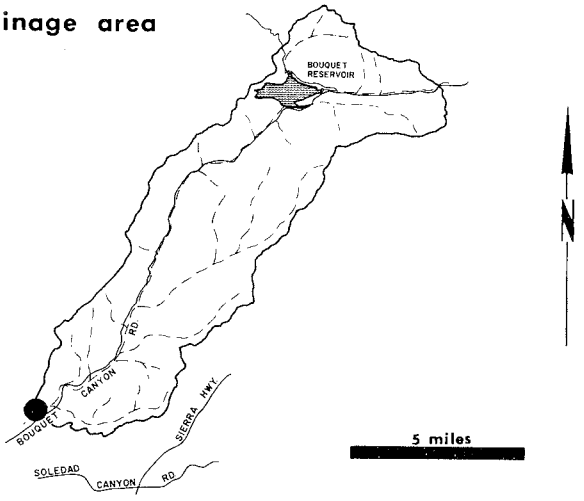
STA. NO. F375-R
ALISO CREEK AT BLUM RANCH

SEASON	MAX DAILY CFS	MIN DAILY CFS	MEAN DAILY CFS	TOTAL RUNOFF A.F.	PEAK FLOW MON	DAY	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

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 Sougus

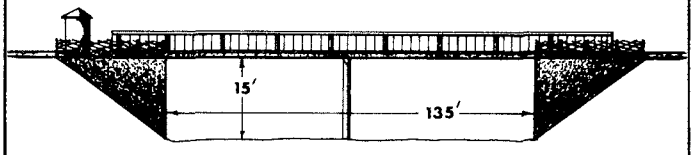
REGULATION – Bouquet Reservoir

CHANNEL – concrete sides with natural bottom, trapezoidal in section

CONTROL – concrete stabilizer

LENGTH OF RECORD - October 11, 1967 to date

cross-section



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO F377-R

DAILY DISCHARGE IN SECOND-FEET OF BOUQUET CANYON CREEK at Urbandale Avenue FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	October	November	December	January	February	March	April	May	June	July	August	September
1	0	a 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	d +	0	0	0	0	0	0	0
4	a 0	0	d +	0	d +	0	0	0	0	0	0	0
5	a 0	0	0	0	d 2.3	0	0	0	0	0	0	0
6	a 0	0	d 0	0	d 13	0.1	0	0	0	0	0	0
7	a 0	0	+	0	6.5	0.1	0	0	0	0	0	0
8	a 0	0	0	0	0	2.8	0	0	0	0	0	0
9	a 0	0	0	+	0	d +	0	0	0	0	0	0
10	a 0	0	0	0	15	0	0	0	0	0	0	0
11	a 0	d +	0	0	81	5.1	0	0	0	0	0	0
12	a 0	0	0	0	0.1	+	0	0	0	0	0	0
13	a 0	0	0	0	8.1	0	0	0	0	0	0	0
14	a 0	1.3	0	0	0	0	0	0	0	0	0	0
15	a 0	0	0	0	0	0	0	0	0	0	0	0
16	a 0	d 0.4	0	0.2	0	0	0	0	0	0	0	0
17	a 0	d +	0	0	0	0	0	0	0	0	0	0
18	a 0	0	0	8.3	0	0	0	0	0	0	0	0
19	a 0	0	0	0.2	0	0	0	0	0	0	0	0
20	a 0	0	0	0	0	4.9	0	0	0	0	0	0
21	a 0	0	0	0	0	0.9	0	0	0	0	0	0
22	a 0	0	0	0	0	0	0	0	0	0	0	0
23	a 0	0	0	0	0	0	0	0	0	0	0	0
24	a 0	0	0	0	0	0	0	0	0	0	0	0
25	a 0	0	0	0	0	0	0	0	0	0	0	0
26	a 0	0	0	0	0	0	0	0	0	0	0	0
27	a 0	0	0	0	0.4	0	0	0	0	0	0	0
28	a 0	0	0	0	0.6	0	0	0	0	0	0	0
29	a 0	0	0	0		0	0	0	0	0	0	0
30	a 0	0	0	0		0	0	0	0	0	0	0
31	a 0		0	0		0		0		0	0	
MEAN	0	.06	+	0.28	4.54	0.45	0	0	0	0	0	0
ACRE-FEET	0	3.4	+	17	252	28	0	0	0	0	0	0

YEAR OR PERIOD MEAN 0.41

ACRE-FEET 300

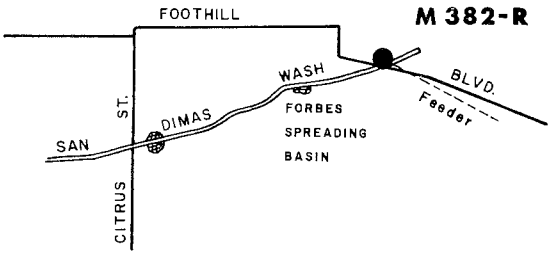
STATION DATA SUMMARY

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 MON	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

STATION NO. M382-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.

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	0.6	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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO M382

DAILY DISCHARGE IN SECOND-FEET OF SAN DIMAS M.W.D. OUTLET FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

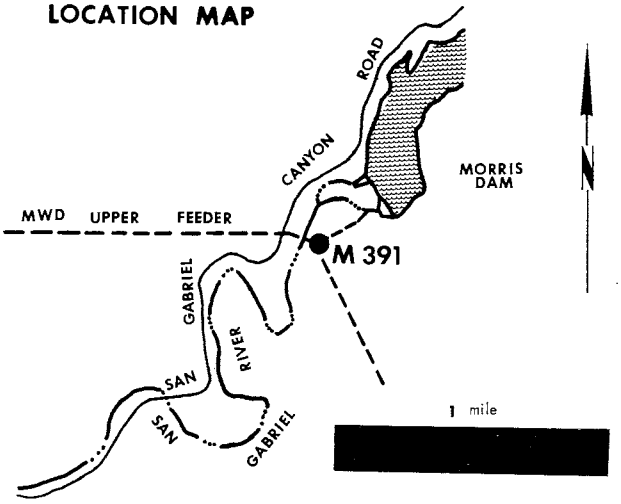
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0	100.4	150	230	225.3	0	0	195	222	218	218	77
2	0	152	198.6	230	181.7	0	0	198	225	219	218	77
3	0	152	227	230	0	0	0	200	223	219	218	76
4	0	152	96.6	230	0	0	0	200	150.7	218	218	31
5	0	151	0	230	0	0	61.5	202	0	216	218	0
6	0	151	0	230	0	0	100	201	0	217.2	218	0
7	0	151	0	230	0	0	100	200	0	216	218	0
8	0	151	0	119.3	0	0	100	200	0	216	217	0
9	0	151	0	0	0	0	100	197	0	216	218	0
10	0	91.5	0	0	0	0	100	205	0	216	218	0
11	0	0	103	0	0	0	100	218	0	216	218	0
12	0	0	228	105.4	0	0	100	218	0	216	218	0
13	0	0	227	233	0	0	100	218	0	217	218	0
14	0	0	227	229.3	0	0	100	218	0	219	217	0
15	0	0	227	227	0	0	100	218	85.9	219	218	0
16	0	0	227	130.8	0	0	100	218	222	216	218	0
17	0	0	227	0	0	0	100	218	221	218.1	218	0
18	0	0	227	0	0	0	100	217	220	218	218	0
19	0	0	228	0	0	0	100	217	220	218	218	0
20	0	63	228	0	0	0	161.1	217	220	218	218	0
21	0	146	228	0	0	0	200	217	223	218	218	0
22	0	148	228	0	0	0	200	217	220	218	218	0
23	0	148	228	0	0	0	200	218	218	217	218	0
24	0	149	228	0	0	0	200	218	218	218	218	0
25	0	150	228	0	0	0	200	218	217	218	218	0
26	0	151	230	0	0	0	200	218	217	219	218	0
27	0	151	230	0	0	0	200	218	214	218	218	0
28	0	151	230	0	0	0	200	218	215	216	217	0
29	0	151	230	0	0	0	200	222	216	220	218	0
30	0	151	230	38		0	200	221	217	219	160.7	0
31	0		230	191.5		0		218		218	77	
MEAN	0	98.7	172	93.0	14.5	0	121	212	139	218	212	8.7
ACRE-FEET	0	5870	10590	5720	807	0	7190 n	13050	8300	13380	13010	518

YEAR OR PERIOD MEAN 108
ACRE-FEET 78430

STATION NO. M391

SAN GABRIEL RIVER- MWD OUTLET 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 difference between the recorded total flow at the La Verne pump plant and the record of releases at 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.

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	3130
1972-73	150	0	10.1	7310

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO M391

DAILY DISCHARGE IN SECOND-FEET OF SAN GABRIEL RIVER-M.W.D. OUTLET below Morris Dam FOR THE WATER YEAR ENDING SEPTEMBER 30, 19 73

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	0.6	52	150	0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
2	0.6	149	70	0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
3	0.6	149	0	0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
4	0.6	149	0	0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
5	0.6	149	0	0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
6	0.5	149	0	0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
7	0.5	149	0	0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
8	0.5	149	0	0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
9	0.5	149	0	0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
10	0	149	0	0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
11	0	149	0	0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
12	0	149	0	0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
13	0	100	0	0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
14	0	0	0	0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
15	0	0	0	0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
16	0	0	0	0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
17	0	0	0	0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
18	0	0	0	0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
19	0	0	0	0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
20	0	70	0	0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
21	0	150	0	0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
22	0	150	0	0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
23	0	150	0	0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
24	0	150	0	0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
25	0	150	0	0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
26	0	150	0	0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
27	0	150	0	0	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
28	0	150	0	0	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.4
29	0	150	0	0		0.3	0.4	0.3	0.4	0.3	0.3	0.4
30	0	150	0	0		0.3	0.4	0.3	0.4	0.3	0.3	0.4
31	0		0	0		0.3		0.3		0.3	0.3	
MEAN	0.16	112	7.1	0	0.39	0.39	0.40	0.39	0.40	0.39	0.39	0.40
ACRE-FEET	9.9	6670	440	0	22	24	24	24	24	24	24	24

YEAR OR PERIOD MEAN 10.1
ACRE-FEET 7310

RISING WATER
at Whittier Narrows

The values of discharge summarized here are computed by means of interpolation between measured amounts. It has been necessary to estimate the quantity of rising water reaching Whittier Narrows during periods of high flow such as during storms. Beginning in 1954 the importation of Colorado River water for spreading created conditions which have made accurate measurements impossible to obtain. When these conditions prevail, estimates are made which are based on the nearest accurate values.

Rising water discharge is computed by the formula:

$$M = A + B - (C + D) + G + H - (I + J)$$

M = total rising water at Whittier Narrows.

A = computed flow of Mission Creek at San Gabriel Boulevard.

B = measured flow of Rio Hando at maximum rising water.

C = measured flow of Rio Hando above rising water, Station E326-R.

D = additional flow at various locations.

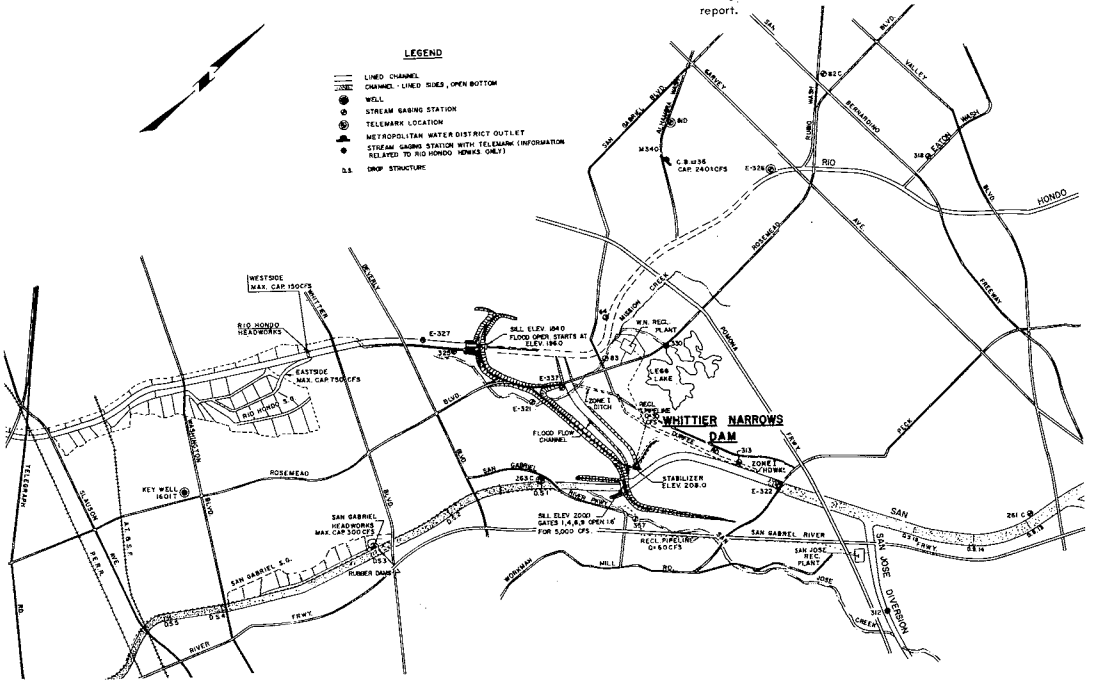
G = measured flow of San Gabriel River above Parkway Bridge, Station F86-S.

H = diversion above "G".

I = measured flow of San Gabriel River above rising water.

J = additional flow at various locations.

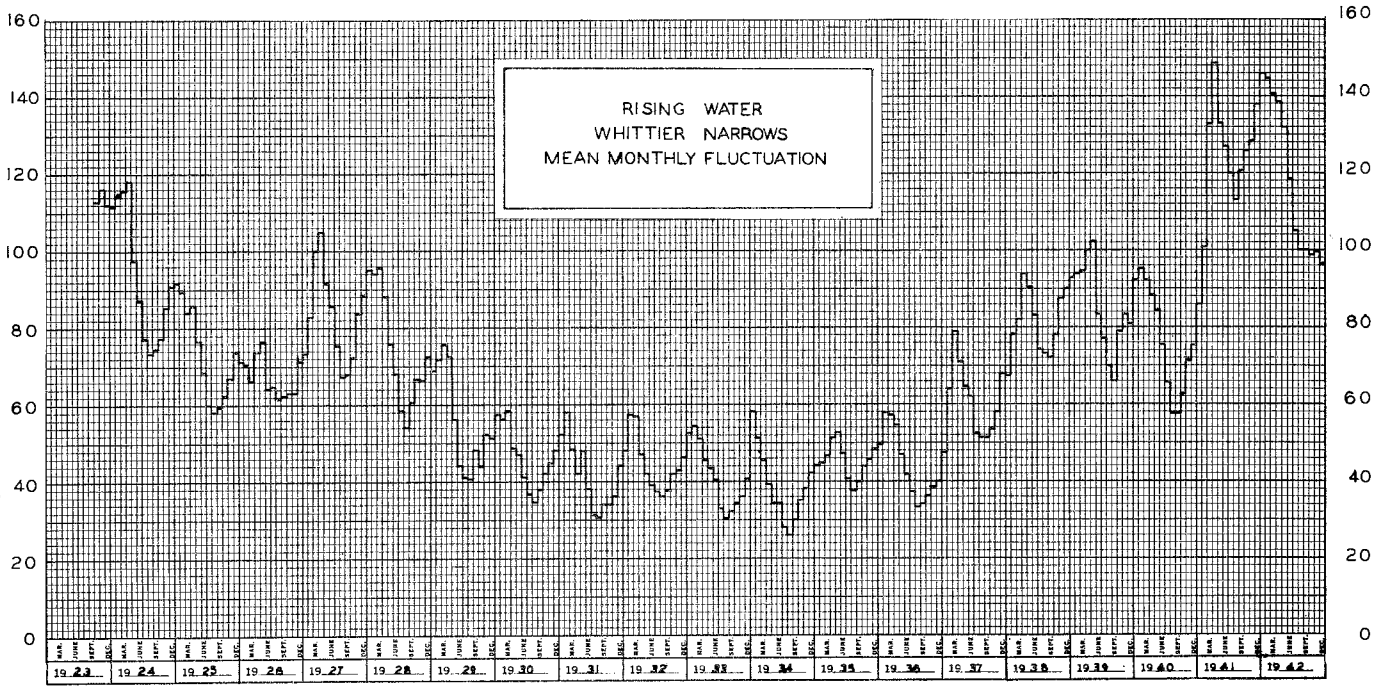
A graph has been included which shows the mean monthly rising water from January 1923 through the period of this report.



DAILY DISCHARGE IN SECOND-FEET OF RISING WATER at Whittier Narrows (Total) FOR THE WATER YEAR ENDING SEPTEMBER 30, 1973

	October	November	December	January	February	March	April	May	June	July	August	September
1	1.8	2.6	5.8	6.8	12.0	17.2	13.7	13.1	14.0	9.8	9.9	7.8
2	1.9	2.7	5.9	6.8	12.2	17.2	13.3	12.6	13.9	9.6	9.8	7.9
3	2.1	2.9	5.9	6.9	12.4	17.5	12.7	12.2	13.8	9.5	9.7	7.9
4	1.6	3.0	5.9	7.4	12.6	17.6	12.9	11.8	13.8	9.8	9.6	8.0
5	1.7	3.3	5.9	8.0	12.7	17.9	13.3	12.0	13.7	10.1	9.5	8.2
6	1.7	3.4	5.9	8.5	12.9	18.0	13.5	12.2	13.6	10.3	9.4	8.2
7	1.9	3.6	5.9	9.1	13.1	18.2	13.7	12.3	13.5	10.5	9.2	8.2
8	2.2	3.8	5.9	9.6	13.3	18.4	13.7	12.4	13.4	10.8	9.2	8.1
9	2.3	3.9	6.0	10.2	13.4	18.6	13.9	12.6	13.4	11.1	9.0	8.0
10	2.3	4.1	6.0	10.7	13.6	18.7	14.1	12.7	13.2	11.3	8.8	7.9
11	2.5	4.3	6.0	10.6	13.8	18.9	14.2	12.9	13.0	11.6	8.7	7.9
12	2.5	4.4	6.1	10.6	14.0	19.1	14.4	13.0	12.9	11.8	8.4	7.8
13	2.3	4.6	6.1	10.6	14.1	19.2	14.6	13.0	12.7	11.7	8.2	7.8
14	2.1	4.8	6.1	10.6	14.3	20.1	14.6	13.1	12.6	11.7	8.1	7.7
15	2.0	5.0	6.2	10.6	14.5	21.0	14.8	13.3	12.5	11.7	7.8	7.5
16	1.9	5.1	6.3	10.5	14.8	21.9	15.0	13.4	12.3	11.6	7.7	7.4
17	1.8	5.3	6.3	10.5	14.9	22.8	15.2	13.4	12.1	11.6	7.9	7.2
18	1.7	5.3	6.5	10.6	15.1	23.7	15.3	13.4	12.0	11.5	8.1	7.1
19	1.8	5.4	6.5	10.6	15.3	24.6	15.3	13.4	11.9	11.4	8.3	7.0
20	1.9	5.5	6.6	10.5	15.4	25.4	15.1	13.4	11.6	11.4	8.5	6.8
21	2.0	5.6	6.7	10.5	15.7	26.3	15.1	13.4	11.4	11.4	8.7	6.8
22	2.1	5.6	6.7	10.6	15.8	27.2	15.0	13.4	11.2	11.1	9.0	6.7
23	2.2	5.7	5.7	10.5	16.0	25.5	15.0	13.5	11.1	11.0	9.1	6.7
24	2.3	5.7	6.8	10.5	16.2	23.8	14.9	13.6	10.9	10.9	8.9	6.5
25	2.4	5.7	6.7	10.7	16.4	22.1	14.9	13.6	10.7	10.8	8.7	6.4
26	2.4	5.8	6.7	10.9	16.5	20.4	14.7	13.7	10.6	10.6	8.3	6.3
27	2.5	5.8	6.8	11.1	16.8	18.6	14.7	13.9	10.4	10.5	8.1	6.3
28	2.5	5.7	6.8	11.2	16.9	16.8	14.3	14.0	10.2	10.4	7.9	6.2
29	2.5	5.8	6.7	11.4		15.1	13.9	14.1	10.1	10.4	7.6	6.1
30	2.5	5.8	6.7	11.6		14.7	13.5	14.2	9.9	10.2	7.7	6.0
31	2.5		6.8	11.9		14.2		14.1		10.1	7.7	
MEAN	2.13	4.67	6.32	10.0	14.5	20.0	14.3	13.2	12.2	10.8	8.63	7.28
ACRE-FEET	131	278	389	616	803	1230	852	809	727	669	531	433

YEAR OR PERIOD MEAN 10.3
ACRE-FEET 7470


RISING WATER
WHITTIER NARROWS
MEAN MONTHLY FLUCTUATION
160
140
120
100
80
60
40
20
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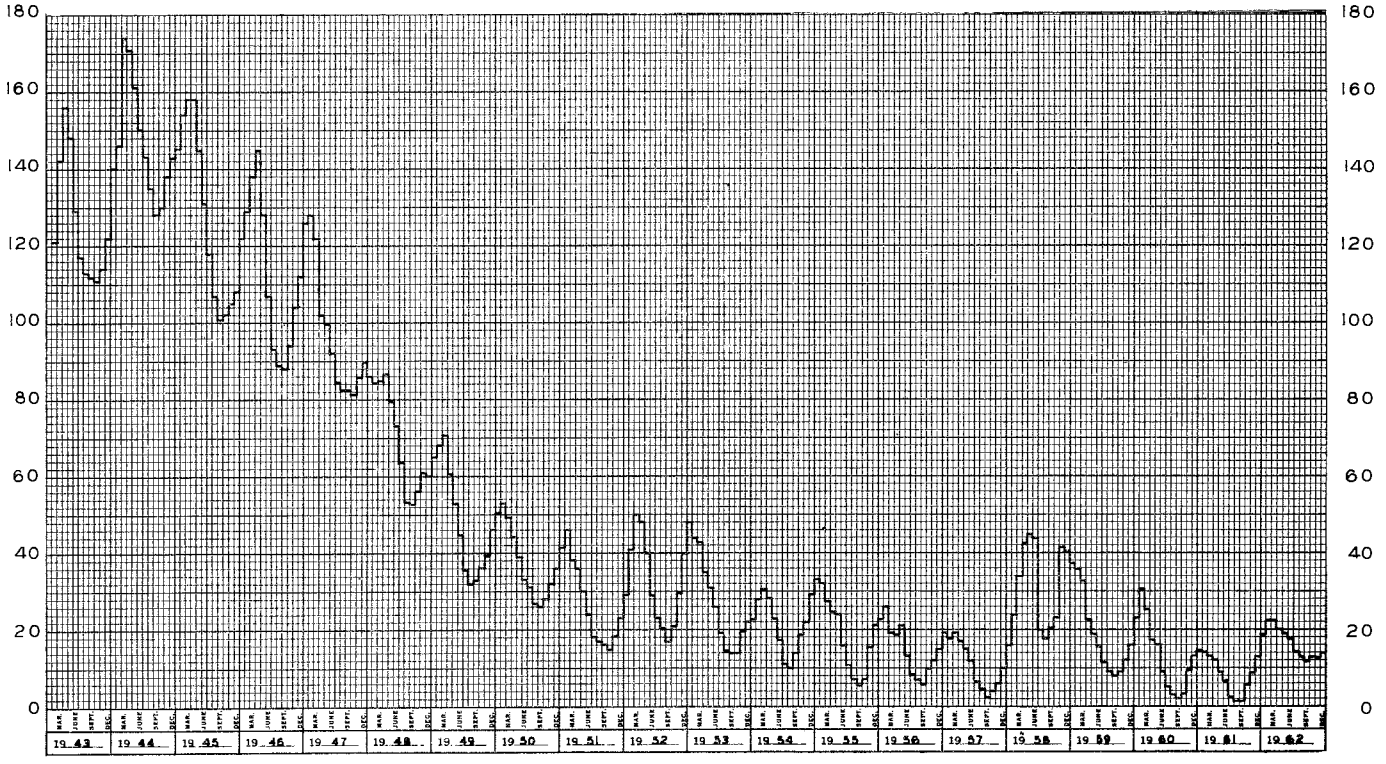
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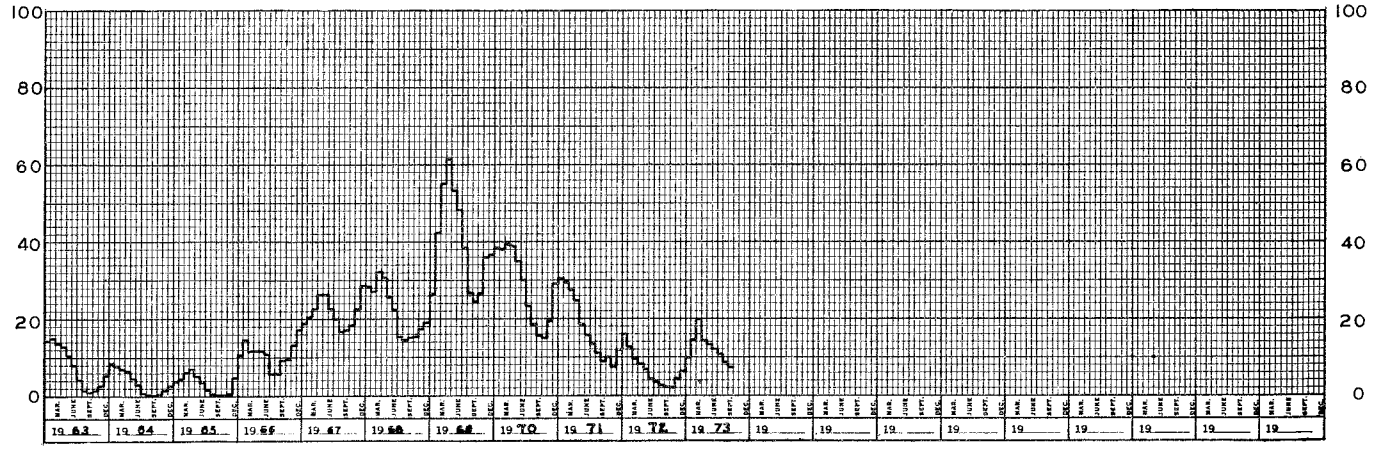
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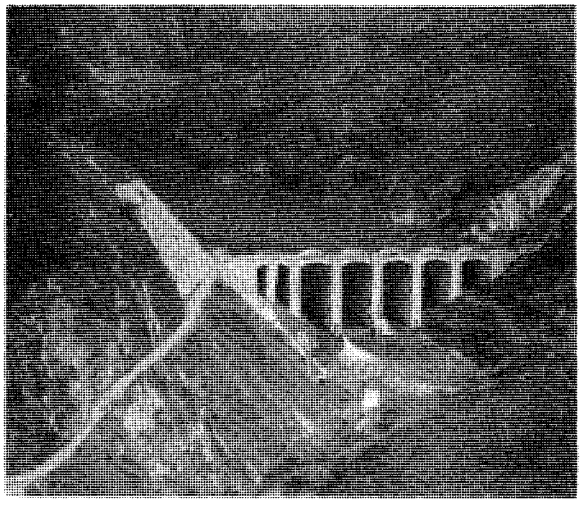
RESERVOIRS

FOREWORD

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. The first bond issue voted for flood control was in 1917. Devil's Gate, the first of the three dams built under this issue was completed in 1939. These dams were operaated by the District during the season covered by this report. In additon, five dams of the Los Angeles District, Corps of Engineers, Department of the Army, were utilized by the District 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 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 floodwaters 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 stream flow during the dry summer months for recreation and water supply purposes.



RECORDS

The daily storage and flow records at fourteen 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 waterstage 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.

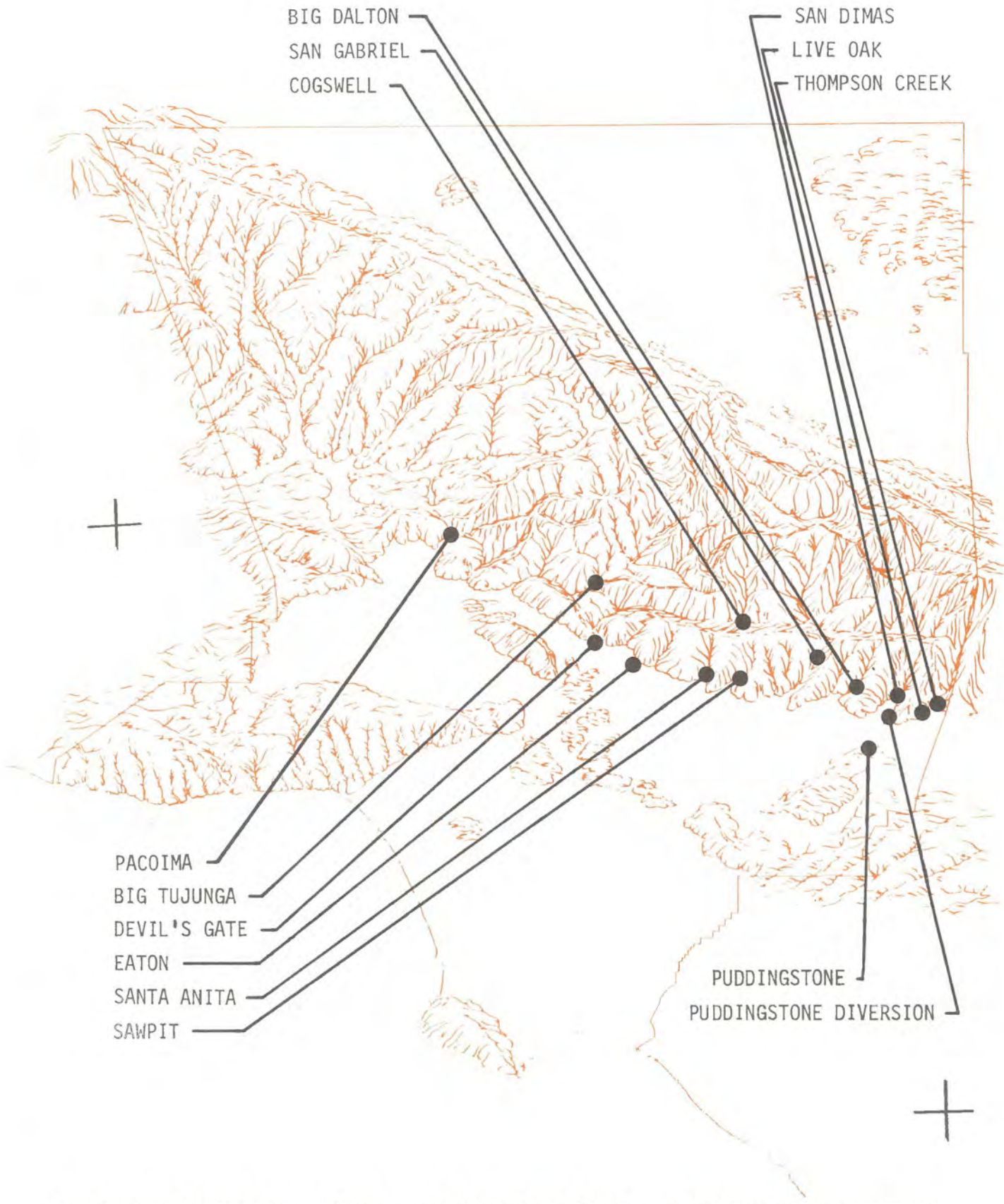
3. Inflow in cubic feet per second is usually calculated from storage change and known outflow. When outflow is not known, the inflow may be determined from gaging station records or interpolated between measurements.

4. Outflow in cubic feet per second is mean daily valve and/or spillway discharge. These values are determined from gaging station records, known valve openings and rating curves, or from storage change and known inflow.

5. In some instances, total monthly and yearly evaporation and percolation losses have been computed and are indicated on the Dam Operation Records. Discrepancies between outflow and storage losses at certain dams 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.

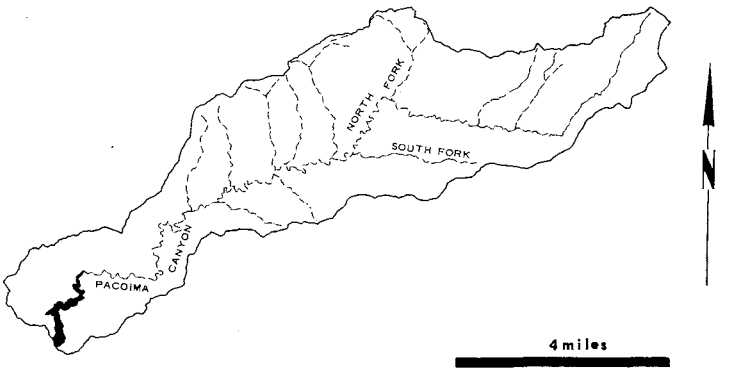
   Recovery of storage capacity lost through sedimentation is accomplished through sluicing and excavation.



LOCATION OF DISTRICT RESERVOIRS

PACOIMA DAM
AND RESERVOIR

drainage area



PURPOSE -
Flood Control and Conservation

DATE CONSTRUCTED -
Started March 1925 - Completed February 1929

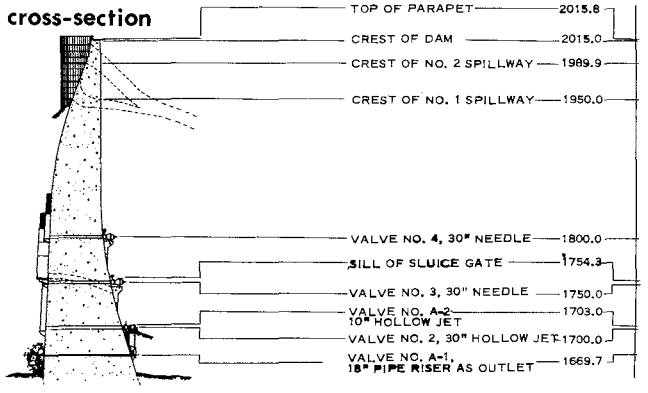
LOCATION -
Pacoima Canyon, 4.0 miles northeast of San Fernando

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	INFLOW ANNUAL AF	INFLOW MAX-DAY CFS	INFLOW MIN-DAY CFS	OUTFLOW ANNUAL AF	PEAK INFLOW MO	PEAK INFLOW DAY	PEAK INFLOW CFS
1929-30	1110	N.D.	N.D.	965			N.D.
1930-31	1082	N.D.	N.D.	886			N.D.
1931-32	8741	N.D.	N.D.	8443			N.D.
1932-33	2160	101	0	2119			N.D.
1933-34	3454	N.D.	N.D.	3493	1	1	914
1934-35	5569	84	0	5556			N.D.
1935-36	3098	88	0	3094	2	12	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	22	56
1964-65	1313	70	0.1	1048	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

N.D. = NOT DETERMINED

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

DAM OPERATION RECORD

Pacoima Dam

1972-73

DRAINAGE AREA 28.2 SQ. MI.
CAPACITY OF RESERVOIR 3928.8 AC. FT.,
at SPILLWAY ELEVATION 1950.0 FT.,
as of October , 19 71

GAGE HEIGHTS AND STORAGES ARE AS OF MIDNIGHT ON DAY SHOWN.

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	1830.2	211.6	0.2	0.1	1830.3	212.4	0.1	0.1	1832.4	230.4	0.6	0.1	1835.7	260.5	0.7	0.1	1
2	1830.2	211.6	0.2	0.1	1830.3	212.4	0.1	0.1	1832.4	230.4	0.2	0.1	1835.8	261.4	0.6	0.1	2
3	1830.2	211.6	0.2	0.1	1830.3	212.4	0.2	0.1	1832.5	231.3	0.6	0.1	1835.9	262.4	0.6	0.1	3
4	1830.2	211.6	0.1	0.1	1830.2	211.6	0.1	0.1	1832.9	234.8	1.9	0.1	1835.9	262.4	0.2	0.1	4
5	1830.2	211.6	0.2	0.1	1830.2	211.6	0.1	0.1	1833.0	235.7	0.5	0.1	1836.0	263.3	0.6	0.1	5
6	1830.2	211.6	0.2	0.1	1830.2	211.6	0.2	0.1	1833.2	237.5	1.0	0.1	1836.0	263.3	0.2	0.1	6
7	1830.2	211.6	0.2	0.1	1830.2	211.6	0.1	0.1	1833.5	240.2	1.5	0.1	1836.0	263.3	0.2	0.1	7
8	1830.3	212.4	0.5	0.1	1830.2	211.6	0.2	0.1	1833.7	242.0	1.0	0.1	1836.2	265.2	1.1	0.1	8
9	1830.3	212.4	0.1	0.1	1830.2	211.6	0.2	0.1	1833.8	242.9	0.6	0.1	1836.3	266.2	0.6	0.1	9
10	1830.3	212.4	0.2	0.1	1830.3	212.4	0.5	0.1	1833.7	242.0	0.5	0.1	1836.3	266.2	0.1	0.1	10
11	1830.3	212.4	0.1	0.1	1830.4	213.3	0.5	0.1	1833.5	240.2	0.1	0.1	1836.4	267.2	0.6	0.1	11
12	1830.3	212.4	0.2	0.1	1830.5	214.1	0.5	0.1	1834.0	244.7	2.4	0.1	1836.6	269.1	1.1	0.1	12
13	1830.3	212.4	0.2	0.1	1830.8	214.1	0.1	0.1	1834.1	245.6	0.7	0.1	1836.6	269.1	0.2	0.1	13
14	1830.4	213.3	0.6	0.1	1830.9	216.6	1.4	0.1	1834.2	246.5	0.6	0.1	1836.6	269.1	0.2	0.1	14
15	1830.4	213.3	0.1	0.1	1831.2	217.5	0.5	0.1	1834.3	247.5	0.7	0.1	1836.8	271.0	1.1	0.1	15
16	1830.4	213.3	0.2	0.1	1831.2	220.0	1.5	0.1	1834.4	248.4	0.6	0.1	1837.5	277.9	3.6	0.1	16
17	1830.4	213.3	0.1	0.1	1831.4	221.7	1.0	0.1	1834.5	249.3	0.6	0.1	1837.7	279.9	1.1	0.1	17
18	1830.4	213.3	0.2	0.1	1831.5	222.6	0.5	0.1	1834.6	250.2	0.7	0.1	1839.4	297.3	9.0	0.1	18
19	1830.5	214.1	0.5	0.1	1831.6	223.5	0.5	0.1	1834.6	250.2	0.2	0.1	1840.3	306.9	4.9	0.1	19
20	1830.5	214.1	0.1	0.1	1831.7	224.3	0.6	0.1	1834.7	251.1	0.7	0.1	1840.5	309.0	1.2	0.1	20
21	1830.5	214.1	0.1	0.1	1831.8	225.2	0.6	0.1	1834.8	252.1	0.7	0.1	1840.7	311.2	1.2	0.1	21
22	1830.5	214.1	0.1	0.1	1831.8	225.2	0.2	0.1	1834.9	253.0	0.7	0.1	1840.8	312.3	0.7	0.1	22
23	1830.5	214.1	0.2	0.1	1831.9	226.0	0.6	0.1	1835.0	253.9	0.7	0.1	1840.9	313.4	0.7	0.1	23
24	1830.5	214.1	0.2	0.1	1832.0	226.9	0.6	0.1	1835.0	253.9	0.2	0.1	1841.1	315.6	1.3	0.1	24
25	1830.4	213.3	0.1	0.1	1832.0	226.9	0.2	0.1	1835.1	254.8	0.8	0.1	1841.3	317.8	1.2	0.1	25
26	1830.4	213.3	0.2	0.1	1832.1	227.8	0.6	0.1	1835.2	255.8	0.7	0.1	1841.4	318.9	0.8	0.1	26
27	1830.4	213.3	0.1	0.1	1832.2	228.7	0.6	0.1	1835.3	256.7	0.7	0.1	1841.7	322.2	1.9	0.1	27
28	1830.4	213.3	0.1	0.1	1832.2	228.7	0.2	0.1	1835.3	256.7	0.2	0.1	1841.8	323.3	0.7	0.1	28
29	1830.4	213.3	0.2	0.1	1832.3	229.5	0.6	0.1	1835.5	258.6	1.1	0.1	1842.0	325.5	1.2	0.1	29
30	1830.3	212.4	0.1	0.1	1832.3	229.5	0.2	0.1	1835.6	259.5	0.7	0.1	1842.3	328.9	1.8	0.1	30
31	1830.3	212.4	0.1	0.1					1835.6	259.5	0.2	0.1	1842.5	331.2	1.3	0.1	31
TOTAL			5.9	3.1			13.6	3.0			23.5	3.1			40.5	3.1	
Inf. Ac. Ft.			11.7				27.0				42.7				80.4		
Outf. Ac. Ft.			6.1 + (4.8)				6.0 + (4.0)				6.1 + (6.5)				6.1 + (2.6)		
Max. Mean Daily Inf.			0.6				1.5				2.4				9.0		
Min. Mean Daily Inf.			0.1				0.1				0.1				0.1		
Storage Change			0.8				17.1				30.0				71.7		

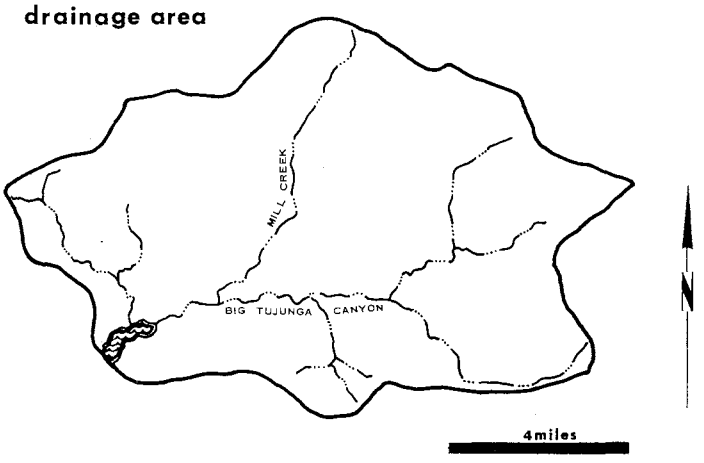
Day	FEBRUARY				MARCH				APRIL				MAY				Day
	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	
1	1842.7	333.5	1.3	0.1	1849.8	419.4	49.8	49.0	1849.2	411.6	28.8	36.6	1841.6	321.1	11.2	0.1	1
2	1842.9	335.7	1.3	0.1	1855.5	499.4	45.7	5.3	1853.5	470.2	29.8	0.1	1843.3	340.3	9.9	0.1	2
3	1843.3	340.3	1.4	0.1	1853.6	471.6	21.8	35.7	1851.2	438.1	21.6	37.6	1845.0	360.0	10.2	0.1	3
4	1843.7	344.9	1.4	0.1	1850.8	432.7	37.3	56.9	1850.6	430.1	26.7	30.6	1846.5	378.0	9.5	0.1	4
5	1844.1	349.5	1.4	0.1	1852.4	454.6	37.3	26.1	1854.0	477.3	24.0	0.1	1848.1	397.7	10.1	0.1	5
6	1845.6	367.2	9.0	0.1	1850.7	431.4	33.6	45.2	1849.6	416.8	11.7	42.1	1849.4	414.2	8.6	0.1	6
7	1849.6	416.8	25.2	0.1	1851.8	446.3	41.9	34.4	1850.1	423.4	36.6	33.2	1850.8	432.7	9.5	0.1	7
8	1852.5	456.0	19.9	0.1	1849.7	418.1	42.6	56.8	1852.5	456.0	16.7	0.1	1845.8	369.6	8.3	40.0	8
9	1854.0	477.3	16.0	5.2	1851.5	442.2	37.6	25.4	1849.8	419.4	16.1	34.5	1852.6	232.2	5.9	75.1	9
10	1857.4	528.7	50.4	26.5	1847.4	389.0	37.4	59.2	1848.1	397.7	19.1	30.0	1826.9	184.9	4.7	28.4	10
11	1859.4	561.0	695.8	679.5	1849.8	419.4	61.0	45.6	1851.2	438.1	20.6	0.1	1829.0	201.6	8.7	0.1	11
12	1850.2	424.7	118.1	186.8	1850.2	424.7	53.9	61.2	1848.1	397.7	23.1	43.4	1831.0	218.3	8.6	0.1	12
13	1849.3	412.9	100.3	106.2	1848.2	398.9	55.5	68.4	1846.4	376.8	17.7	28.1	1832.6	232.2	7.2	0.1	13
14	1850.0	422.0	71.9	67.3	1849.7	418.1	52.3	42.5	1849.4	414.2	19.1	0.1	1834.0	244.7	6.5	0.1	14
15	1849.7	418.1	60.9	62.9	1851.7	445.0	55.6	42.0	1852.2	451.8	19.6	0.1	1835.7	260.5	8.2	0.1	15
16	1849.3	412.9	50.8	53.3	1852.7	458.8	48.2	41.2	1848.3	400.2	11.3	37.2	1837.1	273.9	7.0	0.1	16
17	1849.8	419.4	42.0	38.6	1849.2	411.6	41.0	64.7	1845.3	363.6	14.7	33.0	1838.0	282.8	4.7	0.1	17
18	1849.8	419.4	40.3	40.2	1849.4	414.2	36.2	34.8	1848.0	396.4	16.7	0.1	1839.1	294.1	5.9	0.1	18
19	1849.3	412.9	37.0	40.2	1850.0	422.0	36.8	32.8	1845.3	363.6	11.2	27.6	1840.2	305.8	6.1	0.1	19
20	1849.7	418.1	24.0	21.3	1850.9	434.1	48.8	42.6	1843.3	340.3	13.6	25.2	1841.1	315.6	5.1	0.1	20
21	1851.1	436.8	21.1	11.6	1850.3	426.1	46.5	50.5	1845.8	369.6	15.0	0.1	1842.1	326.7	5.8	0.1	21
22	1851.3	439.5	17.9	16.4	1849.7	418.1	46.5	50.5	1848.1	397.7	14.4	0.1	1843.2	339.1	6.5	0.1	22
23	1850.7	431.4	15.6	19.1	1852.6	457.4	36.9	17.0	1850.2	424.7	13.8	0.1	1837.2	274.9	4.1	36.4	23
24	1849.8	419.4	13.3	19.3	1833.8	274.5	38.9	30.2	1852.1	450.4	13.2	0.1	1825.4	173.4	6.9	58.0	24
25	1848.8	406.5	12.8	19.3	1851.7	445.0	36.2	51.0	1848.0	396.4	2.8	29.9	1821.6	146.5	5.7	23.3	25
26	1849.4	414.2	15.1	11.1	1850.8	432.7	51.8	58.0	1837.0	272.9	4.6	66.7	1832.4	158.9	6.5	0.1	26
27	1852.1	450.4	38.4	20.1	1847.6	391.5	48.3	69.0	1832.1	227.8	9.1	31.8	1824.5	166.8	4.2	0.1	27
28	1849.7	418.1	86.9	103.1	1851.1	436.8	33.3	16.5	1834.8	252.1	13.3	0.1	1825.8	176.4	5.1	0.1	28
29					1850.4	427.4	42.9	47.5	1837.3	273.9	12.1	0.1	1827.0	185.6	4.8	0.1	29
30					1850.5	428.7	29.4	28.6	1839.6	299.4	12.0	0.1	1827.9	192.8	3.8	0.1	30
31					1850.4	427.4	27.2	27.8					1829.0	201.6	4.7	0.1	31
TOTAL			1594.0	1549.0			1323.1	1316.4			507.6	568.9			217.4	263.7	
Inf. Ac. Ft.			3161.7				2624.3				1006.8				431.3		
Outf. Ac. Ft.			3072.4 + (2.4)				2611.0 + (4.0)				1128.4 + (6.5)				523.0 + (6.0)		
Max. Mean Daily Inf.			695.8				63.9				36.6				11.2		
Min. Mean Daily Inf.			1.3				21.8				2.8				3.8		
Storage Change			86.9				9.2				- 128.0				-97.7		

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	1830.2	211.6	5.1	0.1	1843.3	340.3	2.6	0.1	1848.0	396.4	1.4	0.1	1851.5	442.2	1.0	0.1	1
2	1831.3	220.9	4.8	0.1	1843.5	342.6	1.6	0.1	1848.2	398.9	1.6	0.1	1851.6	443.6	0.9	0.1	2
3	1832.4	230.4	4.9	0.1	1843.6	343.7	1.0	0.1	1848.4	401.5	1.6	0.1	1851.7	445.0	0.9	0.1	3
4	1833.0	235.7	2.9	0.1	1843.8	346.0	1.6	0.1	1848.5	402.7	0.8	0.1	1851.9	447.7	1.6	0.1	4
5	1834.0	244.7	4.7	0.1	1844.0	348.3	1.5	0.1	1848.6	404.0	0.9	0.1	1852.0	449.0	0.9	0.1	5
6	1834.5	249.3	2.5	0.1	1844.2	350.7	1.4	0.1	1848.7	405.3	0.9	0.1	1852.0	449.0	0.4	0.1	6
7	1835.0	253.9	2.5	0.1	1844.3	351.9	0.9	0.1	1848.8	406.5	0.9	0.1	1852.1	450.4	0.9	0.1	7
8	1835.5	258.6	2.6	0.1	1844.5	354.2	1.5	0.1	1849.0	409.0	1.6	0.1	1852.2	451.8	0.9	0.1	8
9	1836.0	263.3	2.6	0.1	1844.8	357.7	2.1	0.1	1849.1	410.3	1.0	0.1	1852.3	453.2	1.0	0.1	9
10	1836.5	268.1	2.6	0.1	1844.9	358.9	0.9	0.1	1849.2	411.6	1.0	0.1	1852.4	454.6	0.9	0.1	10
11	1837.0	272.9	2.6	0.1	1845.0	360.0	0.9	0.1	1849.3	412.9	1.0	0.1	1852.5	456.0	0.9	0.1	11
12	1837.4	276.9	2.2	0.1	1845.2	362.4	1.5	0.1	1849.4	414.2	0.9	0.1	1852.6	457.4	0.9	0.1	12
13	1838.0	282.8	3.2	0.1	1845.3	363.6	0.9	0.1	1849.6	416.8	1.5	0.1	1852.7	458.8	0.9	0.1	13
14	1838.3	285.9	1.7	0.1	1845.4	364.8	0.8	0.1	1849.7	418.1	0.9	0.1	1852.8	460.2	1.0	0.1	14
15	1838.8	291.0	2.8	0.1	1845.6	367.2	1.5	0.1	1849.8	419.4	0.9	0.1	1852.9	461.6	1.0	0.1	15
16	1839.3	296.2	2.8	0.1	1845.7	368.4	0.9	0.1	1849.9	420.7	1.0	0.1	1852.9	461.6	0.3	0.1	16
17	1839.7	300.4	2.3	0.1	1845.9	370.8	1.5	0.1	1850.0	422.0	1.0	0.1	1853.0	463.0	1.0	0.1	17
18	1840.0	303.6	1.9	0.1	1846.1	373.2	1.4	0.1	1850.1	423.4	1.0	0.1	1853.1	464.5	0.9	0.1	18
19	1840.2	305.8	1.4	0.1	1846.2	374.4	0.9	0.1	1850.2	424.7	1.0	0.1	1853.2	465.9	1.0	0.1	19
20	1840.7	311.2	3.9	0.1	1846.3	375.6	0.9	0.1	1850.3	426.1	0.9	0.1	1853.3	467.3	1.0	0.1	20
21	1840.8	312.3	0.8	0.1	1846.5	378.0	1.4	0.1	1850.4	427.4	1.0	0.1	11853.4	468.8	1.1	0.1	21
22	1841.2	316.7	2.6	0.1	1846.6	379.2	0.9	0.1	1850.5	428.7	1.0	0.1	1853.4	468.8	0.3	0.1	22
23	1841.4	318.9	1.4	0.1	1846.8	381.6	1.5	0.1	1850.6	430.1	1.0	0.1	1853.5	470.2	1.0	0.1	23
24	1841.7	322.2	2.0	0.1	1846.9	382.8	0.9	0.1	1850.7	431.4	1.0	0.1	1853.6	471.6	1.0	0.1	24
25	1841.9	324.4	1.3	0.1	1847.1	385.3	1.5	0.1	1850.8	432.7	0.9	0.1	1853.7	473.1	1.1	0.1	25
26	1842.1	326.7	1.3	0.1	1847.2	386.5	0.9	0.1	1850.9	434.1	0.9	0.1	1853.8	474.5	1.2	0.1	26
27	1842.3	328.9	1.3	0.1	1847.3	387.8	0.9	0.1	1851.0	435.4	0.9	0.1	1853.8	474.5	0.3	0.1	27
28	1842.5	331.2	1.3	0.1	1847.5	390.2	1.5	0.1	1851.1	436.8	0.9	0.1	1853.9	475.9	1.1	0.1	28
29	1842.7	333.5	1.4	0.1	1847.6	391.5	0.9	0.1	1851.2	438.1	1.0	0.1	1853.9	475.9	0.3	0.1	29
30	1842.9	335.7	1.3	0.1	1847.7	392.7	0.8	0.1	1851.3	439.5	0.9	0.1	1854.0	477.3	1.0	0.1	30
31					1847.8	393.9	0.9	0.1	1851.4	440.9	1.0	0.1					31
TOTAL			74.1	3.0			38.4	3.1			31.8	3.1			26.9	3.0	
Inf. Ac. Ft.			147.0				76.3				63.0				53.4		
Outf. Ac. Ft.			6.0 + (6.9)				6.1 + (11.9)				6.1 + (9.9)				6.0 + (10.9)		
Max. Mean Daily Inf.			5.1				2.6				1.6				1.6		
Min. Mean Daily Inf.			0.9				0.8				0.8				0.3		
Storage Change			134.1				58.2				46.9				36.5		

Max. W.S. Elev. 1869.4 feet on February 11, 1973 Storage 744.8 Acre-Feet
Min. W.S. Elev. 1820.0 feet on May 25, 1973 Storage 103.8 Acre-Feet
Max. Peak Inf. 1640* CFS from 0730 on 2-11-73 to 0800 on 2-11-73
Max. Peak Outf. 1540* CFS from 0740 on 2-11-73 to 0900 on 2-11-73

REMARKS: *Outflow station submerged during this period
() Indicates evaporation

BIG TUJUNGA DAM AND RESERVOIR



PURPOSE -
Flood Control and Conservation

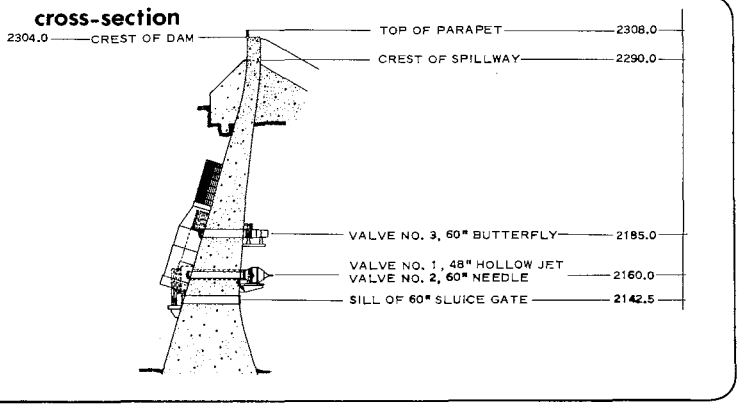
DATE CONSTRUCTED -
Started January 1930 - Completed July 1931

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 MAX-DAY CFS	MIN-DAY CFS	OUTFLOW ANNUAL AF	PEAK INFLOW MO	DAY	CFS
1932-33	4342	218	0	4518			N.D.
1933-34	4441	994	0	4234	1	1	2430
1934-35	11992	380	0	10698	4	8	718
1935-36	3875	130	0	5508	2	12	312
1936-37	26969	803	0.6	25729	2	6	1740
1937-38	64855	12030	1.0	65022	3	2	32940
1938-39	9905	327	1.2	9106	12	19	666
1939-40	7058	337	0.4	7197	1	8	2300
1940-41	59402	1200	0.9	59086	3	4	1570
1941-42	7120	70	0.8	7724	12	10	134
1942-43	52877	5700	1.1	52919	1	23	17850
1943-44	42270	2780	5.0	41722	2	22	4770
1944-45	13206	475	1.2	12231	11	11	1850
1945-46	11543	1150	0.8	12383	3	30	2310
1946-47	12987	674	0.9	12827	11	13	1690
1947-48	2679	44	0.7	3579	4	29	85
1948-49	2129	16	0.1	1645	3	11	18
1949-50	2029	32	0.2	1905	2	6	43
1950-51	841	7.7	0.1	1235	4	29	17
1951-52	27288	896	0.3	26125	1	18	2030
1952-53	3496	35	0.1	4873	11	15	108
1953-54	5389	212	0.1	5290	1	25	500
1954-55	2623	30	0.2	2282	1	18	52
1955-56	3026	233	0.4	3433	1	26	582
1956-57	1967	107	0.1	1660	1	13	283
1957-58	27558	1220	0.1	27563	4	3	2860
1958-59	3405	172	0.1	3152	1	6	213
1959-60	1183	12	0.3	1653	1	12	24
1960-61	838	14	0.4	718	11	6	35
1961-62	16711	2540	0.4	16776	2	11	5050
1962-63	1715	90	0.2	1359	2	10	237
1963-64	1526	40	0	2039	1	22	90
1964-65	2429	60	0.4	1503	4	9	165
1965-66	30772	2810	0.6	29779	12	29	10800
1966-67	30158	1180	1.6	30338	12	6	2600
1967-68	10584	352	1.0	11446	11	21	725
1968-69	107609	7800	0	106462	2	25	17800
1969-70	11643	372	1.5	11624	3	1	613
1970-71	12394	1100	2.1	11412	11	29	3970
1971-72	4118	194	0.5	3374	12	24	462
1972-73	15375	1914	0.5	14680	2	11	6320

N.D. = NOT DETERMINED

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

DAM OPERATION RECORD

Big Tujunga Dam

1972-73

GAGE HEIGHTS AND STORAGES ARE AS OF MIDNIGHT ON DAY SHOWN.

DRAINAGE AREA 82.3 SQ. MI.
CAPACITY OF RESERVOIR 6027 AC. FT.,
at SPILLWAY ELEVATION 2290 FT.,
as of October, 19 70.

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	2210.2	1157.3	0.5	5.4	2205.4	991.6	2.7	4.2	2205.7	1001.5	0.8	0.5	2213.4	1276.3	4.3	0.2	1
2	2210.0	1150.0	1.1	4.4	2205.3	988.3	2.5	4.0	2205.9	1008.1	3.7	0.2	2213.6	1284.0	4.2	0.2	2
3	2209.9	1146.4	2.9	4.4	2205.2	985.0	2.6	4.0	2206.0	1011.4	2.1	0.2	2213.7	1287.8	2.3	0.2	3
4	2209.8	1142.9	2.7	4.4	2205.0	978.4	1.0	4.0	2206.8	1038.3	13.8	0.2	2213.8	1291.6	2.3	0.2	4
5	2209.6	1135.8	0.9	4.2	2204.9	975.1	2.5	4.0	2207.2	1051.9	7.1	0.2	2214.1	1303.2	6.2	0.2	5
6	2209.4	1128.6	1.0	4.2	2204.7	968.6	1.0	4.0	2207.6	1065.7	7.3	0.2	2214.3	1311.0	4.4	0.2	6
7	2209.2	1121.5	1.2	4.4	2204.6	965.4	2.5	4.0	2208.1	1082.9	9.1	0.3	2214.4	1314.9	2.4	0.2	7
8	2209.1	1117.9	2.8	4.4	2204.4	958.9	1.0	4.0	2208.5	1096.9	7.3	0.2	2214.6	1322.7	4.2	0.2	8
9	2208.9	1110.9	1.0	4.4	2204.3	955.7	2.4	3.8	2208.8	1107.4	5.7	0.2	2215.0	1338.3	8.2	0.2	9
10	2208.7	1103.9	1.1	4.4	2204.2	952.4	2.3	3.8	2209.1	1117.9	5.5	0.2	2215.3	1350.2	6.3	0.2	10
11	2208.6	1100.4	3.0	4.6	2204.3	955.7	5.7	4.0	2209.3	1125.1	3.9	0.2	2215.5	1358.1	4.3	0.2	11
12	2208.4	1093.4	1.1	4.4	2204.2	952.4	2.5	4.0	2209.5	1132.2	3.9	0.2	2215.7	1366.0	4.4	0.2	12
13	2208.2	1086.4	1.1	4.4	2204.1	949.2	2.5	4.0	2209.7	1139.4	4.0	0.2	2215.9	1373.9	4.4	0.2	13
14	2208.1	1082.9	2.9	4.4	2204.6	965.4	12.3	4.0	2210.0	1150.1	5.7	0.2	2216.1	1381.9	4.4	0.2	14
15	2207.9	1075.9	1.1	4.4	2204.6	965.4	4.1	4.0	2210.3	1160.9	5.9	0.2	2216.3	1390.0	4.3	0.2	15
16	2207.7	1069.1	1.2	4.4	2205.5	994.9	19.1	4.0	2210.4	1164.6	2.2	0.2	2217.0	1418.2	14.6	0.3	16
17	2207.6	1065.6	2.8	4.4	2205.9	1008.1	10.7	4.0	2210.6	1171.8	4.0	0.2	2217.9	1455.0	18.8	0.2	17
18	2207.5	1062.2	2.8	4.4	2206.0	1011.4	5.7	4.0	2210.8	1179.1	4.1	0.2	2220.1	1547.0	46.9	0.5	18
19	2207.4	1058.8	2.7	4.3	2206.0	1011.4	4.1	4.0	2211.0	1186.4	4.1	0.2	2222.4	1646.7	50.5	0.2	19
20	2207.3	1055.3	2.7	4.4	2206.0	1011.4	4.2	4.0	2211.2	1193.7	4.1	0.2	2223.3	1686.7	20.4	0.2	20
21	2207.2	1051.9	2.5	4.2	2205.6	998.2	2.3	8.7	2211.4	1201.1	4.1	0.2	2223.8	1709.1	11.5	0.2	21
22	2207.0	1045.0	0.9	4.2	2205.5	994.9	2.4	3.7	2211.6	1208.5	4.1	0.2	2224.3	1731.7	11.6	0.2	22
23	2206.9	1041.6	2.7	4.2	2205.4	991.6	2.3	3.7	2211.8	1215.9	4.2	0.2	2224.7	1749.9	9.4	0.2	23
24	2206.7	1034.9	1.0	4.2	2205.3	988.3	2.3	3.7	2212.0	1223.3	4.1	0.2	2225.0	1763.6	7.1	0.2	24
25	2206.5	1028.2	1.2	4.2	2205.2	985.0	2.3	3.7	2212.2	1230.8	4.6	0.2	2225.4	1782.0	9.5	0.2	25
26	2206.4	1024.8	2.5	3.9	2205.2	985.0	4.0	3.7	2212.3	1234.6	2.5	0.2	2225.7	1795.9	7.6	0.2	26
27	2206.2	1018.1	0.9	4.2	2205.2	985.0	4.0	3.7	2212.5	1242.1	4.4	0.2	2226.0	1809.7	7.8	0.2	27
28	2206.0	1011.4	1.0	4.2	2205.4	991.6	3.8	0.2	2212.7	1249.7	4.2	0.2	2226.3	1823.7	7.5	0.2	28
29	2205.9	1008.1	3.0	4.2	2205.5	994.9	2.2	0.2	2212.9	1257.2	4.2	0.2	2226.6	1837.8	7.4	0.2	29
30	2205.7	1001.5	1.4	4.2	2205.7	1001.5	3.8	0.2	2213.1	1264.8	4.3	0.2	2226.9	1851.8	7.4	0.2	30
31	2205.5	994.9	1.1	4.2					2213.2	1268.6	2.4	0.2	2227.2	1866.0	7.6	0.2	31
TOTAL			54.8	134.6			120.8	111.3			147.4	6.6			312.2	6.6	
Inf. Ac. Ft.			108.7				239.6				292.4				619.2		
Outf. Ac. Ft.			267.0 +(14.9)				220.8 +(12.2)				13.1 +(12.3)				13.1 +(8.7)		
Max. Mean Daily Inf.			3.0				19.1				13.8				50.5		
Min. Mean Daily Inf.			0.5				1.0				0.8				2.3		
Storage Change			-173.3				6.6				267.1				597.4		

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	2227.4	1875.5	5.2	0.2	2272.4	4601.3	67.7	0.4	2276.6	4919.6	49.3	60.0	2279.7	5162.8	19.0	18.2	1
2	2227.6	1885.0	5.3	0.2	2273.8	4706.0	53.7	0.5	2276.2	4888.7	45.3	60.0	2280.0	5186.6	13.8	1.0	2
3	2228.0	1904.0	10.0	0.2	2274.9	4789.2	42.7	0.5	2276.0	4873.3	42.2	49.0	2280.5	5226.7	22.1	1.0	3
4	2228.4	1923.2	10.0	0.2	2276.0	4873.3	42.9	0.5	2275.9	4865.9	40.2	43.0	2280.8	5250.8	13.9	1.0	4
5	2228.9	1947.2	12.4	0.2	2276.4	4904.1	35.6	19.7	2275.8	4857.9	39.7	43.0	2281.2	5283.1	17.7	1.0	5
6	2231.6	2080.0	67.3	0.2	2276.3	4896.4	51.5	55.0	2275.6	4842.6	35.9	43.0	2281.6	5315.5	17.7	1.0	6
7	2237.3	2374.5	149.0	0.2	2276.4	4904.1	57.1	53.0	2275.4	4827.3	35.0	42.0	2281.9	5339.9	13.9	1.0	7
8	2239.4	2487.7	57.3	0.2	2276.2	4888.7	64.4	72.0	2275.2	4812.1	35.0	42.0	2282.3	5372.5	18.1	1.0	8
9	2240.5	2548.0	30.8	0.2	2275.1	4804.4	57.0	99.0	2274.9	4789.2	30.1	41.0	2282.7	5405.3	18.6	1.0	9
10	2243.8	2732.8	93.7	0.4	2275.0	4796.8	57.3	61.0	2274.6	4766.5	30.1	41.0	2282.9	5421.7	10.2	1.0	10
11	2287.7	5826.0	1913.5	354.0	2277.7	5005.0	107.2	2.0	2275.0	4796.8	31.5	15.5	2283.2	5446.4	14.2	1.0	11
12	2286.3	5706.0	314.6	375.0	2278.3	5052.0	91.9	68.0	2275.6	4842.7	23.9	0.3	2283.5	5471.3	14.1	1.0	12
13	2285.5	5638.2	168.0	202.0	2277.3	4973.8	81.1	120.0	2276.3	4896.4	27.8	0.3	2283.8	5496.1	14.1	1.0	13
14	2281.0	5266.9	76.1	263.0	2276.2	4888.7	72.7	115.0	2276.9	4942.7	24.0	0.3	2284.1	5520.9	13.4	0.3	14
15	2278.3	5052.0	74.8	183.0	2274.9	4789.2	65.2	115.0	2277.6	4997.2	28.3	0.3	2284.3	5537.6	9.3	0.3	15
16	2276.0	4873.3	65.4	155.0	2273.4	4676.0	58.1	115.0	2278.2	5044.1	24.4	0.3	2284.6	5562.7	14.0	0.3	16
17	2271.3	4519.9	50.3	228.0	2271.9	4564.1	58.9	115.0	2278.7	5083.5	20.8	0.3	2284.8	5579.4	9.6	0.3	17
18	2266.2	4153.0	40.4	225.0	2270.3	4446.6	56.1	115.0	2279.3	5130.9	24.9	0.3	2285.1	5604.5	13.9	0.4	18
19	2261.4	3823.1	53.1	219.0	2268.5	4316.3	47.6	113.0	2279.8	5170.7	21.3	0.3	2285.3	5621.4	9.6	0.4	19
20	2259.7	3709.8	25.5	82.0	2267.7	4259.1	84.4	113.0	2280.4	5218.7	25.6	0.3	2285.5	5638.3	9.6	0.4	20
21	2261.1	3802.9	49.5	2.0	2268.4	4309.1	69.4	44.0	2280.9	5258.9	21.1	0.3	2285.7	5655.1	9.6	0.4	21
22	2262.2	3877.0	39.3	1.5	2270.2	4439.3	66.3	0.4	2281.4	5299.3	21.3	0.3	2285.9	5672.0	9.7	0.4	22
23	2263.2	3945.0	35.4	1.0	2271.8	4556.7	60.0	0.4	2281.9	5339.9	21.3	0.3	2286.1	5689.0	9.9	0.4	23
24	2264.1	4006.7	32.0	0.7	2273.5	4683.5	64.6	0.4	2282.3	5372.6	17.2	0.3	2286.3	5706.0	9.6	0.4	24
25	2264.9	4062.1	28.5	0.5	2275.2	4812.1	65.6	0.4	2282.8	5413.5	21.8	0.3	2286.5	5723.1	9.3	0.4	25
26	2265.7	4117.9	28.7	0.3	2276.7	4927.3	58.8	0.4	2282.4	5380.8	10.4	26.0	2286.7	5740.1	10.1	0.5	26
27	2266.9	4202.3	43.0	0.2	2277.7	5005.0	57.0	17.4	2281.7	5323.7	18.0	46.0	2286.9	5757.2	10.2	0.5	27
28	2270.6	4468.5	134.6	0.2	2277.6	4997.2	56.3	60.0	2281.0	5266.9	17.7	46.0	2287.0	5765.7	6.0	0.5	28
29					2277.4	4981.6	52.8	60.0	2280.3	5210.7	18.0	46.0	2287.2	5782.9	10.1	0.5	29
30					2277.2	4966.0	52.7	60.0	2279.7	5162.8	22.4	46.0	2287.3	5791.5	5.7	0.5	30
31					2276.9	4942.7	48.6	60.0					2287.5	5808.7	9.7	0.5	31
TOTAL			3613.7	2294.6			1905.2	1656.0			824.5	693.7			386.7	37.6	
Inf. Ac. Ft.			7167.7				3778.9				1635.4				767.0		
Outf. Ac. Ft.			4551.3 +(13.9)				3284.6 +(20.2)				1375.9 +(39.4)				74.6 +(46.6)		
Max. Mean Daily Inf.			1913.5				107.2				49.3				22.1		
Min. Mean Daily Inf.			5.2				35.6				10.4				5.7		
Storage Change			2602.5				474.2				220.1				645.9		

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	2287.7	5826.0	9.6	0.6	2290.1	6035.7	4.3	0.9	2290.0	6026.9	2.0	0.9	2235.4	2274.2	[1.9	77.0	1
2	2287.9	5843.2	9.7	0.7	2290.1	6035.7	2.8	0.9	2290.0	6026.9	2.1	0.9	2232.5	2125.2	1.9	75.0	2
3	2288.0	5851.9	5.4	0.7	2290.1	6035.7	2.9	0.9	2290.0	6026.9	2.1	0.9	2229.5	1976.4	1.9	75.0	3
4	2288.2	5869.3	10.4	0.8	2290.1	6035.7	3.1	0.9	2290.0	6026.9	1.9	0.9	2228.3	1918.4	1.9	34.0	4
5	2288.4	5886.6	10.8	0.9	2290.1	6035.7	2.1	0.9	2290.0	6026.9	2.1	0.9	2227.9	1899.2	1.9	9.0	5
6	2288.5	5895.4	6.4	0.7	2290.1	6035.7	1.9	0.9	2290.0	6026.9	2.0	0.9	2227.6	1885.0	1.9	9.0	6
7	2288.6	5904.1	6.4	0.7	2290.1	6035.7	2.0	0.9	2290.0	6026.9	2.1	0.9	2227.2	1866.0	1.9	9.0	7
8	2288.7	5912.8	6.4	0.7	2290.1	6035.7	2.1	0.9	2290.0	6026.9	2.1	0.9	2226.9	1851.8	1.9	9.0	8
9	2288.8	5921.5	6.2	0.7	2290.1	6035.7	2.3	0.9	2288.7	5912.8	[3.4	54.0	2226.6	1837.8	1.9	9.0	9
10	2288.9	5930.2	5.9	0.7	2290.1	6035.7	2.2	0.9	2287.0	5765.7	3.4	83.0	2226.3	1823.7	1.9	9.0	10
11	2289.0	5938.9	6.1	0.7	2290.1	6035.7	2.1	0.9	2285.2	5613.0	3.4	83.0	2225.9	1805.1	1.9	9.0	11
12	2289.1	5947.7	6.0	0.7	2290.1	6035.7	2.1	0.9	2283.3	5454.7	3.4	83.0	2225.6	1791.2	1.9	9.0	12
13	2289.2	5956.5	6.0	0.7	2290.1	6035.7	2.1	0.9	2281.7	5323.7	3.4	78.0	2225.3	1777.4	1.9	9.0	13
14	2289.2	5956.5	1.6	0.7	2290.1	6035.7	1.8	0.9	2279.8	5170.7	3.4	76.0	2224.8	1754.5	1.9	13.7	14
15	2289.3	5965.3	6.2	0.8	2290.1	6035.7	2.0	0.9	2278.1	5036.3	3.4	75.0	2224.3	1731.7	1.9	11.4	15
16	2289.4	5974.1	5.9	0.7	2290.1	6035.7	2.0	0.9	2276.2	4888.7	3.4	75.0	2223.9	1713.6	1.9	11.4	16
17	2289.5	5982.9	6.1	0.7	2290.1	6035.7	2.0	0.9	2274.2	4736.2	3.4	76.0	2223.5	1695.6	1.9	11.4	17
18	2289.6	5991.7	6.6	0.7	2290.1	6035.7	2.0	0.9	2272.3	4593.8	3.4	73.0	2223.1	1677.7	1.9	11.4	18
19	2289.7	6000.5	6.6	0.7	2290.1	6035.7	2.3	0.9	2270.3	4446.6	3.4	73.0	2222.6	1655.5	1.9	11.4	19
20	2289.7	6000.5	1.7	0.7	2290.1	6035.7	2.1	0.9	2268.0	4280.5	3.4	84.0	2222.2	1637.9	1.9	11.4	20
21	2289.8	6009.3	6.9	0.7	2290.1	6035.7	2.0	0.9	2265.5	4103.9	3.4	91.0	2221.8	1620.4	1.9	11.4	21
22	2289.8	6009.3	2.6	0.7	2290.1	6035.7	2.0	0.9	2262.8	3917.8	3.4	95.0	2221.3	1598.6	1.9	11.4	22
23	2289.8	6009.3	2.3	0.7	2290.1	6035.7	2.3	0.9	2260.0	3729.6	3.4	94.0	2220.9	1581.3	1.8	11.4	23
24	2289.8	6009.3	2.2	0.7	2290.1	6035.7	2.5	0.9	2257.4	3559.4	3.4	89.0	2220.5	1564.1	1.8	11.4	24
25	2289.8	6009.3	1.8	0.7	2290.1	6035.7	2.4	0.9	2254.8	3393.2	3.4	89.0	2220.0	1542.7	1.8	11.4	25
26	2289.9	6018.0	6.1	0.7	2290.1	6035.7	2.3	0.9	2252.2	3230.8	3.4	87.0	2219.5	1521.6	1.8	10.8	26
27	2289.9	6018.0	1.8	0.7	2290.1	6035.7	2.2	0.9	2249.6	3072.4	3.4	85.0	2219.1	1504.7	1.8	10.8	27
28	2289.9	6018.0	1.7	0.7	2290.1	6035.7	2.1	0.9	2246.9	2912.1	3.4	85.0	2218.7	1488.1	1.8	10.2	28
29	2290.0	6026.9	6.8	0.8	2290.0	6031.3	1.5	0.9	2244.1	2749.9	3.4	83.0	2218.2	1467.3	1.8	10.2	29
30	2290.0	6031.3	4.2	0.9	2290.0	6026.9	1.5	0.9	2241.3	2592.2	3.4	82.0	2217.7	1446.8	1.8	10.2	30
31					2290.0	6026.9	2.0	0.9	2238.3	2428.1	3.3	82.0					31
TOTAL			166.4	21.6			69.0	27.9			94.5	1877.2			56.2	533.3	
Inf. Ac. Ft.			330.0				136.9				187.4				111.5		
Outf. Ac. Ft.			42.8 +(64.7)				55.3 +(85.9)				3723.4 +(62.9)				1057.8 +(34.9)		
Max. Mean Daily Inf.			10.8				3.1				3.4				1.9		
Min. Mean Daily Inf.			1.6				1.5				1.9				1.8		
Storage Change			222.6				- 4.4				- 3598.8				- 981.3		

Max. W.S. Elev. 2290.1 feet on 7/1 thru 7/28 Storage 6035.7 Acre-Feet

Min. W.S. Elev. 2204.1 feet on 11/13/72 Storage 949.2 Acre-Feet

Max. Peak Inf. 6320 CFS from 0500 on 2/11/73 to 0520 on 2/11/73

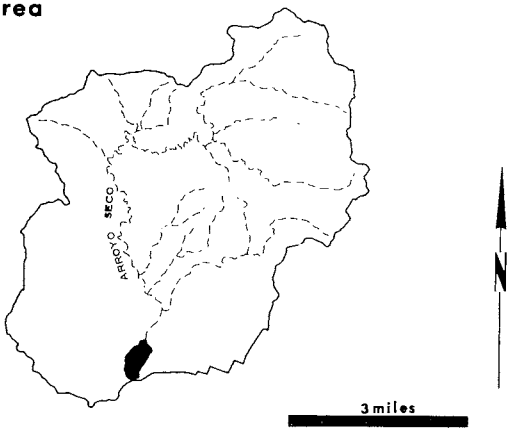
Max. Peak Outf. 1012 CFS from 1900 on 2/11/73 to 2000 on 2/11/73

REMARKS: ( ) Indicates evaporation losses.

[Indicates average for period

DEVIL'S GATE DAM AND RESERVOIR

drainage area



PURPOSE -
Flood Control and Conservation

DATE CONSTRUCTED -
Started May 1919 - completed June 1920

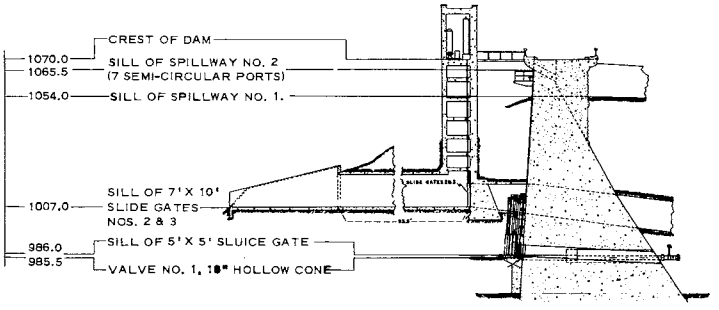
LOCATION -
On Arroyo Seco, northwest of Pasadena

DRAINAGE AREA - 31.9 square miles

CAPACITY - 1,928 acre-feet

SPILLWAY ELEVATION - 1,054.0 feet

cross-section



DEVILS GATE DAM

YEARLY RESERVOIR OPERATION SUMMARY

SEASON	ANNUAL AF	INFLOW MAX-DAY CFS	MIN-DAY CFS	OUTFLOW ANNUAL AF	PEAK INFLOW MO	DAY	CFS
1933-34	2938	757	0	0	1	1	3310
1934-35	3843	N.D.	0	N.D.	10	17	1310
1935-36	3457	N.D.	0	86	2	2	939
1936-37	12030	340	0	2818	2	6	852
1937-38	25436	3720	0	17496	3	2	10840
1938-39	3044	200	0	634	12	19	201
1939-40	1350	142	0	745	1	8	859
1940-41	27013	1380	0	24582	2	20	3870
1941-42	689	91	0	443	12	10	479
1942-43	25655	2560	0	23552	1	23	7740
1943-44	8680	1450	0	7905	2	22	2310
1944-45	2341	288	0	2031	11	11	949
1945-46	2994	435	0	1343	12	22	1040
1946-47	4045	285	0	3949	12	25	1280
1947-48	260	32	0	57	3	24	444
1948-49	185	14	0	37	3	10	59
1949-50	318	37	0	81	2	6	237
1950-51	171	18	0	17	1	11	468
1951-52	11508	792	0	11377	1	16	2650
1952-53	563	51	0	194	11	15	823
1953-54	1324	178	0	488	1	25	565
1954-55	651	50	0	154	1	18	334
1955-56	2229	591	0	1339	1	26	1420
1956-57	926	111	0	142	2	23	795
1957-58	9642	447	0	6508	4	3	1020
1958-59	1055	160	0	465	1	6	1280
1959-60	1052	40	0	131	1	11	329
1960-61	1035	131	0	488	11	6	1260
1961-62	7014	970	0	5260	2	11	1840
1962-63	1215	289	0	251	2	9	1290
1963-64	860	81	0	170	1	21	727
1964-65	1721	170	0	246	4	9	755
1965-66	15667	1340	0	13199	11	22	3740
1966-67	16391	934	0	6057	12	6	2130
1967-68	6858	698	0	2233	11	19	1310
1968-69	44817	4220	0	39164	1	25	7910
1969-70	2109	202	0	1311	3	4	534
1970-71	3098	682	0	1894	11	29	1760
1971-72	798	152	0	+	12	24	433
1972-73	8298	1517	0	5615	2	11	3520

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

1972-73

DRAINAGE AREA 31.9 SQ. MI.
CAPACITY OF RESERVOIR 2186 AC. FT.,
at SPILLWAY ELEVATION 1054.0 FT.,
as of November, 19 73 *

GAGE HEIGHTS AND STORAGES ARE AS OF MIDNIGHT ON DAY SHOWN.

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	1014.0	8.5	0	0	1014.1	8.6	0	0	1028.3	187.4	0	0.5	1031.6	297.9	0	0.4	1
2	1014.0	8.5	0	0	1014.1	8.6	0	0	1028.2	184.3	0	0.5	1031.5	294.3	0	0.3	2
3	1014.0	8.5	0	0	1014.1	8.6	0	0	1028.2	184.3	1.4	0.5	1031.4	290.7	0	0.3	3
4	1014.0	8.5	0	0	1014.1	8.6	0	0	1031.9	308.6	64.4	0.5	1031.4	290.7	1.5	0.3	4
5	1014.0	8.5	0	0	1014.1	8.6	0	0	1032.0	312.2	3.5	0.5	1031.3	287.1	0	0.3	5
6	1014.0	8.5	0	0	1014.1	8.6	0	0	1032.5	331.1	11.3	0.5	1031.2	283.5	0	0.3	6
7	1014.0	8.5	0	0	1014.1	8.6	0	0	1033.7	377.9	25.7	0.5	1031.1	279.9	0	0.3	7
8	1014.0	8.5	0	0	1014.1	8.6	0	0	1033.9	385.9	6.2	0.5	1031.0	276.4	0	0.3	8
9	1014.0	8.5	0	0	1014.1	8.6	0	0	1033.7	377.9	0.1	0.5	1031.3	287.1	6.9	0.3	9
10	1014.0	8.5	0	0	1014.1	8.6	0	0	1033.6	373.9	0.1	0.5	1031.3	287.1	1.5	0.3	10
11	1014.0	8.5	0	0	1022.2	43.4	18.6	0.5	1033.5	369.9	0.1	0.5	1031.3	287.1	1.5	0.3	11
12	1014.0	8.5	0	0	1021.8	38.8	0	0.5	1033.4	365.9	0.1	0.5	1031.2	283.5	1.5	0.3	12
13	1014.0	8.5	0	0	1021.5	35.9	0	0.5	1033.3	361.9	0.1	0.5	1031.2	283.5	1.5	0.3	13
14	1014.0	8.5	0	0	1025.5	107.1	37.2	0.5	1033.2	357.9	0.1	0.5	1031.2	283.5	1.5	0.3	14
15	1014.0	8.5	0	0	1025.3	102.0	0	0.5	1033.1	353.9	0.1	0.5	1031.2	283.5	1.5	0.3	15
16	1014.0	8.5	0	0	1029.1	212.6	57.2	0.5	1033.0	349.9	0	0.5	1034.3	402.8	62.2	0.3	16
17	1014.0	8.5	0	0	1029.7	232.2	11.4	0.5	1032.9	346.1	0	0.4	1034.6	415.7	8.7	0.3	17
18	1014.0	8.5	0	0	1029.6	229.0	0	0.5	1032.8	342.4	0	0.4	1040.9	778.4	188.1	0.3	18
19	1014.0	8.5	0	0	1029.5	225.7	0	0.5	1032.8	342.4	1.9	0.4	1041.3	808.6	20.8	0.3	19
20	1014.0	8.5	0	0	1029.4	222.4	0	0.5	1032.7	338.6	0	0.4	1041.1	793.3	1.2	0.3	20
21	1014.0	8.5	0	0	1029.2	215.8	0	0.5	1032.6	334.8	0	0.4	1040.9	778.4	1.1	0.3	21
22	1014.0	8.5	0	0	1029.1	212.6	0	0.5	1032.5	331.1	0	0.4	1040.8	771.2	1.5	0.3	22
23	1014.0	8.5	0	0	1029.0	209.3	0	0.5	1032.4	327.3	0	0.4	10407	764.1	1.5	0.3	23
24	1014.0	8.5	0	0	1028.9	206.2	0	0.5	1032.3	323.5	0	0.4	1040.5	749.8	1.2	0.3	24
25	1014.0	8.5	0	0	1028.8	203.0	0	0.5	1032.2	319.7	0	0.4	1040.3	735.5	1.2	0.3	25
26	1014.0	8.5	0	0	1028.7	199.9	0	0.5	1032.2	319.7	1.8	0.4	1040.1	721.1	1.2	0.3	26
27	1014.0	8.5	0	0	1028.6	196.8	0	0.5	1032.1	316.0	0	0.4	1039.9	707.4	1.2	0.3	27
28	1014.0	8.5	0	0	1028.5	193.6	0	0.5	1032.0	312.2	0	0.4	1039.8	700.7	1.2	0.3	28
29	1014.0	8.5	0	0	1028.5	193.6	1.4	0.5	1031.9	308.6	0	0.4	1039.7	694.1	1.1	0.3	29
30	1014.0	8.5	0	0	1028.4	190.5	0	0.5	1031.8	305.0	0	0.4	1039.7	694.1	4.4	0.3	30
31	1014.0	8.5	0	0					1031.7	301.4	0	0.4	1039.7	694.1	4.4	0.3	31
TOTAL			0	0			126.1	10.0			116.8	14.0			318.3	9.4	
Inf. Ac. Ft.			0				250.1				231.7				631.3		
Outf. Ac. Ft.			0 + (0)				19.8 + (48.4)				27.8 + (93.0)				18.6 + (220.0)		
Max. Mean Daily Inf.			0				57.2				64.4				188.1		
Min. Mean Daily Inf.			0				0				0				0		
Storage Change			0				181.9				110.9				392.7		

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	1039.6	687.5	1.0	0.3	1044.2	1052.3	22.8	0.3	1047.1	1343.2	1.8	0.3	1041.8	847.1	2.1	0.3	1
2	1039.6	687.5	4.3	0.3	1044.2	1052.3	8.8	0.3	1046.8	1311.7	0.9	0.3	1041.6	831.7	1.6	0.3	2
3	1040.2	728.3	25.2	0.3	1044.2	1052.3	8.8	0.3	1046.6	1290.4	1.5	0.3	1041.4	816.3	1.5	0.3	3
4	1040.2	728.3	4.6	0.3	1044.1	1042.9	3.9	0.3	1046.4	1269.4	1.2	0.3	1041.3	808.6	1.7	0.3	4
5	1040.7	764.1	23.0	0.3	1044.0	1033.5	3.8	0.3	1046.1	1238.0	0.4	0.3	1041.2	800.9	1.6	0.3	5
6	1042.1	870.7	59.9	0.3	1044.4	1071.2	28.1	0.3	1045.9	1217.6	0.9	0.3	1041.1	793.3	1.5	0.3	6
7	1046.0	1227.6	191.3	0.3	1044.4	1071.2	9.1	0.3	1045.7	1197.6	0.8	0.3	1041.0	785.6	1.4	0.3	7
8	1046.0	1227.6	11.4	0.3	1045.6	1187.6	69.4	0.3	1045.5	1177.[illegible]	0.6	0.3	1040.9	778.4	1.5	0.3	8
9	1045.8	1207.6	0.8	0.3	1045.8	1207.6	21.1	0.3	1045.3	1157.[illegible]	0.4	0.3	1040.8	771.2	1.4	0.3	9
10	1049.9	1660.5	245.1	0.3	1045.8	1207.6	11.0	0.3	1045.1	1137.[illegible]	0	0.3	1040.6	756.9	0.8	0.3	10
11	1055.5	2398.3	1517.0	1120.0	1048.3	1475.4	149.7	0.3	1044.9	1118.[illegible]	0	0.3	1040.4	742.6	0.8	0.3	11
12	1053.6	2131.3	219.4	332.0	1048.4	1486.[illegible]	37.2	17.0	1044.7	1099.5	0.1	0.3	1040.3	735.5	1.2	0.3	12
13	1050.3	1708.7	91.2	287.0	1047.9	1430.5	18.3	33.0	1044.5	1080.6	0	0.3	1040.2	728.3	1.1	0.3	13
14	1045.8	1207.6	22.1	264.0	1047.4	1375.9	17.5	42.0	1044.4	1071.2	4.3	0.3	1040.1	721.1	1.0	0.3	14
15	1043.8	1015.8	33.1	122.0	1046.8	1311.3	15.6	36.0	1044.3	1061.[illegible]	5.1	0.3	1039.9	707.4	0.3	0.3	15
16	1043.5	989.3	55.1	61.0	1046.4	1269.4	15.4	25.0	1044.1	1042.9	0	0.3	1039.8	700.[illegible]	1.1	0.3	16
17	1042.8	928.5	42.0	66.0	1046.2	1248.5	17.6	1[illegible].0	1043.9	1024.6	0	0.3	1039.7	694.1	1.1	0.3	17
18	1041.7	839.4	27.6	67.0	1045.9	1217.6	12.3	17.0	1043.7	1006.9	0	0.3	1039.6	687.5	1.0	0.3	18
19	1040.2	728.3	16.3	68.0	1045.8	1207.6	10.7	5.0	1043.5	989.[illegible]	0	0.3	1039.4	674.2	0.3	0.3	19
20	1029.6	687.5	9.3	26.0	1047.4	1375.9	98.2	0.3	1043.[illegible]	971.[illegible]	0	0.3	1039.3	667.6	0.8	0.3	20
21	1029.5	680.8	7.6	0.3	1048.2	1464.1	58.9	0.3	1043.1	[illegible]	0	0.3	1039.2	660.9	0.8	0.3	21
22	1029.4	674.2	5.9	0.3	1048.3	1475.4	20.4	0.3	1042.9	[illegible]	0	0.3	1039.0	647.7	0.3	0.3	22
23	1029.2	660.9	4.0	0.3	1048.2	1464.1	8.8	0.3	1042.7	[illegible]	0	0.3	1038.9	641.6	0.7	0.2	23
24	1029.2	660.9	4.0	0.3	1048.2	1464.1	14.5	0.3	1042.5	[illegible]	0	0.3	1038.8	635.5	0.6	0.2	24
25	1029.2	660.9	4.0	0.3	1048.1	1452.7	6.7	0.3	1042.4	[illegible]	2.8	0.3	1038.7	629.4	0.6	0.2	25
26	1029.2	660.9	4.0	0.3	1048.0	1441.4	8.5	0.3	1042.3	887.2	2.5	0.3	1038.5	617.2	0.4	0.2	26
27	1041.5	824.0	87.9	0.3	1047.9	1430.5	2.[illegible]	0.3	1042.2	[illegible]	2.4	0.3	1038.4	611.1	0.4	0.2	27
28	1043.9	1024.6	109.2	0.3	1047.8	1419.6	9.3	0.2	1042.1	[illegible]	2.[illegible]	0.3	1038.3	605.0	0.4	0.2	28
29					1047.6	1397.8	2.6	0.3	1042.0	862.5	2.0	0.3	1038.2	598.9	0.3	0.2	29
30					1047.4	1375.9	2.4	0.3	1041.9	854.6	2.[illegible]	0.3	1038.0	586.8	0.1	0.2	30
31					1047.3	1365.0	2.2	0.3					1037.9	581.2	0.5	0.2	31
TOTAL			2826.2	2418.4			728.5	188.9			31.6	9.0			28.8	8.4	
Inf. Ac. Ft.			5605.7				1445.0				62.7				57.1		
Outf. Ac. Ft.			4796.8 + (478.4)				374.7 + (729.9)				17.9 + (555.0)				16.7 + (314.2)		
Max. Mean Daily Inf.			1517.0				149.7				4.3				2.1		
Min. Mean Daily Inf.			0.8				2.3				0				0.3		
Storage Change			330.5				340.4				- 510.2				- 273.6		

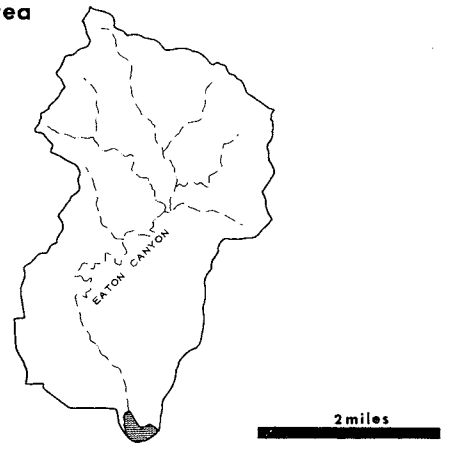
Day	JUNE				JULY				AUGUST				SEPTEMBER				Day
	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	
1	1037.8	575.6	0.4	0.2	1034.1	394.2	0.1	0.1			0	0			0	0	1
2	1037.7	570.0	0.3	0.2	1033.9	385.9	0.1	0.1			0	0			0	0	2
3	1037.6	564.4	0.2	0.2	1033.8	381.9	0.1	0.1			0	0			0	0	3
4	1037.5	558.8	0.2	0.2	1033.7	377.9	0.1	0.1			0	0			0	0	4
5	1037.4	553.2	0.2	0.2	1033.6	373.9	0.1	0.1			0	0			0	0	5
6	1037.3	547.6	0.2	0.2	1033.4	365.9	0.1	0.1			0	0			0	0	6
7	1037.2	542.0	0.1	0.2	1033.3	361.9	0.1	0.1			0	0			0	0	7
8	1037.0	530.9	0.1	0.2	1033.2	357.9	0.1	0.1			0	0			0	0	8
9	1036.8	520.6	0.1	0.2	1033.1	353.9	0.1	0.1			0	0			0	0	9
10	1036.7	515.5	0.2	0.2	1032.9	346.1	0.1	0.1			0	0			0	0	10
11	1036.6	510.4	0.1	0.2	1032.1	316.0	0.1	11.0			0	0			0	0	11
12	1036.5	505.3	0.1	0.2	1030.5	259.2	0.1	28.0			0	0			0	0	12
13	1036.4	500.1	0.1	0.2	1028.8	203.0	0.1	27.0			0	0			0	0	13
14	1036.3	495.0	0.1	0.2	1026.9	145.4	0.1	29.0			0	0			0	0	14
15	1036.2	489.9	0.1	0.2	1024.7	87.6	0.1	27.0			0	0			0	0	15
16	1036.0	479.7	0.1	0.2	1021.2	33.0	0.1	27.0			0	0			0	0	16
17	1035.9	475.0	0.1	0.1	987.3	0	0.1	16.8	No Storage		0	0	No Storage		0	0	17
18	1035.8	470.3	0.1	0.1	987.3	0	0.1	0.1			0	0			0	0	18
19	1035.6	461.0	0.1	0.1	987.3	0	0.1	0.1			0	0			0	0	19
20	1035.5	456.3	0.1	0.1	987.3	0	0.1	0.1			0	0			0	0	20
21	1035.4	451.6	0.1	0.1	987.3	0	0.1	0.1			0	0			0	0	21
22	1035.2	442.3	0.1	0.1	987.3	0	0.1	0.1			0	0			0	0	22
23	1035.1	437.6	0.1	0.1	987.3	0	0.1	0.1			0	0			0	0	23
24	1035.0	432.9	0.1	0.1	987.3	0	0.1	0.1			0	0			0	0	24
25	1034.9	428.6	0.1	0.1	987.3	0	0.1	0.1			0	0			0	0	25
26	1034.8	424.3	0.1	0.1	987.3	0	0.1	0.1			0	0			0	0	26
27	1034.6	415.7	0.1	0.1	987.3	0	0.1	0.1			0	0			0	0	27
28	1034.5	411.4	0.1	0.1	987.3	0	0.1	0.1			0	0			0	0	28
29	1034.4	407.1	0.1	0.1	987.3	0	0.1	0.1			0	0			0	0	29
30	1034.3	402.8	0.1	0.1	987.3	0	0.1	0.1			0	0			0	0	30
31					987.3	0	0.1	0.1			0	0					31
TOTAL			4.0	4.6			3.1	168.2			0	0			0	0	
Inf. Ac. Ft.			7.9				6.1				0				0		
Outf. Ac. Ft.			9.1 + (177.1)				333.4 + (75.4)				0 + (0)				0 + (0)		
Max. Mean Daily Inf.			0.4				0.2				0				0		
Min. Mean Daily Inf.			0.1				0.1				0				0		
Storage Change			- 178.3				- 402.8				0				0		

Max. W.S. Elev.	1058.2	feet	on 2/11/73		Storage	2507.2	Acre-Feet	
Min. W.S. Elev.	986.0	feet	on 7/17/73 - 9/30/73		Storage	0	Acre-Feet	
Max. Peak Inf.	3520	CFS from	0200	on 2/11/73	to	0300	on	2/11/73
Max. Peak Outf.	2200	CFS from	0800	on 2/11/73	to	0900	on	2/11/73

REMARKS: ( ) Indicates percolation losses
* Storage table 17 was used to compute the 1972-73 water-year as it more accurately represented the reservoir capacity.

EATON WASH DAM AND RESERVOIR

drainage area



PURPOSE -
Debris Storage and Conservation

DATE CONSTRUCTED -
Started January 1936 - Completed February 1937

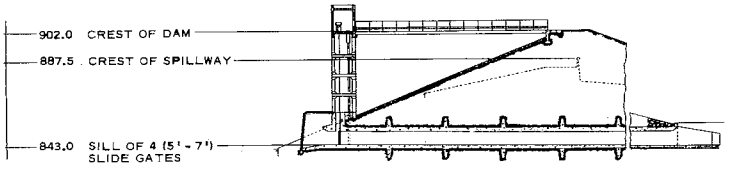
LOCATION -
Eaton Wash, northeast of Pasadena

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	PEAK INFLOW MO	DAY	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

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 Wash Dam

1972-73

DRAINAGE AREA 12.42 SQ. MI.
CAPACITY OF RESERVOIR 783.9 AC. FT.,
at SPILLWAY ELEVATION 887.5 FT.,
as of January, 19 74

GAGE HEIGHTS AND STORAGES ARE AS OF MIDNIGHT ON DAY SHOWN.

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	842.0	0	0	0	851.4	19.1	0	0	850.1	13.0	0	0	1
2			0	0	842.0	0	0	0	851.2	18.0	0	0	849.9	12.2	0	0	2
3			0	0	842.0	0	0	0	851.0	17.0	0.1	0	849.7	11.4	0	0	3
4			0	0	842.0	0	0	0	854.6	39.2	12.1	0	849.6	11.1	0	0	4
5			0	0	842.0	0	0	0	854.3	37.0	0.1	0	849.4	10.3	0	0	5
6			0	0	842.0	0	0	0	854.4	37.7	1.6	0	849.2	9.5	0	0	6
7			0	0	842.0	0	0	0	855.1	43.1	3.8	0	849.0	8.8	0	0	7
8			0	0	842.0	0	0	0	854.9	41.5	0.3	0	848.9	8.5	0	0	8
9			0	0	842.0	0	0	0	854.7	40.0	0	0	848.9	8.5	0.2	0	9
10			0	0	842.0	0	0	0	854.5	38.5	0	0	848.8	8.2	0	0	10
11			0	0	842.0	0	0	0	854.2	36.2	0	0	848.6	7.5	0.1	0	11
12			0	0	849.6	11.1	6.7	0	854.0	34.7	0	0	848.4	6.9	0	0	12
13			0	0	849.1	9.2	0.5	0	853.8	33.4	0	0	848.2	6.3	0	0	13
14			0	0	848.8	8.2	1.0	0	853.6	32.0	0	0	848.0	5.6	0	0	14
15			0	0	852.6	25.7	10.3	0	853.4	30.7	0	0	847.8	5.2	0	0	15
16			0	0	852.1	22.7	0.5	0	853.2	29.4	0	0	854.3	37.0	17.1	0	16
17			0	0	854.7	40.0	10.0	0	853.0	28.0	0	0	854.1	35.5	0.2	0	17
18			0	0	854.6	39.2	0.6	0	852.8	26.9	0	0	861.9	116.7	43.0	0	18
19			0	0	854.3	37.0	0.2	0	852.6	25.7	0	0	862.4	123.9	5.8	0	19
20			0	0	854.0	34.7	0	0	852.4	24.5	0	0	862.0	118.1	0.1	0	20
21			0	0	853.7	32.7	0	0	852.2	23.3	0	0	861.7	114.0	0	0	21
22			0	0	853.5	31.4	0.3	0	852.0	22.1	0	0	861.4	110.0	0	0	22
23			0	0	853.2	29.4	0	0	851.8	21.1	0	0	861.2	107.3	0	0	23
24			0	0	853.0	28.0	0	0	851.6	20.1	0.1	0	860.9	103.4	0	0	24
25			0	0	852.8	26.9	0	0	851.4	19.1	0	0	860.7	100.9	0	0	25
26			0	0	852.6	25.7	0	0	851.2	18.0	0	0	860.5	98.4	0	0	26
27			0	0	852.4	24.5	0.1	0	851.0	17.0	0.1	0	860.3	95.9	0	0	27
28			0	0	852.2	23.3	0	0	850.8	16.1	0	0	860.1	93.4	0	0	28
29			0	0	852.0	22.1	0	0	850.6	15.2	0	0	859.9	91.0	0	0	29
30			0	0	851.8	21.1	0	0	850.4	14.3	0.1	0	859.9	91.0	0.3	0	30
31			0	0					850.3	13.9	0	0	859.7	88.7	0	0	31
TOTAL			0	0			30.2				18.3	0			67.0	0	
Inf. Ac. Ft.			0				59.9				36.3				132.9		
Outf. Ac. Ft.			0	+(0)			0	+(38.9)			0	+(43.6)			0	+(58.1)	
Max. Mean Daily Inf.			0				10.3				12.1				43.0		
Min. Mean Daily Inf.			0				0				0				0		
Storage Change			0				21.1				-7.2				74.8		

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	859.5	86.3	0.3	0	884.9	769.0	13.1	11.1	884.4	748.4	10.1	10.4	851.5	19.6	[2.9	4.9	1
2	859.4	85.2	0.9	0	884.6	756.7	13.0	11.1	884.0	732.0	10.0	10.4	851.9	21.6	3.0]	4.9	2
3	860.1	93.4	5.8	0	884.1	736.1	8.6	11.1	883.2	699.8	9.3	17.9	852.9	27.5	3.2	0	3
4	860.0	92.2	1.0	0	883.7	719.9	10.7	11.1	882.1	656.4	8.3	22.9	853.7	32.7	3.0	0	4
5	860.2	94.7	2.8	0	883.3	703.8	11.7	11.1	881.0	614.3	8.3	22.5	854.6	38.2	3.8	0	5
6	861.9	116.7	13.1	0	883.4	707.8	20.8	11.1	879.9	573.5	7.8	21.6	855.0	42.2	2.1	0	6
7	868.8	240.8	66.7	0	883.2	699.8	14.6	11.1	878.8	533.8	7.7	21.4	855.3	44.7	2.0	0	7
8	869.5	256.6	12.3	0	883.6	715.9	27.0	11.1	877.7	495.2	7.7	21.2	855.7	48.1	2.5	0	8
9	869.6	258.9	5.5	0	883.4	707.8	14.2	11.1	876.5	454.2	6.3	21.2	856.0	50.6	2.1	0	9
10	873.3	353.4	51.3	0	883.1	695.7	12.6	11.1	875.4	417.9	8.2	21.2	856.3	53.4	2.2	0	10
11	887.9	896.2	532.2	247.0	885.0	773.1	58.4	11.1	874.1	377.0	5.4	21.1	856.6	56.2	2.3	0	11
12	887.8	891.9	130.3	121.0	885.7	802.4	34.3	11.1	873.0	344.7	7.7	19.3	856.8	58.0	1.8	0	12
13	887.7	887.6	85.3	76.0	886.1	819.2	28.1	11.1	871.8	312.4	6.2	18.1	857.1	60.9	2.4	0	13
14	887.7	887.6	64.4	54.0	886.3	827.7	24.0	11.1	870.6	282.5	6.6	17.7	857.4	62.9	2.0	0	14
15	886.8	848.9	44.6	53.0	886.3	827.7	19.7	11.1	869.4	254.3	6.7	17.2	857.6	65.8	2.6	0	15
16	886.2	823.4	29.8	32.0	886.3	827.7	19.7	11.1	868.0	223.3	4.7	17.0	857.8	67.8	2.1	0	16
17	886.3	827.7	12.9	0	886.1	819.2	15.3	11.1	866.7	196.9	6.2	16.5	857.9	68.8	1.7	0	17
18	886.2	823.4	86.5	0	886.0	814.9	17.5	11.1	865.2	168.8	3.8	15.2	858.1	70.9	2.2	0	18
19	886.2	823.4	10.7	0	885.7	802.4	13.2	11.1	863.6	142.0	3.2	14.3	858.3	73.1	2.3	0	19
20	886.1	819.2	8.6	0	886.8	848.9	42.3	10.0	862.3	122.4	2.6	10.4	858.4	74.1	1.7	0	20
21	885.9	810.7	12.3	6.0	886.9	853.1	19.5	8.5	861.6	112.7	3.3	6.2	858.6	76.3	2.4	0	21
22	885.3	785.7	9.3	11.6	886.9	853.1	15.6	6.7	860.9	103.4	3.1	6.0	858.7	77.4	1.8	0	22
23	884.9	769.0	9.3	7.5	886.8	848.9	17.1	10.4	860.1	93.4	2.6	6.0	858.8	78.4	1.8	0	23
24	884.4	748.4	6.1	6.6	886.7	844.6	17.0	10.4	859.4	85.2	3.2	6.0	858.9	79.5	1.9	0	24
25	884.0	732.0	8.1	6.6	886.5	836.2	14.9	10.4	858.5	75.2	2.2	5.8	859.0	80.6	1.9	0	25
26	883.4	707.8	6.2	8.8	886.3	827.7	14.7	10.4	857.6	65.8	3.0	5.7	859.1	81.7	2.0	0	26
27	884.0	732.0	33.1	11.1	886.1	819.2	14.7	10.4	856.5	55.3	1.1	5.5	859.2	82.9	2.0	0	27
28	885.2	781.5	45.3	11.1	885.8	806.6	12.6	10.4	855.4	45.6	1.2	5.3	859.3	84.1	2.0	0	28
29					885.5	794.0	12.5	10.4	854.5	38.5	2.1	5.1	859.3	84.1	1.4	0	29
30					885.2	781.5	12.4	10.4	853.3	30.0	1.0	4.9	859.4	85.2	2.0	0	30
31					884.8	764.9	10.0	10.4					859.5	86.4	2.0	0	31
TOTAL			1218.7	651.3			579.2	329.7			158.6	414.2			69.4	9.8	
Inf. Ac. Ft.			2417.2				1148.8				314.6				137.7		
Outf. Ac. Ft.			1291.8	+(432.6)			654.0	+(511.5)			821.6	+(227.9)			19.4	+(61.9)	
Max. Mean Daily Inf.			532.2				58.4				10.1				3.8		
Min. Mean Daily Inf.			0.3				8.6				1.0				1.4		
Storage Change			692.8				-16.6				-734.8				56.3		

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	859.6	87.5	2.1	0			0.1	0.1			0	0			0	0	1
2	859.7	88.7	2.2	0			0.1	0.1			0	0			0	0	2
3	859.7	88.7	1.6	0			0.1	0.1			0	0			0	0	3
4	859.8	89.9	2.2	0			0.1	0.1			0	0			0	0	4
5	859.8	89.9	1.6	0			0.1	0.1			0	0			0	0	5
6	859.9	91.0	2.1	0			0.1	0.1			0	0			0	0	6
7	859.9	91.0	1.6	0			0.1	0.1			0	0			0	0	7
8	859.9	91.0	1.6	0			0.1	0.1			0	0			0	0	8
9	859.9	91.0	1.6	0			0.1	0.1			0	0			0	0	9
10	860.0	92.2	2.2	0			0.1	0.1			0	0			0	0	10
11	859.6	87.5	1.3	2.1			+	+			0	0			0	0	11
12	858.8	78.4	1.0	2.8			+	+			0	0			0	0	12
13	857.6	65.8	0.8	2.8			+	+			0	0			0	0	13
14	856.2	52.4	0.6	4.9			+	+			0	0			0	0	14
15	854.8	40.7	0.5	4.4			+	+			0	0			0	0	15
16	853.1	28.7	0.3	4.0			+	+			0	0			0	0	16
17	849.8	11.8	0.2	3.6			+	+			0	0			0	0	17
18	846.6	2.8	0.1	0.1			+	+			0	0			0	0	18
19	842.0	0	0.1	0.1			+	+			0	0			0	0	19
20	842.0	0	0.1	0.1			+	+			0	0			0	0	20
21	842.0	0	0.1	0.1			+	+			0	0			0	0	21
22	842.0	0	0.1	0.1			+	+			0	0			0	0	22
23	842.0	0	0.1	0.1			+	+			0	0			0	0	23
24	842.0	0	0.1	0.1			+	+			0	0			0	0	24
25	842.0	0	0.1	0.1			+	+			0	0			0	0	25
26	842.0	0	0.1	0.1			+	+			0	0			0	0	26
27	842.0	0	0.1	0.1			+	+			0	0			0	0	27
28	842.0	0	0.1	0.1			+	+			0	0			0	0	28
29	842.0	0	0.1	0.1			+	+			0	0			0	0	29
30	842.0	0	0.1	0.1			+	+			0	0			0	0	30
31							+	+			0	0			0	0	31
TOTAL			24.8	28.1			1.0	1.0			0	0			0	0	
Inf. Ac. Ft.			49.2				2.0				0				0		
Outf. Ac. Ft.			55.7	+(79.9)			2.0	+(0)			0	+(0)			0	+(0)	
Max. Mean Daily Inf.			2.2				0				0				0		
Min. Mean Daily Inf.			0.1				0				0				0		
Storage Change			-86.4				0				0				0		

Max. W.S. Elev. 888.37 feet on 2/11/73 Storage 916.7 Acre-Feet

Min. W.S. Elev. DRY feet on @ TIMES Storage - Acre-Feet

Max. Peak Inf. 587 CFS from 0800 on 2/11/73 to 0900 on 2/11/73

Max. Peak Outf. 535 CFS from 0800 on 2/11/73 to 0900 on 2/11/73

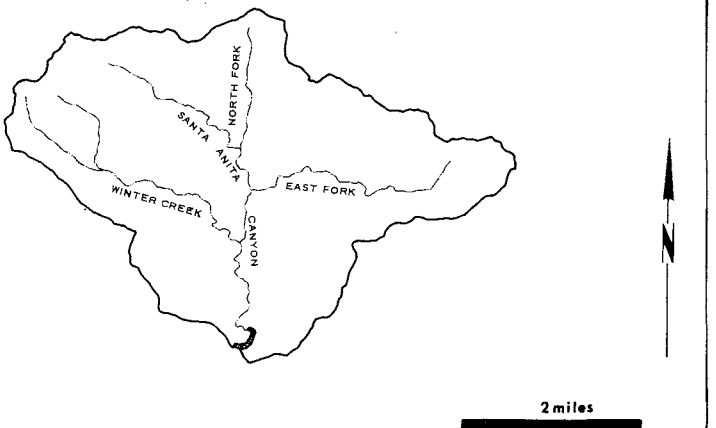
REMARKS:

( ) Indicates Percolation Losses

[Indicates average for period

SANTA ANITA DAM
AND RESERVOIR

drainage area



PURPOSE -
Flood Control and Conservation

DATE CONSTRUCTED -
Started October 1924 - Completed March 1927

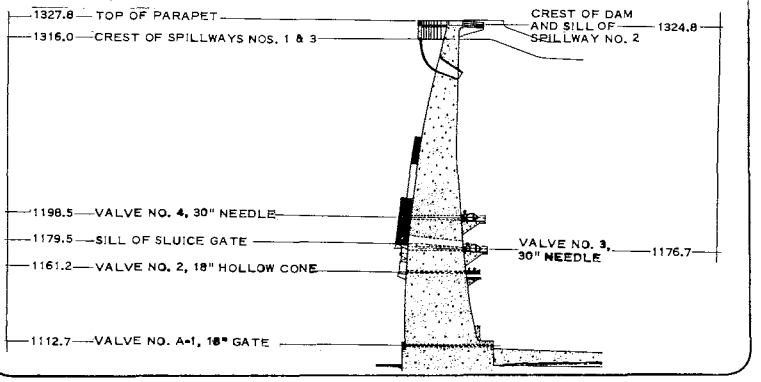
LOCATION - 2.5 miles north of Arcadia

DRAINAGE AREA - 10.8 square miles

CAPACITY - 836 acre-feet

SPILLWAY ELEVATION - 1,316.0 feet

cross-section



SANTA ANITA DAM

YEARLY RESERVOIR OPERATION SUMMARY

SEASON	INFLOW ANNUAL AF	INFLOW MAX-DAY CFS	MIN-DAY CFS	OUTFLOW ANNUAL AF	PEAK INFLOW 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	19	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	19	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	19440	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	6.5	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	29	1920
1966-67	16245	645	1.5	16261	12	6	1520
1967-68	3376	56	0.1	3579	11	19	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	29	674
1971-72	1316	36	0.5	1249	12	24	99
1972-73	6414	482	0.4	6258	2	11	1350

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

DAM OPERATION RECORD

Santa Anita Dam

1972-73

DRAINAGE AREA 10.6 SQ. MI.
CAPACITY OF RESERVOIR 836.0 AC. FT.,
at SPILLWAY ELEVATION 1316.0 FT.,
as of November, 19 70.

GAGE HEIGHTS AND STORAGES ARE AS OF MIDNIGHT ON DAY SHOWN.

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	1247.1	171.5	0.7	0.1	1253.3	209.0	0.4	0.1	1267.7	315.7	1.4	0.1	1258.8	246.3	1.2	0.1	1
2	1247.2	172.1	0.4	0.1	1253.5	210.3	0.8	0.1	1267.9	317.4	1.0	0.1	1259.1	248.4	1.2	0.1	2
3	1247.4	173.3	0.7	0.1	1253.7	211.6	0.8	0.1	1268.1	319.1	1.0	0.1	1259.4	250.5	1.1	0.1	3
4	1247.6	174.4	0.7	0.1	1253.9	212.9	0.8	0.1	1269.5	330.9	6.0	0.1	1259.8	253.5	1.6	0.1	4
5	1247.8	175.6	0.7	0.1	1254.1	214.7	0.8	0.1	1270.5	339.5	4.4	0.1	1260.0	254.9	0.9	0.1	5
6	1248.0	176.7	0.7	0.1	1254.3	215.5	0.8	0.1	1271.1	344.7	2.8	0.1	1260.3	257.2	1.3	0.1	6
7	1248.1	177.3	0.4	0.1	1254.5	216.8	0.8	0.1	1272.4	356.0	5.7	0.1	1260.6	259.4	1.3	0.1	7
8	1248.3	178.5	0.7	0.1	1254.7	218.2	0.8	0.1	1273.2	363.1	3.7	0.1	1261.0	262.4	1.6	0.1	8
9	1248.5	179.6	0.7	0.1	1254.9	219.5	0.8	0.1	1273.9	369.4	3.2	0.1	1261.4	265.4	1.6	0.1	9
10	1248.6	180.2	0.4	0.1	1255.2	221.4	1.1	0.1	1274.4	373.9	2.4	0.1	1261.8	268.4	1.7	0.1	10
11	1248.8	181.3	0.7	0.1	1255.8	225.5	2.2	0.1	1270.9	342.9	0.9	16.4	1262.2	271.5	1.7	0.1	11
12	1249.0	182.5	0.7	0.1	1256.2	228.1	1.4	0.1	1263.1	278.4	0.8	33.0	1262.6	274.6	1.7	0.1	12
13	1249.2	183.7	0.7	0.1	1256.6	230.9	1.5	0.1	1254.5	216.8	1.2	32.0	1262.9	276.9	1.3	0.1	13
14	1249.4	184.9	0.8	0.1	1257.7	238.5	3.9	0.1	1251.4	197.0	2.6	12.5	1263.2	279.2	1.4	0.1	14
15	1249.6	186.1	0.7	0.1	1258.5	244.1	3.0	0.1	1252.0	200.8	2.0	0.1	1263.5	281.6	1.3	0.1	15
16	1249.8	187.3	0.7	0.1	1260.9	261.6	8.9	0.1	1252.6	204.6	2.0	0.1	1265.0	293.5	6.1	0.1	16
17	1250.0	188.5	0.7	0.1	1262.5	273.8	6.3	0.1	1253.1	207.8	1.7	0.1	1267.2	311.6	9.2	0.1	17
18	1250.2	189.7	0.7	0.1	1263.2	280.0	3.1	0.1	1253.6	211.0	1.7	0.1	1273.2	363.1	28.1	0.1	18
19	1250.4	190.9	0.7	0.1	1263.9	284.8	2.5	0.1	1254.0	213.6	1.4	0.1	1278.0	407.2	22.2	0.1	19
20	1250.6	192.1	0.7	0.1	1264.5	289.5	2.5	0.1	1254.5	216.8	1.8	0.1	1279.6	422.5	7.8	0.1	20
21	1250.9	194.0	1.0	0.1	1264.7	291.1	1.7	0.8	1254.9	219.5	1.5	0.1	1280.7	433.1	5.5	0.1	21
22	1251.2	195.8	1.1	0.1	1265.1	294.4	1.8	0.1	1255.3	222.1	1.5	0.1	1281.6	441.9	4.6	0.1	22
23	1251.5	197.6	1.0	0.1	1265.4	296.8	1.4	0.1	1255.8	225.5	1.8	0.1	1282.3	448.7	3.6	0.1	23
24	1251.7	198.9	0.8	0.1	1265.8	300.1	1.8	0.1	1256.2	228.2	1.5	0.1	1279.4	420.5	1.1	15.0	24
25	1251.9	200.2	0.8	0.1	1266.1	302.5	1.4	0.1	1256.5	230.2	1.1	0.1	1273.9	369.4	1.0	27.0	25
26	1252.2	202.0	1.0	0.1	1266.4	305.0	1.4	0.1	1256.9	233.0	1.6	0.1	1268.1	319.9	1.0	26.0	26
27	1252.4	203.3	0.8	0.1	1266.7	307.4	1.4	0.1	1257.2	235.0	1.2	0.1	1262.2	272.3	1.0	25.0	27
28	1252.6	204.6	0.8	0.1	1266.9	309.1	1.0	0.1	1257.6	237.8	1.5	0.1	1256.1	228.2	1.8	24.0	28
29	1252.8	205.8	0.7	0.1	1267.2	311.6	1.4	0.1	1257.9	239.9	1.2	0.1	1253.9	212.9	1.8	9.4	29
30	1253.0	207.1	0.8	0.1	1267.4	313.2	1.0	0.1	1258.2	242.0	1.2	0.1	1254.6	217.5	2.4	0.1	30
31	1253.2	208.4	0.8	0.1					1258.5	244.1	1.2	0.1	1255.4	222.1	2.5	0.1	31
TOTAL			23.3	3.1			57.6	3.7			63.0	96.6			118.8	128.9	
Inf. Ac. Ft.			46.2				114.2				125.0				235.6		
Outf. Ac. Ft.			6.1 +(2.0)				7.3 +(2.2)				191.6 +(2.4)				255.7 +(2.0)		
Max. Mean Daily Inf.			1.1				8.9				6.0				26.1		
Min. Mean Daily Inf.			0.4				0.4				0.8				1.0		
Storage Change			38.0				104.8				- 69.1				- 22.0		

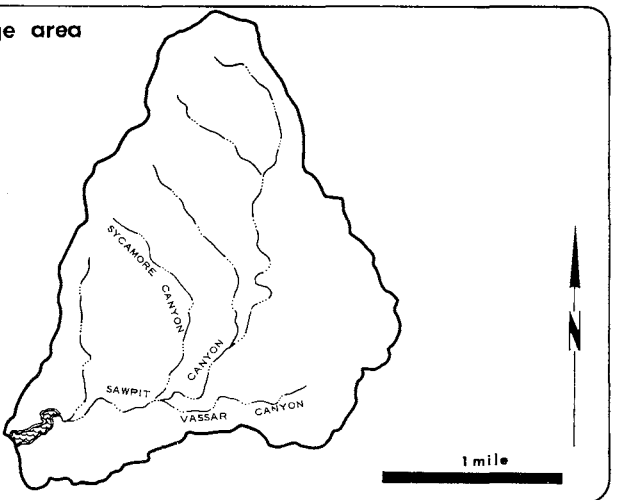
Day	FEBRUARY				MARCH				APRIL				MAY				Day
	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	
1	1256.2	228.2	2.2	0.1	1311.7	779.9	21.8	11.6	1308.3	737.3	24.3	23.0	1265.5	297.6	6.8	18.0	1
2	1256.8	232.3	2.2	0.1	1311.5	777.4	18.4	19.7	1307.1	722.2	22.6	30.0	1263.4	280.8	6.6	15.0	2
3	1257.8	239.2	3.6	0.1	1311.3	774.8	18.5	19.7	1306.6	716.0	19.6	22.0	1261.3	264.6	6.9	15.0	3
4	1258.8	246.3	3.7	0.1	1311.1	772.3	17.8	19.0	1309.2	748.2	16.3	0.1	1261.4	265.4	7.9	7.5	4
5	1259.6	252.0	3.0	0.1	1310.9	769.7	16.8	18.0	1310.3	762.1	13.7	6.7	1263.2	283.2	9.1	0.1	5
6	1264.1	286.3	17.4	0.1	1312.4	788.9	27.6	18.0	1309.5	752.0	16.0	21.0	1265.9	300.9	9.0	0.1	6
7	1276.4	392.2	53.7	0.1	1313.9	808.3	26.7	17.0	1307.9	732.1	16.1	26.0	1267.8	316.6	8.0	0.1	7
8	1279.2	418.6	21.6	8.3	1312.2	786.3	39.0	50.0	1306.3	712.4	15.2	25.0	1269.5	330.9	7.4	0.1	8
9	1278.5	412.0	11.3	14.6	1308.4	738.3	20.0	44.0	1304.7	692.9	14.3	24.0	1271.2	345.5	7.5	0.1	9
10	1286.0	485.8	52.8	15.6	1308.4	738.3	22.1	22.0	1303.3	676.2	14.7	23.0	1272.8	359.5	7.2	0.1	10
11	1304.8	694.1	483.2	378.0	1314.9	821.4	63.9	22.0	1301.8	658.5	12.1	21.0	1274.4	373.9	7.4	0.1	11
12	1301.5	655.0	85.4	105.0	1310.8	768.4	41.3	68.0	1300.3	641.1	12.3	21.0	1276.1	389.4	7.9	0.1	12
13	1303.9	683.3	61.2	47.0	1303.0	641.1	32.0	96.0	1298.8	623.9	12.4	21.0	1277.7	404.4	7.6	0.1	13
14	1307.7	729.6	45.4	22.0	1297.2	605.8	34.2	52.0	1297.2	605.9	12.0	21.0	1279.2	418.6	7.3	0.1	14
15	1310.2	760.8	37.6	22.0	1298.5	620.5	24.4	27.0	1295.6	588.1	12.1	21.0	1280.7	433.1	7.4	0.1	15
16	1311.5	777.4	30.3	22.0	1299.2	628.5	26.1	22.0	1294.6	579.6	12.2	21.0	1282.0	445.8	6.5	0.1	16
17	1312.3	787.6	27.2	22.0	1299.8	635.3	29.5	26.0	1292.4	553.1	12.3	21.0	1283.2	457.7	6.5	0.1	17
18	1312.8	794.1	25.3	22.0	1300.0	637.6	27.2	26.0	1290.	534.9	11.8	21.0	1284.4	469.6	6.2	0.1	18
19	1313.2	799.3	24.0	22.0	1299.9	636.4	24.4	25.0	1289.	516.9	12.0	21.0	1285.5	480.7	5.7	0.1	19
20	1313.4	801.9	20.0	18.6	1302.4	665.5	39.6	25.0	128.2	498.1	11.6	21.0	1286.7	493.0	6.3	0.1	20
21	1312.4	788.9	14.6	21.0	1303.7	681.0	32.8	25.0	1285.3	478.7	10.3	20.0	1285.2	477.7	5.0	12.6	21
22	1310.3	762.1	13.5	23.0	1305.0	696.6	31.9	24.0	1283.4	459.6	10.5	20.0	1281.8	443.8	6.0	23.0	22
23	1308.2	735.8	11.8	25.0	1306.1	710.0	30.8	24.0	1281.5	440.9	9.6	19.0	1278.1	408.2	4.2	22.0	23
24	1306.1	710.0	11.6	24.0	1306.9	719.8	29.0	24.0	12 9.4	420.6	7.8	18.0	1274.7	376.6	5.3	21.0	24
25	1303.8	682.2	10.0	24.0	1307.3	724.7	25.5	23.0	1277.	404.4	9.7	18.0	1279.5	421.5	1.6	14.1	25
26	1301.6	655.0	9.4	23.0	1307.7	729.6	25.3	23.0	1275.	385.8	7.7	17.0	1274.4	373.9	6.8	0.1	26
27	1302.0	660.8	28.0	25.0	1307.9	732.1	24.3	23.0	1273.	364.0	5.1	16.0	1275.9	387.6	7.0	0.1	27
28	1310.1	759.6	49.9	0.1	1308.1	734.6	24.3	23.0	12 1.2	347.2	7.6	16.0	1277.1	398.7	5.8	0.1	28
29					1308.1	734.6	22.1	23.0	1269.6	330.9	7.9	16.0	1278.2	409.1	5.5	0.1	29
30					1308.0	733.3	22.4	23.0	1267.5	314.0	7.4	16.0	1279.3	419.6	5.5	0.1	30
31					1308.1	734.6	23.6	23.0					1280.4	430.2	5.5	0.1	31
TOTAL			1160.9	888.9			874.6	886.0			376.6	586.8			207.5	147.4	
Inf. Ac. Ft.			2302.6				1734.7				747.0				411.6		
Outf. Ac. Ft.			1763.1 +(1.9)				1757.4 +(2.4)				1163.9 +(3.7)				292.4 +(2.9)		
Max. Mean Daily Inf.			483.7				63.9				24.3				9.1		
Min. Mean Daily Inf.			2.2				16.8				5.1				4.2		
Storage Change			537.5				- 25.0				- 420.6				116.2		

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	1281.6	441.9	6.0	0.1	1268.3	320.8	3.3	0.1	1262.5	273.8	2.6	0.1	1276.7	395.1	2.1	0.1	1
2	1282.7	452.7	5.6	0.1	1269.0	326.6	3.1	0.1	1263.1	278.5	2.5	0.1	1277.0	397.8	1.6	0.1	2
3	1283.8	463.6	5.6	0.1	1269.7	332.6	3.1	0.1	1263.8	283.9	2.9	0.1	1277.4	401.6	2.0	0.1	3
4	1284.8	473.7	5.2	0.1	1270.3	337.7	2.8	0.1	1264.4	288.7	2.6	0.1	1277.7	404.4	1.6	0.1	4
5	1285.7	482.8	4.7	0.1	1271.0	343.7	3.1	0.1	1265.1	294.3	2.9	0.1	1278.1	408.2	2.0	0.1	5
6	1286.6	492.0	4.8	0.1	1271.7	349.9	3.6	0.1	1265.6	298.4	2.1	0.1	1278.5	412.0	2.1	0.1	6
7	1287.5	501.2	4.9	0.1	1272.4	356.0	3.3	0.1	1266.2	303.3	2.6	0.1	1278.8	414.8	1.6	0.1	7
8	1288.3	509.6	4.4	0.1	1273.1	362.2	3.3	0.1	1266.8	308.3	2.6	0.1	1279.2	416.6	2.1	0.1	8
9	1289.1	517.9	4.4	0.1	1273.7	367.6	2.9	0.1	1267.3	312.4	2.3	0.1	1279.5	421.5	1.6	0.1	9
10	1289.8	525.3	3.9	0.1	1274.3	373.0	2.9	0.1	1267.8	316.6	2.3	0.1	1279.9	425.4	1.4	0.1	10
11	1287.8	504.3	4.1	14.6	1274.9	378.5	2.9	0.1	1268.3	320.8	2.3	0.1	1277.3	400.6	1.4	13.0	11
12	1284.0	465.6	4.5	24.0	1275.5	384.0	2.9	0.1	1268.7	324.1	1.9	0.1	1273.1	362.2	1.4	21.0	12
13	1280.2	428.3	5.3	24.0	1276.1	389.5	3.0	0.1	1269.2	328.4	2.3	0.1	1268.7	324.1	1.4	20.0	13
14	1276.2	390.4	4.0	23.0	1276.7	395.0	3.0	0.1	1269.6	331.8	1.9	0.1	1266.0	301.6	1.3	12.4	14
15	1274.0	370.3	4.3	14.4	1277.3	400.7	3.0	0.1	1270.0	335.2	1.9	0.1	1266.5	305.8	1.3	0.1	15
16	1275.1	380.2	5.2	0.1	1277.8	405.4	2.5	0.1	1270.5	339.4	2.3	0.1	1266.9	309.1	1.3	0.1	16
17	1276.0	388.6	4.4	0.1	1278.4	411.0	3.0	0.1	1270.9	342.9	2.0	0.1	1267.4	313.2	1.4	0.1	17
18	1272.8	359.5	2.7	17.2	1278.9	415.8	2.6	0.1	1271.3	346.4	1.9	0.1	1262.7	275.4	1.4	19.5	18
19	1267.6	314.9	5.6	28.0	1279.5	421.5	3.0	0.1	1271.7	349.9	2.0	0.1	1259.6	252.0	1.4	12.1	19
20	1261.6	266.9	3.9	28.0	1280.0	426.3	2.6	0.1	1272.1	353.4	2.0	0.1	1260.0	254.9	1.4	0.1	20
21	1259.2	249.1	4.9	13.7	1280.5	431.2	2.6	0.1	1272.6	357.8	2.4	0.1	1260.5	258.6	2.0	0.1	21
22	1260.1	255.7	3.5	0.1	1281.1	437.0	3.1	0.1	1272.9	360.5	1.5	0.1	1261.0	262.4	2.0	0.1	22
23	1261.2	263.2	4.3	0.1	1278.3	409.1	1.7	12.7	1273.3	364.0	2.0	0.1	1261.5	266.1	2.0	0.1	23
24	1262.1	270.7	3.7	0.1	1273.3	364.0	5.4	28.0	1273.6	366.7	1.5	0.1	1262.1	270.7	2.4	0.1	24
25	1263.0	277.7	3.7	0.1	1268.4	321.6	6.7	28.0	1274.0	370.3	2.0	0.1	1262.6	274.6	2.1	0.1	25
26	1263.8	284.0	3.3	0.1	1262.6	274.5	4.3	28.0	1274.4	373.9	2.0	0.1	1263.0	277.7	1.8	0.1	26
27	1264.7	291.1	3.8	0.1	1259.2	249.1	4.3	17.6	1274.8	377.6	2.0	0.1	1263.5	281.6	2.2	0.1	27
28	1265.7	299.2	4.2	0.1	1259.9	254.2	2.8	0.1	1275.2	381.2	2.0	0.1	1263.9	284.8	1.8	0.1	28
29	1266.7	307.4	4.3	0.1	1260.6	259.4	2.8	0.1	1275.6	384.9	2.0	0.1	1264.2	287.1	1.3	0.1	29
30	1267.5	314.1	3.5	0.1	1261.3	264.4	2.7	0.1	1276.0	388.6	2.0	0.1	1264.5	289.5	1.4	0.1	30
31					1261.9	269.1	2.6	0.1	1276.3	391.3	1.6	0.1					31
TOTAL			132.7	189.1			100.9	121.3			66.9	3.1			50.8	100.4	
Inf. Ac. Ft.			263.2				200.1				132.7				100.8		
Outf. Ac. Ft.			375.1 + (4.1)				240.6 + (4.6)				6.1 +(4.3)				199.1 +(3.5)		
Max. Mean Daily Inf.			6.0				6.7				2.9				2.4		
Min. Mean Daily Inf.			2.8				2.5				1.5				1.3		
Storage Change			- 116.1				-45.0				122.2				- 101.8		

Max. W.S. Elev. 1314.8 feet on 3/8/73 Storage 820 Acre-Feet
Min. W.S. Elev. 1246.9 feet on 10/1/72 Storage 170 Acre-Feet
Max. Peak Inf. 1350. CFS from 0400 on 2/11/73 to 0430 on 2/11/73
Max. Peak Outf. 620 CFS from 0530 on 2/11/73 to 1400 on 2/11/73

REMARKS: ( ) Indicates evaporation losses.
[ ] Indicates average for period.

SAWPIT DAM AND RESERVOIR



PURPOSE -
Flood Control and Conservation

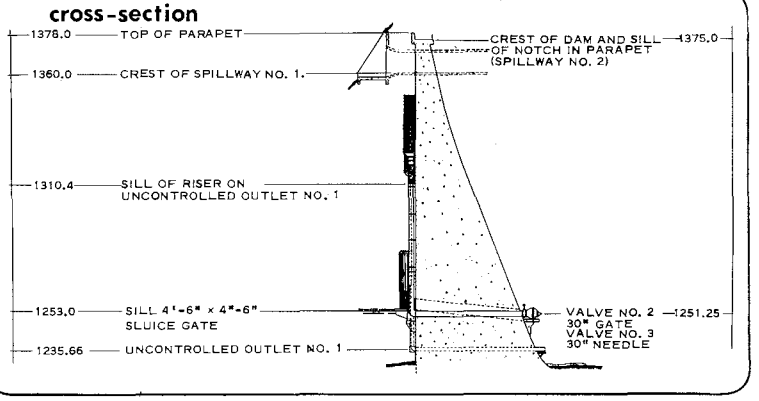
DATE CONSTRUCTED -
Started March 1926 - Completed June 1927

LOCATION - 2.0 miles north of Monrovia

DRAINAGE AREA - 3.2 square miles

CAPACITY - 391 acre-feet

SPILLWAY ELEVATION - 1,360.0 feet



SAWPIT DAM

YEARLY RESERVOIR OPERATION SUMMARY

SEASON	ANNUAL AF	INFLOW MAX-DAY CFS	MIN-DAY CFS	OUTFLOW ANNUAL AF	PEAK INFLOW MO	DAY	CFS
1927-28	26	N.D.	0	39			N.D.
1928-29	96	5.3	0	108			N.D.
1929-30	219	7.9	0	208			N.D.
1930-31	97	3.9	0	68			N.D.
1931-32	710	56	0	726	2	9	76
1932-33	184	8.6	0	185			N.D.
1933-34	468	106	0	457	1	1	240
1934-35	548	36	0	540	4	8	168
1935-36	574	22	0	574	2	11	72
1936-37	1434	36	0	1401			N.D.
1937-38	2909	384	0	2868	3	2	1070
1938-39	232	17	0	170			N.D.
1939-40	264	11	0	308	1	8	39
1940-41	2180	63	0	2195	3	4	109
1941-42	107	3.7	0	39	12	29	4.8
1942-43	2966	162	0	2950	1	23	520
1943-44	747	73	0	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	0	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	88	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	48
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	19	32
1968-69	7555	635	0.9	9498	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

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

Sawpit Dam

1972-73

DRAINAGE AREA 3.24 SQ. MI.
CAPACITY OF RESERVOIR 391.0 AC. FT.,
at SPILLWAY ELEVATION 1360 FT.,
as of November, 19 69.

GAGE HEIGHTS AND STORAGES ARE AS OF MIDNIGHT ON DAY SHOWN.

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	1310.4	89.5	0.8	0.8	1310.2	88.8	0.9	0.9	1310.4	89.5	0.8	0.8	1310.4	89.5	0.5	0.5	1
2	1310.4	89.5	0.8	0.8	1310.2	88.8	0.7	0.7	1310.4	89.5	0.8	0.8	1310.4	89.5	0.5	0.5	2
3	1310.4	89.5	0.8	0.8	1310.3	89.2	0.9	0.6	1310.4	89.5	0.8	0.8	1310.4	89.5	0.5	0.5	3
4	1310.4	89.5	0.8	0.8	1310.3	89.2	0.6	0.6	1310.5	89.9	1.7	1.5	1310.4	89.5	0.5	0.5	4
5	1310.4	89.5	0.8	0.8	1310.4	89.5	0.7	0.6	1310.4	89.5	1.0	1.2	1310.4	89.5	0.5	0.5	5
6	1310.4	89.5	0.5	0.5	1310.5	89.9	0.8	0.6	1310.4	89.5	1.2	1.2	1310.4	89.5	0.5	0.5	6
7	1310.4	89.5	0.7	0.7	1310.5	89.9	0.7	0.7	1310.4	89.5	1.3	1.3	1310.4	89.5	0.5	0.5	7
8	1310.4	89.5	0.8	0.8	1310.4	89.5	0.6	0.8	1310.4	89.5	1.2	1.2	1310.4	89.5	0.5	0.5	8
9	1310.4	89.5	0.8	0.8	1310.3	89.2	0.6	0.8	1310.4	89.5	1.2	1.2	1310.4	89.5	0.6	0.6	9
10	1310.4	89.5	0.7	0.7	1310.4	89.5	0.8	0.7	1310.4	89.5	1.1	1.1	1310.4	89.5	0.6	0.6	10
11	1310.4	89.5	0.7	0.7	1310.9	91.4	1.8	1.8	1310.4	89.5	1.0	1.0	1310.4	89.5	0.6	0.6	11
12	1310.8	91.3	0.6	1.7	1310.8	91.0	1.5	1.7	1310.4	89.5	1.0	1.0	1310.4	89.5	0.6	0.6	12
13	1309.6	86.6	0.6	0.9	1310.4	89.5	1.0	1.8	1310.4	89.5	0.8	0.8	1310.4	89.5	0.6	0.6	13
14	1309.8	87.3	0.8	0.5	1310.8	91.0	2.7	1.9	1310.4	89.5	0.8	0.8	1310.4	89.5	0.6	0.6	14
15	1310.2	88.8	1.2	0.5	1310.7	90.6	1.7	1.9	1310.4	89.5	0.7	0.7	1310.4	89.5	0.6	0.6	15
16	1310.4	89.5	1.2	0.8	1311.2	92.5	2.9	1.9	1310.4	89.5	0.7	0.7	1310.6	90.3	2.4	2.0	16
17	1310.4	89.5	1.1	1.1	1310.3	89.2	1.5	3.2	1310.4	89.5	0.7	0.7	1310.5	89.9	2.1	2.3	17
18	1310.4	89.5	1.1	1.1	1310.4	89.5	1.2	1.1	1310.4	89.5	0.7	0.7	1310.9	91.3	7.3	6.6	18
19	1310.0	88.1	0.7	1.4	1310.4	89.5	1.2	1.2	1310.4	89.5	0.7	0.7	1310.6	90.3	3.5	4.0	19
20	1309.9	87.7	0.8	1.0	1310.4	89.5	1.1	1.1	1310.4	89.5	0.7	0.7	1310.5	89.9	1.7	1.9	20
21	1310.3	89.1	0.7	0	1310.4	89.5	1.0	1.0	1310.4	89.5	0.5	0.5	1310.5	89.9	1.7	1.7	21
22	1310.4	89.5	0.8	0.6	1310.4	89.5	0.9	0.9	1310.4	89.5	0.5	0.5	1310.4	89.5	1.3	1.5	22
23	1310.4	89.5	0.8	0.8	1310.4	89.5	0.9	0.9	1310.4	89.5	0.5	0.5	1310.4	89.5	1.3	1.3	23
24	1310.4	89.5	0.8	0.8	1310.4	89.5	0.9	0.9	1310.4	89.5	0.5	0.5	1310.4	89.5	1.2	1.2	24
25	1310.2	88.8	0.6	1.0	1310.4	89.5	0.9	0.9	1310.4	89.5	0.4	0.4	1310.4	89.5	1.1	1.1	25
26	1310.1	88.5	0.4	0.5	1310.4	89.5	0.8	0.8	1310.4	89.5	0.4	0.4	1310.4	89.5	1.0	1.0	26
27	1310.4	89.5	0.7	0.4	1310.4	89.5	0.8	0.8	1310.4	89.5	0.4	0.4	1310.4	89.5	1.0	1.0	27
28	1310.6	90.3	1.0	0.6	1310.4	89.5	0.8	0.8	1310.4	89.5	0.5	0.5	1310.4	89.5	1.0	1.0	28
29	1310.5	89.9	0.8	1.0	1310.4	89.5	0.8	0.8	1310.4	89.5	0.5	0.5	1310.4	89.5	1.0	1.0	29
30	1310.2	88.8	0.6	1.2	1310.4	89.5	0.8	0.8	1310.4	89.5	0.5	0.5	1310.4	89.5	1.0	1.0	30
31	1310.1	88.4	0.6	0.8					1310.4	89.5	0.5	0.5	1310.4	89.5	1.0	1.0	31
TOTAL			24.1	24.7			32.5	31.9			24.1	24.1			37.8	37.8	
Inf. Ac. Ft.			47.8				64.5				47.8				75.0		
Outf. Ac. Ft.			49.0				63.3				47.8				75.0		
Max. Mean Daily Inf.			1.2				2.9				1.7				7.3		
Min. Mean Daily Inf.			0.4				0.6				0.4				0.5		
Storage Change			- 1.1				1.1				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	1310.4	89.5	1.0	1.0	1310.5	89.9	3.8	3.9	1310.6	90.3	3.7	3.5			1.6	1.6	1
2	1310.4	89.5	1.0	1.0	1310.5	89.9	3.5	3.5	1310.6	90.3	3.2	3.2			1.6	1.6	2
3	1310.4	89.5	1.1	1.2	1310.5	89.9	3.8	3.2	1310.6	90.3	2.8	2.8			1.6	1.6	3
4	1310.4	89.5	1.1	1.1	1310.5	89.9	3.0	3.0	1310.5	89.9	2.4	2.6			1.6	1.6	4
5	1310.5	89.9	1.3	1.1	1310.5	89.9	2.7	2.9	1310.5	89.9	2.7	2.7			1.6	1.6	5
6	1310.6	90.3	2.8	2.6	1310.7	90.6	4.4	4.0	1310.5	89.9	2.6	2.6			1.6	1.6	6
7	1310.6	90.3	6.1	6.1	1310.5	89.9	3.8	4.2	1310.5	89.9	2.6	2.6			1.5	1.5	7
8	1310.6	89.9	3.9	4.1	1310.6	90.3	5.6	5.4	1310.5	89.9	2.6	2.6			1.5	1.5	8
9	1310.5	89.9	3.5	3.5	1310.6	90.3	4.7	4.7	1310.5	89.9	2.6	2.6			1.5	1.5	9
10	1311.0	91.7	5.6	4.7	1310.6	90.3	4.2	4.5	1310.5	89.9	2.6	2.6			1.5	1.5	10
11	1329.9	178.7	93.5	90.0	1311.0	91.7	11.3	10.6	1310.5	89.9	2.6	2.6			1.5	1.5	11
12	1316.1	111.9	14.6	48.0	1310.8	91.0	10.0	10.4	1310.5	89.9	2.6	2.6			1.5	1.5	12
13	1310.8	91.0	15.6	26.0	1310.7	90.6	8.6	8.8	1310.5	89.9	2.7	2.7			1.5	1.5	13
14	1310.8	91.0	10.1	10.1	1310.6	90.3	7.5	7.6	1310.5	89.9	2.7	2.7			1.4	1.4	14
15	1310.7	90.6	8.4	8.6	1310.6	90.3	6.8	6.8	1310.6	90.3	2.8	2.7			1.4	1.4	15
16	1310.7	90.6	6.8	6.8	1310.6	90.3	6.3	6.3	1310.5	89.9	2.5	2.6			1.4	1.4	16
17	1310.7	90.6	5.9	5.9	1310.6	90.3	5.8	5.8	1310.5	89.9	2.6	2.6			1.4	1.4	17
18	1310.6	90.3	5.0	5.2	1310.6	90.3	5.4	5.4	1310.5	89.9	2.6	2.6			1.4	1.4	18
19	1310.6	90.3	4.7	4.7	1310.6	90.3	5.0	5.0	1308.9	84.2	1.4	4.3			1.4	1.4	19
20	1310.6	90.3	4.5	4.5	1310.6	90.3	7.8	7.8	1307.2	78.4	0.7	3.6			1.4	1.4	20
21	1310.5	89.9	4.0	4.2	1310.7	90.6	6.5	6.3	1306.0	74.3	0.8	2.9			1.3	1.3	21
22	1310.5	89.9	4.1	4.1	1310.6	90.3	6.1	6.3	1304.8	70.5	0.9	2.8			1.3	1.3	22
23	1310.4	89.5	3.4	3.6	1310.6	90.2	5.4	5.4	1295.0	44.5	0.5	13.6			1.3	1.3	23
24	1310.5	89.9	3.5	3.3	1310.6	90.3	4.9	4.9	1259.0	0	0.3	25.7			1.3	1.3	24
25	1310.5	89.9	3.0	3.0	1310.6	90.3	4.5	4.5	1259.0	0	4.0	4.0			1.2	1.2	25
26	1310.5	89.9	2.8	2.8	1310.6	90.3	4.2	4.2	1259.0	0	1.6	1.6			1.2	1.2	26
27	1313.4	100.8	9.5	4.0	1310.5	89.9	4.0	4.2	1259.0	0	1.6	1.6			1.2	1.2	27
28	1310.6	90.2	5.7	11.0	1310.5	89.9	4.2	4.2	1259.0	0	1.6	1.6			1.2	1.2	28
29					1310.5	89.9	3.9	3.9	1259.0	0	1.6	1.6			1.1	1.1	29
30					1310.5	89.9	3.9	3.9	1259.0	0	1.6	1.6			1.1	1.1	30
31					1310.5	89.9	3.9	3.9							1.1	1.1	31
TOTAL			233.5	232.1			165.6	165.7			65.3	110.6			43.2	43.2	
Inf. Ac. Ft.			461.2				328.5				129.5				85.7		
Outf. Ac. Ft.			460.4				328.7				219.4				85.7		
Max. Mean Daily Inf.			93.5				11.3				4.0				1.6		
Min. Mean Daily Inf.			1.0				2.9				0.3				1.1		
Storage Change			0.7				- 0.3				-89.9				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			1.0	1.0			0.9	0.9			1.1	1.1			0.8	0.8	1
2			1.0	1.0			0.9	0.9			1.1	1.1			0.8	0.8	2
3			1.0	1.0			0.9	0.9			1.1	1.1			0.8	0.8	3
4			1.0	1.0			0.9	0.9			1.1	1.1			0.8	0.8	4
5			0.9	0.9			0.9	0.9			1.1	1.1			0.8	0.8	5
6			0.9	0.9			0.9	0.9			1.1	1.1			0.7	0.7	6
7			0.9	0.9			0.9	0.9			1.1	1.1			0.7	0.7	7
8			0.9	0.9			0.9	0.9			1.1	1.1			0.7	0.7	8
9			0.9	0.9			1.0	1.0			1.1	1.1			0.7	0.7	9
10			0.9	0.9			1.0	1.0			1.1	1.1			0.7	0.7	10
11			0.9	0.9			1.0	1.0			1.0	1.0			0.7	0.7	11
12			1.0	1.0			1.0	1.0			1.0	1.0			0.7	0.7	12
13			1.0	1.0			1.0	1.0			1.0	1.0			0.7	0.7	13
14			1.0	1.0			1.0	1.0			1.0	1.0			0.6	0.6	14
15			1.0	1.0			1.0	1.0			1.0	1.0			0.6	0.6	15
16			1.0	1.0			1.0	1.0			1.0	1.0			0.6	0.6	16
17			1.0	1.0			1.0	1.0			1.0	1.0			0.6	0.6	17
18			1.0	1.0			0.9	0.9			1.0	1.0			0.6	0.6	18
19			1.9	1.9			0.9	0.9			1.0	1.0			0.6	0.6	19
20			1.9	1.9			0.9	0.9			0.9	0.9			0.6	0.6	20
21			1.9	1.9			0.9	0.9			0.9	0.9			0.5	0.5	21
22			1.9	1.9			0.9	0.9			0.9	0.9			0.5	0.5	22
23			0.8	0.8			0.9	0.9			0.9	0.9			0.5	0.5	23
24			0.8	0.8			0.9	0.9			0.9	0.9			0.5	0.5	24
25			0.8	0.8			0.9	0.9			0.9	0.9			0.5	0.5	25
26			0.8	0.8			0.9	0.9			0.9	0.9			0.4	0.4	26
27			0.8	0.8			0.9	0.9			0.9	0.9			0.4	0.4	27
28			0.8	0.8			0.9	0.9			0.9	0.9			0.4	0.4	28
29			0.8	0.8			1.0	1.0			0.8	0.8			0.4	0.4	29
30			0.8	0.8			1.0	1.0			0.8	0.8			0.4	0.4	30
31							1.0	1.0			0.8	0.8					31
TOTAL			27.3	27.3			29.1	29.1			30.5	30.5			18.3	18.3	
Inf. Ac. Ft.			54.1				57.7				60.5				36.3		
Outf. Ac. Ft.			54.1				57.7				60.5				36.3		
Max. Mean Daily Inf.			1.0				1.0				1.1				0.8		
Min. Mean Daily Inf.			0.8				0.9				0.8				0.4		
Storage Change			0				0				0				0		

Max. W.S. Elev. 1332.1 feet on 2/11/73 Storage 191.0 Acre-Feet

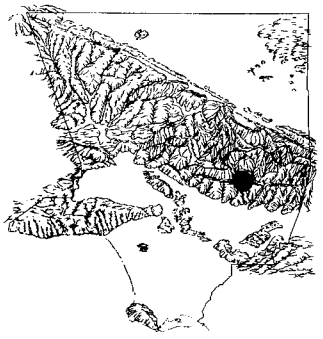
Min. W.S. Elev. Dry feet on Storage Acre-Feet

Max. Peak Inf. 350 CFS from 0400 on 2/11/73 to 0500 on 2/11/73

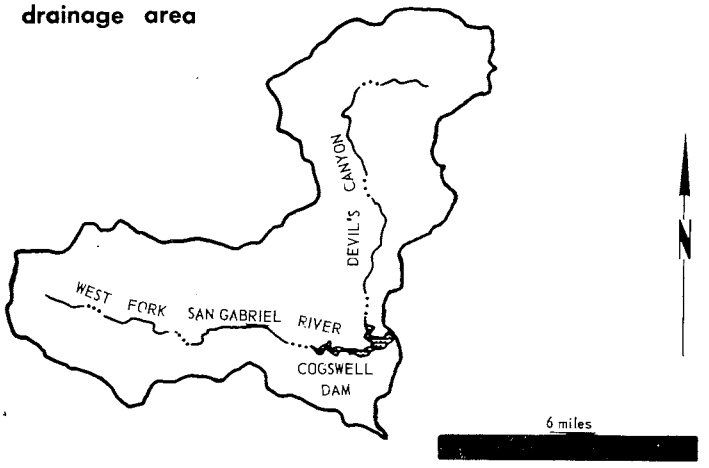
Max. Peak Outf. 257 CFS from 0948 on 4/24/73 to 0954 on 4/24/73

REMARKS:

COGSWELL DAM
AND RESERVOIR



drainage area



PURPOSE -
Flood Control, Conservation, and Recreation

DATE CONSTRUCTED -
Started March 1932 - Completed April 1934

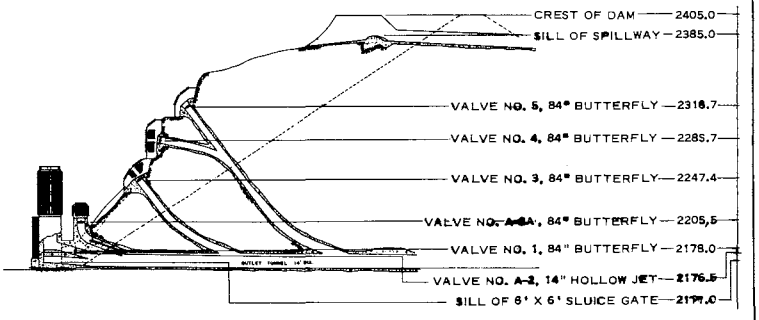
LOCATION - 22.0 miles north of Azusa

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	INFLOW ANNUAL AF	INFLOW MAX-DAY CFS	INFLOW MIN-DAY CFS	OUTFLOW ANNUAL AF	PEAK INFLOW 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	32996	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	6080	108	0.3	7331	12	10	294
1942-43	54700	2320	0.7	53703	1	23	15000
1943-44	38150	2860	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	9.6	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	9	1017
1963-64	2587	89	0.4	2647	4	1	276
1964-65	5037	266	0.3	4159	4	9	479
1965-66	41747	2640	0.3	42170	12	29	9220
1966-67	40504	1860	0.6	32757	12	6	4650
1967-68	9569	338	0.6	12713	11	19	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	29	2930
1971-72	4009	297	0.4	4557	12	24	798
1972-73	19613	2210	0.4	16632	2	11	6970

N.D. = NOT DETERMINED

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

DAM OPERATION RECORD

COGSWELL DAM

1972-73

DRAINAGE AREA 39.2 SQ. MI.
CAPACITY OF RESERVOIR 9318 AC. FT.,
at SPILLWAY ELEVATION 2386.0 FT.,
as of September, 19 73

GAGE HEIGHTS AND STORAGES ARE AS OF MIDNIGHT ON DAY SHOWN.

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	2281.5	1058.4	0.5	1.4	2264.3	590.0	1.0	1.4	2270.5	732.3	2.2	1.3	2277.9	939.7	2.8	0.9	1
2	2281.5	1056.3	0.5	1.4	2264.3	589.8	1.4	1.4	2270.5	733.8	2.2	1.3	2278.0	943.4	2.9	0.9	2
3	2281.4	1053.6	0.4	1.4	2264.3	589.1	1.3	1.5	2270.6	735.5	2.3	1.3	2278.1	947.6	3.1	0.9	3
4	2281.3	1051.3	0.4	1.4	2264.3	588.5	1.3	1.5	2271.7	763.9	16.0	1.7	2278.3	951.4	2.9	0.9	4
5	2281.2	1048.3	0.4	1.4	2264.3	588.0	1.3	1.5	2272.3	779.0	9.0	1.3	2278.4	956.5	3.6	0.9	5
6	2281.2	1047.2	0.4	1.4	2264.2	586.9	1.1	1.5	2272.6	787.3	5.5	1.3	2278.6	960.9	3.2	0.9	6
7	2281.1	1044.9	0.4	1.4	2264.2	586.3	1.2	1.4	2273.1	800.9	8.4	1.5	2278.7	964.4	2.8	0.9	7
8	2281.0	1042.5	0.4	1.4	2264.1	585.6	1.1	1.4	2273.6	814.5	8.3	1.4	2278.8	969.8	3.8	1.0	8
9	2281.0	1040.5	0.4	1.4	2264.1	585.0	1.2	1.4	2274.0	824.6	6.3	1.2	2279.2	981.4	7.2	1.3	9
10	2280.9	1038.5	0.4	1.4	2264.1	584.4	1.5	1.4	2274.3	832.4	5.2	1.2	2279.5	989.9	5.5	1.2	10
11	2280.8	1035.8	0.4	1.3	2264.3	588.9	3.7	1.7	2274.5	838.6	4.3	1.2	2279.7	996.4	4.6	1.2	11
12	2280.8	1033.8	0.4	1.2	2264.3	588.0	1.1	1.4	2274.7	844.4	4.2	1.2	2279.9	1003.9	5.0	1.2	12
13	2280.7	1031.5	0.4	1.2	2264.2	587.6	1.3	1.4	2274.9	850.6	4.3	1.2	2280.0	1008.2	3.4	1.2	13
14	2280.6	1029.2	0.4	1.2	2265.0	605.4	11.3	2.2	2275.0	854.5	3.2	1.2	2280.2	1014.2	4.3	1.2	14
15	2280.6	1027.2	0.4	1.2	2265.1	606.1	1.4	1.0	2275.2	860.0	4.0	1.2	2280.4	1019.5	4.0	1.2	15
16	2279.5	992.2	0.4	14.4	2267.2	653.0	25.7	2.0	2275.4	864.7	3.6	1.2	2282.3	1086.4	35.1	1.7	16
17	2277.6	930.2	0.4	26.0	2268.4	681.1	15.6	1.4	2275.5	869.0	3.4	1.2	2283.8	1135.9	26.8	1.3	17
18	2275.7	872.8	0.4	26.0	2268.8	692.3	7.0	1.3	2275.8	875.1	4.3	1.2	2288.8	1314.4	92.1	2.0	18
19	2273.7	818.3	0.4	26.0	2269.1	699.0	4.8	1.3	2275.9	880.3	3.9	1.2	2292.8	1474.7	83.0	1.9	19
20	2271.8	766.4	0.4	26.0	2269.4	705.1	4.5	1.3	2276.1	885.6	4.0	1.2	2294.2	1530.7	29.9	1.5	20
21	2269.8	714.7	0.5	25.0	2269.5	709.0	3.4	1.3	2276.3	891.5	4.3	1.2	2295.0	1569.6	21.3	1.5	21
22	2267.7	664.7	0.5	25.0	2269.7	712.5	3.1	1.3	2276.5	896.7	3.9	1.2	2295.8	1597.7	15.6	1.5	22
23	2265.6	617.0	0.5	24.0	2269.8	716.1	3.3	1.3	2276.6	901.5	3.7	1.2	2296.4	1621.4	13.6	1.5	23
24	2264.5	592.4	1.6	13.8	2269.9	718.6	2.7	1.3	2276.8	906.3	3.7	1.2	2296.9	1643.1	12.6	1.5	24
25	2264.5	593.3	1.6	1.0	2270.0	720.5	2.4	1.3	2276.9	910.2	3.3	1.0	2297.3	1662.4	11.4	1.5	25
26	2264.5	593.3	1.4	1.2	2270.1	722.8	2.6	1.3	2277.1	915.1	3.9	1.2	2297.8	1680.1	10.6	1.5	26
27	2264.5	593.3	1.4	1.3	2270.2	725.0	2.6	1.3	2277.2	918.8	3.1	1.0	2298.1	1695.3	9.3	1.5	27
28	2264.5	593.1	1.3	1.3	2270.3	727.0	2.7	1.6	2277.4	924.0	3.7	1.0	2298.4	1709.7	8.9	1.5	28
29	2264.5	592.7	1.3	1.4	2270.3	729.0	2.5	1.4	2277.5	928.3	3.4	1.0	2298.7	1723.2	8.5	1.5	29
30	2264.4	591.6	1.1	1.4	2270.4	730.8	2.3	1.3	2277.6	932.3	3.2	1.0	2299.1	1737.2	8.7	1.5	30
31	2264.4	591.1	1.4	1.4					2277.8	936.3	2.9	0.9	2299.3	1748.7	7.4	1.5	31
TOTAL			20.6	235.3			116.2	42.8			143.8	37.4			454.2	40.7	
Inf. Ac. Ft.			40.8				230.5				285.2				900.9		
Outf. Ac. Ft.			466.7+ (44.1)*				84.9+ (6.0)				74.2+ (5.4)				80.7+ (7.8)		
Max. Mean Daily Inf.			1.6				25.7				16.0				92.1		
Min. Mean Daily Inf.			0.4				1.0				2.2				2.8		
Storage Change			-469.9				139.7				205.6				812.3		

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	2299.6	1759.7	7.2	1.5	2353.1	5388.7	81.0	26.0	2358.7	5978.7	58.0	74.0	2363.6	6526.1	24.8	7.4	1
2	2299.8	1770.8	7.2	1.5	2353.9	5470.5	66.8	25.0	2359.0	6015.8	55.6	56.0	2363.8	6555.0	23.0	7.4	2
3	2300.4	1795.7	14.4	1.7	2354.5	5532.6	56.8	25.0	2359.4	6055.4	51.1	30.0	2364.1	6584.1	23.0	7.2	3
4	2300.8	1815.8	11.7	1.5	2355.2	5600.3	59.7	25.0	2359.4	6054.3	48.9	48.0	2364.3	6611.1	22.0	7.2	4
5	2301.2	1831.6	9.5	1.6	2355.6	5647.6	51.4	27.0	2359.4	6053.2	48.9	48.0	2364.6	6641.6	23.3	6.9	5
6	2304.3	1974.1	74.2	2.3	2355.7	5659.2	82.2	76.0	2359.4	6052.1	48.5	48.0	2364.8	6669.7	21.8	6.9	6
7	2312.6	2370.9	202.8	2.8	2355.3	5616.1	74.3	96.0	2359.4	6052.1	48.7	48.0	2365.0	6694.4	20.1	6.7	7
8	2315.3	2512.1	74.0	2.5	2355.0	5586.6	61.3	96.0	2359.2	6048.8	47.3	48.0	2365.3	6724.1	22.8	6.7	8
9	2317.0	2597.0	45.2	2.2	2354.6	5547.2	76.4	96.0	2359.2	6037.8	43.4	48.0	2365.4	6746.6	19.0	6.5	9
10	2322.0	2859.0	152.2	3.8	2354.1	5495.3	70.2	96.0	2359.1	6027.9	43.9	48.0	2365.7	6775.9	21.6	6.5	10
11	2368.9	7169.3	2210.0	52.0	2355.5	5636.1	170.3	99.0	2359.1	6020.2	44.9	48.0	2365.8	6792.9	17.4	6.5	11
12	2374.3	7843.7	349.6	9.6	2356.2	5707.6	134.2	98.0	2358.9	6004.9	41.3	48.0	2366.0	6815.5	19.1	6.5	12
13	2376.9	8196.7	205.0	27.0	2355.4	5629.8	117.8	157.0	2358.8	5990.7	41.9	48.0	2366.2	6832.3	16.2	6.5	13
14	2373.5	7746.2	139.9	367.0	2353.8	5458.2	104.1	190.0	2358.6	5973.3	40.0	48.0	2366.3	6851.5	17.3	6.5	14
15	2368.5	7117.9	114.2	431.0	2352.1	5283.8	95.7	183.0	2358.4	5951.5	37.8	48.0	2366.5	6868.3	16.0	6.5	15
16	2366.3	6841.9	94.5	233.0	2350.4	5121.9	93.0	174.0	2358.6	5965.7	37.7	30.0	2366.6	6887.4	17.4	6.5	16
17	2362.8	6431.5	78.7	286.0	2348.6	4945.3	82.5	171.0	2358.9	6000.5	36.6	17.2	2366.7	6899.4	15.2	8.1	17
18	2359.1	6027.9	75.1	278.0	2346.7	4768.1	79.1	168.0	2359.2	6038.3	34.3	17.2	2366.8	6903.0	13.1	9.9	18
19	2355.3	5612.9	69.3	271.0	2346.8	4779.9	74.4	68.0	2359.5	6070.8	36.1	15.6	2366.8	6913.8	16.7	9.9	19
20	2351.4	5215.2	64.0	264.0	2349.4	5022.3	129.2	6.5	2359.8	6104.9	29.6	11.2	2366.9	6918.6	13.7	9.9	20
21	2349.8	5055.9	48.0	128.0	2351.4	5216.2	104.0	6.0	2360.2	6147.1	31.8	9.4	2366.9	6923.4	13.6	9.9	21
22	2349.3	5013.7	44.0	65.0	2353.2	5394.6	95.9	5.8	2360.6	6186.0	29.9	9.1	2367.0	6927.0	12.7	9.6	22
23	2349.0	4988.7	37.6	50.0	2354.7	5556.5	87.9	5.8	2360.9	6225.0	29.9	9.1	2367.0	6930.6	12.8	9.6	23
24	2348.9	4979.2	29.4	34.0	2356.2	5709.9	83.7	5.8	2361.3	6264.4	30.0	9.1	2367.0	6933.0	12.2	9.6	24
25	2348.8	4964.2	26.5	34.0	2357.6	5857.4	80.9	6.0	2361.6	6303.9	29.8	8.8	2367.0	6934.2	11.4	9.6	25
26	2348.6	4946.3	25.3	34.0	2358.9	6000.5	78.8	6.0	2362.0	6342.3	29.3	8.8	2367.1	6940.3	13.4	9.6	26
27	2349.3	5009.8	61.4	29.0	2359.7	6091.7	75.5	29.0	2362.3	6382.3	30.0	8.5	2367.1	6943.9	12.4	9.4	27
28	2352.0	5280.7	162.9	26.0	2359.6	6082.9	69.6	74.0	2362.7	6421.2	29.3	8.5	2367.1	6947.6	12.3	9.1	28
29					2359.5	6065.3	65.8	74.0	2363.0	6458.9	28.5	8.5	2367.1	6950.0	11.8	9.1	29
30					2359.3	6041.1	62.7	74.0	2363.3	6492.5	26.2	7.7	2367.2	6952.4	11.5	8.8	30
31					2359.0	6011.4	59.8	74.0					2367.2	6954.8	11.4	8.8	31
TOTAL			4426.9	2640.0			2644.8	2262.9			1167.3	894.7			519.2	249.3	
Inf. Ac. Ft.			8780.7				5246.0				2315.3				1029.9		
Outf. Ac. Ft.			5236.4+ (12.3)				4488.4+ (26.9)				1774.6+ (59.6)				494.5+ (73.1)		
Max. Mean Daily Inf.			2210.0				170.3				56.0				24.8		
Min. Mean Daily Inf.			7.2				51.4				26.2				11.4		
Storage Change			3532.1				730.7				481.1				462.4		

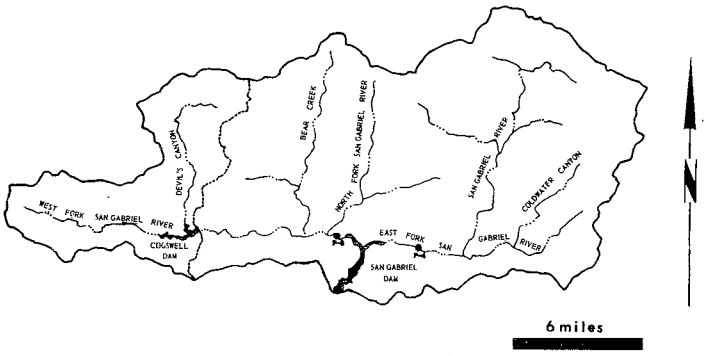
Day	JUNE				JULY				AUGUST				SEPTEMBER				Day
	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	
1	2367.2	6951.2	10.1	11.3	2362.6	6420.0	4.0	17.6	2353.3	5411.2	2.2	17.6	2342.4	4326.5	0.8	16.0	1
2	2367.1	6948.8	12.3	12.9	2362.4	6391.4	3.9	17.6	2353.0	5377.5	2.2	17.6	2342.0	4293.7	0.8	16.0	2
3	2367.1	6946.3	12.3	12.9	2362.1	6358.3	3.9	17.6	2352.7	5344.2	2.2	17.6	2341.6	4261.3	0.8	16.0	3
4	2367.1	6940.3	10.6	12.9	2361.8	6328.8	3.9	17.6	2352.4	5313.0	2.1	17.6	2341.3	4228.9	0.8	16.0	4
5	2367.0	6931.8	9.8	12.9	2361.5	6294.9	3.9	17.6	2352.0	5277.7	2.1	17.6	2340.9	4196.6	0.8	16.0	5
6	2366.9	6923.4	10.2	12.9	2361.2	6259.9	3.1	17.6	2351.7	5244.0	1.9	17.6	2340.5	4163.7	0.8	16.0	6
7	2366.8	6912.6	9.2	12.9	2361.0	6229.5	3.1	17.6	2351.3	5208.3	1.9	17.6	2340.1	4130.8	0.8	16.4	7
8	2366.8	6903.0	9.9	12.9	2360.7	6198.3	3.1	17.6	2351.0	5176.5	1.9	17.6	2339.7	4098.2	0.8	16.4	8
9	2366.7	6892.2	9.2	12.9	2360.4	6166.0	3.1	17.6	2350.6	5139.4	1.9	17.6	2339.3	4065.7	0.8	16.4	9
10	2366.6	6879.0	8.1	12.9	2360.1	6133.2	3.1	17.6	2350.3	5108.2	1.8	17.6	2338.9	4033.2	0.8	16.4	10
11	2366.4	6865.9	8.0	12.9	2359.8	6099.4	3.1	17.6	2349.9	5071.2	1.8	17.6	2338.5	4000.3	1.1	16.4	11
12	2366.3	6851.5	8.0	12.9	2359.5	6067.5	3.0	17.6	2349.6	5040.5	1.7	17.6	2338.1	3969.0	1.1	16.4	12
13	2366.2	6839.5	8.0	12.9	2359.2	6034.5	3.0	17.6	2349.2	5007.0	1.7	16.4	2337.8	3940.5	1.1	16.0	13
14	2366.1	6827.5	8.0	12.9	2358.9	6001.6	3.0	17.6	2348.9	4973.6	1.7	17.2	2337.4	3908.9	1.1	16.0	14
15	2366.0	6815.5	8.0	12.9	2358.6	5972.2	3.0	17.6	2348.6	4942.5	1.7	17.2	2337.0	3876.5	1.1	16.0	15
16	2365.9	6800.0	6.9	12.9	2358.4	5941.7	2.8	16.8	2348.2	4907.7	1.7	17.2	2336.6	3846.2	1.1	16.0	16
17	2365.8	6784.6	6.9	12.9	2358.1	5909.1	2.7	18.0	2347.8	4876.0	1.7	17.2	2336.2	3814.4	1.1	16.0	17
18	2365.7	6771.6	6.9	12.9	2357.8	5877.8	2.7	18.0	2347.5	4842.6	1.7	17.2	2335.9	3789.1	1.1	12.8	18
19	2365.5	6758.5	6.9	12.5	2357.4	5841.2	2.7	18.0	2347.1	4808.3	1.7	16.8	2335.5	3758.6	1.2	16.0	19
20	2365.4	6741.9	6.9	13.2	2357.1	5809.0	2.7	18.0	2346.8	4775.4	1.7	16.8	2335.1	3727.4	1.2	16.0	20
21	2365.2	6713.4	4.7	16.8	2356.8	5776.9	2.6	18.0	2346.4	4744.4	1.6	16.8	2334.7	3696.8	1.2	16.0	21
22	2364.9	6687.4	4.6	17.2	2356.5	5745.0	2.6	17.6	2346.0	4709.8	1.6	16.8	2334.3	3665.1	1.2	16.0	22
23	2364.7	6658.0	4.6	17.2	2356.2	5713.1	2.6	17.6	2345.7	4677.5	1.6	16.8	2333.9	3634.6	1.2	16.0	23
24	2364.4	6627.5	4.6	17.2	2355.9	5680.2	2.6	17.6	2345.3	4645.2	1.6	16.8	2333.5	3604.4	1.2	16.0	24
25	2364.2	6597.0	4.6	17.2	2355.6	5686.6	2.5	17.6	2345.0	4613.0	1.5	16.4	2333.1	3573.5	1.2	16.0	25
26	2363.9	6570.1	4.2	17.2	2355.3	5609.8	2.5	17.6	2344.6	4581.2	1.0	16.4	2332.7	3542.9	1.4	16.0	26
27	2363.7	6541.1	4.2	17.2	2355.0	5579.4	2.5	17.6	2344.2	4549.3	1.0	16.4	2332.3	3511.7	1.4	16.0	27
28	2363.5	6513.3	4.2	17.2	2354.6	5547.2	2.5	17.6	2343.9	4517.6	1.0	16.4	2331.8	3480.7	1.4	16.0	28
29	2363.2	6479.7	4.1	17.2	2354.3	5514.0	2.5	17.6	2343.5	4486.3	1.0	16.0	2331.4	3450.1	1.4	16.0	29
30	2362.9	6449.7	4.1	17.2	2354.0	5477.7	2.5	17.6	2343.1	4453.0	1.0	16.0	2331.0	3420.9	1.5	16.0	30
31					2353.7	5444.9	2.5	17.6	2342.8	4419.2	0.9	16.0					31
TOTAL			220.2	427.9			91.5	546.8			51.1	528.0			32.3	479.2	
Inf. Ac. Ft.			436.7				181.4				101.3				64.1		
Outf. Ac. Ft.			848.7+ (93.0)				1084.6+ (101.6)				1047.3+ (79.8)				950.5+ (50.3)		
Max. Mean Daily Inf.			12.3				4.0				2.2				1.5		
Min. Mean Daily Inf.			4.1				2.5				0.9				0.8		
Storage Change			-505.1				-1004.8				-1025.8				-936.7		

Max. W.S. Elev. 2377.42 feet on 2-14-73 Storage 8287.7 Acre-Feet
Min. W.S. Elev. 2264.12 feet on 11-9&10-72 Storage 588.9 Acre-Feet
Max. Peak Inf. 6970 CFS from 0400 on 2-11-73 to [illegible] on 2-11-73
Max. Peak Outf. 635 CFS from 1430 on 2-14-73 to 1300 on 2-15-73

REMARKS: [Indicates average for period.
(Indicates evaporation and siltation losses.
* Includes an estimated 31.5 acre-feet loss due to siltation. An additional 61.4 acre-feet loss occurred due to siltation. Change to storage table 15, 9-1-73.

SAN GABRIEL DAM AND RESERVOIR

drainage area



PURPOSE -
Flood Control and Conservation

DATE CONSTRUCTED -
Started December 1932 - Completed July 1939

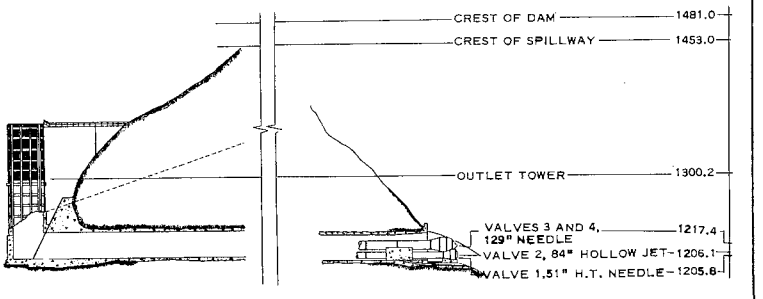
LOCATION -
San Gabriel Canyon, 7.5 miles north of Azusa

DRAINAGE AREA - 163.5 square miles (uncontrolled)
39.2 square miles (controlled)
Total 202.7 square miles
(includes Cogswell drainage)

CAPACITY - 41,549 acre-feet

SPILLWAY ELEVATION - 1,453 feet

cross-section



SAN GABRIEL DAM

YEARLY RESERVOIR OPERATION SUMMARY

SEASON	ANNUAL AF	INFLOW MAX-DAY CFS	MIN-DAY CFS	OUTFLOW ANNUAL AF	PEAK INFLOW MO	DAY	CFS
1937-38	339155	30720	37	332893	3	2	89320
1938-39	67231	1330	23	61655	12	19	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	29	468
1942-43	271286	17180	20	267085	1	23	46000
1943-44	184923	5710	43	184622	2	22	9860
1944-45	91961	1300	28	90131	11	11	6440
1945-46	99531	2980	28	89502	12	21	5760
1946-47	107688	3340	18	104088	12	26	6520
1947-48	29259	257	9.9	37794	4	29	506
1948-49	24728	94	11	21546	1	20	120
1949-50	27797	266	9.5	27736	12	19	448
1950-51	10169	54	3.0	13002	1	11	174
1951-52	159048	3340	3.9	118918	1	18	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	9	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	29	27180
1966-67	224903	6700	30	224538	12	6	12420
1967-68	66761	697	26	68771	11	19	1620
1968-69	527883	28020	24	524874	1	25	44400
1969-70	66842	1250	26	66688	2	28	2550
1970-71	60375	2120	29	55358	11	29	6400
1971-72	34908	975	14	38192	12	25	1390
1972-73	124722	5075	14.1	124333	2	11	17430

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

DAM OPERATION RECORD

San Gabriel Dam

1972-73

GAGE HEIGHTS AND STORAGES ARE AS OF MIDNIGHT ON DAY SHOWN.

DRAINAGE AREA 202.7 SQ. MI.
CAPACITY OF RESERVOIR 43800 AC. FT.,
at SPILLWAY ELEVATION 1453 FT.,
as of February, 19 73.
Spillway capacity estimated due to clean-out operations

Day	OCTOBER Gage Height	OCTOBER Acre-Ft. Storage	OCTOBER CFS Inflow	OCTOBER CFS Outflow	NOVEMBER Gage Height	NOVEMBER Acre-Ft. Storage	NOVEMBER CFS Inflow	NOVEMBER CFS Outflow
1	1254.0	0.0	14.1	14.1	1305.2	925.5	15.9	11.3
2	1254.0	0.0	14.2	14.2	1305.1	918.9	15.9	18.8
3	1254.0	0.0	14.4	14.4	1305.1	915.4	17.4	18.8
4	1254.0	0.0	14.4	14.4	1305.0	911.2	16.8	18.8
5	1254.0	0.0	14.2	14.2	1305.0	909.5	18.3	18.8
6	1254.0	0.0	14.1	14.1	1304.9	905.5	17.2	18.8
7	1254.0	0.0	14.3	14.3	1304.9	903.3	17.8	18.8
8	1254.0	0.0	14.8	14.8	1304.8	899.9	17.4	18.8
9	1254.0	0.0	15.2	15.2	1304.8	897.0	17.7	18.7
10	1263.1	18.4	15.5	6.1	1304.8	899.3	20.0	18.6
11	1267.7	37.7	14.5	0.5	1305.3	927.9	33.2	18.6
12	1271.5	59.7	15.5	0.5	1305.5	941.6	25.7	18.6
13	1274.9	84.4	15.4	0.5	1305.6	947.0	21.4	18.6
14	1277.9	112.5	14.9	0.5	1306.8	1018.6	55.1	18.6
15	1280.5	142.7	15.8	0.5	1307.4	1056.1	37.9	18.6
16	1282.8	173.5	17.3	0.5	1309.2	1177.0	80.0	18.6
17	1286.7	237.4	37.2	0.5	1310.4	1260.6	61.2	18.8
18	1289.4	294.9	36.2	0.5	1310.9	1301.0	39.4	18.8
19	1292.6	380.6	46.6	0.5	1311.3	1329.1	33.1	18.8
20	1295.0	457.4	44.4	1.3	1311.4	1332.8	31.7	29.5
21	1296.9	528.8	41.9	1.7	1311.2	1320.9	30.1	35.7
22	1298.6	593.9	41.1	3.0	1311.0	1309.0	30.2	35.7
23	1299.9	653.5	38.3	4.0	1310.8	1293.0	28.0	35.7
24	1301.2	712.2	34.2	2.6	1310.6	1277.2	28.1	35.7
25	1301.9	746.9	20.7	2.8	1310.3	1259.2	26.9	35.7
26	1302.5	776.8	17.6	2.4	1310.1	1241.9	27.3	35.6
27	1303.1	806.2	17.8	2.8	1310.0	1232.6	26.0	30.2
28	1303.7	836.3	17.3	1.7	1309.9	1224.3	26.0	29.9
29	1304.2	866.5	17.7	1.8	1309.8	1223.6	26.5	26.3
30	1304.7	892.5	16.2	1.8	1309.8	1222.2	25.6	25.8
31	1305.1	917.2	16.7	1.8				
TOTAL			682.4	168.0			867.7	704.0
Inf. Ac. Ft.		1353.6				1721.0		
Outf. Ac. Ft.		333.2 +(103.2)*				1396.4 +(19.7)		
Max. Mean Daily Inf.		46.6				80.0		
Min. Mean Daily Inf.		14.1				15.9		
Storage Change		917.2				305.0		

Day	DECEMBER Gage Height	DECEMBER Acre-Ft. Storage	DECEMBER CFS Inflow	DECEMBER CFS Outflow	JANUARY Gage Height	JANUARY Acre-Ft. Storage	JANUARY CFS Inflow	JANUARY CFS Outflow
1	1309.8	1220.8	25.7	25.8	1311.8	1366.3	26.6	30.4
2	1309.8	1217.3	24.4	25.8	1311.7	1358.8	26.9	30.4
3	1309.7	1215.2	24.8	25.8	1311.6	1352.9	27.5	30.4
4	1310.7	1285.8	61.7	25.8	1311.6	1349.1	28.9	30.4
5	1311.3	1329.1	47.8	25.8	1311.5	1343.9	28.0	30.4
6	1311.6	1349.9	39.9	29.2	1311.4	1335.8	26.6	30.4
7	1312.1	1388.9	51.1	31.2	1311.3	1328.3	26.8	30.4
8	1312.4	1408.3	41.4	31.2	1311.2	1322.4	27.5	30.4
9	1312.5	1422.3	37.0	29.7	1311.4	1332.8	35.8	30.4
10	1312.6	1430.8	35.6	31.1	1311.4	1337.2	32.8	30.4
11	1312.7	1437.0	34.3	30.9	1311.4	1337.2	30.6	30.4
12	1312.8	1440.9	32.7	30.4	1311.4	1335.0	29.1	30.0
13	1312.8	1441.7	31.0	30.4	1311.3	1330.5	28.0	30.0
14	1312.8	1442.5	31.1	30.4	1311.3	1325.3	27.7	30.0
15	1312.8	1442.5	30.7	30.4	1311.2	1319.4	27.2	30.0
16	1312.8	1439.4	29.1	30.4	1312.3	1401.3	71.3	30.0
17	1312.7	1435.2	27.5	30.4	1314.4	1571.1	96.6	10.8
18	1312.7	1431.6	29.9	30.4	1317.8	1873.5	153.2	0.8
19	1312.6	1428.5	29.0	30.4	1320.8	2168.4	170.0	20.7
20	1312.6	1426.2	29.5	30.4	1321.8	2261.8	77.9	30.5
21	1312.5	1423.1	29.2	30.4	1322.4	2326.6	62.8	30.0
22	1312.5	1420.7	29.5	30.4	1322.8	2369.3	52.1	30.0
23	1312.5	1419.2	30.0	30.4	1323.1	2404.3	48.1	30.0
24	1312.4	1414.5	28.8	30.4	1323.4	2435.9	46.4	30.0
25	1312.3	1407.5	27.6	30.4	1323.8	2470.7	48.0	30.0
26	1312.3	1402.1	28.1	30.4	1324.1	2504.8	47.6	30.0
27	1312.2	1396.7	28.1	30.4	1324.3	2530.1	43.2	30.0
28	1312.1	1392.0	28.5	30.4	1324.4	2548.5	39.8	30.0
29	1312.1	1389.8	27.7	30.4	1324.6	2566.9	39.7	30.0
30	1312.0	1380.4	28.1	30.4	1324.7	2573.8	48.1	44.4
31	1311.9	1375.2	28.5	30.4	1324.6	2563.5	45.3	50.2
TOTAL			1008.3	920.3			1520.3	911.8
Inf. Ac. Ft.		1999.9				3015.5		
Outf. Ac. Ft.		1825.4 +(21.5)				1808.5 +(18.7)		
Max. Mean Daily Inf.		61.7				170.0		
Min. Mean Daily Inf.		24.4				26.6		
Storage Change		153.0				1188.3		

Day	FEBRUARY Gage Height	FEBRUARY Acre-Ft. Storage	FEBRUARY CFS Inflow	FEBRUARY CFS Outflow	MARCH Gage Height	MARCH Acre-Ft. Storage	MARCH CFS Inflow	MARCH CFS Outflow
1	1324.5	2550.8	44.1	50.2	1361.5	9902.7	422.0	561.6
2	1324.3	2537.0	43.6	50.2	1359.9	9550.0	374.7	561.6
3	1324.6	2568.1	66.1	50.2	1358.0	9091.2	341.3	561.6
4	1324.9	2600.3	66.6	50.2	1355.9	8622.8	326.9	561.6
5	1323.5	2430.1	91.5	172.5	1353.7	8127.6	314.5	566.1
6	1324.9	2601.4	275.1	193.9	1352.7	7895.3	457.6	571.3
7	1327.3	2903.8	402.7	250.1	1352.0	7727.1	487.3	571.3
8	1325.1	2674.0	304.6	445.3	1351.8	7682.4	549.8	571.3
9	1321.8	2259.8	258.0	441.4	1350.9	7490.6	474.5	570.3
10	1319.9	2081.9	334.4	428.5	1349.9	7262.2	454.7	569.7
11	1366.7	11115.4	5075.0	520.6	1351.3	7579.7	733.2	572.3
12	1371.4	12293.7	1158.4	560.0	1352.1	7765.2	678.9	585.0
13	1373.4	12827.9	805.4	555.0	1352.8	7917.7	698.7	620.3
14	1376.5	13631.9	906.6	500.0	1353.5	8066.2	669.1	596.7
15	1379.4	14508.7	943.4	500.0	1353.7	8115.8	622.4	596.0
16	1379.3	14500.0	665.9	666.7	1353.2	7994.1	537.0	636.8
17	1378.4	14226.3	656.8	793.3	1351.9	7711.5	578.9	720.5
18	1377.1	13872.?	599.8	776.7	1350.5	7408.5	567.8	719.5
19	1375.7	13463.5	570.8	775.0	1348.3	6911.3	469.7	719.1
20	1375.2	13312.7	547.4	682.3	1346.8	6591.4	558.9	719.6
21	1374.3	13060.8	423.5	549.3	1344.5	6105.5	471.9	716.2
22	1372.5	12597.6	323.2	556.1	1342.1	5598.9	462.0	711.5
23	1370.7	12160.1	310.0	560.0	1339.2	5035.1	409.9	719.4
24	1368.3	11508.0	262.1	560.0	1336.1	4449.6	402.4	693.8
25	1365.9	10936.2	273.1	560.0	1332.7	3847.1	413.2	716.4
26	1363.6	10378.9	275.5	558.8	1329.9	3373.6	480.2	718.6
27	1361.6	9916.5	329.9	560.0	1327.2	2965.3	370.9	576.6
28	1362.7	10181.1	594.4	550...	1326.7	2891.6	468.1	504.2
29					1325.7	2762.2	439.8	504.2
30					1324.4	2593.2	419.6	504.2
31					1323.8	2400.5	407.3	504.2
TOTAL			16702.8	12845.6			15143.0	19039.5
Inf. Ac. Ft.		33129.5				30035.8		
Outf. Ac. Ft.		25478.8 +(41.9)				37764.2 +(52.1)		
Max. Mean Daily Inf.		5075.0				733.2		
Min. Mean Daily Inf.		43.6				314.5		
Storage Change		7617.6				- 7780.6		

Day	APRIL Gage Height	APRIL Acre-Ft. Storage	APRIL CFS Inflow	APRIL CFS Outflow	MAY Gage Height	MAY Acre-Ft. Storage	MAY CFS Inflow	MAY CFS Outflow
1	1321.1	2205.7	407.0	504.2	1306.7	1013.0	282.8	320.0
2	1319.9	2086.9	364.2	423.0	1304.9	907.2	267.3	320.0
3	1318.8	1975.4	318.6	373.7	1304.9	904.4	270.4	271.2
4	1318.3	1922.1	348.5	374.0	1305.7	954.7	279.9	245.0
5	1317.4	1841.6	334.3	374.0	1306.7	1015.5	276.0	245.0
6	1316.7	1774.2	340.7	374.0	1306.9	1027.9	251.7	245.0
7	1316.2	1726.1	350.2	374.0	1306.9	1027.9	245.4	245.0
8	1315.8	1689.6	356.5	374.0	1307.0	1031.7	247.3	245.0
9	1315.3	1649.9	355.7	375.0	1307.2	1045.8	252.7	245.0
10	1314.8	1606.6	355.0	376.3	1307.7	1078.8	262.3	245.0
11	1314.4	1574.9	360.7	376.3	1308.1	1104.2	258.2	245.0
12	1314.3	1564.5	371.6	376.3	1308.5	1131.0	258.9	245.0
13	1314.3	1568.6	378.9	376.3	1308.8	1149.1	254.5	245.0
14	1314.2	1552.5	368.7	376.3	1309.1	1170.0	256.0	245.0
15	1313.6	1507.4	353.9	376.3	1309.3	1188.1	254.6	245.0
16	1310.6	1280.1	308.8	423.0	1308.9	1159.1	246.5	260.6
17	1307.4	1052.4	249.2	409.2	1308.1	1106.2	242.0	268.3
18	1305.9	962.4	294.1	342.5	1307.3	1052.3	237.6	264.3
19	1305.0	921.9	270.1	290.0	1306.3	992.5	230.3	260.0
20	1306.1	974.5	277.0	250.0	1305.3	929.7	228.6	260.0
21	1307.5	1068.4	298.0	250.0	1304.2	865.9	228.2	260.0
22	1308.6	1136.3	284.8	250.0	1303.7	839.5	215.8	228.8
23	1308.6	1139.0	276.8	275.0	1303.6	835.8	206.5	210.0
24	1308.1	1105.9	284.2	300.0	1303.4	827.9	203.8	210.0
25	1308.0	1097.5	295.7	300.0	1303.9	847.1	203.6	191.2
26	1308.3	1114.9	309.3	300.0	1304.7	893.1	208.7	185.0
27	1308.5	1134.3	322.2	312.0	1305.0	911.2	191.5	181.7
28	1308.5	1130.3	319.3	320.0	1305.2	920.7	185.4	180.0
29	1308.3	1120.9	314.5	320.0	1305.1	918.9	179.7	180.0
30	1307.8	1087.8	303.4	320.0	1305.0	913.0	177.4	180.0
31					1305.0	911.8	179.6	180.0
TOTAL			9821.2	10465.4			7276.3	7351.1
Inf. Ac. Ft.		19480.2				14432.5		
Outf. Ac. Ft.		20757.8 +(35.1)				14580.7 +(27.7)		
Max. Mean Daily Inf.		407.0				282.8		
Min. Mean Daily Inf.		270.1				177.4		
Storage Change		- 1312.7				- 176.0		

Day	JUNE Gage Height	JUNE Acre-Ft. Storage	JUNE CFS Inflow	JUNE CFS Outflow	JULY Gage Height	JULY Acre-Ft. Storage	JULY CFS Inflow	JULY CFS Outflow
1	1305.0	909.5	179.1	180.0	1300.5	678.6	96.8	108.5
2	1304.8	902.7	176.8	180.0	1299.9	653.5	95.9	107.8
3	1304.5	889.7	171.6	180.0	1298.9	610.0	90.8	113.1
4	1304.4	878.9	167.6	170.6	1297.8	563.7	92.1	115.1
5	1304.3	868.7	160.4	165.0	1296.4	507.5	86.2	114.3
6	1303.9	850.8	156.6	165.0	1295.1	462.3	90.5	113.0
7	1303.5	825.5	152.9	165.0	1293.8	418.3	91.2	113.0
8	1303.4	821.8	141.8	143.1	1292.1	366.0	85.5	111.5
9	1303.4	824.5	132.8	130.9	1290.4	319.6	88.1	111.2
10	1303.4	820.2	129.2	130.9	1289.7	302.5	86.6	95.3
11	1303.3	817.5	126.8	127.6	1290.2	315.2	90.4	83.5
12	1303.5	828.8	121.7	115.6	1290.2	314.4	87.5	97.7
13	1303.7	837.4	120.4	115.6	1289.9	307.3	87.2	90.6
14	1303.8	846.5	120.8	115.8	1289.5	298.4	86.5	90.6
15	1304.1	861.4	120.2	112.3	1289.0	286.0	84.6	90.6
16	1304.5	880.6	120.6	110.2	1289.2	290.5	85.7	83.3
17	1304.6	890.3	115.5	110.1	1289.5	296.8	83.7	80.2
18	1304.7	893.7	112.5	110.1	1290.0	308.2	83.8	77.7
19	1304.6	888.0	107.9	109.9	1290.4	320.6	82.7	76.3
20	1304.3	871.6	102.4	109.6	1290.9	331.6	81.4	75.6
21	1304.1	861.4	105.4	109.5	1291.3	342.7	81.1	75.1
22	1303.9	849.2	104.4	109.5	1291.6	351.9	80.0	75.1
23	1303.6	835.2	103.3	109.5	1291.8	358.0	78.5	75.1
24	1303.3	819.1	101.8	109.5	1291.9	359.1	76.1	75.1
25	1303.0	799.3	100.4	109.5	1291.8	356.0	74.0	75.1
26	1302.6	780.4	100.0	109.1	1291.6	351.9	73.2	75.1
27	1302.2	762.0	99.6	108.5	1291.4	347.4	73.2	75.1
28	1301.9	743.0	99.3	108.5	1291.2	339.9	71.6	75.0
29	1301.5	723.8	99.3	108.5	1290.9	331.6	70.5	74.5
30	1301.0	703.0	98.6	108.5	1290.5	322.5	70.6	75.0
31					1290.3	317.0	72.5	75.0
TOTAL			3749.6	3837.9			2578.6	2763.1
Inf. Ac. Ft.		7437.1				5114.5		
Outf. Ac. Ft.		7612.4 +(33.5)				5480.5 +(20.0)		
Max. Mean Daily Inf.		179.1				96.8		
Min. Mean Daily Inf.		98.6				70.5		
Storage Change		- 208.8				- 386.0		

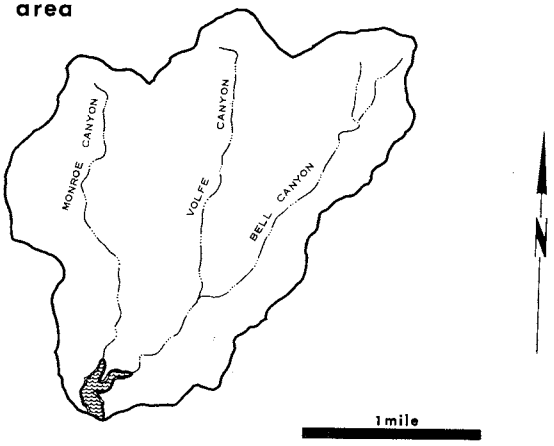
Day	AUGUST Gage Height	AUGUST Acre-Ft. Storage	AUGUST CFS Inflow	AUGUST CFS Outflow	SEPTEMBER Gage Height	SEPTEMBER Acre-Ft. Storage	SEPTEMBER CFS Inflow	SEPTEMBER CFS Outflow
1	1290.0	309.5	71.2	74.8	1288.3	270.6	57.9	50.9
2	1289.6	299.2	69.7	74.6	1288.3	269.5	55.1	55.5
3	1289.1	288.4	69.5	74.6	1287.9	261.8	52.2	55.9
4	1288.6	276.5	68.8	74.6	1287.7	257.0	53.0	55.3
5	1288.0	264.5	68.5	74.4	1287.5	254.4	54.4	55.5
6	1287.5	252.7	68.5	74.2	1287.4	251.5	54.4	55.6
7	1288.0	264.5	72.4	66.3	1287.1	245.5	52.7	55.6
8	1289.0	284.4	72.0	61.7	1286.6	236.5	51.2	55.6
9	1289.5	296.8	68.1	61.7	1287.1	245.7	57.3	52.5
10	1289.8	305.6	66.4	61.7	1287.5	254.4	55.3	50.9
11	1290.1	311.8	65.2	61.7	1287.9	262.0	54.4	50.4
12	1290.1	312.8	62.5	61.7	1288.1	265.6	53.2	51.3
13	1290.2	314.1	62.9	62.0	1288.1	266.5	52.8	52.2
14	1290.1	313.1	61.7	62.0	1288.0	264.3	52.1	53.0
15	1290.1	312.8	62.3	62.0	1287.7	258.0	51.1	54.1
16	1290.0	310.0	60.8	62.0	1287.3	248.5	49.7	54.3
17	1289.9	305.9	60.2	62.0	1286.7	237.2	50.1	55.6
18	1289.6	300.6	59.7	62.0	1286.4	231.8	47.4	49.9
19	1289.1	287.7	55.8	62.0	1286.6	235.9	50.1	47.9
20	1289.2	290.8	59.8	58.0	1286.0	225.7	47.2	52.2
21	1289.9	307.5	61.4	52.7	1286.1	226.6	52.8	52.2
22	1290.4	318.8	59.1	53.0	1286.1	226.5	52.2	52.2
23	1290.7	328.2	58.4	53.3	1286.0	225.4	51.8	52.2
24	1291.0	336.0	57.7	53.4	1286.0	224.5	51.7	52.0
25	1291.3	344.4	57.9	53.4	1286.0	224.3	51.1	51.0
26	1291.7	353.8	58.4	53.4	1286.0	224.1	53.4	53.2
27	1292.0	362.4	58.0	53.4	1257.3	3.3	53.1	164.4
28	1291.8	356.0	58.1	61.1	1254.0	0.0	63.2	64.9
29	1290.4	319.3	56.7	75.0	1254.0	0.0	56.6	56.6
30	1288.1	264.9	52.2	79.4	1254.0	0.0	53.5	53.5
31	1287.7	257.2	55.9	59.6				
TOTAL			1939.7	1961.7			1590.8	1716.4
Inf. Ac. Ft.		3847.3				3155.3		
Outf. Ac. Ft.		3891.0 +(16.2)				3404.4 +(8.1)		
Max. Mean Daily Inf.		72.4				63.2		
Min. Mean Daily Inf.		52.2				47.2		
Storage Change		- 59.8				- 257.2		

Max. W.S. Elev. 1379.65 feet on 2/16/73 Storage 14590 Acre-Feet
Min. W.S. Elev. 1254.00 feet on 10/72 and 9/73 Storage 0 Acre-Feet
Max. Peak Inf. 17430 CFS from 0500 on 2/11/73 to 0600 on 2/11/73
Max. Peak Outf. 800 CFS from 1400 on 2/16/73 to 0800 on 2/17/73

REMARKS: ( ) indicates evaporation and other losses
* Includes loss of 94.0 acre-feet due to bank storage and percolation
8.9 acre-feet gain due to change of storage tables on February 10th.

BIG DALTON DAM AND RESERVOIR

drainage area



PURPOSE -
Flood Control and Conservation

DATE CONSTRUCTED -
Started December 1927 - Completed August 1929

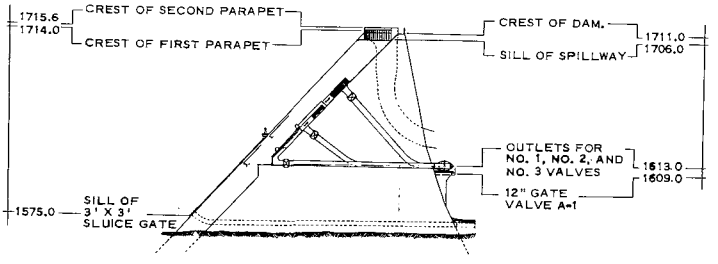
LOCATION -
Big Dalton Canyon, 4.0 miles northeast of Glendora

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	OUTFLOW ANNUAL AF	PEAK INFLOW MO	DAY	CFS
1929-30	52	3.2	0	52			N.D.
1930-31	41	2.0	0	41	4	26	3.0
1931-32	690	54	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	593	21	0	575	4	8	49
1935-36	360	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	280	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	492	16	0	512	11	20	56
1947-48	58	0.7	0	7.7	4	28	9.7
1948-49	94	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	120	1.4	+	68	12	1	4.8
1953-54	346	13	0	359	1	25	53
1954-55	87	0.9	+	5.0	1	18	2.4
1955-56	190	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	160	6.4	+	133	2	16	26
1959-60	54	0.6	+	11	4	27	4.8
1960-61	187	18	0	1510	11	5	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	380	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

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

Big Dalton Dam

1972-73

GAGE HEIGHTS AND STORAGES ARE AS OF MIDNIGHT ON DAY SHOWN.

DRAINAGE AREA 4.5 SQ. MI.
CAPACITY OF RESERVOIR 984.3 AC. FT.,
at SPILLWAY ELEVATION 1706.0 FT.,
as of January, 19 72

Day	OCTOBER Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	NOVEMBER Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	DECEMBER Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	JANUARY Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow
1	1658.8	184.6	+	0	1659.0	186.5	0.1	0	1660.7	203.5	0.2	0	1662.8	225.9	0.2	0
2	1658.8	184.6	+	0	1659.0	186.5	0.1	0	1660.7	203.5	0.2	0	1662.8	225.9	0.2	0
3	1658.8	184.6	+	0	1659.0	186.5	0.1	0	1660.7	203.5	0.3	0	1662.8	225.9	0.2	0
4	1658.8	184.6	+	0	1659.0	186.5	0.1	0	1661.2	208.7	2.6	0	1662.9	227.0	0.2	0
5	1658.8	184.6	+	0	1659.0	186.5	0.1	0	1661.2	208.7	0.2	0	1662.9	227.0	0.2	0
6	1658.8	184.6	+	0	1659.0	186.5	0.1	0	1661.3	209.7	0.6	0	1662.9	227.0	0.2	0
7	1658.8	184.6	+	0	1659.1	187.5	0.1	0	1661.6	212.9	1.6	0	1662.9	227.0	0.2	0
8	1658.8	184.6	+	0	1659.1	187.5	0.1	0	1661.7	213.9	0.5	0	1663.0	228.1	0.3	0
9	1658.8	184.6	+	0	1659.1	187.5	0.1	0	1661.8	215.0	0.5	0	1663.0	228.1	0.3	0
10	1658.8	184.6	+	0	1659.1	187.5	0.1	0	1661.9	216.1	0.5	0	1663.1	229.2	0.3	0
11	1658.8	184.6	+	0	1659.3	189.5	1.0	0	1661.9	216.1	0.3	0	1663.1	229.2	0.3	0
12	1658.8	184.6	+	0	1659.3	189.5	0.1	0	1662.0	217.1	0.3	0	1663.2	230.4	0.2	0
13	1658.8	184.6	+	0	1659.3	189.5	0.1	0	1662.0	217.1	0.3	0	1663.2	230.4	0.2	0
14	1658.8	184.6	+	0	1659.6	192.4	1.4	0	1662.0	217.1	0.3	0.2	1663.2	230.4	0.2	0
15	1658.8	184.6	+	0	1659.6	192.4	0.1	0	1662.1	218.2	0.3	0	1663.2	230.4	0.1	0
16	1658.8	184.6	+	0	1659.9	195.4	1.5	0	1662.1	218.2	0.3	0	1663.7	236.1	2.9	0
17	1658.9	185.6	0.5	0	1660.1	197.4	1.0	0	1662.2	219.3	0.3	0	1664.0	239.5	1.7	0
18	1659.0	186.5	0.5	0	1660.2	198.4	0.5	0	1662.2	219.3	0.3	0	1664.9	250.1	5.3	0
19	1659.0	186.5	0.1	0	1660.2	198.4	0.2	0	1662.2	219.3	0.3	0	1665.7	259.8	4.9	0
20	1659.0	186.5	0.1	0	1660.2	198.4	0.2	0	1662.3	220.4	0.3	0	1665.9	262.2	1.3	0
21	1659.0	186.5	0.1	0	1660.3	199.4	0.2	0	1662.4	221.5	0.2	0	1666.1	264.7	1.3	0
22	1659.0	186.5	0.1	0	1660.3	199.4	0.2	0	1662.4	221.5	0.2	0	1666.2	265.9	0.8	0
23	1659.0	186.5	0.1	0	1660.4	200.4	0.2	0	1662.4	221.5	0.2	0	1666.3	267.2	0.8	0
24	1659.0	186.5	0.1	0	1660.4	200.4	0.2	0	1662.4	221.5	0.2	0	1666.5	269.7	0.8	0
25	1659.0	186.5	0.1	0	1660.4	200.4	0.2	0	1662.5	222.6	0.2	0	1666.6	270.9	0.8	0
26	1659.0	186.5	0.1	0	1660.5	201.5	0.2	0	1662.5	222.6	0.2	0	1666.7	272.1	0.8	0
27	1659.0	186.5	0.1	0	1660.5	201.5	0.2	0	1662.6	223.7	0.2	0	1666.8	273.4	0.8	0
28	1659.0	186.5	0.1	0	1660.5	201.5	0.2	0	1662.6	223.7	0.2	0	1666.9	274.6	0.8	0
29	1659.0	186.5	0.1	0	1660.6	202.5	0.2	0	1662.7	224.8	0.2	0	1667.0	275.9	0.8	0
30	1659.0	186.5	0.1	0	1660.6	202.5	0.2	0	1662.7	224.8	0.2	0	1667.2	278.4	0.8	0
31	1659.0	186.5	0.1	0					1662.7	224.8	0.2	0	1667.3	279.7	0.8	0
TOTAL			2.5	0			9.1	0			12.4	0.2			28.7	0
Inf. Ac. Ft.			4.5				18.0				24.7				56.9	
Outf. Ac. Ft.			0 +(2.6)				0 +(2.0)				0.4 +(2.0)				0 +(2.0)	
Max. Mean Daily Inf.			0.5				1.5				2.6				5.3	
Min. Mean Daily Inf.			+				0.1				0.2				0.1	
Storage Change			1.9				16.0				22.3				54.9	

Day	FEBRUARY Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	MARCH Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	APRIL Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	MAY Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow
1	1667.3	279.7	0.3	0	1686.0	554.5	5.4	15.2	1691.4	653.4	4.2	10.0	1676.9	410.0	2.2	5.2
2	1667.4	281.0	0.4	0	1684.7	531.9	5.3	15.1	1690.7	640.0	3.7	10.3	1676.5	404.2	[illegible]	5.2
3	1667.7	284.8	1.9	0	1683.4	510.1	3.5	14.5	1690.0	626.8	4.2	10.7	1676.0	397.0	2.2	5.2
4	1667.8	286.0	0.7	0	1682.0	487.3	2.6	14.1	1689.2	612.0	3.8	11.1	1675.5	389.9	2.0	5.2
5	1668.0	288.6	1.3	0	1680.7	466.8	3.4	13.7	1688.4	597.3	3.0	11.1	1675.2	385.7	2.0	5.2
6	1668.6	296.3	3.9	0	1679.7	451.4	2.4	14.1	1687.5	581.0	[illegible]	11.1	1674.8	380.0	2.0	5.4
7	1669.5	308.0	5.9	0	1678.4	431.9	3.9	13.6	1686.7	566.7	4.0	11.1	1674.2	371.6	1.9	5.4
8	1670.1	315.9	4.0	0	1678.9	439.4	3.5	5.7	1685.9	552.6	4.1	11.2	1673.7	364.7	1.5	5.6
9	1670.6	322.6	3.4	0	1679.6	449.9	5.4	0	1685.1	537.6	3.4	[illegible]	1673.2	357.8	1.5	5.8
10	1671.8	338.7	8.1	0	1680.4	462.2	6.2	0	1684.5	528.5	[illegible]	6.6	1673.0	355.0	1.8	2.4
11	1685.0	537.0	100.0	0	1682.0	487.3	12.6	0	1684.2	523.4	[illegible]	4.5	1673.2	357.8	1.6	0
12	1688.5	599.1	31.4	0	1683.2	506.7	12.0	0	1683.9	518.5	2.1	4.6	1673.4	360.5	1.6	0
13	1691.0	645.7	3.3	0	1684.4	526.9	10.1	0	1683.7	515.0	[illegible]	4.6	1673.6	363.3	1.5	0
14	1692.4	671.7	15.6	0	1685.3	542.2	7.2	0	1683.4	510.1	2.1	4.6	1673.9	367.4	1.5	0
15	1693.5	694.4	11.0	0	1686.0	554.5	[illegible]	0	1683.0	503.4	1.4	4.7	1674.1	370.2	1.5	0
16	1694.4	712.4	9.1	0	1686.8	568.5	[illegible]	0	1682.8	[illegible]	3.1	4.7	1674.3	373.0	1.4	0
17	1695.1	726.6	7.3	0	1687.5	581.0	6.4	0	1682.4	493.7	1.5	4.7	1674.5	375.8	1.4	0
18	1695.7	738.9	6.5	0	1688.1	591.6	5.2	0	1682.1	488.9	2.1	4.5	1674.7	378.6	1.4	0
19	1696.1	747.2	4.2	0	1688.7	602.8	5.6	0	1681.8	484.1	1.3	4.6	1674.8	380.0	1.4	0
20	1696.0	745.1	4.7	2.7	1690.0	626.8	11.1	0	1681.4	477.8	1.5	4.6	1675.0	382.8	1.4	0
21	1695.1	726.6	3.3	12.6	1690.9	643.8	8.7	0	1681.0	471.4	1.7	4.8	1675.2	385.6	1.3	0
22	1693.9	702.3	2.5	14.7	1691.7	659.1	7.8	0	1680.6	465.3	1.2	5.2	1675.3	386.7	1.3	0
23	1692.7	678.6	2.3	14.3	1692.5	674.7	[illegible]	0	1680.2	459.1	2.0	5.0	1675.4	388.5	[illegible]	0
24	1691.4	653.4	1.2	13.9	1693.2	688.4	[illegible]	0	1679.8	453.0	3.0	5.2	1675.6	391.3	[illegible]	0
25	1690.2	630.6	2.3	13.8	1693.8	700.4	6.1	0	1679.4	446.[illegible]	1.4	5.1	1675.8	394.2	1.1	0
26	1688.9	606.4	1.0	13.0	1694.4	711.4	6.1	0	1679.0	440.8	1.8	5.5	1675.9	395.6	1.1	0
27	1687.6	582.8	8.0	19.4	1694.5	714.5	5.7	4.6	1678.6	434.9	2.6	5.3	1676.1	398.4	1.1	0
28	1687.1	573.8	11.1	15.6	1694.0	704.3	[illegible]	2.3	1678.1	427.5	2.4	5.3	1676.2	399.9	1.0	0
29					1693.4	692.4	3.5	9.3	1677.6	423.1	2.4	5.5	1676.4	402.8	1.0	0
30					1692.7	678.6	2.7	9.6	1677.4	417.2	2.4	5.3	1676.5	404.2	1.0	0
31					1692.0	664.9	[illegible]	[illegible]					1676.6	405.6	1.0	0
TOTAL			272.7	123.5			195.6	148.4			80.0	[illegible]			46.9	50.6
Inf. Ac. Ft.			540.9				389.1				158.6				93.1	
Outf. Ac. Ft.			245.0 +(1.5)				294.5 +(2.5)				401.7 +(4.7)				100.4 +(4.5)	
Max. Mean Daily Inf.			100.0				12.6				4.2				2.2	
Min. Mean Daily Inf.			0.3				2.6				1.4				1.0	
Storage Change			294.1				91.1				- 247.7				- 11.6	

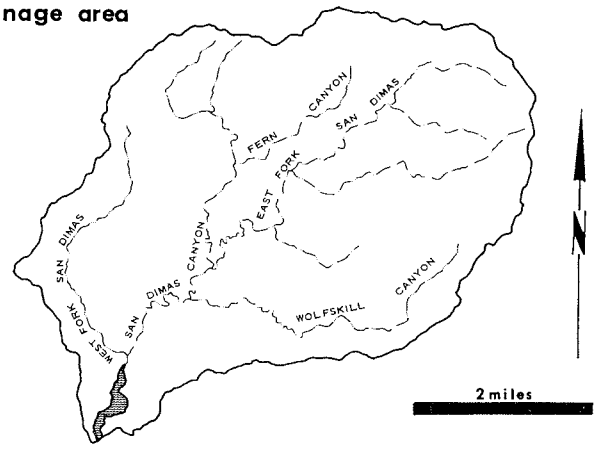
Day	JUNE Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	JULY Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	AUGUST Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	SEPTEMBER Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow
1	1676.8	408.5	1.0	0	1679.3	445.4	0.5	0	1680.2	459.1	0.4	0	1680.8	468.4	0.2	0
2	1676.9	410.0	1.0	0	1679.4	446.9	0.5	0	1680.2	459.1	0.4	0	1680.8	468.4	0.2	0
3	1677.1	412.8	1.0	0	1679.4	446.9	0.5	0	1680.3	460.6	0.4	0	1680.8	468.4	0.2	0
4	1677.2	414.3	1.0	0.4	1679.5	448.4	0.5	0	1680.3	460.6	0.4	0	1680.8	468.4	0.2	0
5	1677.3	415.8	1.0	0	1679.5	448.4	0.5	0	1680.3	460.6	0.3	0	1680.8	468.4	0.2	0
6	1677.4	417.2	1.0	0	1679.5	448.4	0.4	0	1680.4	462.2	0.3	0	1680.8	468.4	0.2	0
7	1677.5	418.7	1.0	0	1679.6	449.9	0.4	0	1680.4	462.2	0.3	0	1680.9	469.9	0.1	0
8	1677.7	421.6	1.0	0	1679.6	449.9	0.4	0	1680.4	462.2	0.3	0	1680.9	469.9	0.1	0
9	1677.7	421.6	1.0	0	1679.6	449.9	0.4	0	1680.4	462.2	0.3	0	1680.9	469.9	0.1	0
10	1677.8	423.1	1.0	0	1679.7	451.4	0.4	0	1680.5	463.7	0.3	0	1680.9	469.9	0.1	0
11	1677.9	424.5	0.9	0	1679.7	451.4	0.5	0	1680.5	463.7	0.2	0	1680.9	469.9	0.3	0
12	1678.0	426.0	0.9	0	1679.8	453.0	0.5	0	1680.5	463.7	0.2	0	1681.0	471.4	0.3	0
13	1678.1	427.5	0.8	0	1679.8	453.0	0.4	0	1680.5	463.7	0.2	0	1681.0	471.4	0.3	0
14	1678.2	429.0	0.8	0	1679.8	453.0	0.4	0	1680.6	465.3	0.2	0	1681.0	471.4	0.3	0
15	1678.3	430.4	0.7	0	1679.9	454.5	0.4	0	1680.6	465.3	0.2	0	1681.0	471.4	0.3	0
16	1678.4	431.9	0.7	0	1679.9	454.5	0.4	0	1680.6	465.3	0.2	0	1681.1	473.0	0.3	0
17	1678.5	433.4	0.7	0	1679.9	454.5	0.4	0	1680.6	465.3	0.2	0	1681.1	473.0	0.4	0
18	1678.6	434.9	0.7	0	1680.0	456.0	0.4	0	1680.6	465.3	0.2	0	1681.1	473.0	0.4	0
19	1678.7	436.4	0.7	0	1680.0	456.0	0.4	0	1680.6	465.3	0.2	0	1681.1	473.0	0.4	0
20	1678.7	436.4	0.7	0	1680.1	457.5	0.4	0	1680.6	465.3	0.2	0	1681.2	474.6	0.4	0
21	1678.8	437.9	0.6	0	1680.1	457.5	0.4	0	1680.6	465.3	0.3	0	1681.2	474.6	0.2	0
22	1678.9	439.4	0.6	0	1680.2	459.1	0.4	0	1680.7	466.8	0.3	0	1681.2	474.6	0.2	0
23	1678.9	439.4	0.6	0	1680.2	459.1	0.4	0	1680.7	466.8	0.3	0	1681.2	474.6	0.2	0
24	1678.9	439.4	0.6	0	1680.2	459.1	0.4	0	1680.7	466.8	0.3	0	1681.2	474.6	0.2	0
25	1679.0	440.8	0.6	0	1680.3	460.6	0.3	0	1680.7	466.8	0.3	0	1681.2	474.6	0.2	0
26	1679.0	440.8	0.6	0	1680.1	457.5	0.3	0.7	1680.7	466.8	0.3	0	1681.2	474.6	0.2	0
27	1679.1	442.4	0.6	0	1680.1	457.5	0.3	0.8	1680.7	466.8	0.2	0	1681.2	474.6	0.2	0
28	1679.1	442.4	0.6	0	1680.1	457.5	0.3	0	1680.7	466.8	0.2	0	1681.3	476.2	0.1	0
29	1679.2	443.9	0.6	0	1680.2	459.1	0.3	0	1680.7	466.8	0.2	0	1681.3	476.2	0.1	0
30	1679.3	445.4	0.5	0	1680.2	459.1	0.3	0	1680.8	468.4	0.2	0	1681.3	476.2	0.1	0
31					1680.2	459.1	0.3	0	1680.8	468.4	0.2	0				
TOTAL			23.5	0.4			12.4	1.5		8.2	8.2	0			6.7	0
Inf. Ac. Ft.			46.6				24.6				16.2				13.4	
Outf. Ac. Ft.			0.8 +(6.0)				3.0 +(8.0)				0 +(7.0)				0 +(5.5)	
Max. Mean Daily Inf.			1.0				0.5				0.4				0.3	
Min. Mean Daily Inf.			0.5				0.3				0.2				0.1	
Storage Change			39.7				13.7				9.3				7.8	

Max. W.S. Elev. 1696.2 feet on 2/20/73 Storage 749.2 Acre-Feet
Min. W.S. Elev. 1658.8 feet on 10/16/72 Storage 184.6 Acre-Feet
Max. Peak Inf. 164 CFS from 1100 on 2/11/73 to 1200 on 2/11/73
Max. Peak Outf. 15.8 CFS from 1018 on 2/27/73 to 1200 on 2/27/73

REMARKS: ( ) Indicates evaporation losses
[Indicates average for period

SAN DIMAS DAM
AND RESERVOIR

drainage area



PURPOSE - Flood Control and Conservation

DATE CONSTRUCTED -
Started November 1920 - Completed September 1922

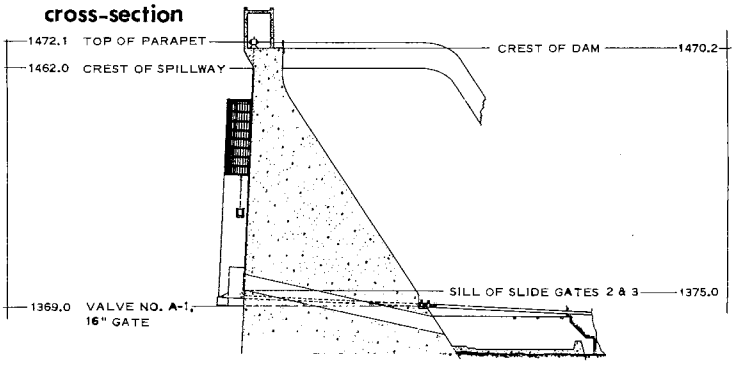
LOCATION – 3.0 miles northeast of San Dimas

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	INFLOW MAX-DAY CFS	MIN-DAY CFS	OUTFLOW ANNUAL AF	PEAK INFLOW MO	DAY	CFS
1928-29	N.D.	N.D.	0	N.D.			N.D.
1929-30	591	28	0	573			N.D.
1930-31	585	23	0	466			N.D.
1931-32	2502	162	0	2496			N.D.
1932-33	652	50	0	648			N.D.
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

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

San Dimas Dam

1972-73

DRAINAGE AREA 16.2 SQ. MI.
CAPACITY OF RESERVOIR 1514.9 AC. FT.,
at SPILLWAY ELEVATION 1462.0 FT.,
as of November, 19 70

GAGE HEIGHTS AND STORAGES ARE AS OF MIDNIGHT ON DAY SHOWN.

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	1409.6	146.2	0.8	8.2	1409.9	158.5	0.9	0.6	1414.2	225.4	1.5	0.6	1418.8	307.2	0.9	0.6	1
2	1408.6	141.1	0.8	3.2	1410.0	159.9	0.9	0.6	1414.3	227.0	1.5	0.6	1419.0	310.9	2.7	0.8	2
3	1408.6	141.1	0.8	0.6	1410.0	159.9	0.9	0.6	1414.3	227.0	0.9	0.8	1419.1	312.9	1.8	0.8	3
4	1408.6	141.1	0.8	0.6	1410.0	159.9	0.9	0.6	1415.1	240.6	7.7	0.8	1419.2	314.8	1.8	0.8	4
5	1408.6	141.1	0.8	0.6	1410.1	161.3	1.0	0.6	1415.4	246.8	3.6	0.9	1419.3	316.7	1.8	0.8	5
6	1408.7	142.4	0.8	0.6	1410.1	161.3	1.0	0.6	1415.6	249.2	2.7	0.9	1419.4	318.6	1.8	0.8	6
7	1408.7	142.4	0.8	0.6	1410.1	161.3	1.0	0.8	1416.1	258.0	5.3	0.9	1419.5	320.5	1.9	0.9	7
8	1408.7	142.4	0.8	0.6	1410.2	162.8	1.0	0.8	1416.3	261.5	2.7	0.9	1419.6	322.4	1.9	0.9	8
9	1408.7	142.4	0.8	0.6	1410.2	162.8	1.0	0.8	1416.6	266.9	3.6	0.9	1419.8	326.3	2.9	1.0	9
10	1408.7	142.4	0.8	0.6	1410.3	164.3	1.6	0.8	1416.7	268.6	1.8	0.9	1419.9	328.2	1.9	0.9	10
11	1408.7	142.4	0.8	0.6	1410.7	170.1	3.9	0.9	1416.9	272.2	2.6	0.8	1420.1	332.0	2.9	0.9	11
12	1408.7	142.4	0.8	0.6	1410.8	171.6	1.7	0.9	1417.0	274.0	1.7	0.8	1420.2	334.0	2.0	1.0	12
13	1408.8	143.6	0.8	0.6	1410.9	173.0	1.7	0.9	1417.1	275.8	1.7	0.8	1420.3	336.0	2.0	1.0	13
14	1408.8	143.6	0.7	0.6	1411.5	182.1	5.5	0.9	1417.2	277.6	2.3	1.3	1420.4	337.9	2.0	1.0	14
15	1408.8	143.6	0.7	0.6	1411.8	186.7	3.1	0.8	1417.4	281.3	2.7	0.8	1420.4	337.9	1.0	1.0	15
16	1408.9	144.9	0.7	0.6	1412.3	194.5	4.8	0.9	1417.4	281.3	0.8	0.8	1421.2	353.7	9.4	1.4	16
17	1408.9	144.9	0.7	0.6	1412.7	200.9	4.0	0.8	1417.6	284.9	2.7	0.8	1422.0	369.7	9.0	0.9	17
18	1409.0	146.2	0.7	0.6	1412.9	204.1	2.4	0.8	1417.7	286.8	1.8	0.8	1423.4	398.6	15.8	1.2	18
19	1409.3	150.3	2.7	0.6	1413.0	205.6	1.6	0.8	1417.8	288.6	1.7	0.8	1424.9	430.4	18.8	2.7	19
20	1409.4	151.7	1.3	0.6	1413.2	208.9	2.5	0.8	1417.9	290.4	1.9	0.9	1426.0	452.6	5.9	4.8	20
21	1409.5	153.0	1.3	0.6	1413.3	210.5	1.7	0.8	1418.0	292.2	1.8	0.8	1426.0	452.6	4.8	4.8	21
22	1409.5	153.0	1.0	0.6	1413.4	212.2	1.7	0.8	1418.1	294.1	1.8	0.8	1425.0	432.6	4.9	4.8	22
23	1409.6	154.4	1.0	0.6	1413.5	213.8	1.7	0.8	1418.2	296.0	1.8	0.8	1424.5	421.9	4.4	9.7	23
24	1409.6	154.4	1.0	0.6	1413.6	215.4	1.7	0.8	1418.2	296.0	0.9	0.8	1423.7	404.9	4.2	12.7	24
25	1409.7	155.8	1.0	0.6	1413.7	217.1	1.7	0.8	1418.2	297.8	1.9	0.8	1423.0	390.2	5.3	12.7	25
26	1409.7	155.8	1.0	0.6	1413.7	217.1	0.9	0.8	1418.4	299.7	1.8	0.8	1422.2	373.8	5.7	11.9	26
27	1409.8	157.1	0.9	0.6	1413.8	218.7	1.7	0.8	1418.5	301.6	1.8	0.8	1421.6	361.7	4.2	10.3	27
28	1409.8	157.1	0.9	0.6	1413.9	220.4	1.7	0.8	1418.6	303.5	1.8	0.8	1421.0	349.7	3.8	9.8	28
29	1409.9	158.5	0.9	0.6	1414.0	222.0	1.7	0.8	1418.7	305.3	1.8	0.8	1420.7	343.8	2.7	5.6	29
30	1409.9	158.5	0.9	0.6	1414.1	223.7	1.7	0.8	1418.8	307.2	1.8	0.8	1420.9	347.7	3.0	1.0	30
31	1409.9	158.5	0.9	0.6					1418.8	307.2	0.7	0.6	1421.0	349.7	2.2	1.2	31
TOTAL			28.7	28.8			57.6	23.3			69.1	25.4			131.4	108.7	
Inf. Ac. Ft.			56.9				114.3				137.1				260.6		
Outf. Ac. Ft.			57.1 +(4.0)				46.2 +(2.9)				50.4 +(3.2)				215.6 +(2.5)		
Max. Mean Daily Inf.			2.7				5.5				7.7				18.8		
Min. Mean Daily Inf.			- 0.8				0.9				0.7				0.9		
Storage Change			- 4.3				65.2				83.5				42.5		

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	1421.2	353.7	3.2	1.2	1429.7	538.0	10.8	7.3	1438.6	760.7	11.9	24.0	1435.3	674.3	5.0	1.0	1
2	1421.3	355.7	2.1	1.0	1429.9	542.6	10.7	8.3	1437.6	734.0	10.7	24.0	1435.6	681.9	5.0	0.9	2
3	1421.6	361.7	4.2	1.2	1429.7	538.0	9.5	11.8	1436.7	710.4	12.3	24.0	1435.9	689.6	5.0	0.9	3
4	1421.9	367.7	4.1	1.0	1429.6	535.7	11.4	12.5	1436.1	694.8	10.5	18.0	1436.2	697.4	4.9	0.9	4
5	1422.1	371.8	3.1	1.0	1429.3	528.7	9.3	12.5	1435.8	687.1	11.5	15.2	1436.6	707.8	6.2	0.9	5
6	1423.2	394.4	12.8	1.4	1429.6	535.7	16.7	13.2	1435.6	681.9	10.7	13.2	1436.9	715.6	5.0	0.9	6
7	1424.6	424.0	16.3	1.4	1430.0	544.9	17.2	12.5	1435.4	676.8	10.8	13.2	1437.2	723.5	5.0	0.9	7
8	1425.4	441.3	10.1	1.4	1431.2	573.2	19.7	5.4	1435.1	669.1	8.8	12.5	1437.5	731.4	5.2	1.0	8
9	1425.9	452.2	6.9	1.4	1432.5	604.5	15.8	0.0	1435.1	669.1	9.1	8.9	1437.7	736.7	3.9	1.0	9
10	1427.4	485.5	18.3	1.5	1433.6	631.5	13.6	0.0	1435.1	669.1	8.4	8.3	1438.0	744.6	5.2	1.0	10
11	1447.7	1021.2	346.1	76.0	1436.3	700.0	34.7	0.1	1435.0	666.6	7.8	8.9	1438.2	749.9	3.9	1.0	11
12	1442.9	879.7	70.7	142.0	1438.2	749.9	25.2	0.0	1435.0	666.6	9.0	8.9	1438.5	758.0	5.2	1.0	12
13	1435.5	705.2	45.0	133.0	1439.1	774.1	23.0	10.7	1435.1	669.1	10.3	8.9	1438.7	763.3	4.0	1.0	13
14	1428.7	534.9	26.2	122.0	1438.8	766.0	21.1	25.0	1435.0	666.6	7.1	8.3	1439.0	771.4	5.2	1.0	14
15	1426.2	488.8	22.7	51.0	1438.2	749.9	17.0	25.0	1435.0	666.6	8.4	8.3	1439.2	776.8	3.9	1.0	15
16	1426.9	474.3	16.8	8.9	1437.5	731.4	14.7	24.0	1434.9	664.1	7.1	8.3	1439.4	782.3	3.9	1.0	16
17	1427.3	483.3	14.0	9.4	1436.9	715.6	16.1	24.0	1434.7	659.0	6.4	8.9	1439.3	779.5	5.4	6.6	17
18	1427.6	490.0	12.9	9.4	1436.0	692.2	12.3	24.0	1434.6	656.5	8.3	9.4	1438.6	760.7	4.0	13.2	18
19	1427.7	492.3	11.2	10.0	1435.7	684.5	12.8	16.6	1434.4	651.5	6.5	8.9	1437.9	741.9	4.0	13.2	19
20	1427.7	492.3	10.1	10.0	1437.9	741.9	29.1	0.1	1434.2	646.4	6.5	8.9	1437.3	726.1	5.3	13.2	20
21	1427.7	492.3	10.1	10.0	1439.4	782.3	20.5	0.1	1434.0	641.4	6.5	8.9	1436.6	707.8	4.7	13.8	21
22	1427.7	492.3	9.4	9.4	1440.5	812.4	21.5	6.2	1433.7	634.0	5.3	8.9	1435.9	689.6	4.8	13.8	22
23	1427.7	492.3	6.8	6.7	1441.0	826.2	19.5	12.5	1433.5	629.0	6.6	8.9	1435.2	671.7	5.0	13.8	23
24	1427.7	492.3	6.8	6.7	1441.3	834.6	17.5	13.2	1433.2	621.6	5.3	8.9	1434.5	654.0	5.0	13.8	24
25	1427.5	487.8	6.7	8.9	1441.6	843.0	17.5	13.2	1433.1	619.1	5.5	6.6	1433.9	638.9	6.2	13.8	25
26	1427.2	481.0	5.6	8.9	1441.8	848.6	16.1	13.2	1433.5	629.0	6.4	1.2	1433.2	621.8	5.2	13.8	26
27	1427.5	487.8	10.7	7.7	1442.3	862.7	16.5	9.4	1433.8	636.4	5.1	1.2	1432.5	604.5	4.9	13.2	27
28	1429.4	531.0	29.7	7.8	1442.0	854.2	14.1	18.2	1434.2	646.4	6.3	1.2	1431.8	587.8	4.9	13.2	28
29					1441.2	831.8	14.8	26.0	1434.5	654.0	5.1	1.0	1431.0	568.4	5.8	13.2	29
30					1440.3	806.9	12.5	25.0	1435.0	666.6	7.4	1.0	1430.3	552.0	5.1	13.2	30
31					1439.5	785.0	13.0	24.0					1429.6	535.7	5.1	13.2	31
TOTAL			742.6	649.9			524.2	394.0			241.6	296.8			149.9	210.4	
Inf. Ac. Ft.			1472.9				1039.8				479.2				297.3		
Outf. Ac. Ft.			1289.1 +(2.5)				781.5 +(4.4)				588.7 +(9.0)				417.3 +(10.9)		
Max. Mean Daily Inf.			346.1				34.7				12.3				6.2		
Min. Mean Daily Inf.			2.1				9.3				5.1				3.8		
Storage Change			183.3				254.0				- 118.4				- 130.9		

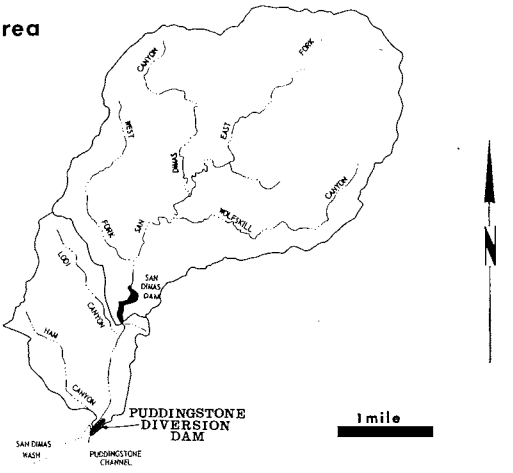
Day	JUNE				JULY				AUGUST				SEPTEMBER				Day
	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	
1	1428.9	519.5	5.1	13.2	1423.6	390.2	1.4	1.5	1421.9	367.7	1.2	1.5	1420.6	341.8	1.0	1.0	1
2	1428.3	506.8	6.3	13.2	1423.0	390.2	1.4	1.5	1421.8	365.7	1.2	1.5	1420.5	339.9	1.0	1.0	2
3	1427.6	490.0	5.3	13.2	1422.9	388.2	1.4	1.5	1421.8	365.7	1.2	1.5	1420.5	339.9	1.0	1.0	3
4	1426.8	472.1	4.3	13.2	1422.9	388.2	1.4	1.5	1421.7	363.7	1.2	1.5	1420.4	337.9	1.0	1.0	4
5	1426.1	456.6	5.6	13.2	1422.8	386.1	1.4	1.5	1421.7	363.7	1.2	1.5	1420.4	337.9	1.0	1.0	5
6	1425.3	439.1	4.6	13.2	1422.8	386.1	1.3	1.5	1421.6	361.7	1.2	1.5	1420.4	337.9	1.0	1.0	6
7	1424.4	419.7	3.7	13.2	1422.7	384.1	1.3	1.5	1421.6	361.7	1.2	1.5	1420.3	336.0	1.0	1.0	7
8	1423.6	402.8	4.9	13.2	1422.7	384.1	1.3	1.5	1421.6	361.7	1.2	1.5	1420.3	336.0	1.0	1.0	8
9	1422.7	384.1	4.1	13.2	1422.7	384.1	1.3	1.5	1421.6	361.7	1.2	1.5	1420.3	336.0	1.0	1.0	9
10	1421.9	367.7	4.5	12.5	1422.6	382.0	1.3	1.5	1421.6	361.7	1.2	1.5	1420.2	334.0	1.0	1.0	10
11	1421.6	361.7	2.9	5.7	1422.6	382.0	1.3	1.5	1421.6	361.7	1.2	1.5	1420.2	334.0	1.0	1.0	11
12	1421.8	365.7	3.4	1.2	1422.5	380.0	1.3	1.5	1421.5	359.7	1.2	1.5	1420.2	334.0	1.0	1.0	12
13	1422.0	369.7	3.4	1.2	1422.5	380.0	1.3	1.5	1421.5	359.7	1.2	1.5	1420.2	334.0	0.9	1.0	13
14	1422.1	371.8	2.4	1.2	1422.5	380.0	1.3	1.5	1421.5	359.7	1.2	1.5	1420.2	334.0	0.9	1.0	14
15	1422.3	375.9	3.1	0.9	1422.5	380.0	1.3	1.5	1421.5	359.7	1.2	1.5	1420.2	334.0	0.9	1.0	15
16	1422.5	380.0	3.1	0.9	1422.4	377.9	1.3	1.5	1421.4	357.7	1.2	1.5	1420.2	334.0	0.9	1.0	16
17	1422.6	382.0	2.1	0.9	1422.4	377.9	1.3	1.5	1421.4	357.7	1.2	1.5	1420.2	334.0	0.9	1.0	17
18	1422.8	386.1	3.1	0.8	1422.4	377.9	1.3	1.5	1421.4	357.7	1.2	1.5	1420.2	334.0	0.9	1.0	18
19	1423.0	390.2	3.2	0.8	1422.4	377.9	1.3	1.5	1421.3	355.7	1.2	1.5	1420.2	334.0	0.9	1.0	19
20	1423.0	390.2	1.0	0.6	1422.4	377.9	1.3	1.5	1421.2	353.7	1.2	1.5	1420.2	334.0	0.9	1.0	20
21	1423.1	392.3	2.0	0.6	1422.3	375.9	1.3	1.5	1421.1	351.7	1.2	1.5	1420.2	334.0	0.9	1.0	21
22	1423.2	394.4	2.3	0.9	1422.3	375.9	1.3	1.5	1421.1	351.7	1.2	1.4	1420.2	334.0	0.9	1.0	22
23	1423.2	394.4	1.8	1.5	1422.3	375.9	1.3	1.5	1421.0	349.7	1.2	1.4	1420.2	334.0	0.9	1.0	23
24	1423.2	394.4	1.8	1.5	1422.3	375.9	1.3	1.5	1420.9	347.7	1.2	1.4	1420.2	334.0	0.9	1.0	24
25	1423.1	392.3	0.7	1.5	1422.2	373.8	1.3	1.5	1420.9	347.7	1.1	1.2	1420.2	334.0	0.9	1.0	25
26	1423.1	392.3	1.7	1.5	1422.2	373.8	1.3	1.5	1420.8	345.8	1.1	1.2	1420.2	334.0	0.9	1.0	26
27	1423.1	392.3	1.7	1.5	1422.1	371.8	1.3	1.5	1420.8	345.8	1.1	1.2	1420.1	332.0	0.9	1.0	27
28	1423.1	392.3	1.7	1.5	1422.1	371.8	1.3	1.5	1420.8	345.8	1.1	1.2	1420.1	332.0	0.9	1.0	28
29	1423.1	392.3	1.7	1.5	1422.0	369.7	1.3	1.5	1420.7	343.8	1.1	1.2	1420.1	332.0	0.9	1.0	29
30	1423.1	392.3	1.7	1.5	1422.0	369.7	1.3	1.5	1420.6	341.8	1.1	1.0	1420.0	330.1	0.9	1.0	30
31					1421.9	367.7	1.3	1.5	1420.6	341.8	1.1	1.0					31
TOTAL			93.2	159.0			40.8	46.5			36.5	43.7			28.2	30.0	
Inf. Ac. Ft.			184.9				81.1				72.4				55.9		
Outf. Ac. Ft.			315.4 +(12.9)				92.2 +(13.5)				86.7 +(11.6)				59.5 +(8.1)		
Max. Mean Daily Inf.			6.3				1.4				1.2				1.0		
Min. Mean Daily Inf.			0.7				1.3				1.1				0.9		
Storage Change			- 143.4				- 24.6				- 25.9				- 11.7		

Max. W.S. Elev. 1447.79 feet on 2/11/73 Storage 1023.8 Acre-Feet
Min. W.S. Elev. 1410.20 feet on 10/1 /72 Storage 162.8 Acre-Feet
Max. Peak Inf. 685 CFS from 0600 on 2/11/73 to 0700 on 2/11/73
Max. Peak Outf. 149 CFS from 1200 on 2/11/73 to 1400 on 2/11/73

REMARKS: ( ) Indicates evaporation losses.
[ ] Indicates average for period.

PUDDINGSTONE DIVERSION DAM AND RESERVOIR

drainage area



PURPOSE -
Flood Control and Diversion of flow and Conservation

DATE CONSTRUCTED -
Started September 1927 - Completed July 1928

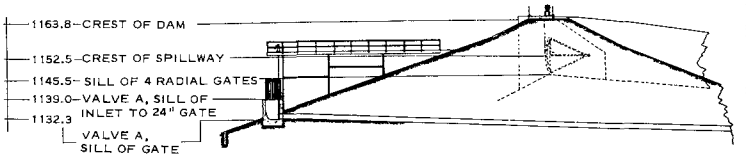
LOCATION - 2.0 miles northeast of San Dimas

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	OUTFLOW ANNUAL AF	PEAK INFLOW MO	DAY	CFS
1935-36	304	48	0	304	4	10	85
1936-37	5019	104	0	4646			N.D.
1937-38	11697	1640	0	11506	3	2	5760
1938-39	1288	28	0	1293	1	10	23
1939-40	350	26	0	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	0	7939	1	23	2040
1943-44	3406	357	0	3010	2	22	724
1944-45	1719	64	0	1294	2	2	88
1945-46	970	159	0	773	12	23	234
1946-47	1400	55	0	1109	12	26	58
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	3366	158	0	2910	1	16	201
1952-53	0	0	0	0			0
1953-54	628	57	0	429	2	14	82
1954-55	0	0	0	0			0
1955-56	196	34	0	128	1	26	93
1956-57	0	0	0	0			0
1957-58	5938	227	0	5172	4	3	284
1958-59	89	14	0	49	2	18	18
1959-60	0	0	0	0			0
1960-61	146	11	0	64	11	26	137
1961-62	3277	152	0	3106	11	20	2110
1962-63	827	95	0	515	2	9	640
1963-64	112	19	0	67	1	22	55
1964-65	873	69	0	538	4	9	239
1965-66	6471	320	0	5864	11	22	864
1966-67	13656	958	0	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	0	1524	12	21	61
1971-72	764	15	0	488	12	24	56
1972-73	3746	163	0	3321	2	11	219

N.D. = NOT DETERMINED

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

DAM OPERATION RECORD

Puddingstone Diversion Dam

1972-73

DRAINAGE AREA 9.67 SQ. MI.
CAPACITY OF RESERVOIR 146.2 AC. FT.,
at SPILLWAY ELEVATION 1152.5 FT.,
as of June, 19 73

GAGE HEIGHTS AND STORAGES ARE AS OF MIDNIGHT ON DAY SHOWN.

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	1142.8	42.4	4.4	0	1132.0	0	0	0	1134.0	2.2	0.1	0	1134.5	3.3	0	0	1
2	1142.7	41.6	1.8	0	1132.0	0	0	0	1133.9	2.0	0	0	1134.4	3.1	0	0	2
3	1142.1	37.2	0	0	1132.0	0	0	0	1133.9	2.0	0.1	0	1134.4	3.0	0	0	3
4	1139.8	23.3	0	3.9	1132.0	0	0	0	1137.5	13.2	6.0	0	1134.3	2.9	0.1	0	4
5	1136.3	8.5	0	4.9	1132.0	0	0	0	1137.2	11.9	0	0	1134.3	2.8	0	0	5
6	1133.3	1.0	0	1.7	1132.0	0	0	0	1136.9	10.7	0	0	1134.2	2.7	0	0	6
7	1132.4	0.2	0	0	1132.0	0	0	0	1137.4	12.6	1.4	0	1134.1	2.5	0	0	7
8	1132.0	0	0	0	1132.0	0	0	0	1137.3	12.0	0	0	1134.1	2.4	0.1	0	8
9	1132.0	0	0	0	1132.0	0	0	0	1137.0	11.2	0	0	1134.1	2.4	0.1	0	9
10	1132.0	0	0	0	1132.0	0	0	0	1136.9	10.6	0	0	1134.0	2.2	0	0	10
11	1132.0	0	0	0	1132.0	0	0	0	1136.7	9.9	0	0	1134.0	2.1	0.1	0	11
12	1132.0	0	0	0	1132.0	0	0	0	1136.6	9.5	0	0	1134.0	2.1	0.1	0	12
13	1132.0	0	0	.	1132.0	0	0	0	1136.5	9.2	0	0	1133.9	2.0	0.1	0	13
14	1132.0	0	0	0	1135.0	4.4	2.4	0	1136.4	8.8	0	0	1133.8	1.9	0	0	14
15	1132.0	0	0	0	1134.8	4.0	0	0	1136.3	8.3	0	0	1134.8	4.0	1.3	0	15
16	1132.0	0	0	0	1135.7	5.6	1.5	0	1136.1	7.9	0	0	1138.2	15.8	6.4	0	16
17	1132.0	0	0	0	1135.6	5.2	0	0	1136.0	7.4	0	0	1138.5	17.1	1.2	0	17
18	1132.0	0	0	0	1135.4	5.6	0	0	1135.9	7.0	0	0	1142.1	37.4	11.2	0	18
19	1132.0	0	0	0	1135.3	5.2	0	0	1135.8	6.7	0	0	1142.8	42.7	3.9	0	19
20	1132.0	0	0	0	1135.1	4.8	0	0	1135.6	6.3	0	0	1143.5	48.1	4.1	0	20
21	1132.0	0	0	0	1135.0	4.4	0	0	1135.5	6.0	0	0	1144.1	52.4	3.6	0	21
22	1132.0	0	0	0	1134.9	4.1	0	0	1135.4	5.7	0	0	1142.8	42.1	2.5	6.5	22
23	1132.0	0	0	0	1134.8	3.9	0	0	1135.3	5.3	0	0	1141.4	32.9	5.8	9.5	23
24	1132.0	0	0	0	1134.7	3.6	0	0	1135.2	5.0	0	0	1141.0	30.3	8.5	9.0	24
25	1132.0	0	0	0	1134.6	3.4	0	0	1135.1	4.7	0	0	1140.7	28.4	8.6	8.8	25
26	1132.0	0	0	0	1134.5	3.2	0	0	1135.0	4.4	0.1	0	1140.2	25.6	7.6	8.3	26
27	1132.0	0	0	0	1134.3	2.9	0	0	1134.9	4.2	0.1	0	1139.6	22.6	6.5	7.5	27
28	1132.0	0	0	0	1134.3	2.7	0	0	1134.8	4.0	0.1	0	1139.6	22.6	6.1	5.5	28
29	1132.0	0	0	0	1134.2	2.5	0	0	1134.8	3.8	0	0	1139.3	20.8	3.6	3.9	29
30	1132.0	0	0	0	1134.0	2.2	0	0	1134.7	3.7	0	0	1139.4	21.3	0.9	0	30
31	1132.0	0	0	0					1134.6	3.5	0	0	1139.5	22.0	0.9	0	31
TOTAL			6.2	10.5			4.9	0			7.9	0			83.4	59.0	
Inf. Ac. Ft.			12.7				7.8				15.7				165.3		
Outf. Ac. Ft.			20.8 +(29.5)				0 +(5.6)				0 +(14.5)				117.0 +(29.8)		
Max. Mean Daily Inf.			4.4				2.4				6.0				11.2		
Min. Mean Daily Inf.			0				0				0				0		
Storage Change			-38.0				2.2				1.3				18.5		

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	1139.6	22.5	0.8	0	1145.0	60.2	8.1	6.0	1142.9	42.8	22.4	23.0	1143.9	51.0	1.6	0	1
2	1139.7	22.8	0.7	0	1144.2	53.5	7.3	9.2	1142.5	40.5	22.9	23.0	1143.9	51.1	1.4	0	2
3	1140.3	26.0	2.3	0	1144.3	54.3	11.2	9.2	1142.3	38.8	22.3	22.0	1143.9	50.8	1.2	0	3
4	1140.4	26.6	1.0	0	1144.4	55.3	11.3	9.2	1142.9	42.9	17.4	14.2	1143.8	50.2	1.1	0	4
5	1140.5	27.0	1.0	0	1144.4	55.5	10.9	9.2	1143.6	48.6	12.9	8.6	1143.8	49.8	1.2	0	5
6	1141.9	35.9	5.5	0	1145.1	61.3	14.2	9.5	1144.1	52.8	12.4	8.8	1143.7	49.1	1.0	0	6
7	1143.3	46.6	6.4	0	1145.1	61.2	11.4	9.7	1144.5	56.1	12.5	9.2	1143.6	48.4	1.0	0	7
8	1143.4	47.4	2.0	0	1145.6	65.8	13.0	8.8	1144.7	57.5	11.5	9.2	1143.5	47.6	1.0	0	8
9	1143.5	48.0	1.7	0	1145.5	65.5	6.4	4.6	1144.1	53.0	8.4	9.2	1143.3	46.6	0.8	0	9
10	1144.7	57.7	6.5	0	1145.5	65.4	5.0	3.1	1143.5	48.2	7.7	8.8	1143.2	45.4	0.7	0	10
11	1146.5	74.8	146.8	136.0	1145.6	66.9	14.9	12.7	1143.1	44.7	8.2	8.6	1143.0	44.2	0.6	0	11
12	1146.5	74.9	163.3	161.0	1145.6	65.8	8.5	6.7	1143.1	44.3	8.3	7.3	1142.9	43.3	0.7	0	12
13	1146.4	73.5	153.4	152.0	1144.7	57.8	13.4	15.8	1142.7	41.5	6.2	6.4	1142.8	42.3	0.7	0	13
14	1146.3	72.8	136.7	135.0	1144.3	54.0	23.6	24.0	1142.8	42.7	8.2	6.4	1142.6	41.2	0.6	0	14
15	1145.3	63.6	98.2	91.0	1143.9	51.0	23.9	24.0	1143.0	43.7	8.1	6.4	1142.5	40.1	0.5	0	15
16	1144.8	59.1	8.0	8.6	1143.5	48.1	22.9	23.0	1143.1	44.5	7.9	6.2	1142.3	38.9	0.5	0	16
17	1144.3	54.4	8.4	9.2	1143.3	45.9	23.2	23.0	1143.3	46.4	8.7	6.4	1141.9	36.0	3.6	4.1	17
18	1143.8	49.8	8.1	9.0	1143.0	43.8	23.2	23.0	1143.5	48.0	8.6	6.4	1141.9	35.6	10.3	9.5	18
19	1143.2	45.8	8.1	8.8	1143.0	44.1	16.6	15.3	1143.7	49.6	8.8	6.6	1141.9	35.7	10.5	9.5	19
20	1142.8	42.3	8.5	9.0	1144.8	58.7	9.0	0	1144.9	50.8	9.5	7.5	1141.9	35.7	10.5	9.5	20
21	1142.4	39.5	8.7	9.0	1145.5	64.9	5.1	0	1144.0	51.6	9.2	7.3	1141.9	35.7	10.5	9.5	21
22	1141.9	36.2	8.1	8.8	1145.3	62.9	9.3	8.5	1144.1	52.5	9.3	7.3	1141.9	35.7	10.5	9.5	22
23	1141.1	30.8	5.7	7.5	1145.2	63.4	12.9	10.8	1144.2	53.6	9.4	7.3	1141.9	35.6	10.1	9.2	23
24	1140.3	26.0	4.9	6.6	1145.5	65.1	13.4	10.7	1144.3	54.6	9.6	7.5	1141.8	34.8	9.8	9.2	24
25	1140.3	26.1	7.0	6.2	1145.6	65.6	16.5	14.4	1143.9	51.4	7.4	7.5	1141.7	34.6	10.1	9.2	25
26	1140.3	26.2	7.1	6.4	1145.6	65.5	17.2	15.3	1143.5	47.5	1.2	1.9	1141.7	34.3	10.0	9.2	26
27	1141.3	31.6	7.9	4.3	1145.2	62.4	11.5	11.2	1143.6	48.3	1.8	0	1141.6	33.7	9.7	9.0	27
28	1144.9	59.3	15.4	0	1144.7	57.6	16.5	17.3	1143.6	49.0	1.8	0	1141.5	33.2	9.6	9.0	28
29					1144.3	54.1	23.7	24.0	1143.7	49.7	1.8	0	1141.3	32.2	9.4	9.0	29
30					1143.9	51.2	24.0	24.0	1143.8	50.6	1.8	0	1141.2	31.1	9.1	8.8	30
31					1143.3	46.3	22.6	24.0					1141.0	30.3	9.0	8.6	31
TOTAL			792.2	738.4			450.6	408.2			286.2	243.0			157.8	132.8	
Inf. Ac. Ft.			1571.3				893.8				567.6				313.1		
Outf. Ac. Ft.			1464.6 +(69.4)				805.7 +(101.2)				482.0 +(81.3)				263.4 +(70.0)		
Max. Mean Daily Inf.			163.3				24.0				22.9				10.5		
Min. Mean Daily Inf.			0.7				5.0				1.2				0.5		
Storage Change			37.3				-13.0				4.3				-20.3		

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	1141.1	30.4	9.5	8.6	1138.0	16.4	0.2	0	1134.1	1.8	0	1.0			0	0	1
2	1141.1	30.5	9.4	8.6	1137.9	12.0	0.2	0	1133.9	1.8	0	0			0	0	2
3	1141.1	30.5	9.1	8.3	1137.8	11.6	0.2	0	1133.7	1.3	0	0			0	0	3
4	1141.0	30.3	9.3	8.6	1137.7	11.5	0.2	0	1133.4	0.9	0	0			0	0	4
5	1141.0	30.0	9.3	8.6	1137.6	10.8	0.2	0	1133.1	0.5	0	0			0	0	5
6	1140.9	29.6	8.9	8.3	1137.5	10.4	0.2	0	1132.7	0.3	0	0			0	0	6
7	1140.8	29.1	8.7	7.7	1137.4	10.1	0.2	0	1131.8	0	0	0			0	0	7
8	1140.7	28.5	8.6	7.5	1137.3	9.7	0.1	0	1131.8	0	0	0			0	0	8
9	1140.6	27.9	7.8	7.3	1137.2	9.4	0.1	0	1131.8	0	0	0			0	0	9
10	1140.5	27.4	7.5	7.0	1137.1	9.1	0.1	0	1131.8	0	0	0			0	0	10
11	1140.0	27.7	3.8	2.9	1137.0	8.7	0.1	0	1131.8	0	0	0			0	0	11
12	1140.5	27.1	0.5	0	1136.9	8.5	0.2	0	1131.8	0	0	0			0	0	12
13	1140.4	26.5	0.4	0	1136.8	8.2	0.2	0	1131.8	0	0	0			0	0	13
14	1149.3	25.7	0.3	0	1136.7	7.9	0.2	0	1131.8	0	0	0			0	0	14
15	1140.1	25.0	0.2	0	1136.6	7.7	0.2	0	1131.8	0	0	0			0	0	15
16	1140.0	24.3	0.4	0	1136.5	7.4	0.2	0	1131.8	0	0	0			0	0	16
17	1139.9	23.6	0.4	0	1136.4	7.1	0.2	0	1131.8	0	0	0			0	0	17
18	1139.7	23.0	0.3	0	1136.3	6.8	0.2	0	1131.8	0	0	0			0	0	18
19	1139.6	22.3	0.3	0	1136.3	6.7	0.1	0	1131.8	0	0	0			0	0	19
20	1139.4	21.6	0.3	0	1136.2	6.4	0.1	0	1131.8	0	0	0			0	0	20
21	1139.3	20.9	0.3	0	1136.1	6.2	0.1	0	1131.8	0	0	0			0	0	21
22	1139.2	20.2	0.3	0	1136.0	6.0	0.1	0	1131.8	0	0	0			0	0	22
23	1139.0	19.5	0.2	0	1136.0	5.8	0.1	0	1131.8	0	0	0			0	0	23
24	1138.9	18.9	0.2	0	1135.9	5.6	0.1	0	1131.8	0	0	0			0	0	24
25	1138.8	18.4	0.2	0	1135.8	5.4	0.1	0	1131.8	0	0	0			0	0	25
26	1138.6	17.8	0.2	0	1135.7	5.2	0.1	0	1131.8	0	0	0			0	0	26
27	1138.5	17.3	0.2	0	1135.7	5.1	0.1	0	1131.8	0	0	0			0	0	27
28	1138.4	16.8	0.2	0	1135.6	4.9	0.1	0	1131.8	0	0	0			0	0	28
29	1138.3	16.2	0.2	0	1135.4	4.7	0.1	0	1131.8	0	0	0			0	0	29
30	1138.2	15.7	0.1	0	1135.4	4.5	0.1	0	1131.8	0	0	0			0	0	30
31					1135.4	4.4	0.1	0	1131.8	0	0	0			0	0	31
TOTAL			96.1	83.4			4.4	0			2	1.0			0	0	
Inf. Ac. Ft.			190.5				8.8				0				0		
Outf. Ac. Ft.			165.4 +(39.7)				0 +(17.3)				2.0 +(2.4)				0 +(0)		
Max. Mean Daily Inf.			9.5				0.2				0				0		
Min. Mean Daily Inf.			0.1				0.1				0				0		
Storage Change			-14.6				-8.5				- 4.4				0		

Max. W.S. Elev. 1146.7 feet on 2/11/73 Storage 76.8 Acre-Feet

Min. W.S. Elev. 1131.8 feet on various days Storage 0 Acre-Feet

Max. Peak Inf. 239. CFS from 12:00 noon on 2/11/73 to 2:00 P.M. on 2/11/74

Max. Peak Outf. 200 CFS from 3:00 P.M. on 2/11/73 to 3:15 P.M. on 2/11/74

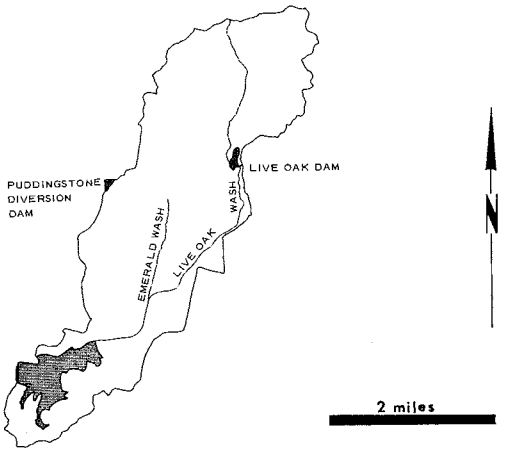
REMARKS: ( ) Indicates Percolation Losses

New Storage Table #19 used beginning July 1.

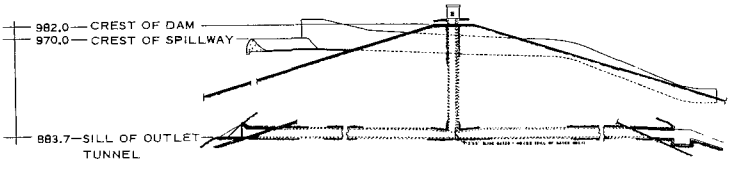
3.3 acre feet loss due to silitation

PUDDINGSTONE DAM AND RESERVOIR

drainage area



cross-section



PURPOSE - Flood Control and Recreation

DATE CONSTRUCTED -
Started February 1925 - Completed January 1928

LOCATION - 1.0 mile south of San Dimas

DRAINAGE AREA - 11.0 square miles (uncontrolled)
22.1 square miles (controlled)
Total 33.1 square miles

CAPACITY - 16,856 acre-feet

SPILLWAY ELEVATION - 970.0 feet

PUDDINGSTONE DAM

YEARLY RESERVOIR OPERATION SUMMARY

SEASON	INFLOW ANNUAL AF	INFLOW MAX-DAY CFS	INFLOW MIN-DAY CFS	OUTFLOW ANNUAL AF	PEAK INFLOW MO	PEAK INFLOW DAY	PEAK INFLOW CFS
1928-29	114	12	0	151			N.D.
1929-30	295	15	0	223			N.D.
1930-31	73	8.5	0	119			N.D.
1931-32	1547	162	0	1086			N.D.
1932-33	314	30	0	906			N.D.
1933-34	2669	596	0	1809			N.D.
1934-35	610	N.D.	N.D.	846	1	15	205
1935-36	703	54	0	969	4	10	590
1936-37	5732	303	0	2173	2	6	1480
1937-38	12221	2200	0	7544	3	2	5310
1938-39	1576	101	0	5305			N.D.
1939-40	646	54	0	2524	1	7	448
1940-41	12030	377	0	3308	3	4	1080
1941-42	475	30	0	4385	12	10	409
1942-43	10043	1130	0	4836	1	23	2300
1943-44	3408	525	0	3178	2	22	1030
1944-45	1615	139	0	2376	11	11	484
1945-46	1591	275	0	6009	12	23	929
1946-47	1414	96	0	788	11	13	445
1947-48	324	31	0	362	12	5	195
1948-49	336A	21	0	201	3	13	240
1949-50	493	55	0	140	2	6	178
1950-51	182	15	0	145	1	29	162
1951-52	4673	353	0	1857	1	16	952
1952-53	928	32	0	1140	12	1	358
1953-54	31282A	244	0	31609	1	25	600
1954-55	26065A	255	0	23287	11	11	338
1955-56	57309A	458	0	50771	1	26	1360
1956-57	50583A	216	0	53781	1	13	262
1957-58	6670	302	0	1976	4	3	690
1958-59	394	68	0	72	1	6	871
1959-60	837	80	0	40	1	12	148
1960-61	10900A	198	0	9416	11	6	179
1961-62	4463	173	0	33	12	2	963
1962-63	927	139	0	464	2	10	325
1963-64	594	43	0	0	1	22	242
1964-65	2675	153	0	7401	4	9	1770
1965-66	10456	444	0	3066	11	22	1590
1966-67	11508	1090	0	9988	12	6	2440
1967-68	15811	174	0	14275	3	8	760
1968-69	36802	2830	0	35754	1	25	4340
1969-70	1650	163	0.2	+	3	1	507
1970-71	1494	149	0.1	4094	12	18	365
1971-72	1007	186	+	+	12	24	538
1972-73	4038	341	0.1	+	2	11	604

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 DAM

1972-73

DRAINAGE AREA 33.1 SQ. MI.
CAPACITY OF RESERVOIR 16,856 AC. FT.,
at SPILLWAY ELEVATION 970.0 FT.,
as of November, 19 65

GAGE HEIGHTS AND STORAGES ARE AS OF MIDNIGHT ON DAY SHOWN.

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	923.9	3074.0	0.4	+	923.9	3071.2	0.2	+	924.9	3217.5	1.0	+	926.0	3382.7	0.5	+	1
2	923.9	3072.6	0.4	+	923.9	3069.7	0.2	+	924.9	3216.0	0.3	+	926.0	3381.1	0.5	+	2
3	923.9	3069.7	0.4	+	923.9	3068.3	0.2	+	924.9	3216.0	0.6	+	926.0	3381.1	0.6	+	3
4	923.9	3068.3	0.4	+	923.9	3066.9	0.2	+	925.8	3353.2	69.8	+	926.0	3382.7	0.6	+	4
5	923.9	3066.9	0.4	+	923.9	3066.9	0.2	+	925.8	3356.3	2.2	+	926.0	3382.7	0.6	+	5
6	923.9	3065.5	0.4	+	923.9	3065.5	0.2	+	925.8	3356.3	0.5	+	926.0	3382.7	0.6	+	6
7	923.9	3064.0	0.3	+	923.9	3065.5	0.2	+	926.1	3408.4	26.6	+	926.0	3381.1	0.6	+	7
8	923.9	3062.6	0.3	+	923.9	3065.5	0.3	+	926.1	3408.4	0.3	+	926.0	3382.7	0.6	+	8
9	923.9	3061.2	0.3	+	923.9	3064.0	0.3	+	926.1	3406.8	0.3	+	926.0	3390.6	4.2	+	9
10	923.8	3059.8	0.3	+	923.9	3064.0	0.3	+	926.1	3405.2	0.3	+	926.1	3395.5	2.6	+	10
11	923.8	3058.4	0.3	+	924.1	3101.8	19.5	+	926.1	3403.6	0.3	+	926.1	3393.9	0.4	+	11
12	923.8	3056.9	0.3	+	924.1	3100.4	0.2	+	926.1	3403.6	0.3	+	926.1	3395.5	0.4	+	12
13	923.8	3056.9	0.3	+	924.1	3098.9	0.1	+	926.1	3401.9	0.3	+	926.1	3395.5	0.4	+	13
14	923.8	3055.5	0.3	+	924.6	3155.2	28.8	+	926.1	3400.3	0.3	+	926.1	3393.9	0.4	+	14
15	923.8	3055.5	0.3	+	924.6	3156.2	0.2	+	926.1	3398.7	0.3	+	926.1	3393.9	0.5	+	15
16	923.8	3054.1	0.3	+	924.9	3219.0	32.5	+	926.1	3397.1	0.3	+	927.3	3504.7	108.4	+	16
17	923.8	3052.7	0.3	+	925.0	3232.5	7.4	+	926.1	3396.5	0.3	+	927.4	3609.7	3.5	+	17
18	923.8	3052.7	0.3	+	925.0	3230.9	0.2	+	926.1	3396.5	0.3	+	928.2	3749.3	70.7	+	18
19	924.0	3085.5	17.0	+	925.0	3230.9	0.2	+	926.1	3395.5	0.3	+	928.5	3794.9	23.3	+	19
20	924.1	3090.0	2.8	+	925.0	3229.4	0.2	+	926.1	3393.9	0.3	+	928.5	3798.4	2.5	+	20
21	924.1	3090.0	0.2	+	925.0	3227.9	0.2	+	926.1	3393.9	0.3	+	928.5	3798.4	0.7	+	21
22	924.1	3090.0	0.2	+	925.0	3226.4	0.2	+	926.1	3393.9	0.3	+	928.5	3798.4	0.4	+	22
23	924.0	3088.5	0.2	+	925.0	3224.9	0.1	+	926.1	3393.9	0.3	+	928.5	3798.4	0.8	+	23
24	924.0	3087.0	0.2	+	925.0	3223.5	0.1	+	926.0	3392.2	0.3	+	928.5	3798.4	0.9	+	24
25	924.0	3085.5	0.2	+	925.0	3223.5	0.1	+	926.0	3392.2	0.3	+	928.5	3800.1	1.6	+	25
26	924.0	3084.0	0.2	+	924.9	3222.0	0.1	+	926.0	3390.6	0.2	+	928.6	3822.9	11.7	+	26
27	924.0	3084.0	0.2	+	924.9	3220.5	0.1	+	926.0	3390.6	0.2	+	928.7	3835.2	6.7	+	27
28	924.0	3082.5	0.1	+	924.9	3220.5	0.1	+	926.0	3389.0	0.2	+	928.7	3833.5	0.6	+	28
29	924.0	3079.7	0.1	+	924.9	3219.0	0.1	+	926.0	3387.4	0.2	+	928.7	3833.5	0.5	+	29
30	924.0	3076.8	0.1	+	924.9	3217.5	0.1	+	926.0	3387.4	0.2	+	928.8	3845.7	6.6	+	30
31	923.9	3074.0	0.1	+					926.0	3385.8	0.2	+	928.8	3845.7	0.3	+	31
TOTAL			27.6	+			92.8	+			127.6	+			250.6	+	
Inf. Ac. Ft.			34.7				184.0				213.5				497.0		
Outf. Ac. Ft.			+ (36.1)				+ (40.5)				+ (45.2)				+ (37.1)		
Max. Mean Daily Inf.			17.0				32.5				69.8				196.4		
Min. Mean Daily Inf.			0.1				0.1				0.2				0.3		
Storage Change			- 1.4				143.5				168.3				459.9		

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	928.8	3845.7	0.4	+	939.5	6106.5	1.8	+	941.4	6520.9	0.5	+	941.1	6501.7	0.7	+	1
2	928.8	3845.7	0.7	+	939.5	6106.5	0.6	+	941.4	6518.4	0.5	+	941.1	6499.2	0.7	+	2
3	929.0	3885.6	22.7	+	939.5	6106.5	0.4	+	941.4	6516.8	0.5	+	941.1	6498.1	0.7	+	3
4	929.0	3891.4	0.9	+	939.5	6109.0	2.3	+	941.4	6515.2	0.5	+	941.1	6498.1	0.7	+	4
5	929.0	3895.0	1.8	+	939.5	6109.0	1.3	+	941.3	6513.7	0.5	+	941.1	6496.4	0.7	+	5
6	929.6	3927.2	52.2	+	939.8	6176.7	34.8	+	941.3	6512.1	0.5	+	941.0	6493.8	0.7	+	6
7	930.0	4081.4	46.5	+	939.8	6186.4	4.9	+	941.3	6510.7	0.5	+	941.0	6491.3	0.7	+	7
8	930.1	4088.9	3.8	+	940.2	6260.9	46.7	+	941.3	6509.1	0.5	+	941.0	6478.7	0.7	+	8
9	930.1	4088.9	4.0	+	940.6	6274.9	3.4	+	941.3	6542.6	0.5	+	941.0	6476.1	0.7	+	9
10	930.3	4124.7	14.4	+	940.6	6279.8	3.3	+	941.3	6540.0	0.5	+	941.0	6473.6	0.7	+	10
11	933.7	4830.8	340.9	+	940.6	6381.6	51.8	+	941.3	6540.0	0.5	+	941.0	6471.1	0.7	+	11
12	935.3	5148.9	175.5	+	940.7	6396.6	8.1	+	941.3	6537.5	0.5	+	941.0	6468.1	0.7	+	12
13	937.1	5542.4	198.5	+	940.7	6399.1	2.0	+	941.3	6536.0	0.4	+	941.0	6466.1	0.7	+	13
14	938.3	5806.1	132.6	+	940.7	6401.5	2.3	+	941.2	6532.4	0.4	+	941.0	6463.6	0.7	+	14
15	938.8	5933.6	64.8	+	940.7	6401.5	1.3	+	941.2	6529.2	0.4	+	941.0	6461.1	0.7	+	15
16	938.8	5945.4	6.6	+	940.7	6399.1	0.1	+	941.2	6529.2	0.4	+	940.9	6458.7	0.7	+	16
17	938.9	5952.4	4.5	+	940.7	6399.1	1.3	+	941.2	6526.4	0.4	+	940.9	6456.1	0.7	+	17
18	938.9	5957.2	4.0	+	940.7	6399.1	1.3	+	941.2	6526.4	0.5	+	940.9	6453.7	0.6	+	18
19	938.9	5961.9	3.4	+	940.7	6399.1	0.7	+	941.2	6529.2	0.4	+	940.9	6451.2	0.6	+	19
20	938.9	5964.5	1.9	+	941.1	6422.2	51.3	+	941.2	6527.3	0.4	+	940.9	6448.7	0.6	+	20
21	938.9	5969.0	3.4	+	941.3	6555.4	29.6	+	941.2	6524.7	1.2	+	940.9	6446.2	0.6	+	21
22	938.9	5969.0	0.6	+	941.4	6568.2	7.0	+	941.2	6522.2	1.6	+	940.9	6443.7	0.6	+	22
23	939.0	5971.3	1.7	+	941.4	6570.7	2.5	+	941.2	6519.6	1.6	+	940.9	6441.3	0.6	+	23
24	939.0	5971.3	0.5	+	941.4	6570.7	0.8	+	941.2	6517.1	0.5	+	940.9	6441.3	0.6	+	24
25	939.0	5973.7	1.9	+	941.4	6570.7	1.3	+	941.2	6514.5	0.4	+	940.9	6441.3	0.6	+	25
26	939.0	5973.7	0.9	+	941.4	6573.3	1.8	+	941.2	6512.0	0.4	+	940.9	6438.8	0.6	+	26
27	939.1	6004.9	16.4	+	941.4	6575.8	1.9	+	941.1	6509.4	0.4	+	940.9	6436.3	0.6	+	27
28	939.5	6104.1	51.2	+	941.5	6588.6	6.4	+	941.1	6509.4	0.4	+	940.6	6433.8	0.6	+	28
29					941.4	6586.1	0.1	+	941.1	6506.8	0.4	+	940.8	6428.8	0.6	+	29
30					941.4	6583.5	0.1	+	941.1	6504.3	0.4	+	940.8	6426.3	0.6	+	30
31					941.4	6583.5	0.5	+					940.8	6423.9	0.6	+	31
TOTAL			1153.6	+			208.1	+			18.9	+			29.3	+	
Inf. Ac. Ft.			2288.1				531.8				37.4				40.3		
Outf. Ac. Ft.			+ (29.7)				+ (52.4)				+ (116.6)				+ (120.6)		
Max. Mean Daily Inf.			340.9				51.8				2.7				0.7		
Min. Mean Daily Inf.			0.4				0.1				0.4				0.6		
Storage Change			2258.4				479.4				- 79.8				- 80.4		

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	940.8	6421.4	1.0	+	940.4	6314.6	0.6	+	939.9	6179.1	1.0	+	939.4	6071.7	0.7	+	1
2	940.8	6418.9	1.0	+	940.3	6309.6	0.6	+	939.8	6174.2	1.0	+	939.4	6069.8	0.7	+	2
3	940.8	6416.4	1.0	+	940.3	6304.6	0.6	+	939.8	6169.4	1.0	+	939.3	6065.9	0.7	+	3
4	940.8	6413.9	1.0	+	940.3	6302.1	0.6	+	939.8	6167.0	1.0	+	939.3	6060.0	0.7	+	4
5	940.8	6413.9	1.0	+	940.3	6297.2	0.6	+	939.8	6162.2	1.0	+	939.3	6058.0	0.7	+	5
6	940.8	6411.4	1.0	+	940.3	6292.3	0.6	+	939.7	6159.8	1.0	+	939.3	6055.7	0.7	+	6
7	940.7	6408.5	1.0	+	940.3	6287.3	0.6	+	939.7	6157.4	1.0	+	939.3	6053.3	0.7	+	7
8	940.7	6404.0	1.0	+	940.2	6282.3	0.6	+	939.7	6155.0	1.0	+	939.3	6048.5	0.7	+	8
9	940.7	6399.1	1.0	+	940.2	6277.3	0.6	+	939.7	6152.5	1.0	+	939.3	6046.1	0.7	+	9
10	940.7	6396.6	1.0	+	940.2	6274.9	0.6	+	939.7	6150.1	0.9	+	939.3	6043.6	0.7	+	10
11	940.7	6391.6	1.0	+	940.2	6269.9	0.6	+	939.7	6147.7	0.9	+	939.3	6041.3	0.7	+	11
12	940.7	6389.1	1.0	+	940.2	6267.4	0.6	+	939.7	6145.3	0.9	+	939.2	6038.4	0.7	+	12
13	940.6	6384.1	1.0	+	940.2	6262.4	0.6	+	939.7	6142.9	0.9	+	939.2	6036.0	0.7	+	13
14	940.6	6381.6	1.0	+	940.1	6257.4	0.6	+	939.7	6140.5	0.9	+	939.2	6033.6	0.7	+	14
15	940.6	6379.2	1.0	+	940.1	6255.5	0.6	+	939.7	6138.0	0.9	+	939.2	6029.2	0.7	+	15
16	940.6	6376.7	1.0	+	940.1	6250.0	0.6	+	939.7	6140.4	0.9	+	939.2	6026.7	0.6	+	16
17	940.6	6371.7	1.0	+	940.1	6245.0	0.6	+	939.6	6138.0	0.9	+	939.2	6024.3	0.6	+	17
18	940.6	6369.2	1.0	+	940.1	6240.0	0.6	+	939.6	6135.6	0.9	+	939.2	6021.9	0.6	+	18
19	940.6	6366.2	1.0	+	940.1	6237.6	0.6	+	939.6	6130.7	0.9	+	939.1	6017.1	0.6	+	19
20	940.5	6359.3	1.0	+	940.0	6232.6	0.6	+	939.6	6128.3	0.9	+	939.1	6017.1	0.6	+	20
21	940.5	6354.3	1.0	+	940.0	6227.6	0.6	+	939.6	6125.9	0.9	+	939.1	6014.6	0.6	+	21
22	940.5	6351.8	1.0	+	940.0	6222.7	0.6	+	939.6	6118.6	0.9	+	939.1	6012.2	0.6	+	22
23	940.5	6346.9	1.0	+	940.0	6217.7	0.6	+	939.5	6113.8	0.9	+	939.1	6009.8	0.6	+	23
24	940.5	6341.9	1.0	+	940.0	6215.4	0.6	+	939.5	6106.5	0.9	+	939.1	6004.9	0.6	+	24
25	940.5	6336.9	1.0	+	939.9	6210.6	0.6	+	939.5	6101.7	0.9	+	939.1	6002.5	0.6	+	25
26	940.4	6332.0	1.0	+	939.9	6205.7	0.6	+	939.5	6096.9	0.9	+	939.1	5997.7	0.6	+	26
27	940.4	6329.0	0.9	+	939.9	6200.9	0.6	+	939.4	6089.6	0.9	+	939.0	5993.8	0.6	+	27
28	940.4	6327.0	0.9	+	939.9	6196.1	0.6	+	939.4	6087.2	0.9	+	939.0	5990.4	0.6	+	28
29	940.4	6324.5	0.9	+	939.9	6191.2	0.6	+	939.4	6082.4	0.9	+	939.0	5988.0	0.6	+	29
30	940.4	6319.5	0.9	+	939.8	6186.4	0.6	+	939.4	6075.1	0.9	+	939.0	5985.6	0.6	+	30
31					939.8	6181.5	0.5	+	939.4	6075.1	0.9	+					31
TOTAL			23.6	+			18.5	+			28.8	+			19.5	+	
Inf. Ac. Ft.			58.7				36.7				57.1				38.7		
Outf. Ac. Ft.			+ (163.0)				+ (174.7)				+ (163.5)				+ (128.1)		
Max. Mean Daily Inf.			1.0				0.6				1.0				0.7		
Min. Mean Daily Inf.			0.9				0.5				0.9				0.6		
Storage Change			- 104.4				- 138.0				- 106.4				- 89.5		

Max. W.S. Elev. 941.46 feet on 3/29/73 Storage 6588.6 Acre-Feet

Min. W.S. Elev. 923.80 feet on 10/18/72 Storage 3052.7 Acre-Feet

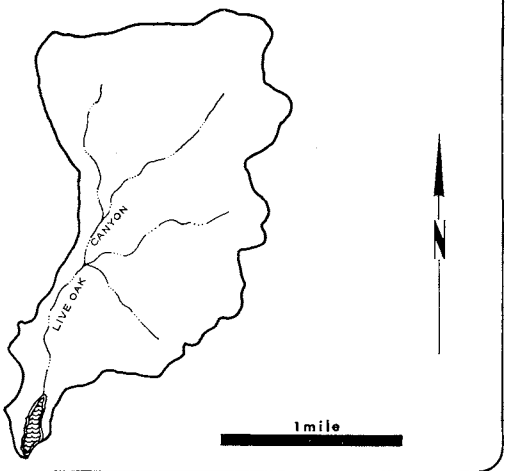
Max. Peak Inf. 604 CFS from 0600 on 2/11/73 to 0700 on 2/11/73

Max. Peak Outf. + CFS from on to on all year

REMARKS: ( ) Indicates Evaporation and other losses.
( ) Indicates average for period.

LIVE OAK DAM AND RESERVOIR

drainage area



PURPOSE -
Flood Control and Conservation

DATE CONSTRUCTED -
Started August 1921 - Completed November 1922

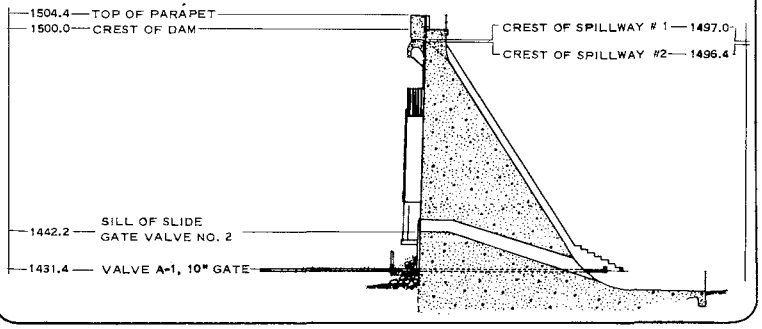
LOCATION - 2.5 miles northeast of La Verne

DRAINAGE AREA - 2.3 square miles

CAPACITY - 240 acre-feet

SPILLWAY ELEVATION - 1,496.0 feet

cross-section



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	0	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	0	+	+	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	0	0	0	0			0
1948-49	0	0	0	0			0
1949-50	4.7	0.3	0	3.6	12	19	2.6
1950-51	0	0	0	0			0
1951-52	362	34	0	343	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	0.3	+	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	0	699	4	3	67
1958-59	5.6	0.8	0	5.4	1	6	9.2
1959-60	0	0	0	0			0
1960-61	4.8	0.7	0	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	0.8	0	0	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	0	243	12	21	16
1971-72	71	3.5	0	71	12	24	5
1972-73	291	34	0	290	2	11	52

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

1972-73

DRAINAGE AREA 2.28 SQ. MI.
CAPACITY OF RESERVOIR 244.6 AC. FT.,
at SPILLWAY ELEVATION 1496.4 FT.,
as of October, 19 70

GAGE HEIGHTS AND STORAGES ARE AS OF MIDNIGHT ON DAY SHOWN.

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	1437.0	+	+	0	1437.0	+	+	0	1445.5	1.5	+	+	1452.9	6.8	0.1	+	1
2	1437.0	+	+	0	1437.0	+	+	0	1445.5	1.5	+	+	1453.0	6.9	0.1	+	2
3	1437.0	+	+	0	1437.0	+	+	0	1445.6	1.5	+	+	1453.2	7.2	0.1	+	3
4	1437.0	+	+	0	1437.0	+	+	0	1449.0	3.3	0.9	+	1453.3	7.3	0.1	+	4
5	1437.0	+	+	0	1437.0	+	+	0	1448.9	3.2	0.1	+	1453.4	7.5	0.1	+	5
6	1437.0	+	+	0	1437.0	+	+	0	1448.9	3.2	+	+	1453.6	7.7	0.1	+	6
7	1437.0	+	+	0	1437.0	+	+	0	1450.0	4.0	0.4	+	1453.7	7.8	0.1	+	7
8	1437.0	+	+	0	1437.0	+	+	0	1450.3	4.2	0.1	+	1453.8	8.0	0.1	+	8
9	1437.0	+	+	0	1437.0	+	+	0	1450.5	4.4	0.1	+	1454.0	8.2	0.1	+	9
10	1437.0	+	+	0	1437.0	+	+	0	1450.7	4.6	0.1	+	1454.1	8.4	0.1	+	10
11	1437.0	+	+	0	1437.0	+	+	+	1450.8	4.7	+	+	1454.2	8.5	0.1	+	11
12	1437.0	+	+	0	1437.0	+	+	+	1450.8	4.7	+	+	1454.4	8.8	0.1	+	12
13	1437.0	+	+	0	1440.0	0.2	0.1	+	1450.5	4.4	+	+	1454.4	8.8	+	+	13
14	1437.0	+	+	0	1443.6	0.9	0.4	+	1450.6	4.5	+	+	1454.5	8.9	0.1	+	14
15	1437.0	+	+	0	1444.0	1.0	0.1	+	1459.7	4.6	+	+	1454.6	9.1	0.1	+	15
16	1437.0	+	+	0	1445.7	1.6	0.3	+	1450.8	4.7	+	+	1456.2	11.7	1.3	+	16
17	1437.0	+	+	0	1446.6	1.9	0.2	+	1451.0	4.8	0.1	+	1456.7	12.6	0.5	+	17
18	1437.0	+	+	0	1446.3	1.8	+	+	1451.1	4.9	+	+	1459.1	17.5	2.5	+	18
19	1437.0	+	+	0	1446.1	1.7	+	+	1451.2	5.0	+	+	1460.4	20.6	1.6	+	19
20	1437.0	+	+	0	1446.0	1.7	+	+	1451.4	5.2	0.1	+	1460.8	21.7	0.5	+	20
21	1437.0	+	+	0	1445.8	1.6	+	+	1451.5	5.3	+	+	1461.0	22.2	0.3	+	21
22	1437.0	+	+	0	1445.8	1.6	+	+	1451.6	5.4	+	+	1461.2	22.7	0.3	+	22
23	1437.0	+	+	0	1445.7	1.6	+	+	1451.7	5.5	+	+	1461.3	23.0	0.1	+	23
24	1437.0	+	+	0	1445.6	1.5	+	+	1451.9	5.7	0.1	+	1461.4	23.3	0.1	+	24
25	1437.0	+	+	0	1445.6	1.5	+	+	1452.0	5.8	+	+	1461.5	23.5	0.1	+	25
26	1437.0	+	+	0	1445.5	1.5	+	+	1452.1	5.9	0.1	+	1461.6	23.8	0.1	+	26
27	1437.0	+	+	0	1445.5	1.5	+	+	1452.2	6.0	0.1	+	1461.8	24.4	0.3	+	27
28	1437.0	+	+	0	1445.5	1.5	+	+	1452.4	6.3	0.1	+	1461.9	24.6	0.1	+	28
29	1437.0	+	+	0	1445.5	1.5	+	+	1452.5	6.4	0.1	+	1462.0	24.9	0.1	+	29
30	1437.0	+	+	0	1445.5	1.5	+	+	1452.6	6.5	0.1	+	1462.1	25.2	0.1	+	30
31	1437.0	+	+	0					1452.7	6.6	0.1	+	1462.2	25.5	0.1	+	31
TOTAL			+	0			1.1	+			2.5	+			9.5	+	
Inf. Ac. Ft.			+				2.2				5.2				18.9		
Outf. Ac. Ft.			0	+(0)			+	+(0.7)			+	+(0.1)			+	+(0)	
Max. Mean Daily Inf.			0				0.4				0.9				2.5		
Min. Mean Daily Inf.			0				0.0				+				+		
Storage Change			0				1.5				5.1				18.9		

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	1462.3	25.8	0.1	+	1447.1	2.2	0.9	2.2	1473.1	67.8	0.4	+	1444.9	1.3	0.3	0.3	1
2	1462.4	26.1	0.1	+	1445.4	1.5	0.9	1.0	1473.3	68.9	0.4	+	1444.9	1.3	0.3	0.3	2
3	1462.7	26.9	0.4	+	1445.4	1.5	0.9	0.9	1473.5	69.9	0.4	+	1444.9	1.3	0.3	0.3	3
4	1462.9	27.5	0.3	+	1445.3	1.4	0.9	1.0	1473.6	70.4	0.4	+	1444.9	1.3	0.3	0.3	4
5	1463.0	27.8	0.1	+	1445.3	1.4	0.8	0.9	1473.8	71.4	0.4	+	1444.9	1.3	0.3	0.3	5
6	1463.9	30.6	1.4	+	1445.7	1.6	1.4	1.3	1473.9	71.9	0.4	+	1444.9	1.3	0.3	0.3	6
7	1465.1	34.5	2.0	+	1446.2	1.8	1.6	1.5	1474.1	73.0	0.4	+	1444.9	1.3	0.3	0.3	7
8	1465.7	36.6	1.0	+	1453.0	5.8	2.6	0.6	1474.2	73.5	0.4	+	1444.9	1.3	0.3	0.3	8
9	1466.0	37.6	0.5	+	1454.6	9.1	1.7	+	1474.3	74.0	0.3	+	1444.9	1.3	0.3	0.3	9
10	1467.2	42.0	2.2	+	1456.2	11.7	1.3	+	1474.4	74.6	0.3	+	1444.9	1.3	0.3	0.3	10
11	1480.3	109.3	33.9	+	1460.0	19.6	4.0	+	1474.6	75.6	0.3	+	1444.9	1.3	0.3	0.3	11
12	1482.5	124.1	7.5	+	1461.8	24.1	2.4	+	1474.7	76.2	0.3	+	1444.9	1.3	0.3	0.3	12
13	1483.9	134.1	5.0	+	1463.1	28.1	1.9	+	1474.8	76.7	0.3	+	1444.9	1.3	0.3	0.3	13
14	1484.5	138.5	2.2	+	1464.1	31.2	1.6	+	1474.9	77.2	0.3	+	1444.9	1.3	0.3	0.3	14
15	1484.1	135.6	1.2	2.7	1464.8	33.5	1.1	+	1475.0	77.8	0.3	+	1444.9	1.3	0.3	0.3	15
16	1482.5	124.1	0.6	6.4	1465.4	35.5	1.0	+	1474.0	72.4	0.3	2.9	1444.9	1.3	0.3	0.3	16
17	1480.7	111.9	0.4	6.4	1465.9	37.2	0.9	+	1471.5	60.1	0.3	6.4	1444.9	1.3	0.3	0.3	17
18	1478.8	99.8	0.5	6.6	1466.4	39.0	0.9	+	1468.8	48.3	0.3	6.1	1444.9	1.3	0.3	0.3	18
19	1476.8	87.9	0.4	6.4	1466.8	40.5	0.7	+	1466.1	38.0	0.3	5.8	1444.9	1.3	0.3	0.3	19
20	1474.8	76.7	0.5	6.1	1468.0	45.0	2.3	+	1463.1	28.1	0.3	5.6	1444.9	1.3	0.3	0.3	20
21	1472.6	65.4	0.4	6.1	1468.7	47.9	1.4	+	1459.4	18.2	0.3	5.1	1444.9	1.3	0.3	0.3	21
22	1470.2	54.2	0.2	5.8	1469.4	50.8	1.5	+	1454.3	8.7	0.3	4.8	1444.9	1.3	0.3	0.3	22
23	1467.6	42.5	0.2	5.6	1469.9	52.9	1.1	+	1447.2	2.2	0.3	3.2	1444.9	1.3	0.3	0.3	23
24	1464.8	33.5	0.3	5.3	1470.4	55.1	1.1	+	1444.9	1.3	0.3	0.4	1444.9	1.3	0.3	0.3	24
25	1461.6	23.8	0.2	5.1	1470.8	56.9	0.9	+	1444.9	1.3	0.3	0.4	1444.9	1.3	0.3	0.3	25
26	1457.8	14.7	0.2	4.8	1471.1	58.2	0.7	+	1444.9	1.3	0.3	0.4	1444.9	1.3	0.3	0.3	26
27	1453.7	7.8	0.8	4.3	1471.5	60.1	0.9	+	1444.9	1.3	0.3	0.3	1444.9	1.3	0.3	0.3	27
28	1450.7	4.6	2.5	4.1	1472.0	62.4	1.2	+	1444.9	1.3	0.3	0.4	1444.9	1.3	0.3	0.3	28
29					1472.3	63.9	0.7	+	1444.9	1.3	0.3	0.4	1444.9	1.3	0.3	0.3	29
30					1472.6	65.4	0.7	+	1444.9	1.3	0.3	0.4	1444.9	1.3	0.3	0.3	30
31					1472.8	66.4	0.5	+					1444.9	1.3	0.3	0.3	31
TOTAL			65.1	75.7			40.5	9.4			9.8	42.6			9.3	9.3	
Inf. Ac. Ft.			129.2				80.3				19.4				18.4		
Outf. Ac. Ft.			150.1+(0)				18.6 +(0)				84.5+(0)				18.4+(0)		
Max. Mean Daily Inf.			33.9				4.0				0.4				0.3		
Min. Mean Daily Inf.			0.1				0.5				0.3				0.3		
Storage Change			- 20.9				61.8				- 65.1				0.0		

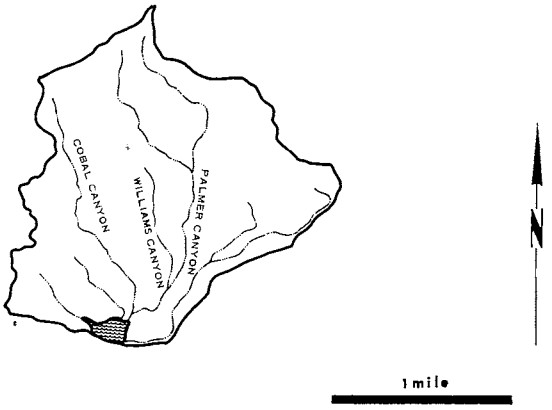
Day	JUNE				JULY				AUGUST				SEPTEMBER				Day
	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	Gage Height	Acre-Ft. Storage	CFS Inflow	CFS Outflow	
1	1444.9	1.3	0.2	0.2	1443.7	0.9	0.1	0.1	1437.0	+	+	+	1437.0	+	+	+	1
2	1444.9	1.3	0.2	0.2	1443.5	0.9	0.1	0.1	1437.0	+	+	+	1437.0	+	+	+	2
3	1444.9	1.3	0.2	0.2	1443.5	0.9	0.1	0.1	1437.0	+	+	+	1437.0	+	+	+	3
4	1444.9	1.3	0.2	0.2	1443.5	0.9	0.1	0.1	1437.0	+	+	+	1437.0	+	+	+	4
5	1444.9	1.3	0.2	0.2	1443.5	0.9	0.1	0.1	1437.0	+	+	+	1437.0	+	+	+	5
6	1444.9	1.3	0.2	0.2	1443.5	0.9	0.1	0.1	1437.0	+	+	+	1437.0	+	+	+	6
7	1444.9	1.3	0.2	0.2	1443.5	0.9	0.1	0.1	1437.0	+	+	+	1437.0	+	+	+	7
8	1444.9	1.3	0.2	0.2	1443.5	0.9	0.1	0.1	1437.0	+	+	+	1437.0	+	+	+	8
9	1444.9	1.3	0.2	0.2	1443.5	0.9	0.1	0.1	1437.0	+	+	+	1437.0	+	+	+	9
10	1444.9	1.3	0.2	0.2	1443.4	0.9	0.1	0.1	1437.0	+	+	+	1437.0	+	+	+	10
11	1444.9	1.3	0.2	0.2	1443.4	0.9	0.1	0.1	1437.0	+	+	+	1437.0	+	+	+	11
12	1444.9	1.3	0.2	0.2	1443.4	0.8	0.1	0.1	1437.0	+	+	+	1437.0	+	+	+	12
13	1444.9	1.3	0.2	0.2	1443.2	0.8	0.1	0.1	1437.0	+	+	+	1437.0	+	+	+	13
14	1444.9	1.3	0.2	0.2	1443.2	0.8	0.1	0.1	1437.0	+	+	+	1437.0	+	+	+	14
15	1444.9	1.3	0.2	0.2	1443.1	0.8	0.1	0.1	1437.0	+	+	+	1437.0	+	+	+	15
16	1444.9	1.3	0.2	0.2	1443.0	0.8	0.1	0.1	1437.0	+	+	+	1437.0	+	+	+	16
17	1444.9	1.3	0.2	0.2	1443.0	0.8	0.1	0.1	1437.0	+	+	+	1437.0	+	+	+	17
18	1444.9	1.3	0.2	0.2	1442.9	0.7	0.1	0.1	1437.0	+	+	+	1437.0	+	+	+	18
19	1444.9	1.3	0.2	0.2	1442.9	0.7	0.1	0.1	1437.0	+	+	+	1437.0	+	+	+	19
20	1444.9	1.3	0.2	0.2	1442.8	0.7	0.1	0.1	1437.0	+	+	+	1437.0	+	+	+	20
21	1444.9	1.3	0.2	0.2	1442.7	0.7	0.1	0.1	1437.0	+	+	+	1437.0	+	+	+	21
22	1444.9	1.3	0.2	0.2	1442.6	0.7	0.1	0.1	1437.0	+	+	+	1437.0	+	+	+	22
23	1444.9	1.3	0.2	0.2	1442.6	0.7	0.1	0.1	1437.0	+	+	+	1437.0	+	+	+	23
24	1444.9	1.3	0.2	0.2	1442.5	0.6	0.1	0.1	1437.0	+	+	+	1437.0	+	+	+	24
25	1444.9	1.3	0.2	0.2	1442.0	0.6	0.1	0.1	1437.0	+	+	+	1437.0	+	+	+	25
26	1444.7	1.2	0.2	0.2	1441.5	0.4	0.1	0.1	1437.0	+	+	+	1437.0	+	+	+	26
27	1444.5	1.2	0.2	0.2	1441.0	0.3	0.1	0.1	1437.0	+	+	+	1437.0	+	+	+	27
28	1444.4	1.1	0.2	0.2	1440.5	0.3	+	0.1	1437.0	+	+	+	1437.0	+	+	+	28
29	1444.2	1.1	0.2	0.2	1440.0	0.2	+	0.1	1437.0	+	+	+	1437.0	+	+	+	29
30	1444.0	1.0	0.2	0.2	1439.5	0.2	+	0.1	1437.0	+	+	+	1437.0	+	+	+	30
31					1439.0	0.1	+	0.1	1437.0	+	+	+					31
TOTAL			5.8	6.0			2.7	3.2			+	+			+	+	
Inf. Ac. Ft.			11.6				5.4				+				+		
Outf. Ac. Ft.			11.9+(0)				6.3 +(0)				+ +(0)				+ +(0)		
Max. Mean Daily Inf.			0.4				0.1				+				+		
Min. Mean Daily Inf.			0.1				+				+				+		
Storage Change			- 0.3				- 0.9				0				0		

Max. W.S. Elev. 1484.8 feet on 2/15/73 Storage (140.7) Acre-Feet
Min. W.S. Elev. 1437.0 feet on various dates Storage + Acre-Feet
Max. Peak Inf. 52 CFS from 0600 on 2/11/73 to 0700 on 2/11/73
Max. Peak Outf. 6.6 CFS from 1500 on 2/15/73 to 1545 on 2/15/73

REMARKS: ( ) Indicates evaporation and percolation losses.
[Indicates average for period

THOMPSON CREEK DAM AND RESERVOIR

drainage area



PURPOSE -
Flood Control and Conservation

DATE CONSTRUCTED -
Started September 1925 - Completed March 1928

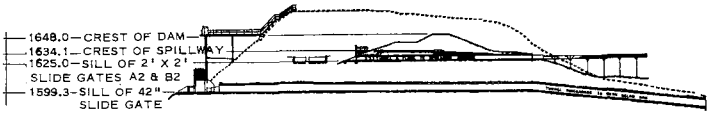
LOCATION - 3.0 miles north of claremont

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	INFLOW ANNUAL AF	INFLOW MAX-DAY CFS	INFLOW MIN-DAY CFS	OUTFLOW ANNUAL AF	PEAK INFLOW MO	PEAK INFLOW DAY	PEAK INFLOW CFS
1931-32	81	12	0	81	2	9	91
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	580
1938-39	21	0.6	0	0	1	30	1.1
1939-40	49	4.5	0	0	1	7	26
1940-41	640	46	0	2.8	3	4	97
1941-42	0.3	+	0	0	12	10	0.5
1942-43	767	121	0	334	1	23	270
1943-44	286	56	0	0	2	22	111
1944-45	149	18	0	0	11	12	132
1945-46	148	25	0	0	12	23	120
1946-47	88	16	0	0	11	20	47
1947-48	0	0	0	0			0
1948-49	0	0	0	0			0
1949-50	6.2	1.6	0	0	12	19	4.5
1950-51	0	0	0	0			0
1951-52	314	30	0	34	1	16	70
1952-53	12	1.3	0	0	12	1	8.2
1953-54	194	19	0	0	1	25	172
1954-55	4.4	0.6	0	0	1	18	1.4
1955-56	58	25	0	0	1	26	117
1956-57	4.4	1.5	0	0	1	13	5.8
1957-58	389	34	0	219	4	3	67
1958-59	5.6	1.4	0	0	2	16	4.7
1959-60	2.0	0.3	0	0	4	28	5.4
1960-61	5.2	0.8	0	0	11	12	3.9
1961-62	101	9.3	0	0	11	20	190
1962-63	88	26	0	17	2	9	145
1963-64	23	4.2	0	0	3	22	20
1964-65	26	9.9	0	0	4	9	55
1965-66	258	34	0	0	11	23	140
1966-67	842	200	0	305	12	6	408
1967-68	167	6.8	0	0	11	19	18
1968-69	2556	279	0	2061	1	25	574
1969-70	54	4.8	0	1.6	3	1	13
1970-71	32	5.5	0	0	12	21	12
1971-72	6	1.3	0	0	12	27	3
1972-73	161	34	0	7.5	2	11	58

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

1972-73

DRAINAGE AREA 3.51 SQ. MI.
CAPACITY OF RESERVOIR 502.8 AC. FT.,
at SPILLWAY ELEVATION 1634.1 FT.,
as of December, 19 72

GAGE HEIGHTS AND STORAGES ARE AS OF MIDNIGHT ON DAY SHOWN.

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		No Storage	0	0		No Storage	0	0		No Storage	0	0			0	0	16
17			0	0			0	0			0	0	1595.0	0	0	0	17
18			0	0			0	0			0	0	1596.2	0.6	0.3	0	18
19			0	0			0	0			0	0	1597.3	2.3	1.2	0	19
20			0	0			0	0			0	0	1597.2	2.0	0	0	20
21			0	0			0	0			0	0	1597.1	1.8	0	0	21
22			0	0			0	0			0	0	1597.0	1.6	0	0	22
23			0	0			0	0			0	0	1596.8	1.3	0	0	23
24			0	0			0	0			0	0	1596.7	1.2	0	0	24
25			0	0			0	0			0	0	1596.6	1.1	0	0	25
26			0	0			0	0			0	0	1596.5	1.0	0	0	26
27			0	0			0	0			0	0	1596.4	0.8	0	0	27
28			0	0			0	0			0	0	1596.3	0.7	0	0	28
29			0	0			0	0			0	0	1596.2	0.6	0	0	29
30			0	0			0	0			0	0	1596.1	0.5	0	0	30
31			0	0							0	0	1596.0	0.3	0	0	31
TOTAL			0	0			0	0			0	0			1.5	0	
Inf. Ac. Ft.			0				0				0				2.9		
Outf. Ac. Ft.			0	+(0)			0	+(0)			0	+(0)			0	+(2.6)	
Max. Mean Daily Inf.			0				0				0				1.2		
Min. Mean Daily Inf.			0				0				0				0		
Storage Change															0.3		

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	1596.0	0.3	0	0	1607.6	57.1	0.2	0	1605.9	44.2	0.1	0	1598.5	5.4	0	0	1
2	1596.0	0.3	0	0	1607.3	54.7	0.2	0	1605.7	42.8	0.1	0	1598.4	5.1	0	0	2
3	1596.0	0.3	0	0	1607.1	53.1	0.2	0	1605.5	41.4	0.1	0	1598.3	4.8	0	0	3
4	1596.0	0.3	0	0	1606.9	51.6	0.2	0	1605.2	39.3	0.1	0	1598.2	4.5	0	0	4
5	1596.0	0.3	0	0	1606.7	50.1	0.2	0	1605.0	37.9	0.1	0	1598.1	4.2	0	0	5
6	1596.6	1.3	0.5	0	1606.7	50.1	0.8	0	1604.8	36.6	0	0	1598.0	3.8	0	0	6
7	1597.4	2.5	0.8	0	1606.5	48.6	0.1	0	1604.6	35.3	0	0	1598.0	3.8	0	0	7
8	1597.6	2.9	0.3	0	1606.6	49.3	1.2	0	1604.4	34.0	0	0	1597.9	3.6	0	0	8
9	1597.7	3.2	0.2	0	1606.4	47.9	0.1	0	1604.2	32.7	0	0	1597.7	3.2	0	0	9
10	1600.5	12.9	5.1	0	1606.3	47.1	0.4	0	1604.0	31.4	0	0	1597.5	2.7	0	0	10
11	1610.0	77.8	34.2	0	1607.2	53.9	4.3	0	1603.8	30.2	0	0	1597.3	2.3	0	0	11
12	1610.8	85.6	5.6	0	1607.6	57.1	2.6	0	1603.6	29.0	0	0	1597.1	1.8	0	0	12
13	1611.2	89.6	3.8	0	1607.9	59.5	2.3	0	1603.4	27.8	0	0	1596.9	1.5	0	0	13
14	1611.3	90.6	2.3	0	1608.0	60.3	1.5	0	1603.2	26.6	0	0	1596.7	1.2	0	0	14
15	1611.1	88.5	0.8	0	1607.8	58.7	0.3	0	1603.0	25.4	0	0	1596.5	1.0	0	0	15
16	1610.8	85.6	0.2	0	1607.7	57.9	0.6	0	1602.7	23.8	0	0	1596.4	0.8	0	0	16
17	1610.5	82.6	0.2	0	1607.6	57.1	0.6	0	1601.3	16.6	0	2.3	1596.4	0.8	0	0	17
18	1610.2	79.7	0.1	0	1607.4	55.5	0.2	0	1600.5	12.9	0	1.5	1596.4	0.8	0	0	18
19	1609.9	76.9	0.1	0	1607.2	53.9	0.1	0	1599.6	8.8	0	0	1596.3	0.7	0	0	19
20	1609.6	74.2	0.1	0	1607.5	56.3	2.2	0	1599.4	8.4	0	0	1596.3	0.7	0	0	20
21	1609.3	71.5	0	0	1607.5	56.3	1.0	0	1599.3	8.1	0	0	1596.3	0.7	0	0	21
22	1609.0	68.8	0	0	1607.4	55.5	0.6	0	1599.2	7.7	0	0	1596.3	0.7	0	0	22
23	1608.7	66.2	0	0	1607.3	54.7	0.5	0	1599.1	7.3	0	0	1596.3	0.7	0	0	23
24	1608.4	63.7	0	0	1607.2	53.9	0.5	0	1599.0	6.9	0	0	1596.2	0.6	0	0	24
25	1608.1	61.1	0	0	1607.0	52.3	0.1	0	1598.9	6.6	0	0	1596.2	0.6	0	0	25
26	1607.8	58.7	0	0	1606.8	50.8	0.2	0	1598.8	6.3	0	0	1596.2	0.6	0	0	26
27	1607.6	57.1	0.2	0	1606.7	50.1	0.3	0	1598.8	6.3	0	0	1596.2	0.6	0	0	27
28	1607.9	59.5	2.3	0	1606.7	50.1	0.8	0	1598.7	6.0	0	0	1596.2	0.6	0	0	28
29					1606.5	48.6	0.1	0	1598.6	5.7	0	0	1596.1	0.5	0	0	29
30					1606.3	47.1	0.1	0	1598.5	5.4	0	0	1596.1	0.5	0	0	30
31					1606.1	45.6	0	0					1596.1	0.5	0	0	31
TOTAL			56.8	0			22.5	0			0.5	3.8			0	0	
Inf. Ac. Ft.			112.6				44.6				1.0				0		
Outf. Ac. Ft.			0	+(53.4)			0	+(58.5)			7.5	+(33.7)			0	+(4.9)	
Max. Mean Daily Inf.			34.2				4.3				0.1				0		
Min. Mean Daily Inf.			0				0				0				0		
Storage Change			59.2				-13.9				-40.2				-4.9		

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	1596.1	0.5	0	0			0	0			0	0			0	0	1
2	1596.1	0.5	0	0			0	0			0	0			0	0	2
3	1596.0	0.3	0	0			0	0			0	0			0	0	3
4	1596.0	0.3	0	0			0	0			0	0			0	0	4
5	1596.0	0.3	0	0			0	0			0	0			0	0	5
6	1595.9	0.3	0	0			0	0			0	0			0	0	6
7	1595.9	0.3	0	0			0	0			0	0			0	0	7
8	1595.8	0.3	0	0			0	0			0	0			0	0	8
9	1595.8	0.3	0	0			0	0			0	0			0	0	9
10	1595.7	0.2	0	0			0	0			0	0			0	0	10
11	1595.7	0.2	0	0			0	0			0	0			0	0	11
12	1595.0	0	0	0			0	0			0	0			0	0	12
13	0		0	0			0	0			0	0			0	0	13
14	0		0	0		No Storage	0	0		No Storage	0	0		No Storage	0	0	14
15	0		0	0			0	0			0	0			0	0	15
16	0		0	0			0	0			0	0			0	0	16
17	0		0	0			0	0			0	0			0	0	17
18	0		0	0			0	0			0	0			0	0	18
19	0		0	0			0	0			0	0			0	0	19
20	0		0	0			0	0			0	0			0	0	20
21	0	No Storage	0	0			0	0			0	0			0	0	21
22	0		0	0			0	0			0	0			0	0	22
23	0		0	0			0	0			0	0			0	0	23
24	0		0	0			0	0			0	0			0	0	24
25	0		0	0			0	0			0	0			0	0	25
26	0		0	0			0	0			0	0			0	0	26
27	0		0	0			0	0			0	0			0	0	27
28	0		0	0			0	0			0	0			0	0	28
29	0		0	0			0	0			0	0			0	0	29
30	0		0	0			0	0			0	0			0	0	30
31							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	+(0.5)			0	+(0)			0	+(0)			0	+(0)	
Max. Mean Daily Inf.			0				0	+(0)			0				0		
Min. Mean Daily Inf.			0				0				0				0		
Storage Change			-0.5				0				0				0		

Max. W.S. Elev. 1611.3 feet on 2/14/73 Storage 90.6 Acre-Feet
Min. W.S. Elev. 1595.0 feet on Various Days Storage 0 Acre-Feet
Max. Peak Inf. 57.5 CFS from 0805 on 2/11/73 to 1030 on 2/11/73
Max. Peak Outf. 7.5 CFS from 0952 on 4/17/73 to 1030 on 4/17/73

REMARKS: *New storage table
( ) Indicates Percolation Losses
[Indicates average for period.

EROSION CONTROL

FOREWORD

Each year eroded material in various forms (trees, rock, sand, etc.) flows out of the mountain watersheds of Los Angeles County. If allowed to pass into downstream District facilities normal operation would, at least, be hampered and at worst, become inoperative. In an effort to control these potentially disruptive forces, the District maintains a series of debris basins in canyon mouths and upstream stabilization structures in selected watersheds.

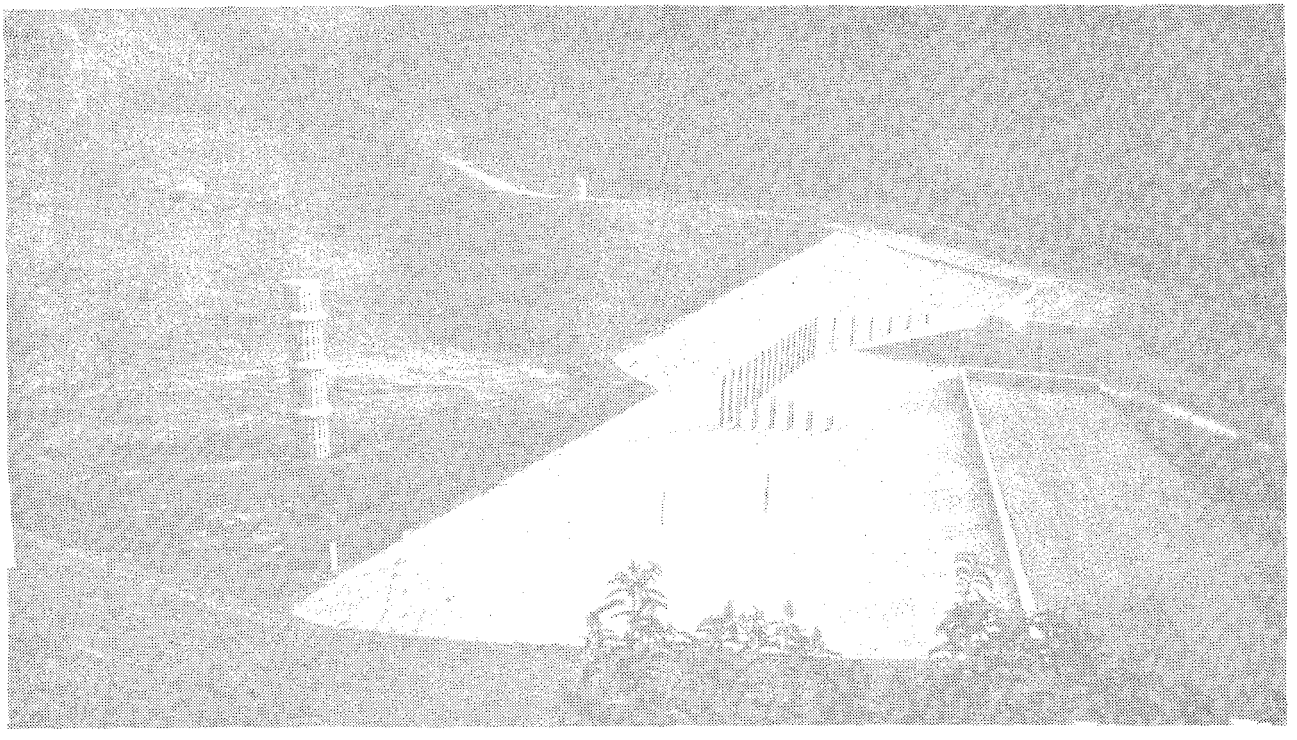
PURPOSE

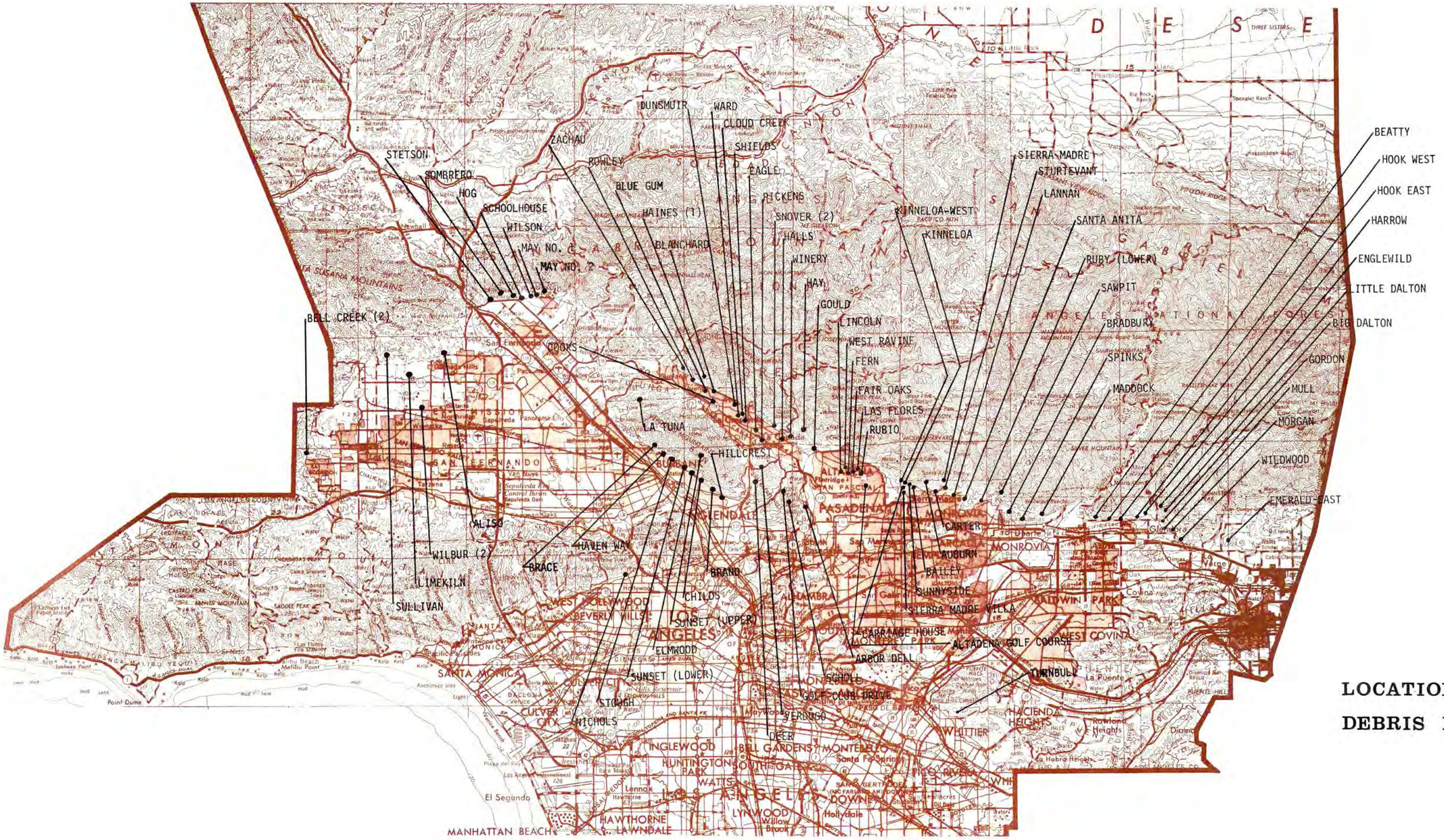
The purpose of a debris basin is to entrap the debris flows emanating from the canyons and let the relatively desilted water pass into flood control channels for transportation to major watercourses. In the 1972-73 water year, 82 debris basins were in operation, of which the District operated and maintained 81 and the Corp of Engineers operated and maintained 1, Haines Debris Basin. This figure represents an increase of 2 debris basins over the previous year. Gordon and Mull Debris Basins were added to the list of District facilities in June 1973. The maximum capacity of all 82 debris basins is 8,411,000 cubic yards of which 7,648,000 cubic yards were available at the beginning of the water year.

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 218 stabilization structures in 47 watersheds. During fiscal year 1972-73, the structures were complete in Haines Canyon above Tujunga and in El Priete Canyon above Pasadena.





LOCATIONS OF DEBRIS BASINS

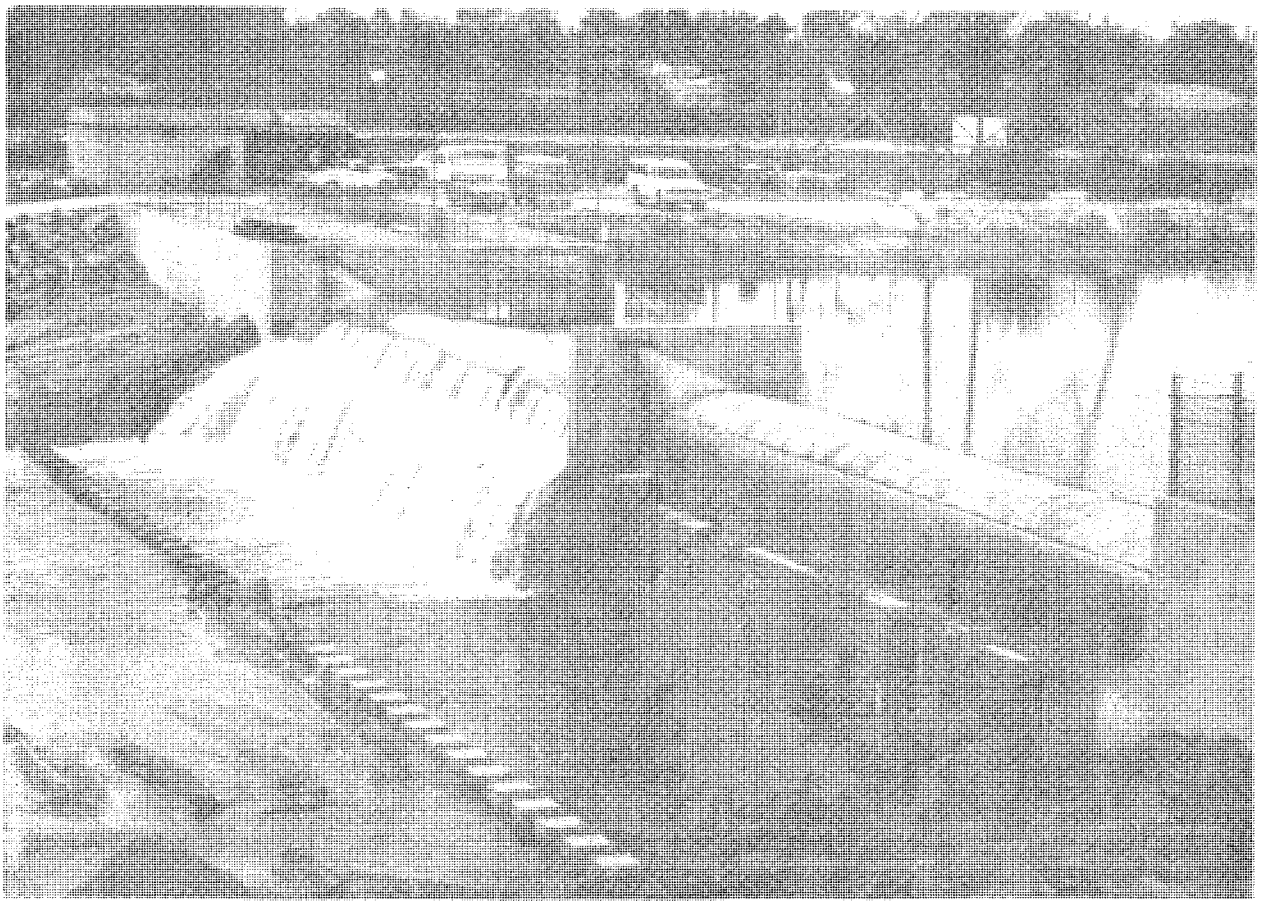
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
DEBRIS PRODUCTION HISTORY
OF DEBRIS BASINS
INCLUDING 1972-73 SEASON

	DEBRIS BASINS	UNCONTROLLED DRAINAGE AREA ABOVE BASIN SQ. MI.	FIRST DEBRIS SEASON	NUMBER OF SEASONS	MAX. DEBRIS CAPACITY CU. YDS.	1972-73 DEBRIS PRODUCTION CU. YDS.	TOTAL DEBRIS DEPOSITED CU. YDS.	MAX. SEASONAL DEBRIS PRODUCTION CU. YDS. PER SQ. MI.	SEASON	TOTAL DEBRIS REMOVED CU. YDS.	DEBRIS IN STORAGE CU. YDS.	
1.	ALISO	2.77	1970-71	3	41,700 (9)	6,200	14,700	3,100	1970-71	6,200	8,600	1.
2.	ALTADENA GOLF COURSE	0.20	1945-46	28	12,500	(N)	29,000	18,900	1958-59	28,800	200	2.
3.	ARBOR DELL	0.11	1971-72	2	16,800	(N)	(N)	(N)	1971-72	0	(N)	3.
4.	AUBURN	0.19	1954-55	19	46,800	1,100	48,600	105,900	1961-62	47,600	1,100	4.
5.	BAILEY	0.60	1945-46	28	158,100	(N)	105,600	52,200	1968-69	105,200	300	5.
6.	BEATTY	0.27	1970-71	3	54,700	1,800	1,800	6,800	1972-73	0	1,800	6.
7.	BELL (10)	7.00	1967-68	6	21,200	5,300	39,000	3,500	1968-69	25,600	13,400	7.
8.	BIG DALTON	2.62	1959-60	14	616,900	5,100	633,800	113,200	1968-69	295,400	38,500	8.
9.	BLANCHARD *	0.50 *	1968-69	5	71,300	(N)	16,500	31,800	1968-69	14,000	2,500	9.
10.	BLUE GUM	0.19	1968-69	5	44,100	1,100	4,400	17,400	1968-69	0	4,400	10.
11.	BRACE	0.29	1971-72	2	12,200	2,000	2,000	7,000	1972-73	0	2,000	11.
12.	BRADBURY	0.68	1954-55	19	77,500	7,000	175,300	103,300	1968-69	174,700	600	12.
13.	BRANO	1.03	1935-36	38	208,200	7,100	154,100	45,000	1964-65	142,000	12,100	13.
14.	CARRIAGE HOUSE	0.03	1970-71	3	14,300	200	200	5,900	1972-73	0	200	14.
15.	CARTER	0.12	1954-55	19	22,000	(N)	19,600	93,000	1961-62	19,200	400	15.
16.	CHILDS	0.31	1963-64	10	54,000	2,200	24,200	26,600	1964-65	14,500	9,700	16.
17.	CLOUD *	0.02 *	1972-73	1	16,500	(N)	(N)	(N)	1972-73	0	(N)	17.
18.	COOKS *	0.58 *	1951-52	22	47,500	4,100	55,700	35,600	1951-52	49,500	6,200	18.
19.	DEER	0.59	1954-55	19	66,700	3,000	117,800	74,900	1968-69	108,100	9,700	19.
20.	DUNSMUIR *	0.84	1935-36	38	124,500	7,200	193,000	70,000 E	1937-38	178,300	14,700	20.
21.	EAGLE *	0.61 *	1936-37	37	72,400	9,300	146,500	68,000	1937-38	132,500	14,000	21.
22.	ELMWOOD	0.31	1964-65	9	66,300	(N)	18,300	39,200	1964-65	15,800	2,500	22.
23.	EMERALD EAST	0.16	1964-65	9	14,500	400	2,800	10,000	1968-69	0	2,800	23.
24.	ENGLEWILD	0.40	1961-62	12	46,000	(N)	71,400 (2)	150,500 (2)	1968-69	65,000	6,400	24.
25.	FAIR OAKS	0.21	1935-36	38	28,500	1,100	105,300	74,800	1935-36	102,800	2,500	25.
26.	FERN	0.30	1935-36	38	34,000	(N)	147,000	79,600	1968-69	147,000	0	26.
27.	GOLF CLUB DRIVE	0.32	1970-71	3	15,600	2,700	2,700	8,600	1972-73	0	2,700	27.
28.	GORDON	0.18	1973-74	0	29,600	(1)	29,600	(1)	(1)	(1)	(1)	28.
29.	GOULD	0.47	1947-48	26	53,900	8,800	98,300	38,300	1965-66	85,300	13,000	29.
30.	HAINES	1.53	1935-36	38	158,600	(N)	172,900	33,700 E	1937-38	96,300	76,600	30.
31.	HALLS *	1.06 *	1935-36	38	95,600	17,300	442,400	96,300	1937-38	442,400	24,700	31.
32.	HARROW	0.63	1958-59	15	88,300	1,800	70,200	147,400 (2)	1968-69	63,000	7,200	32.
33.	HAVEN WAY	0.22	1971-72	2	14,600	(N)	(N)	(N)	1971-72	0	(N)	33.
34.	HAY	0.20	1936-37	37	39,800	1,500	55,600	63,000 E	1937-38	51,700	3,900	34.
35.	HILLCREST	0.35	1962-63	11	71,700	500	34,900	33,300	1964-65	20,300	14,700	35.
36.	HOG	0.30	1969-70	4	48,100	(N)	(N)	(N)	1969-70	0	(N)	36.
37.	HOOK EAST	0.18	1968-69	5	29,000	(N)	41,200 E (2)	223,100 E (2)	1968-69	39,300	1,800	37.
38.	HOOK WEST	0.17	1970-71	3	45,700	(N)	(N)	(N)	1970-71	0	(N)	38.
39.	KINNELOA	0.20	1964-65	9	18,400	4,700	38,200	88,100 (2)	1968-69	32,800	5,400	39.
40.	KINNELOA – WEST	0.16	1966-67	7	28,800	7,800	40,400	138,500 (2)	1968-69	40,400	0	40.
41.	LANNAN	0.25	1954-55	19	56,500	11,000	67,100	44,200	1972-73	56,000	11,100	41.
42.	LAS FLORES	0.45	1935-36	38	63,600	2,500	160,400	80,000 E	1937-38	157,900	2,500	42.
43.	LA TUNA	5.34	1955-56	18	518,400	4,000	181,000	134,000	1968-69	104,700	76,300	43.
44.	LIMEKILN	3.69	1963-64	10	198,200	29,600	159,200	11,500	1965-66	106,400	52,800	44.
45.	LINCOLN	0.50	1935-36	38	42,000	(N)	113,900	56,800	1968-69	108,000	5,900	45.
46.	LITTLE DALTON	3.31	1959-60	14	733,500	23,600	741,100	102,100	1968-69	682,100	59,000	46.
47.	MADDOCK	0.25	1954-55	19	32,600	100	313,000	43,800	1968-69	31,000	300	47.
47.	MAY NO. 1.	0.70	1953-54	20	78,500	14,300	160,200	91,900	1966-67	137,100	23,100	48.
49.	MAY NO. 2	0.09	1953-54	20	15,500	2,300	20,200	68,600	1966-67	15,800	4,400	49.
50.	MORGAN	0.60	1964-65	9	49,000	(N)	13,600	21,600	1968-69	13,600	0	50.
51.	MULL	0.15	1973-74	0	19,500	(1)	(1)	(1)	(1)	(1)	(1)	51.
52.	NICHOLS	0.94	1937-38	36	32,200	2,400	100,200	23,200	1951-52	91,600	8,700	52.
53.	PICKENS	1.84 *	1935-36	38	120,300	10,100	474,700	66,400	1937-38	474,700	0	53.
54.	ROWLEY	0.58	1953-54	20	43,300	(N)	26,800	19,600	1968-69	23,700	3,100	54.
55.	RUBIO	1.26	1943-44	30	152,300	19,400	128,200	43,700	1968-69	104,400	24,200	55.
56.	RUBY (LOWER)	0.28	1955-56	18	32,400	1,400	16,800	29,700	1968-69	14,800	2,000	56.
57.	SANTA ANITA	1.70	1959-60	14	478,600	32,300	559,200 (2, 3)	77,600	1961-62	475,000	84,200	57.
58.	SAWPIT	2.84	1954-55	19	740,800	35,600	542,600 (2, 4)	82,300 (2)	1968-69	494,400	48,200	58.
59.	SCHOLL	0.66	1945-46	28	13,700	3,500	16,900	5,300	1972-73	13,400	3,500	59.
60.	SCHOOLHOUSE	0.28	1962-63	11	78,600	2,600	32,000	77,200	1962-63	21,000	11,000	60.
61.	SHIELDS *	0.27	1937-38	36	47,200	2,600	102,900	130,200	1937-38	89,200	13,600	61.
62.	SIERRA MADRE	2.39	1927-28	46	156,700	30,600	327,700	39,800 (2, 5)	1968-69	281,100	46,600	62.
63.	SIERRA MADRE VILLA	1.46 (6)	1957-58	16	490,900	49,300	388,400	81,200	1961-62	338,000	59,400	63.
64.	SNOVER * (10)	0.23 *	1936-37	37	37,900	1,900	73,500	91,700	1938-39	64,900	8,600	64.
65.	SOMBRERO	1.06	1969-70	4	97,100	(N)	(N)	(N)	1969-70	0	(N)	65.
66.	SPINKS	0.44	1958-59	15	64,600	(N)	41,100	37,200	1968-69	40,000	1,000	66.
67.	STETSON	0.29	1969-70	4	48,100	(N)	1,200	4,100	1969-70	0	1,200	67.
68.	STOUGH	1.65	1940-41	33	186,700	1,800	131,800	26,800	1964-65	120,200	11,700	68.
69.	STURTEVANT	0.03	1967-68	6	2,300	(N)	400	11,200	1968-69	300	0	69.
70.	SULLIVAN	2.38	1970-71	3	62,900	11,600	11,600	4,900	1972-73	0	11,600	70.
71.	SUNNYSIDE	0.02	1970-71	3	4,400	100	100	5,200	1972-73	0	100	71.
72.	SUNSET (LOWER)	0.65	1963-64	10	221,500	(N)	64,400	30,000	1964-65	19,500	44,900	72.
73.	SUNSET (UPPER)	0.44	1928-29	45	17,700	1,900	80,400	61,400	1964-65	77,100	3,300	73.
74.	TURNBULL	0.99	1952-53	21	27,300	1,800	36,200	16,200 (2)	1968-69	34,200	2,100	74.
75.	VERDUGO	9.97 (7, 8)	1935-36	38	151,100	19,100	634,300	6,800	1942-43	605,600	28,700	75.
76.	WARD *	0.10 *	1956-57	17	14,400	(N)	20,200	51,900	1957-58	18,100	2,100	76.
77.	WEST RAVINE	0.25	1935-36	38	52,700	3,100	138,200	119,500	1937-38	138,200	0	77.
78.	WILBUR (10)	5.86 (8)	1942-43	31	45,500	8,500	482,900	6,700	1965-66	465,500	17,700	78.
79.	WILDWOOD	0.65	1967-68	6	23,400	4,000	28,300	24,600 (2)	1968-69	24,200	4,100	79.
80.	WILSON	2.58	1962-63	11	363,000	8,600	165,800	21,500	1968-69	101,800	64,100	80.
81.	WINERY	0.18	1968-69	5	32,500	1,600	11,000	52,200	1968-69	8,200	2,800	81.
82.	ZACHAU	0.35	1956-57	17	36,700	(N)	12,300	29,400	1968-69	12,300	0	82.
	TOTALS	84.65			8,411,000	450,500	9,422,000			8,407,500	1,039,500	

*SEE FOOTNOTE (7) BELOW.
E ESTIMATE
(N) NEGLIGIBLE

(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 SLUICED FROM SAWPIT DAM.
(5) VOLUME OF DEBRIS DEPOSITED IN BASIN DOES NOT INCLUDE DEBRIS SLUICED THROUGH OPEN PORTS OR NOTCH.
(6) APPROXIMATE DRAINAGE AREA INCLUDES MAJOR PORTION OF HASTINGS CANYON DRAINAGE AREA.
(7) EXCLUDES 6.03 SQUARE MILES OF DRAINAGE AREA CONTROLLED BY DEBRIS BASINS DESIGNATED BY *.
(8) UNCONTROLLED DRAINAGE AREA IS BASED ON WEIGHTED AVERAGE OF THE VARIOUS AREA CHANGES RESULTING FROM DEBRIS BASIN CONSTRUCTION IN BRANCHES OF THE DRAINAGE OR OTHER CULTURAL CHANGES.
(9) DEBRIS CAPACITY AVAILABLE WITHIN RIGHT OF WAY LIMITS.
(10) BASINS WILL BE ALLOWED TO FILL WITH DEBRIS AND ACT AS AN INLET STRUCTURE.

COMPILED BY: H. NOROUZI
COMPUTED BY: J. MAYKULSKY AND M. REECE
CHECKED BY: R. A. PETERSEN



FOREWORD

Information presented in this Section includes amounts of local, imported, and reclaimed water conserved in spreading grounds, spreading basins, reservoirs, and channels, and also information on the sea-water barrier projects which prevent saltwater intrusion in the coastal area and on the District's water quality monitoring programs of surface and ground water. 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 meaning in this Section: Local water is that derived from run-off due to rainfall on the mountain and valley watersheds within or tributrary to the District. Imported water is obtained from sources outside the District and not tributary to the District. Reclaimed water is the effluent produced by Whittier Narrows Water Reclamation Plant and the San Jose Creek Water Renovation Plant, both operated by the Los Angeles County Sanitation Districts.

The rainfall during the water year 1972-73 was approximately 115 per cent of normal, and the local water conserved during this period was 195,724 acre-feet. This is the third largest spreading year the District has experienced since the construction of our conservation facilities.

SPREADING GROUNDS

The total gross acreage of spreading grounds owned and operated by the District during this annual report period amounted to 2,235 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 3,160 acres with a combined infiltration capacity of more than 2,350 cfs.

During the report period, the District continued its cooperation with the City of Pasadena Master Planning Committee in activities aimed toward the ultimate development of Arroyo Seco Spreading Grounds and Devil's Gate Reservoir.

On June 26, 1973, the contract was awarded for construction of the intake and diversion facilities at Forbes Spreading Basin. Construction was started in August 1973 and is expected to be finished in the 1973-74 water year. Award of the contract for the second phase of construction is expected to be during the 1973-74 water year.

IMPORTED WATER

During this annual period, imported Colorado River 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.

Prior to its termination June 30, 1972, funds were also provided by the Water Conservation Zone I. 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 $0.05 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.

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 ground-water replenishment.

The County Sanitation Districts' San Jose Creek Water Renovation Plant, activated in May 1972, made its first delivery of effluent in November of 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 22 per cent of the total purchased water spread in the Montebello Forebay between October 1, 1972 and September 30, 1973.

BARRIER PROJECTS

The West Coast Basin Barrier Project, just inland of the Santa Monica Bay coastline, prevents the intrusion of ocean water into the freshwater aquifers by the injection of filtered Colorado River water to form a pressure barrier. While the project is essentially completed within its approximate nine mile reach covering the coastline from the Los Angeles International Airport to the base of the Palos Verdes Hills, plans were being formulated for the construction of ten injection wells and six observation wells to provide additional protection and monitoring capabilities. During the year, 28,100 acre-feet of fresh water was injected and injection rates throughout the year averaged 40 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. Since the initiation of injection operations at theproject in February 1971, some difficulty has been experienced in the ability to build the pressure ridge necessary to provide appropriate protection and injection rates have been limited pending further investigation. During the year, 8,500 acre-feet of fresh water was injected at an average rate of 11 cfs.

The existing operational facilities of the Alamitos Barrier Project consist of 18 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 seawater through the Alamitos Gap area. During the year, 5,200 acre-feet of fresh water was injected at an average rate of 7 cfs and 980 acre-feet of saline water was extracted at an average rate of 1.5 cfs. Evaluation of the effectivenessof the existing facilities continued during this period to determine the need for possible additional facilities and to establish a schedule for continued expenaion of the project facilities within the scope of the staged development as originally planned.

EXPLORATION AND OBSERVATION WELLS

During this annual report period, approximately 15 wells were drilled for monitoring groundwater levels and obtaining geologic data for use in planning and operating various District Water Conservation projects. These wells were drilled by the District and other cooperating agencies and preserved by the District for future use.

SEASONAL DATA AND MAPS

During this annual report period, about 26,000 ground-water observations were obtained from approximately 3,200 wells. Hydrographs for selected key wells are included in this report.

Rainfall averages over Los Angeles County was 115 per cent of the 90-year normal. As a result groundwater levels over most of the County remained nearly stable. An exception is the Antelope Valley. Records as far back as 1955 has shown a steady decline in this basin. Historic lows occurred in the Chino Basin within Los Angeles County, and in the Main San Fernando Basin north of Van Nuys. No historic highs occurred in the basins.

GROUNDWATER BASINS

The natural underground water reservoirs underlying Los Angeles County consist of groundwater basins which are grouped under five local watersheds. These waterheds are identified as San Fernando Valley, Coastal Plain, Santa Clarita Valley, and Antelope Valley.

The following paragraphs relate the differrence in ground-water level as taken from wells which were chosen as representative of average basin conditions. These differences represent the change in level from October 1 to September 30 of the following year. The hydrographs from which some of the changes in water level were taken are shown on following pages.

SAN FERNANDO VALLEY

The San Fernando Valley watershed overlies the San Fernando Main Basin, and five sub-basins. During this report period, mean ground-water levels in the Main Basin appeared to have stabilized. An exception is the Burbank and North Hollywood area where levels rose five feet. Mean water level changes in the sub-basins are: Sylmar (-6), Tujunga (+3), Verdugo (stable), Glenoaks (+30), and Pacoima (stable).

SAN GABRIEL VALLEY

The San Gabriel Valley watershed contains seventeen basins, in addition to the San Gabriel Main Basin, which is the largest basin in the Valley.

During the report period, water levels in the San Gabriel Main Basin rose about 10 feet. Other water level changes are: Raymond (+2), Monk Hill (+1), Upper San Gabriel Canyon (+65), Lower San Gabriel Canyon (+12), Glendora (Stable), Way Hill (-12), Foothill (+12), San Dimas (+3), Live Oak (-5), Lower Claremont Heights (-22), Upper Claremont (+18), Pomona (-3), Chino (-5), Spadra (Stable), and Puente (+7).

COASTAL PLAIN

Groundwater levels in most of the Central and West Coast Basin have remained stable during this report period. The exception is the Inglewood area near Hawthorne where ground-water levels rose about +9 feet and the Pico Rivera area (+31).

SANTA CLARITA VALLEY

Groundwater levels in the main portion of the basin for this period was fairly stable. Water level records as obtained from measurements in Well 7048A show the water table has maintained its present level since the 1969 storm.

ANTELOPE VALLEY

The Lancaster Basin has continued to fall during this period and is about three feet lower than the previous report period.

No groundwater maps for the Antelope Valley are drawn by the District. The maps drawn in the past were provided by the United States Geological Survey and the Department of Water Resources. None were provided for this report.

WATER QUALITY MONITORING PROGRAMS

Surface and groundwater quality programs are conducted as part of the District's water conservation responsibilities. Summer and storm season channel flows are monitored to maintain a continuing record of their quality, to find and trace pollutants to their source, to determine their effects, and to determine the acceptability of surface water for spreading to replenish the ground water supply and for discharge to the ocean of other receiving waters. Ground waters are monitored to maintain a continuing record of water quality, measure the effects of percolation of surface waters, the intrusion of seawater, and to trace groundwater quality changes from various natural and man-made sources.

SURFACE WATER QUALITY

The Surface Water Quality Program currently involves the sampling of dry weather flows at 30 locations on the Los Angeles River, San Gabriel River, Santa Clara River, Rio Hondo, Coyote Creek, Dominguez Channel, Ballona Creek, Centinela Creek, San Jose Creek, Topanga Canyon Channel, and Malibu Creek systems. These locations are sampled in the early morning on a monthly frequency on successive working days. The samples are analyzed by the Water Quality Laboratory for major minerals, mercury, total dissolved solids, total hardness, electrical conductivity, pH, dissolved oxygen, chemical oxygen demand, biochemical oxygen demand, coliform, fecal coliform, and enterococci. An annual analysis for trace metals is performed by a private laboratory.

In the Storm Water Quality Program, samples are currently taken each storm season during the major storms at 26 gaging stations and 7 spreading grounds throughout the County. The flow data is recorded at the time each sample is taken and the samples are analyzed for electrical conductivity. In addition to the annual sampling, every five years since 1957-58 a comprehensive sampling analyses of major storm flows has been performed at many locations throughout the County. The samples are analyzed by the

Water Quality Laboratory for major minerals, total dissolved solids, electrical conductivity, suspended solids, pH, dissolved oxygen, biochemical oxygen demand, coliform, fecal coliform, enterococci, pesticides, and herbicides. In order to acquire data on trace metals in storm flows, a special monitoring program will be conducted in 1973-74.

SURFACE WATER QUALITY DATA

Data acquired as part of these programs is on file in the Water Quality Section. With the exception of TDS and bacteria, all data has been processed by the Department of Water Resources and is available on computer generated listings. Utilization of STORET, an Environmental Protection Agency computer system to store, retrieve, and manipulate data, is in the development stages.

GROUND WATER QUALITY

The annual sampling of water wells in five major basins in Los Angeles County comprises the Ground-Water Quality Program. The monitoring program, initiated in 1970, is coordinated with the State of California Department of Water Resources and City of Los Angeles - Department of Water and Power with these agencies participating in the sampling and analysis of a portion of the total samples.

All water wells sampled are active production wells used for municipal supply, irrigation, and industrial purposes and are selected to present overall portrayal of quality conditions. The samples are analyzed for major minerals, total dissolved solids, electrical conductivity, pH, and in some cases phosphate, fluoride, or boron concentrations.

GROUND WATER QUALITY DATA

Data acquired as part of these programs is on file in the Water Quality Section and has been computer processed by the Department of Water Resources.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
WATER CONSERVATION DIVISION
RESERVOIR AND CHANNEL ABSORPTION
EXCLUSIVE OF SPREADING GROUNDS
WATER YEAR 1972-73

STREAM	REACH OF STREAM WHERE ABSORPTION OCCURRED	TOTAL RELEASE TO REACH A.F.	ABSORPTION IN CHANNELS, RESERVOIRS AND DIVERSIONS A.F.	EXCESS OF RELEASE OVER ABSORPTION A.F.
PACOIMA	DAM TO LINED CHANNEL	7,900	3,750 (1)	4,150
TUJUNGA	MOUTH TO LINED CHANNEL	25,320	11,580 (1)(2)	14,740
ARROYO SECO	DEVIL'S GATE RESERVOIR	0	2,700 (1)	0
EATON WASH	EATON WASH DAM	0	1,450 (1)	0
SANTA ANITA	DAM TO LINED CHANNEL	6,320	3,300 (1)	3,020
SANTA FE DIVERSION	SANTA FE DAM TO SAWPIT WASH	9,410	2,870	6,540
SAN GABRIEL	MOUTH TO FOOTHILL BOULEVARD	112,960	17,280	95,680
SAN GABRIEL	FOOTHILL BOULEVARD TO SANTA FE DAM	94,150	11,260 (1)	82,880
SAN DIMAS	DAM TO LINED CHANNEL	4,530	1,150 (1)	3,380
WALNUT	PUDDINGSTONE DAM TO LINED CHANNEL	0	0	0
THOMPSON	THOMPSON CREEK RESERVOIR	0	154	0
TOTAL			55,494	

NOTES: (1) INCLUDES PERCOLATION AND EVAPORATION LOSSES IN RESERVOIRS.

(2) INCLUDES WATER DIVERTED FOR MUNICIPAL WATER SUPPLY.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
WATER CONSERVATION DIVISION
SUMMARY OF DATA ON SPREADING FACILITIES
OWNED AND OPERATED BY THE DISTRICT
UPDATED THROUGH SEPTEMBER 1973

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	392	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.	FLOCCULANT FACILITY ADDED IN 1965-66
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. FLOCCULANT FACILITY ADDED IN 1971.
BRANFORD	DEEP BASIN	1956-57	12	7	1,540	1,540	135	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 ALTADENA STORM DRAIN, CONTROLLED FLOW FROM CITY OF PASADENA.	SPREADING GROUNDS ARE HELD UNDER EASEMENT FROM THE CITY OF PASADENA.
EATON WASH	DEEP 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	16	3	-	20	4	5	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	-	9,600	400	217	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	5,000	17	CONFLUENCE OF SAWPIT AND SANTA ANITA WASHES.	ALL FLOWS IN SAWPIT AND SANTA ANITA WASHES.	INFILTRATION CAPACITY DETERIORATED AFTER FEBRUARY 1969.
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 1973

GROUNDS	TYPE	SEASON FIRST USED	AREA IN ACRES GROSS	AREA IN ACRES WETTED	CAPACITIES CHANNEL** CFS	CAPACITIES INTAKE CFS	CAPACITIES STORAGE A.F.	CAPACITIES PERC.* CFS	LOCATION	SOURCE OF WATER	REMARKS
SANTA FE ***	SHALLOW BASINS	1953-54	139	115	-	500	200	220	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.
IRWINDALE	DEEP BASIN	1958-59	17	14	20,000	450	495	40	NORTHEASTERLY OF INTERSECTION OF BIG DALTON CHANNEL AND IRWINDALE AVENUE; CONTINUES 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.	FLOCCULANT FACILITY ADDED IN 1969.
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	23	11	-	25	22	12	SOUTHEAST SIDE OF SAN DIMAS WASH BETWEEN PUDDING STONE 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	-	-	25	65	10	SOUTH SIDE OF SAN DIMAS WASH BETWEEN LONE HILL AVENUE AND VALLEY CENTER AVENUE.	CONTROLLED RELEASES FROM PUDDINGSTONE DIVERSION DAM.	CONSTRUCTION EXPECTED TO BE COMPLETED DURING 1973-74.
SAN GABRIEL COASTAL	SHALLOW BASIN	1938-39	128	101	-	300	400	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.	RIVER IMPROVEMENT COMPLETED IN 1968.
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 1000-ACRE-FOOT POOL AT WHITTIER NARROWS DAM FOR RETENTION OF STORM WATERS. FLOCCULENT FACILITY ADDED AT WHITTIER NARROWS DAM IN 1967.
DOMINGUEZ GAP	DEEP BASIN	1957-58	54	26	-	20	237	3	CONTINUES 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			2,235	1,512		10,310		1,511			

*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.

***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.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
WATER CONSERVATION DIVISION
SUMMARY OF DATA ON SPREADING FACILITIES
NOT OWNED BY THE DISTRICT
UPDATED THROUGH SEPTEMBER 1973

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			
GROUNDS IN WHICH DISTRICT DOES CONSTRUCTION, MAINTENANCE, AND SOME OPERATIONS:											
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	6±	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 SOUTH WESTERLY 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			
GROUNDS CONTROLLED BY OTHERS. THE DISTRICT COOPERATING:											
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	-	3[illegible]	SAN FERNANDO VALLEY, EAST SIDE OF TUJUNGA WASH AT ROSCOE BOULEVARD.	LOS ANGELES CITY'S OWENS VALLEY ACQUEDUCT 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	165	-	-	-	-			

*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 AT GROUNDS
OWNED AND OPERATED BY THE DISTRICT
UPDATED THROUGH SEPTEMBER 1973

RECORD OF LOCAL WATER SPREAD
ACRE - FEET

	SAN FERNANDO VALLEY					SAN GABRIEL VALLEY — FOOTHILLS								
SEASON	LOPEZ	PACOIMA	HANSEN	BRANFORD	ARROYO SECO	EATON S.G.	SANTA ANITA	SAWPIT	SAN GABRIEL CANYON*	LITTLE DALTON	BIG DALTON	LIVE OAK	SUBTOTAL	SEASON
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	0		1	48
49		0	0		108	0	0	8		0	88		204	49
50		245	0		283	61	0	0		28	66		683	50
51		0	0		19	0	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		30	180		1,601	56
57	28	475	0	38	397	0	2	38		11	16		1,005	57
58	1,030	10,922	18,407	20	2,088	861	1,576	978		658	2,380		38,920	58
59	0	352	1,023	+	352	130	185	199		22	145		2,408	59
60	0	379	0	6+	0	0	810	38		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	+	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	45	37,500	70
71	727	4,049	11,657	507	644	583	334	529	14,037	226	888	0	34,181	71
72	0	1,113	1,932	191	173	0	31	216	6,481	23	44	0	10,204	72
73	0	6,343	11,755	430	1,214	1,689	732	1,396	13,428	484	1,253	88	38,812	73
TOTALS	8,045	135,005	200,471	5,669	14,369	13,755	13,295	10,966	53,529	10,250	22,770	1,393	489,517	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 1973

RECORD OF LOCAL WATER SPREAD
ACRE - FEET

	MAIN SAN GABRIEL VALLEY											COASTAL PLAIN							
SEASON	EATON S.B.	PECK ROAD S.B.	BUENA VISTA S.B.	SANTA FE S.G.	IRWINDALE 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.	TOTAL	SEASON
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												9	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		1,087	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	56,235	+	525	375	303,867	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	94,823	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	79,435	71
72	359	1,555	195	4,443	879	0	1,414	233	484	0	3,990	6,726	10,964	+	165	1,109	29,516	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	1,078	169,680	73
TOTALS	11,301	73,670	16,009	263,102	33,618	11,886	45,185	10,491	17,825	1,535	208,219	320,386	362,142	+	3,658	11,962	1,880,506	TOTALS

(A) Includes Metropolitan Water District water purchased under contract with San Gabriel Valley Labor Association.

(B) San Dimas Canyon water spread prior to 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 1968-69 water year, thereafter figures include Whittier Narrows Dam (Rio Hondo side) percolation.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
WATER CONSERVATION DIVISION
SUMMARY OF IMPORTED AND RECLAIMED WATER CONSERVED
THROUGH SEPTEMBER 1973

DISTRIBUTION OF IMPORTED WATER (ACRE-FEET)

SEASON	WATER FOR UPPER SAN GABRIEL VALLEY				WATER FOR COASTAL PLAIN				TOTAL IMPORTED	SEASON
	SANTA FE SPREADING GROUNDS	SAN GABRIEL RIVER CANYON (a)	SAN GABRIEL SYSTEM UPPER	SUBTOTAL	MAIN SAN GABRIEL BASIN	SAN GABRIEL SYSTEM LOWER	RIO HONDO SYSTEM (b)	SUBTOTAL		
1953-54					15,610	7,760	7,230	30,600	30,600	1953-54
55					8,750	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					13,565	26,644	64,911	105,120	105,120	58
59					5,988	24,338	24,069	54,395	54,395	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					28,430	77,183	102,781	208,394	208,394	62
63					11,960	38,798	29,411	80,169	80,169	63
64					18,820	40,150	45,917	104,887	104,887	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	122,500	135,100	66
67			29,872	29,872	16,699	20,813	46,322	83,834	113,706	67
68			22,170	22,170	16,481	12,402	66,501	95,384	117,554	68
69			18,521	18,521	326	4,895	12,442	17,663	36,184	69
70			0	0	7,900	35,164	25,800	68,864	68,864	70
71			0	0	9,250	21,211	41,802	72,263	72,263	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
TOTALS	7,789	2,215	95,563	105,567	291,189	588,419	812,292	1,691 900	1,797,467	

(a) San Gabriel River from Morris Dam to Santa Fe Spreading Grounds

(b) Rio Hondo Spreading Grounds and Whittier Narrows Reservoir.

(c) Make-up water purchased by the Upper San Gabriel Valley Municipal Water District and spread in the lower San Gabriel System.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
WATER CONSERVATION DIVISION
SUMMARY OF IMPORTED AND RECLAIMED WATER CONSERVED
THROUGH SEPTEMBER 1973

	DISTRIBUTION OF RECLAIMED WATER (ACRE-FEET)					PURCHASED WATER (a)	FINANCED BY (a)			
	WHITTIER NARROWS PLANT			SAN JOSE PLANT						
SEASON	SAN GABRIEL SYSTEM LOWER	RIO HONDO SYSTEM (b)	SUBTOTAL	SAN GABRIEL SYSTEM LOWER	TOTAL RECLAIMED	TOTAL	ZONE 1	C & WBWRD (d)	USGVMWD	SEASON
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						105,120	105,112			58
59						54,395	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	209,572	39,492	169,814		62
63	0	12,405	12,405		12,405	92,574	4,780	88,252		63
64	4,145	9,115	13,260		13,260	118,147	0	118,157		64
65	4,867	9,662	14,529		14,529	193,134	75,456	99,196	12,400	65
66	3,130	11,926	15,056		15,056	150,156	67,813	68,903	19,100(c)	66
67	2,106	14,117	16,223		16,223	129,929	74,060	26,404	29,871	67
68	1,976	16,300	18,276		18,276	135,830	66,592	47,073	22,170	68
69	7,772	6,105	13,877		13,877	50,061	12,529	19,128	18,567	69
70	3,683	13,474	17,157		17,157	86,021	25,800	60,221	0	70
71	8,367	11,128	19,495		19,495	91,758	46,997	44,761	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
TOTALS	42,445	130,232	172,677	8,327	181,004	1,978,471	894,149	974,101	112,112	

(a) Differences between water distributed and water financed 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.

(b) Rio Hondo Spreading Grounds and Whittier Narrows Reservoir.

(c) Make-up water purchased by the Upper San Gabriel Valley Municipal Water District and spread in the lower San Gabriel System.

(d) All reclaimed water purchased by Central and West Basin Water Replenishment District.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
WATER CONSERVATION DIVISION
SUMMARY OF WATER SPREAD IN GROUNDS
NOT OWNED BY THE DISTRICT
THROUGH SEPTEMBER 1973

RECORD OF WATER SPREAD
ACRE-FEET

	GROUNDS IN WHICH DISTRICT DOES CONSTRUCTION, MAINTENANCE, AND SOME OPERATIONS						GROUNDS CONTROLLED BY OTHERS, THE DISTRICT COOPERATING				
	CITY OF SIERRA MADRE		CALIFORNIA AMERICAN	SAN GABRIEL SPREADING CORPORATION					LOS ANGELES CITY DEPT. OF WATER AND POWER		
SEASON	SANTA ANITA WATER	LOCAL WATER	FISH CANYON (G)	CANYON BASIN (F)	MAIN BASIN	THOMPSON CREEK (B)	SAN ANTONIO (B)	CITY OF POMONA	TUJUNGA	HEADWORKS	TOTAL	SEASON
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)	(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	(D)	37,700	39
40		(C)		19,304	8,544	0	2,670	(C)	3,204	(D)	33,542	40
41		(C)		45,618	13,298	563	28,093	(C)	3,446	(D)	91,018	41
42		(C)		21,392	8,241	0	83	(C)	11,290	(D)	41,006	42
43		(C)		24,502	7,702	505	26,000	(C)	12,134	(D)	70,843	43
44		(C)		31,130	9,820	37	10,270	(C)	3,192	(D)	54,449	44
45		(C		34,681	14,467	18	4,957	(C)	0	17,518	71,641	45
46		(C)		23,351	12,745	5	3,271	(C)	0	21,141	60,513	46
47		(C)		23,716	8,936	0	5,801	(C)	1,686	18,738	58,877	47
48		(C)		4,796	2,218	0	6	(C)	0	19,016	26,036	48
49		(C)		2,874	1,343	0	0	(C)	0	6,541	10,668	49
50		(C)		9,125	2,590	0	55	450	762	7,691	20,693	50
51		(C)		1,378	622	0	3	0	2,355	4,917	9,275	51
52	1,547	384		27,847	8,361	163	10,467	952	7,269	1,524	58,514	52
53	257	5		15,765	5,705	0	1,011	357	0	7,424	30,524	53
54	470	113		18,021	4,960	0	3,150	916	0	6,648	34,278	54
55	288	50		20,328	6,096	0	0	838	0	10,867	38,467	55
56	349	80		19,135	3,406	0	927	660	0	6,553	36,110	56
57	295	36		16,225	6,199	0	0	1,341	0	4,784	28,880	57
58	3,897	313		47,419	7,616	164	12,881	3,026	0	6,278	81,594	58
59	343	14		24,558	6,176 (A)	0	0	2,820	0	9,045	42,956	59
60	43	2		6,111	(E)	0	0	963	0	8,040	15,159	60
61	41	2		2,534		0	0	12	0	6,121	8,710	61
62	1,313	219		34,008		27	2,525	234	6,894	10,642	55,862	62
63	874	21		23,345		0	0	73	0	10,279	36,592	63
64	427	54		12,785		0	0	70	0	11,312	24,648	64
65	905	99		17,463		0	*	71	0	12,881	31,419	65
66	4,075	386		22,981		0	13,056	508	4,537	11,783	57,326	66
67	4,236	767		34,415		45	10,727	856	8,331	8,870	68,247	67
68	1,723	107		26,955		21	549	407	0	11,860	41,622	68
69	1,871	2,024		17,733		850	29,960	340	16,728	6,698	76,204	69
70	521	67	7,635	1,697 (H)		0	365	242	2,380	11,021	23,928	70
71	1,299	118	10,968			0	26	251	399	6,804	19,865	71
72	857	17	5,303			0	45 (J)	127	0	7,389	13,738	72
73	3,017	376	7,619			0	6,725 (J)	851	2,274	5,182	26,044	73
TOTALS	28,648	5,254	31,525	949,540	252,772	2,398	237,927	16,365	225,518	277,477	2,027,424	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.

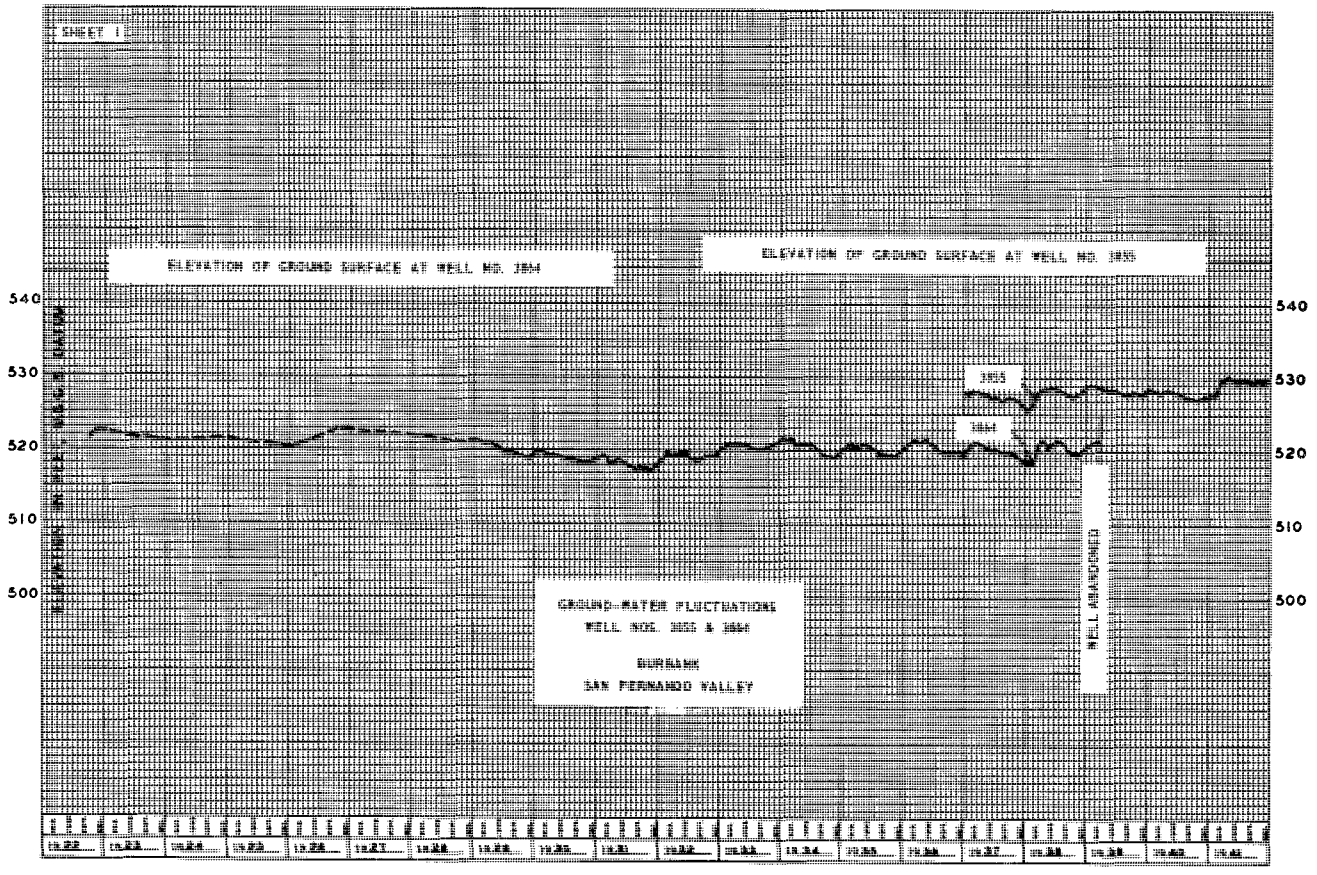
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
WATER CONSERVATION DIVISION
SUMMARY OF WATER INJECTED AT BARRIER PROJECTS
UPDATED THROUGH SEPTEMBER 1973

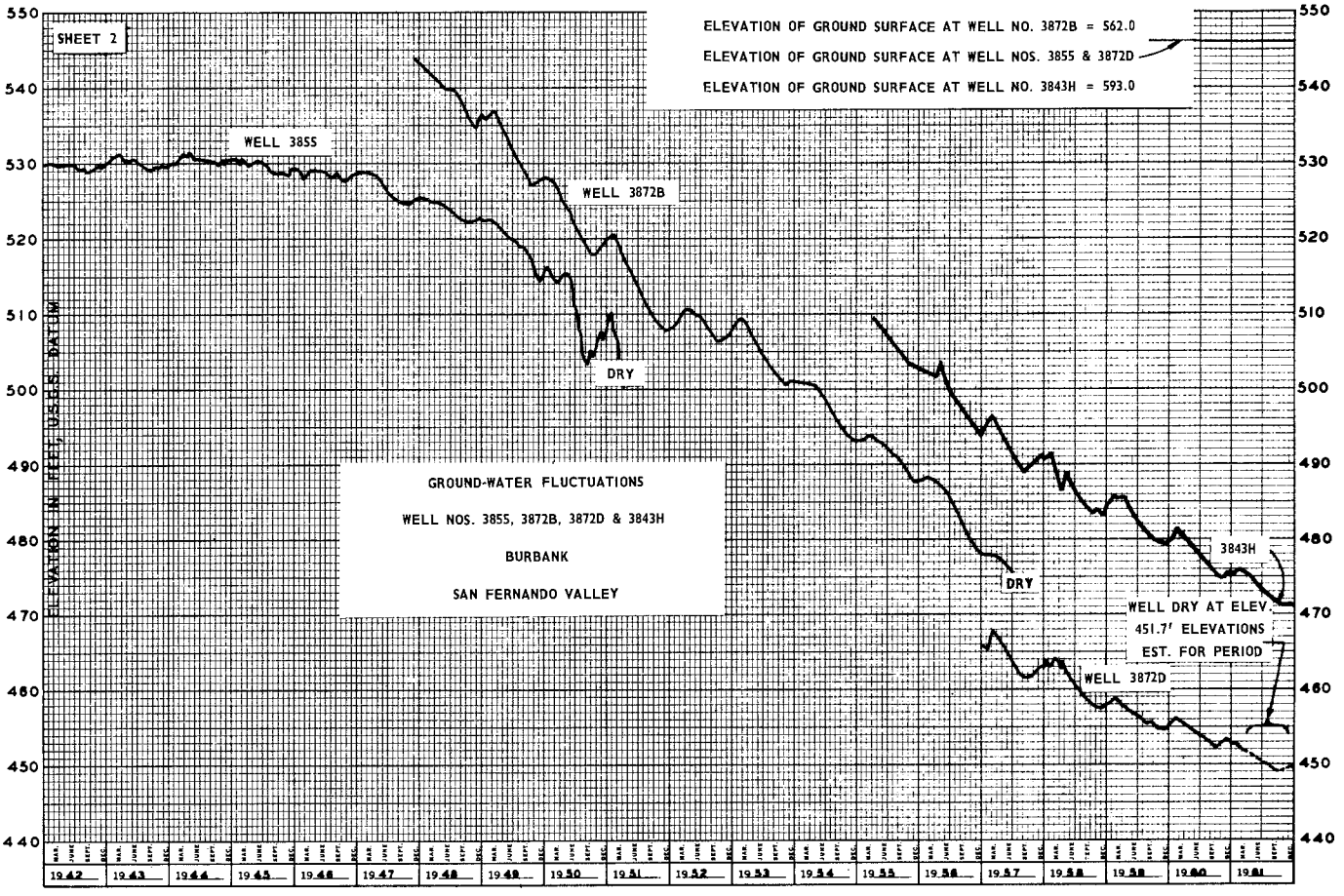
		WEST COAST BASIN BARRIER PROJECT				ALAMITOS BARRIER PROJECT			DOMINGUEZ GAP BARRIER PROJECT			
WATER YEAR	STATE APPROPRIATION	C & WBWRD	WBWA	ZONE II	TOTAL WCBBP	C & WBWRD	OCWD	TOTAL ABP	C & WBWRD	ZONE II	TOTAL DGBP	TOTAL ALL PROJECTS
1952-53	1,141*				1,141							1,141
54	761*		1,673	856	3,290							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
TOTAL	1,902	220,054	1,673	135,869	359,498	33,471	6,071	39,542	18,871	1,346	20,217	419,257

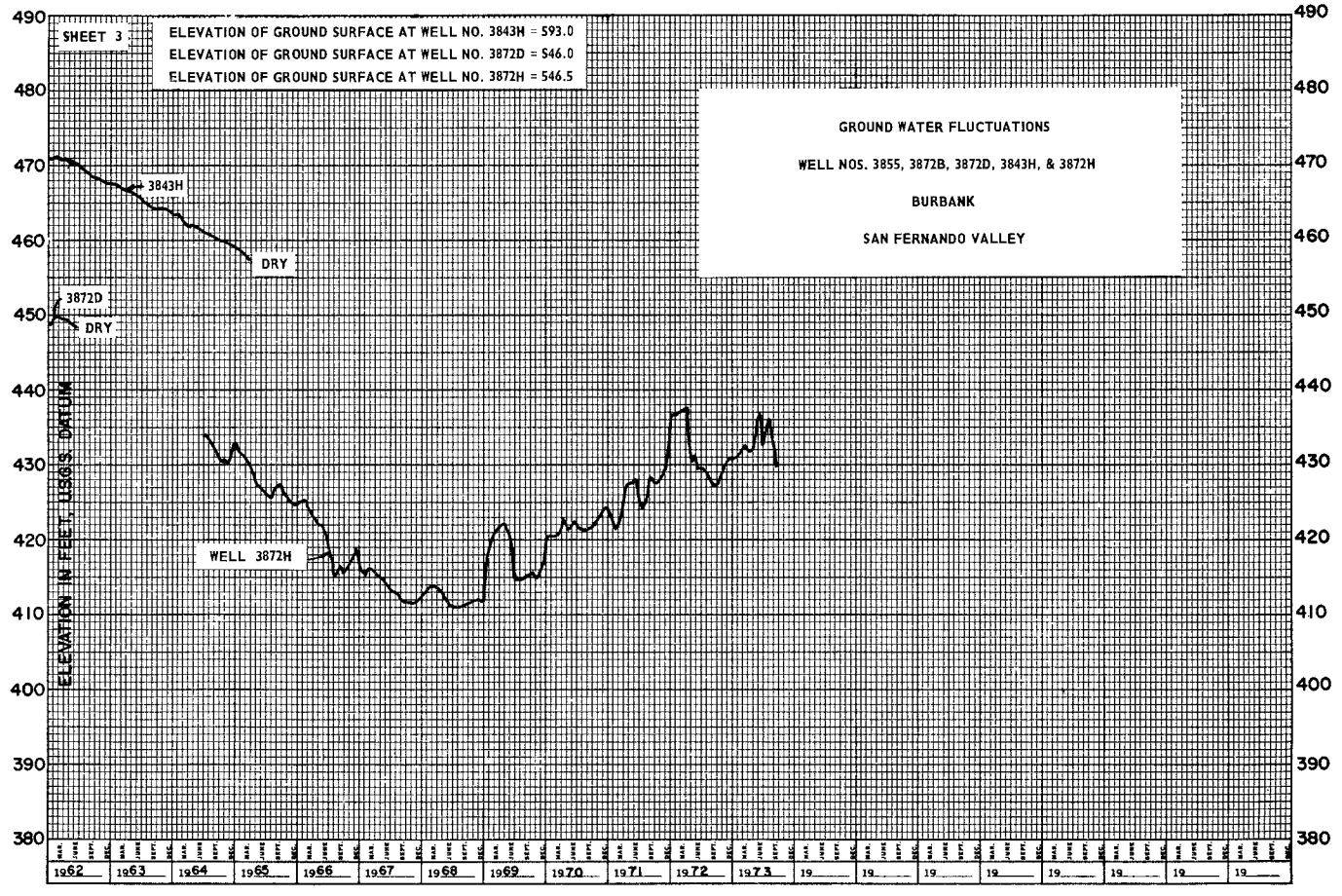
* Funds provided for West Coast Basin Experimental Project by State Water Resources Board.

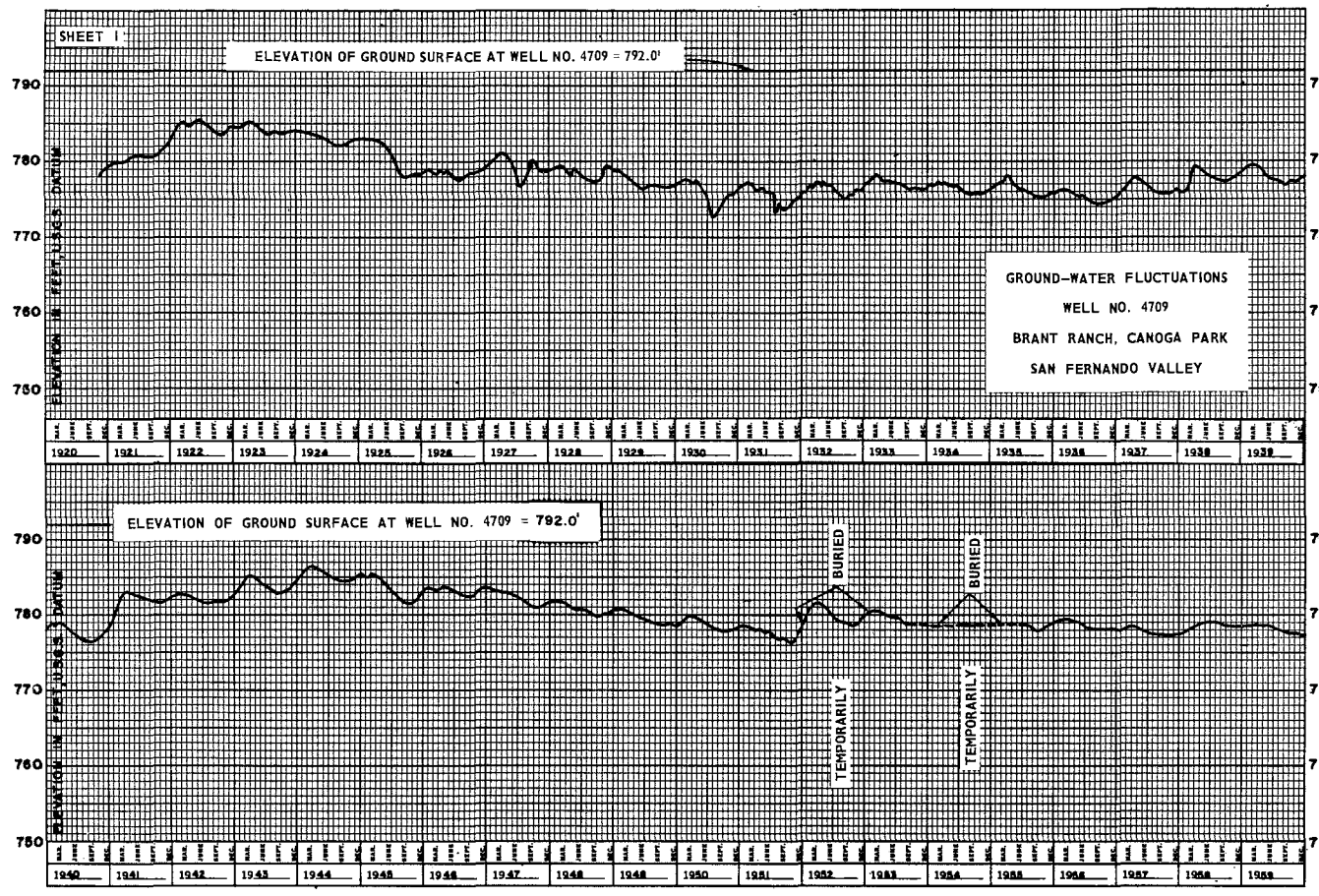
WELL HYDROGRAPHS INCLUDED IN THIS REPORT

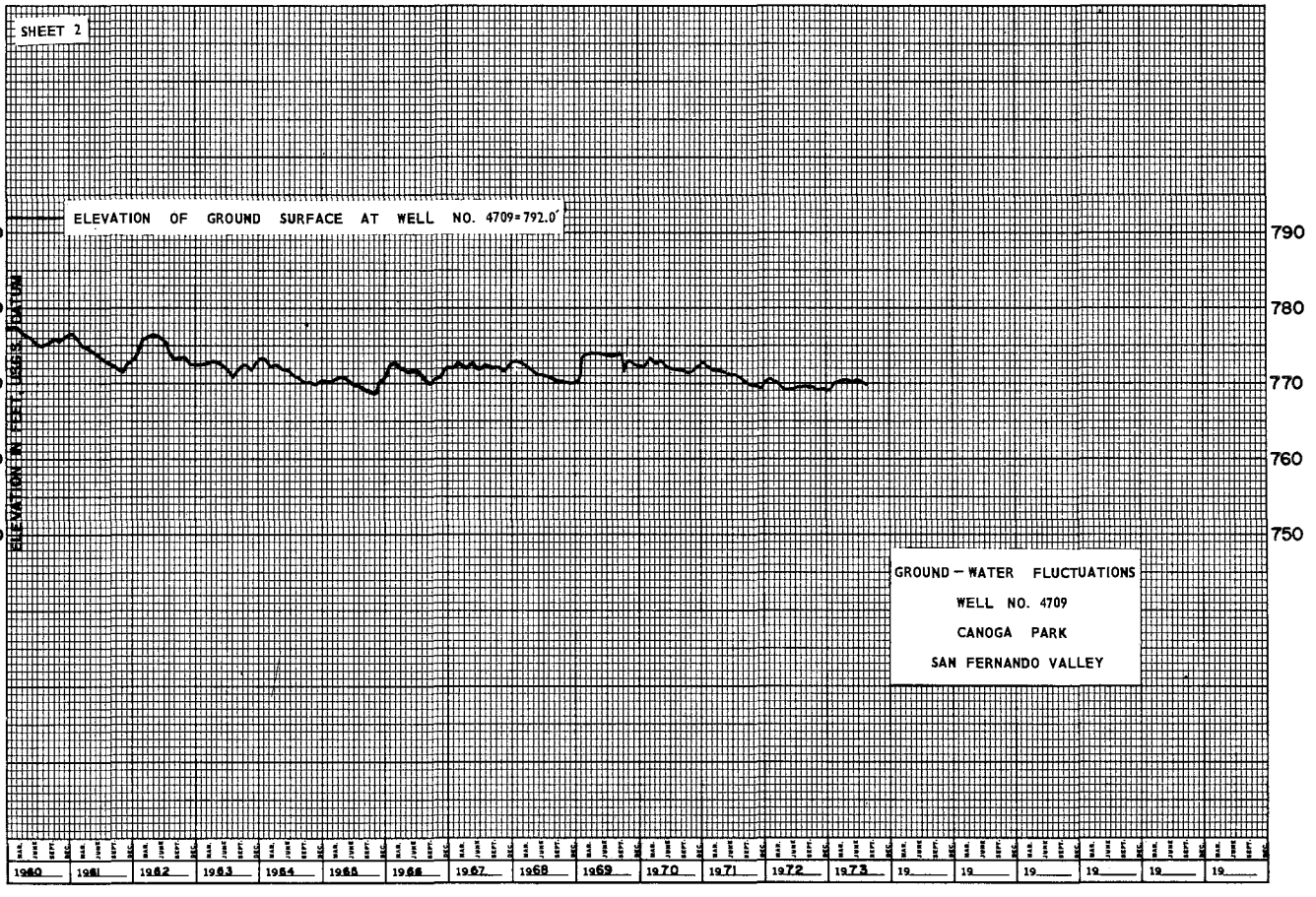
* WELL LISTED IS THAT WELL CURRENTLY BEING MEASURED AT THE LOCATION DESCRIBED.

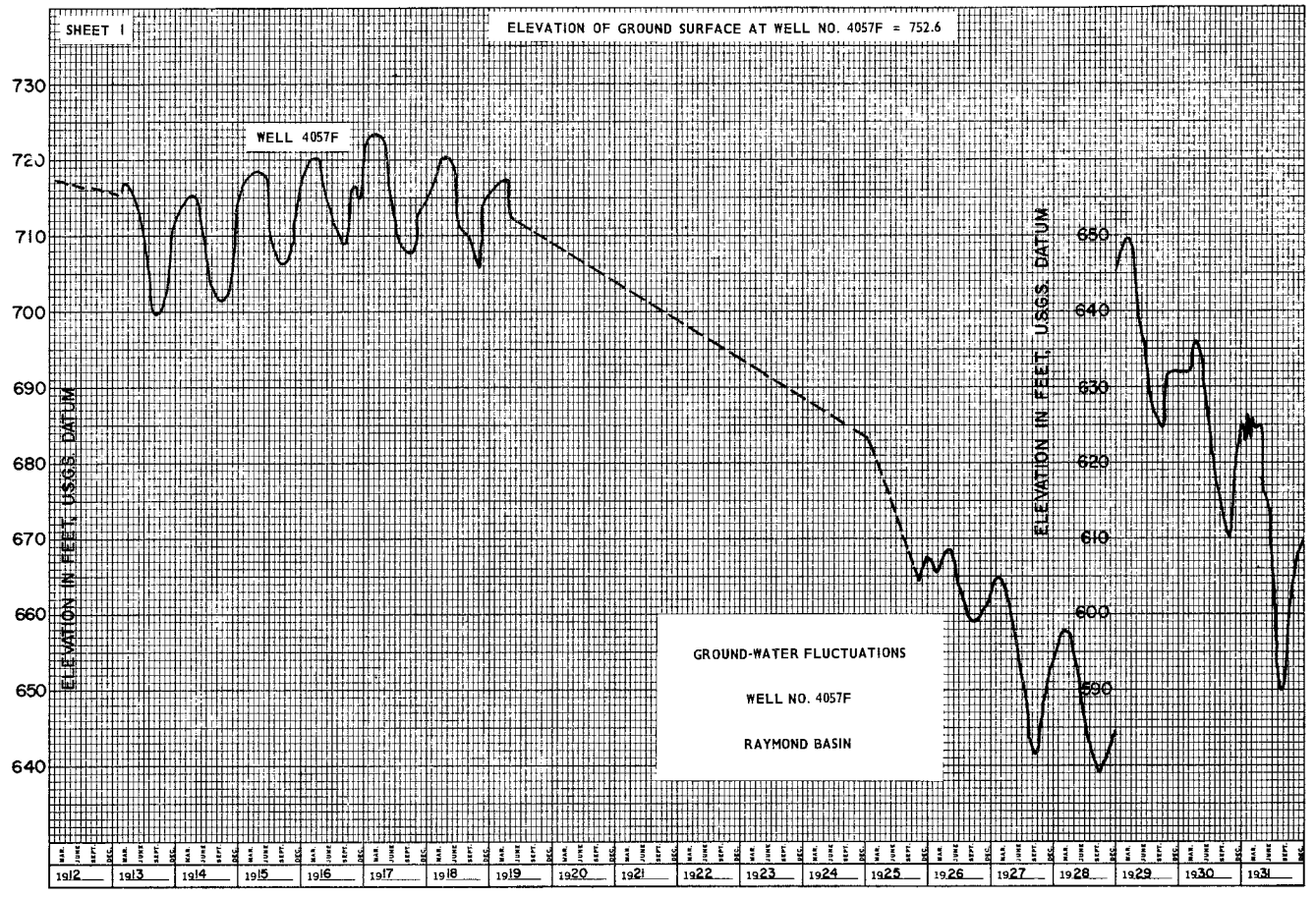


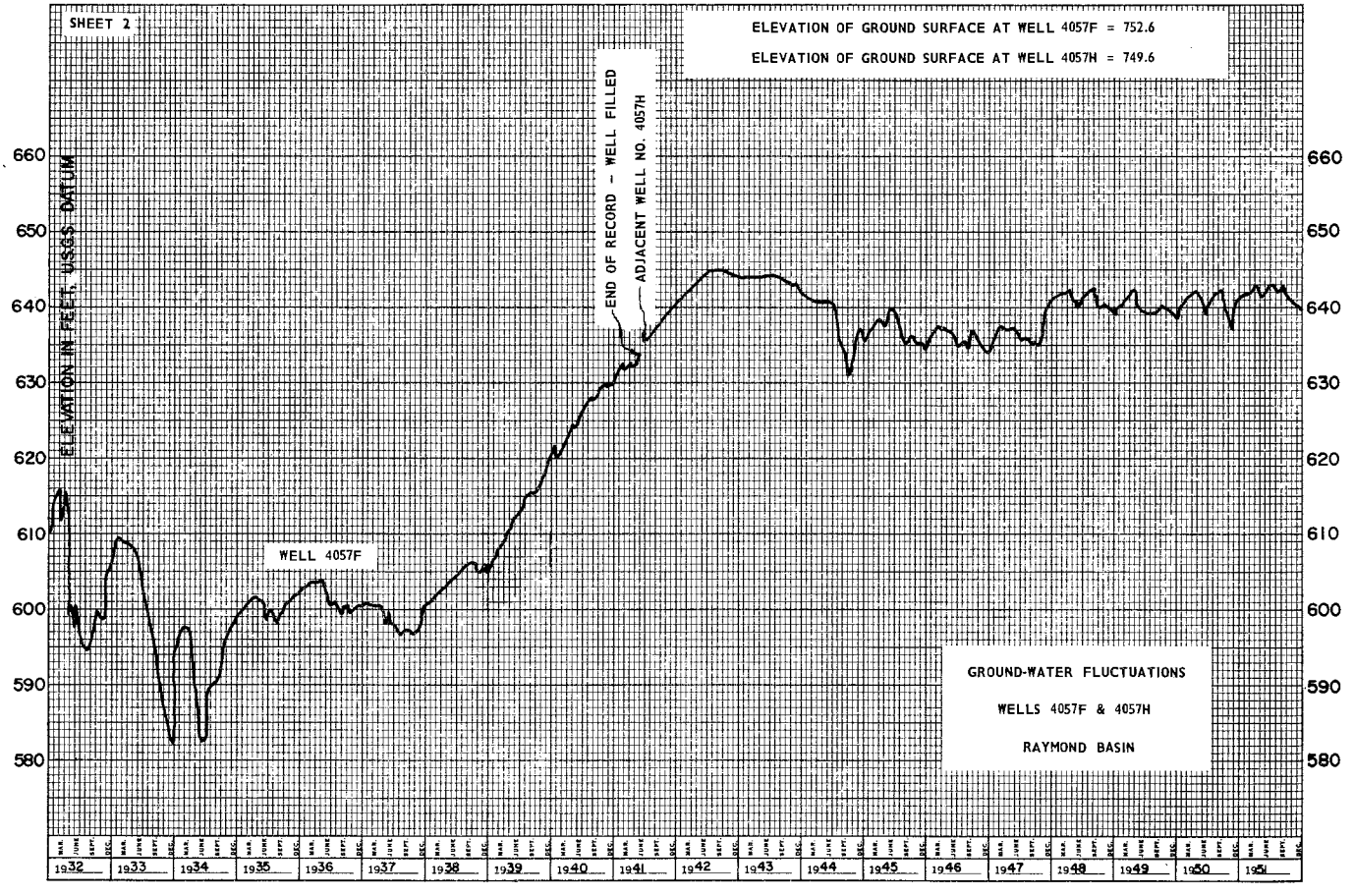

SHEET 2
ELEVATION OF GROUND SURFACE AT WELL NO. 3872B = 562.0
ELEVATION OF GROUND SURFACE AT WELL NOS. 3855 & 3872D
ELEVATION OF GROUND SURFACE AT WELL NO. 3843H = 593.0
WELL 3855
WELL 3872B
DRY
DRY
3843H
WELL DRY AT ELEV. 451.7' ELEVATIONS EST. FOR PERIOD
WELL 3872D
GROUND-WATER FLUCTUATIONS
WELL NOS. 3855, 3872B, 3872D & 3843H
BURBANK
SAN FERNANDO VALLEY
ELEVATION IN FEET, U.S.G.S. DATUM
550
540
530
520
510
500
490
480
470
460
450
440
1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961

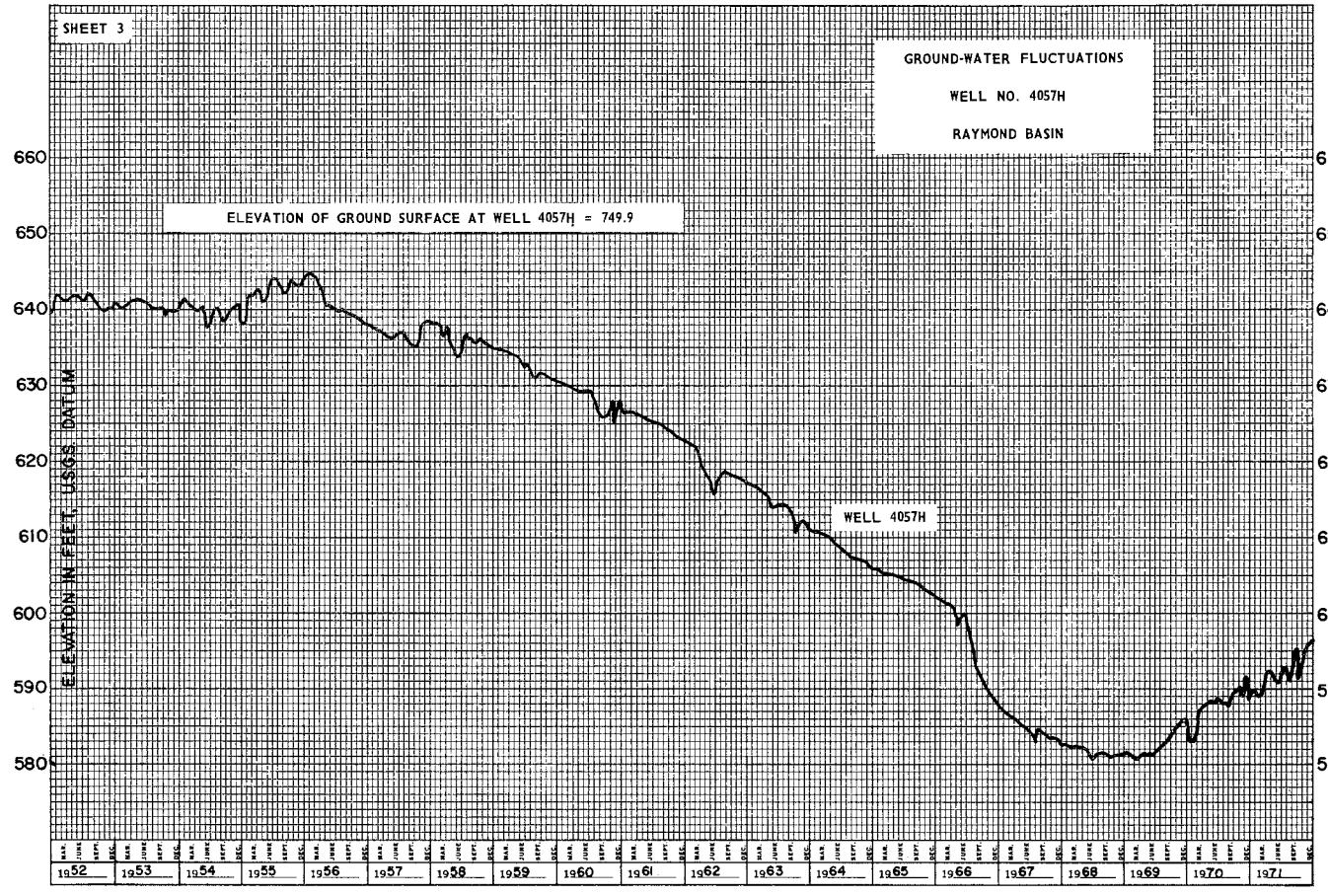

SHEET 3
ELEVATION OF GROUND SURFACE AT WELL NO. 3843H = 593.0
ELEVATION OF GROUND SURFACE AT WELL NO. 3872D = 546.0
ELEVATION OF GROUND SURFACE AT WELL NO. 3872H = 546.5
GROUND WATER FLUCTUATIONS
WELL NOS. 3855, 3872B, 3872D, 3843H, & 3872H
BURBANK
SAN FERNANDO VALLEY
3843H
DRY
3872D
DRY
WELL 3872H
ELEVATION IN FEET, USGS. DATUM
490
480
470
460
450
440
430
420
410
400
390
380
1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 19 19 19 19 19 19 19 19

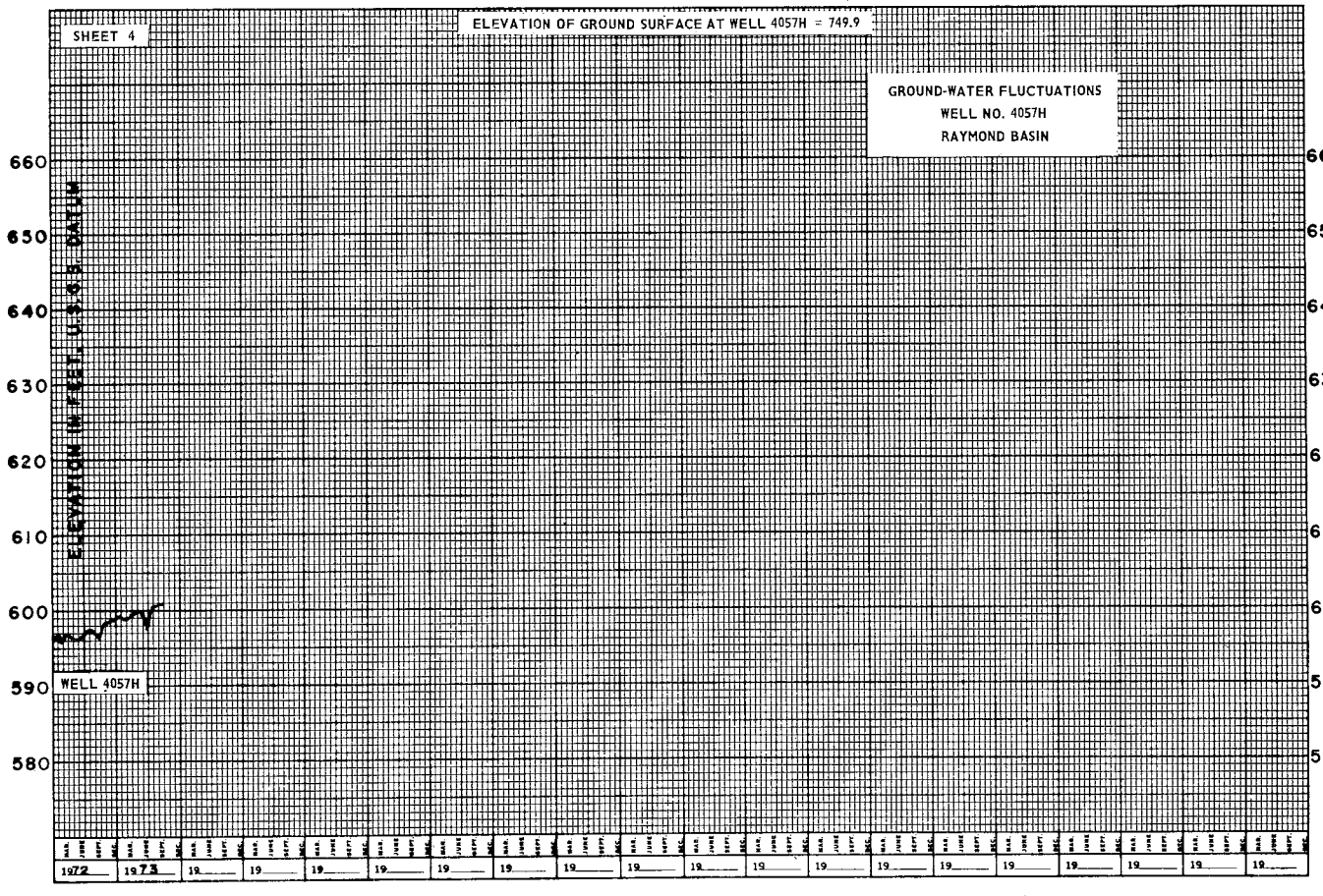

SHEET 1
ELEVATION OF GROUND SURFACE AT WELL NO. 4709 = 792.0'
ELEVATION IN FEET, USGS DATUM
790
780
770
760
750
GROUND-WATER FLUCTUATIONS
WELL NO. 4709
BRANT RANCH, CANOGA PARK
SAN FERNANDO VALLEY
1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939
ELEVATION OF GROUND SURFACE AT WELL NO. 4709 = 792.0'
TEMPORARILY BURIED
TEMPORARILY BURIED
1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959


SHEET 2
ELEVATION OF GROUND SURFACE AT WELL NO. 4709=792.0'
ELEVATION IN FEET, USGS DATUM
790
780
770
760
750
GROUND - WATER FLUCTUATIONS
WELL NO. 4709
CANOGA PARK
SAN FERNANDO VALLEY
1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 19 19 19 19 19 19

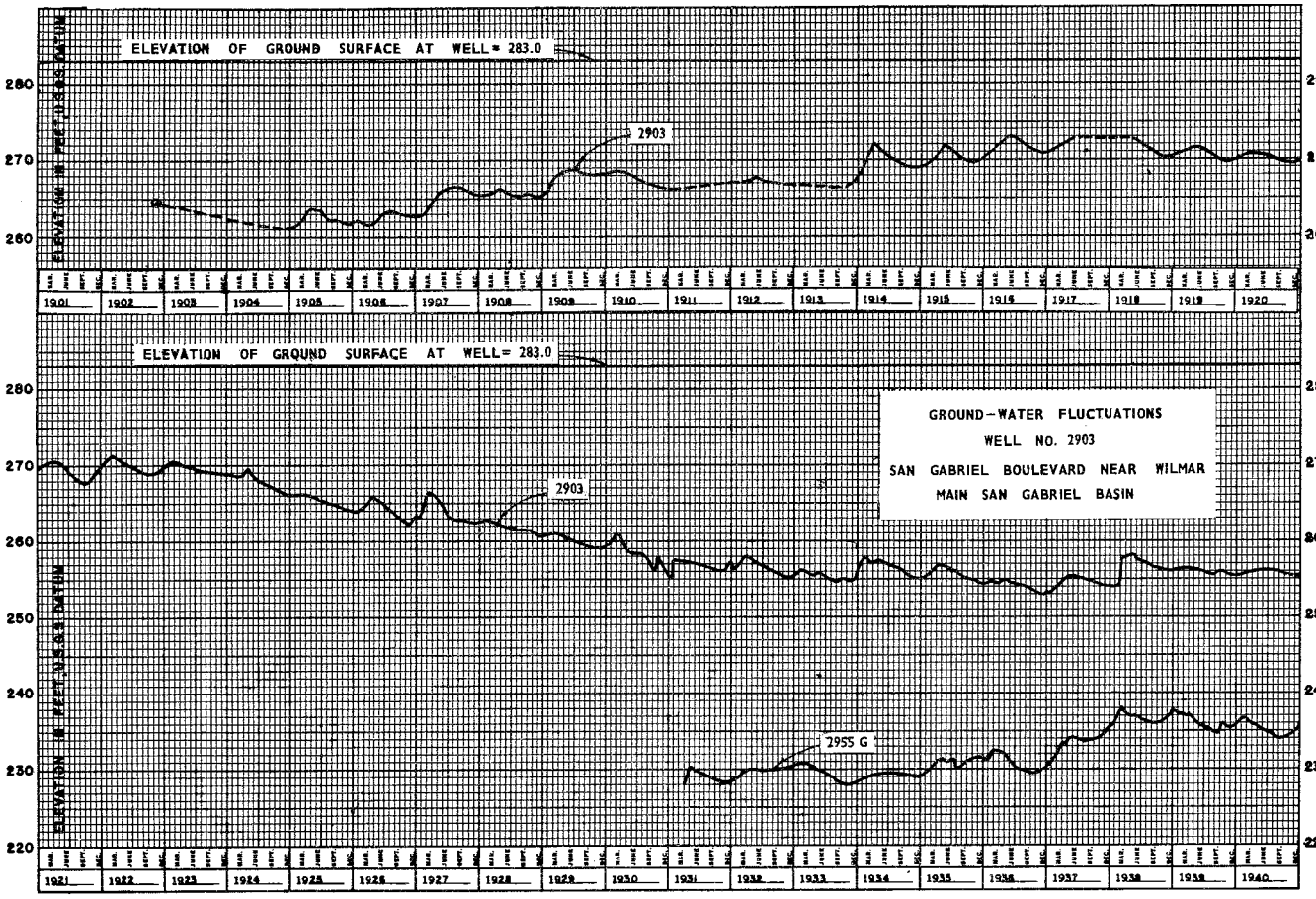

SHEET 1
ELEVATION OF GROUND SURFACE AT WELL NO. 4057F = 752.6
WELL 4057F
ELEVATION IN FEET, USGS DATUM
730
720
710
700
690
680
670
660
650
640
650
640
630
620
610
600
590
GROUND-WATER FLUCTUATIONS
WELL NO. 4057F
RAYMOND BASIN
1912
1913
1914
1915
1916
1917
1918
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931

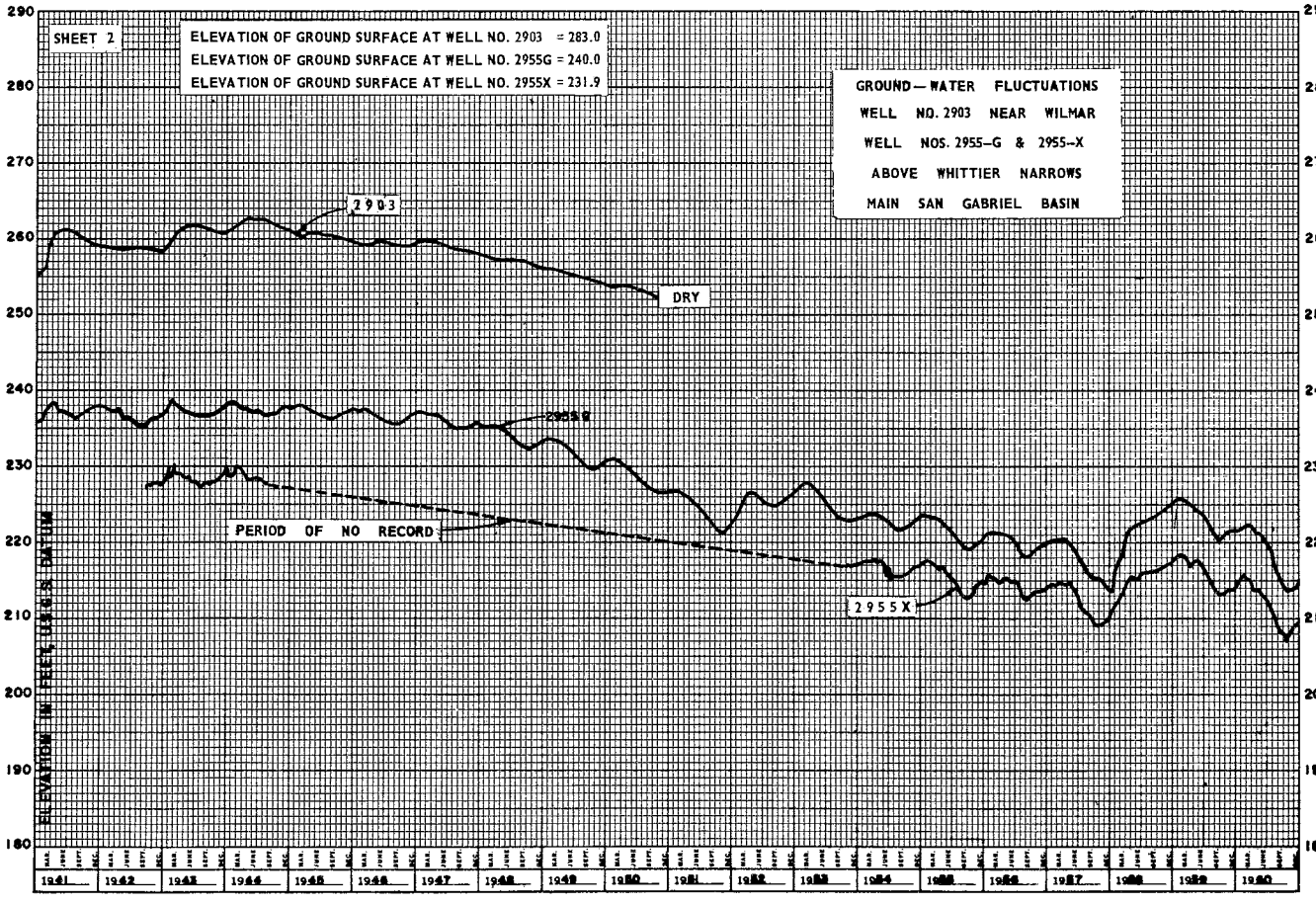

SHEET 2
ELEVATION OF GROUND SURFACE AT WELL 4057F = 752.6
ELEVATION OF GROUND SURFACE AT WELL 4057H = 749.6
END OF RECORD - WELL FILLED
ADJACENT WELL NO. 4057H
WELL 4057F
ELEVATION IN FEET, USGS DATUM
660
650
640
630
620
610
600
590
580
GROUND-WATER FLUCTUATIONS
WELLS 4057F & 4057H
RAYMOND BASIN
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943
1944
1945
1946
1947
1948
1949
1950
1951

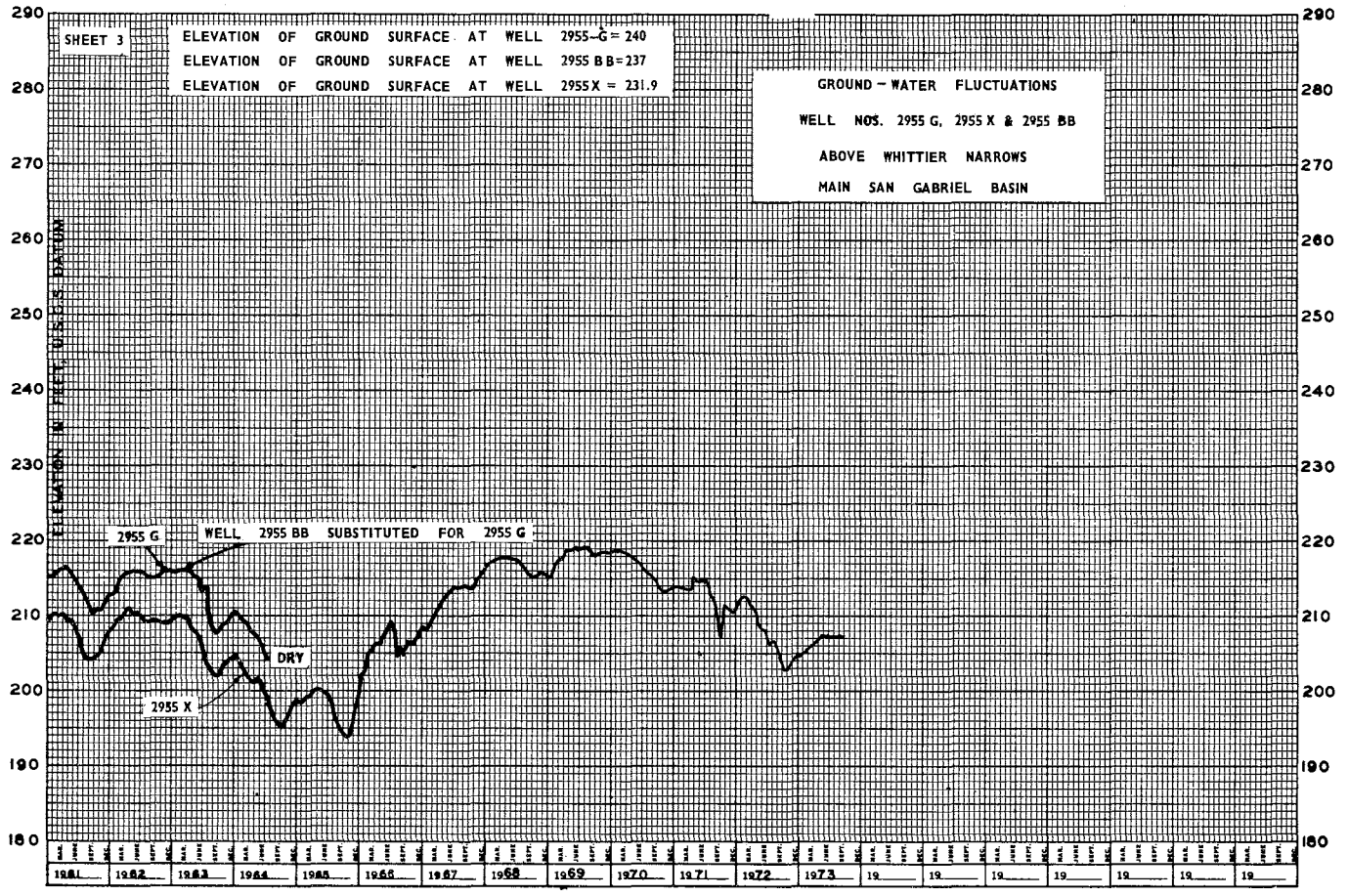

SHEET 3
GROUND-WATER FLUCTUATIONS
WELL NO. 4057H
RAYMOND BASIN
ELEVATION OF GROUND SURFACE AT WELL 4057H = 749.9
ELEVATION IN FEET, USGS DATUM
WELL 4057H
660
650
640
630
620
610
600
590
580
1952
1953
1954
1955
1956
1957
1958
1959
1960
1961
1962
1963
1964
1965
1966
1967
1968
1969
1970
1971

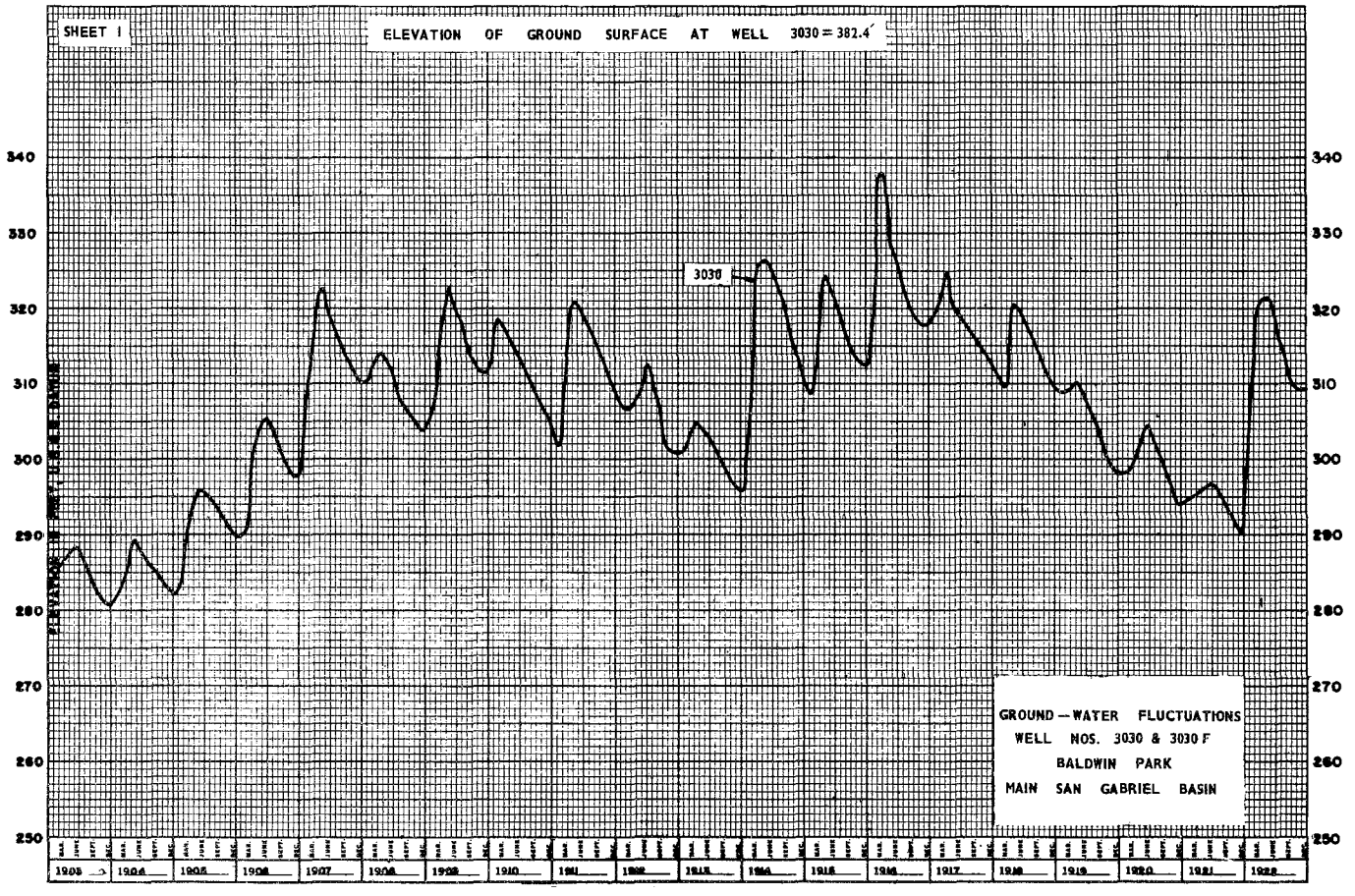

SHEET 4
ELEVATION OF GROUND SURFACE AT WELL 4057H = 749.9
GROUND-WATER FLUCTUATIONS
WELL NO. 4057H
RAYMOND BASIN
ELEVATION IN FEET, U.S.G.S. DATUM
WELL 4057H
660
650
640
630
620
610
600
590
580
1972
1973
19
19
19
19
19
19
19
19
19
19
19
19
19
19
19
19
19
19
19

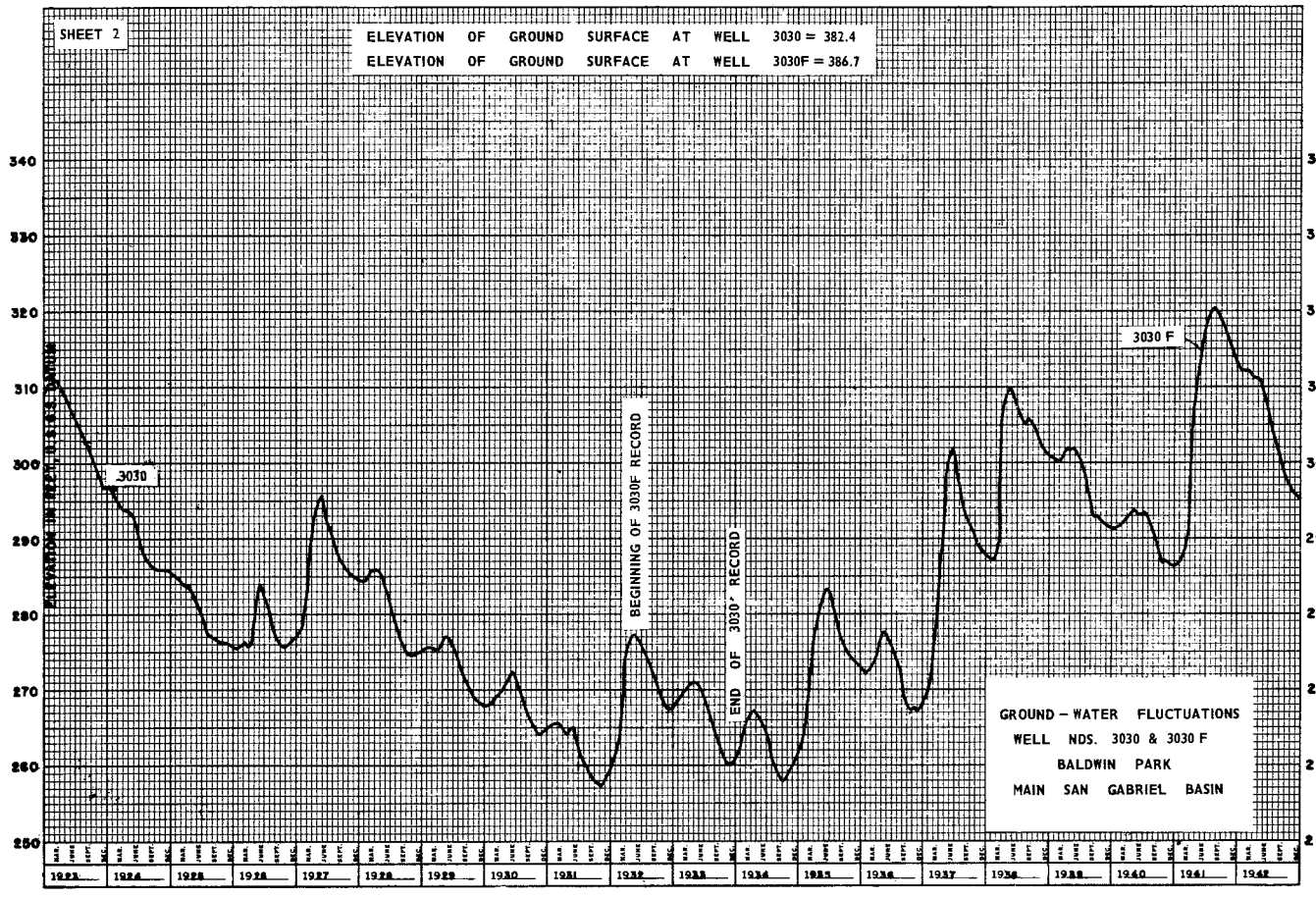
SHEET 1

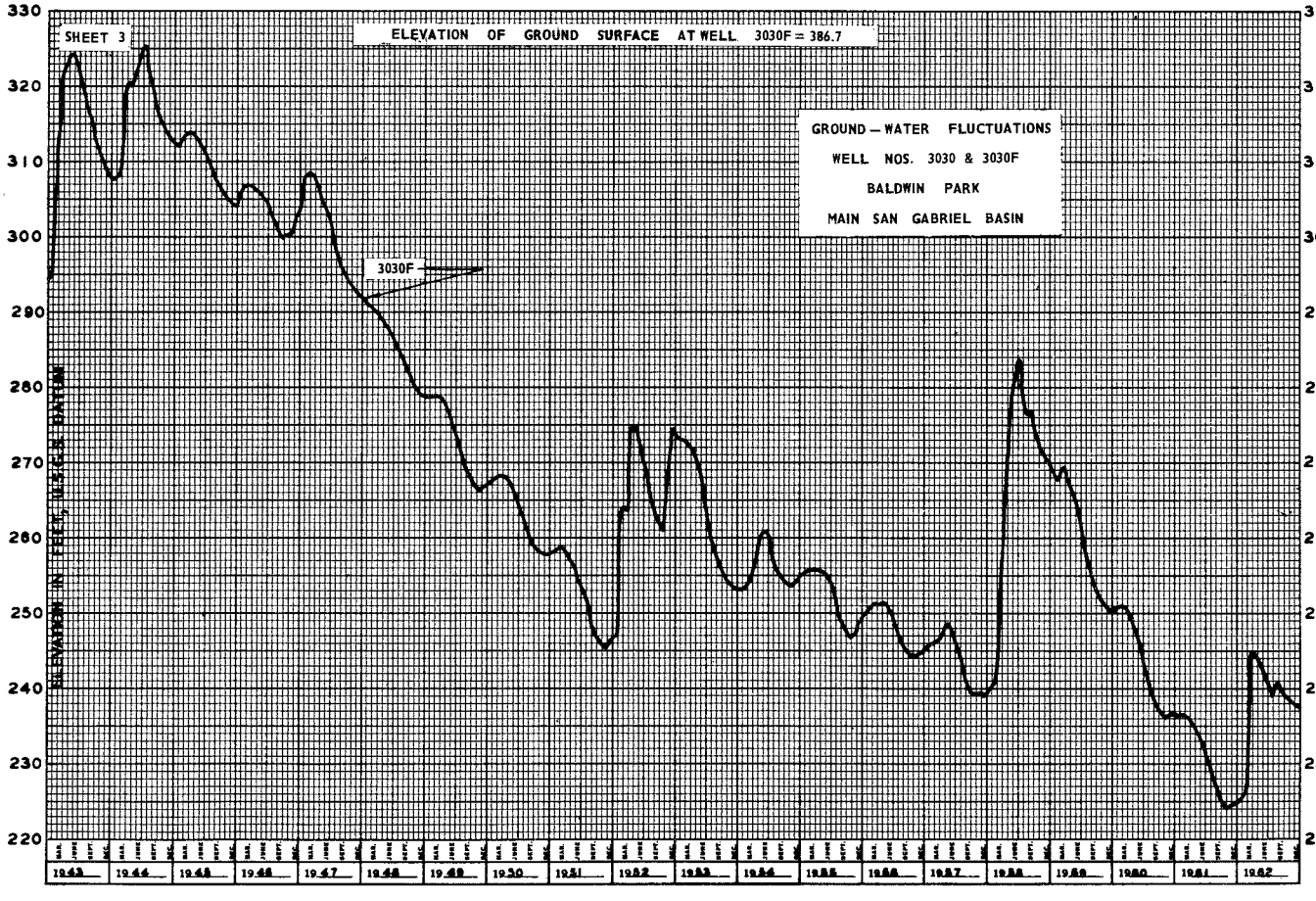

ELEVATION OF GROUND SURFACE AT WELL = 283.0
2903
ELEVATION IN FEET, U.S.G.S. DATUM
280
270
260
1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920
ELEVATION OF GROUND SURFACE AT WELL = 283.0
GROUND-WATER FLUCTUATIONS
WELL NO. 2903
SAN GABRIEL BOULEVARD NEAR WILMAR
MAIN SAN GABRIEL BASIN
2903
2955 G
ELEVATION IN FEET, U.S.G.S. DATUM
280
270
260
250
240
230
220
1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940

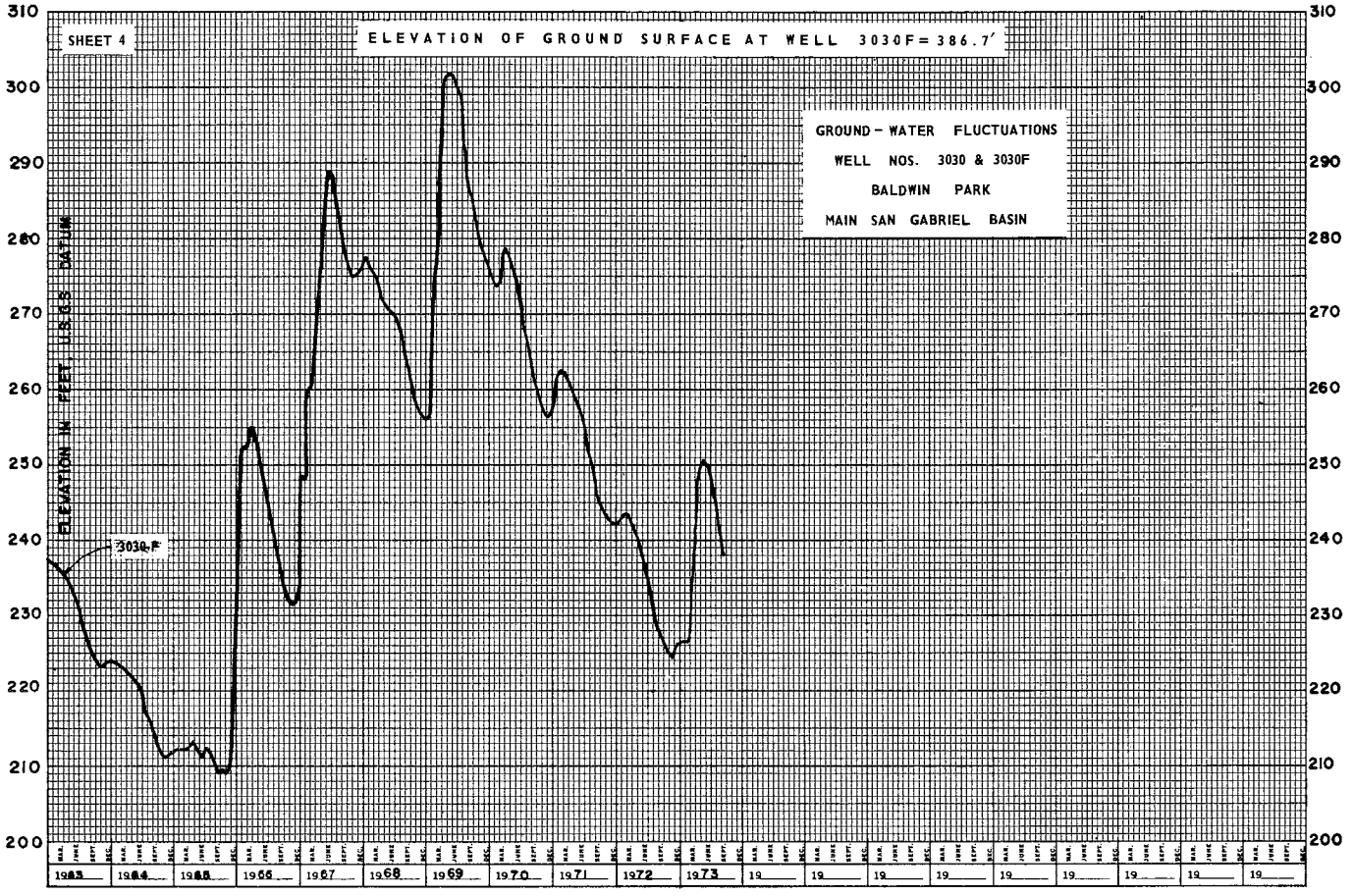

SHEET 2
ELEVATION OF GROUND SURFACE AT WELL NO. 2903 = 283.0
ELEVATION OF GROUND SURFACE AT WELL NO. 2955G = 240.0
ELEVATION OF GROUND SURFACE AT WELL NO. 2955X = 231.9
GROUND-WATER FLUCTUATIONS
WELL NO. 2903 NEAR WILMAR
WELL NOS. 2955-G & 2955-X
ABOVE WHITTIER NARROWS
MAIN SAN GABRIEL BASIN
2903
DRY
PERIOD OF NO RECORD
2955X
ELEVATION IN FEET, U.S.G.S. DATUM
290
280
270
260
250
240
230
220
210
200
190
180
1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960

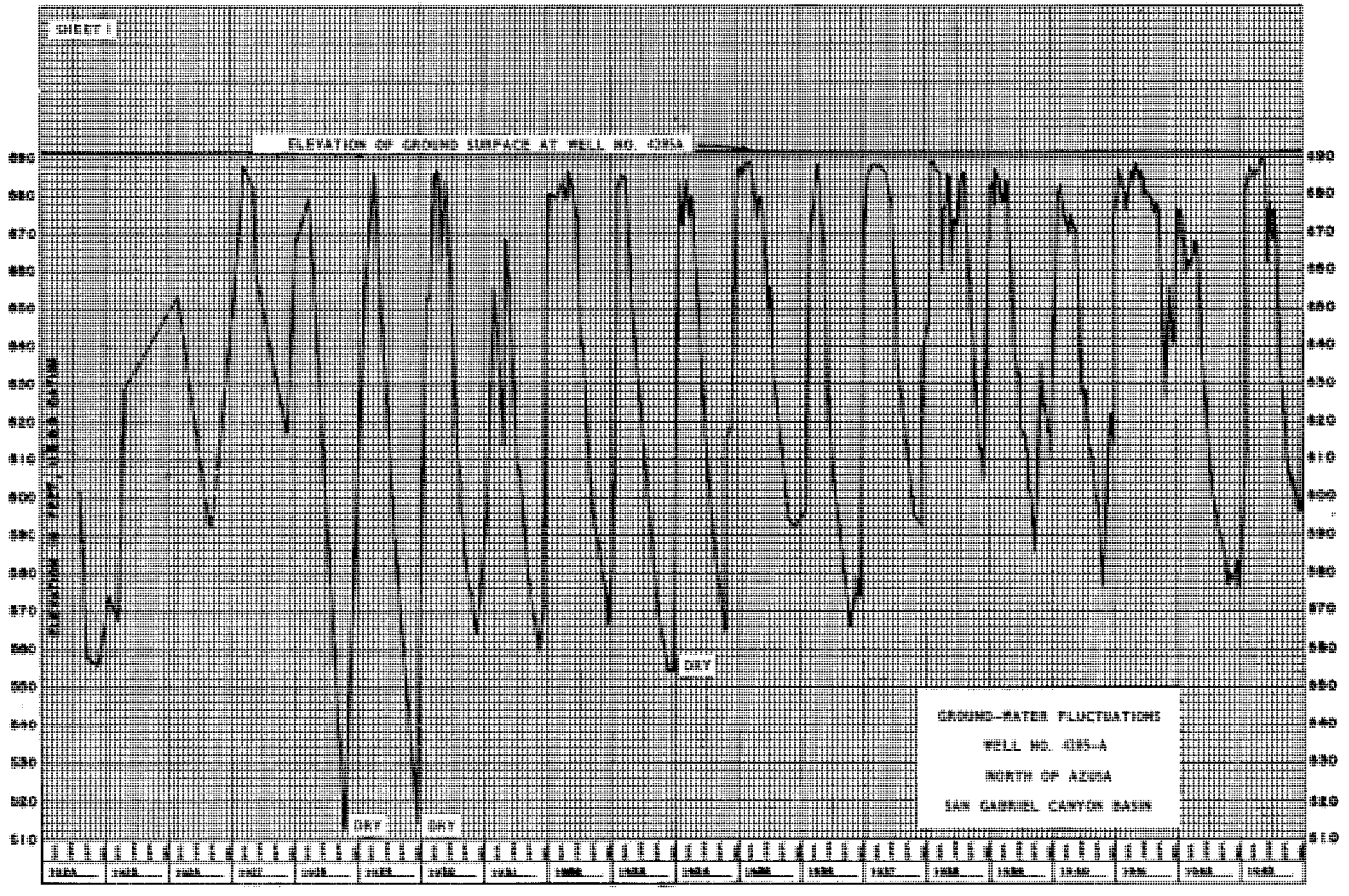

SHEET 3
ELEVATION OF GROUND SURFACE AT WELL 2955-G = 240
ELEVATION OF GROUND SURFACE AT WELL 2955 B B = 237
ELEVATION OF GROUND SURFACE AT WELL 2955 X = 231.9
GROUND - WATER FLUCTUATIONS
WELL NOS. 2955 G, 2955 X & 2955 BB
ABOVE WHITTIER NARROWS
MAIN SAN GABRIEL BASIN
ELEVATION IN FEET, U.S.G.S. DATUM
2955 G
WELL 2955 BB SUBSTITUTED FOR 2955 G
DRY
2955 X
290
280
270
260
250
240
230
220
210
200
190
180
1961
1962
1963
1964
1965
1966
1967
1968
1969
1970
1971
1972
1973

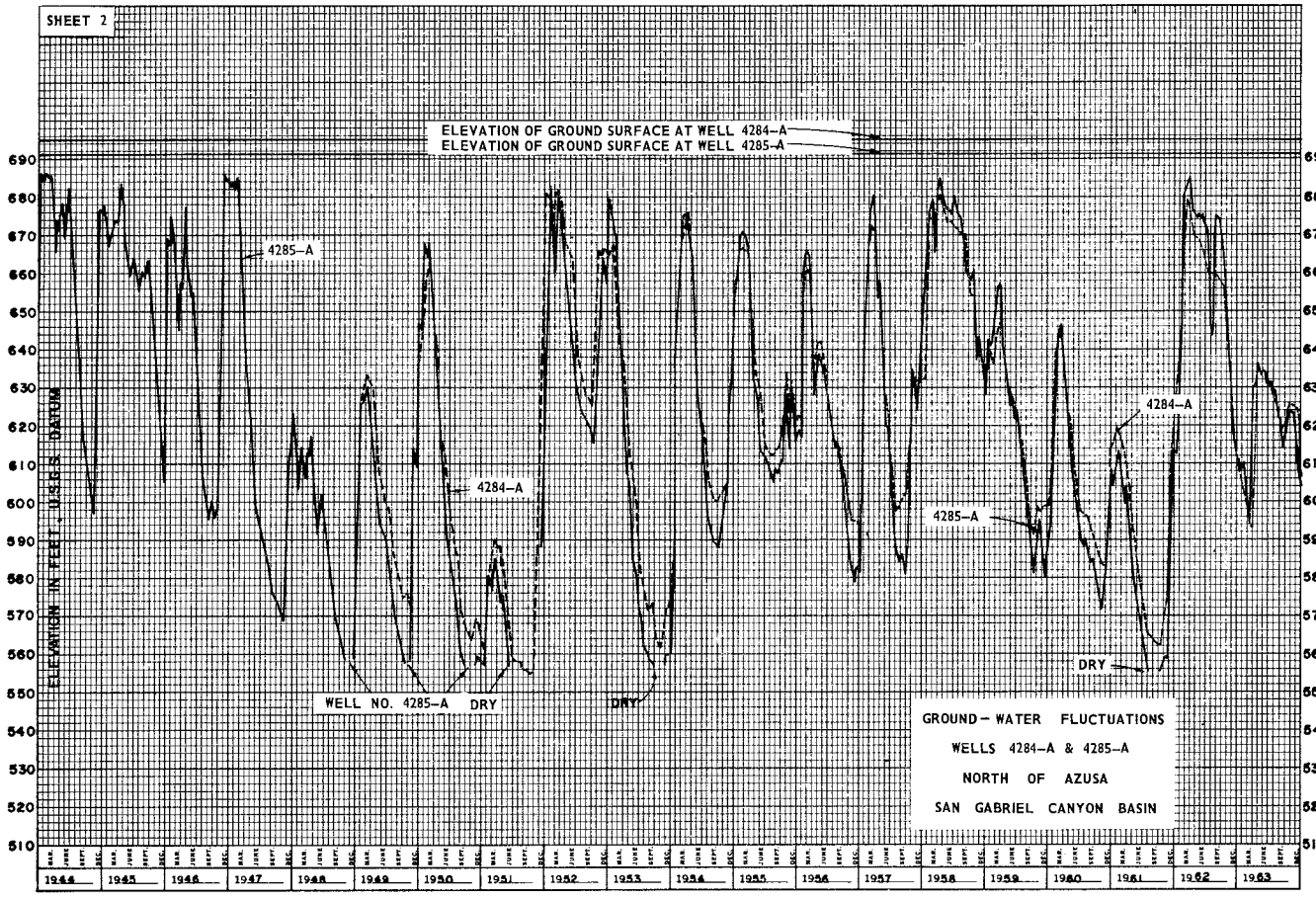

SHEET 1
ELEVATION OF GROUND SURFACE AT WELL 3030 = 382.4'
ELEVATION IN FEET, U.S.G.S. DATUM
3030 F
GROUND - WATER FLUCTUATIONS
WELL NOS. 3030 & 3030 F
BALDWIN PARK
MAIN SAN GABRIEL BASIN
340
330
320
310
300
290
280
270
260
250
1903
1904
1905
1906
1907
1908
1909
1910
1911
1912
1913
1914
1915
1916
1917
1918
1919
1920
1921
1922

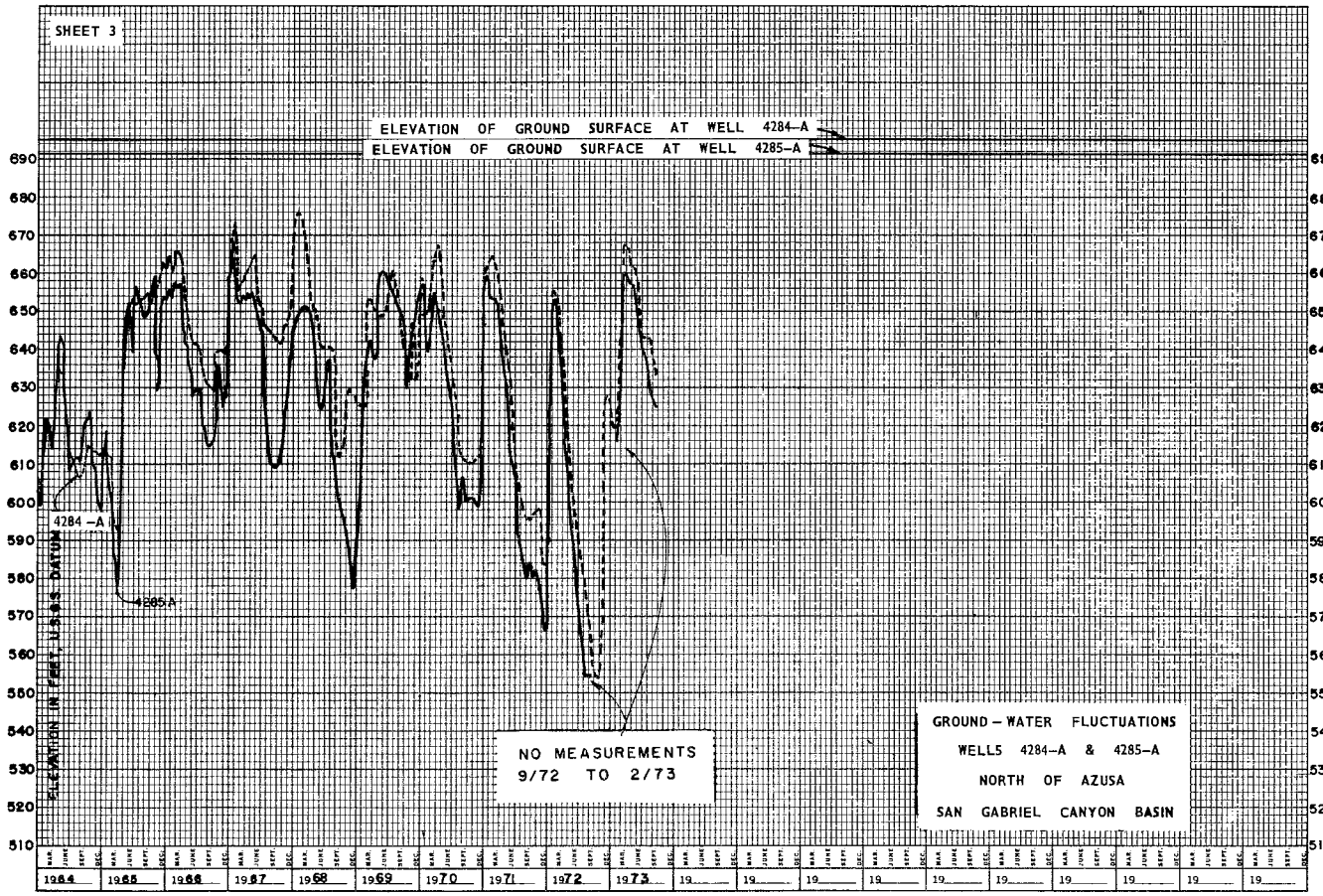

SHEET 2
ELEVATION OF GROUND SURFACE AT WELL 3030 = 382.4
ELEVATION OF GROUND SURFACE AT WELL 3030F = 386.7
ELEVATION IN FEET, U.S.C.& G.S. DATUM
3030
3030 F
BEGINNING OF 3030F RECORD
END OF 3030' RECORD
GROUND – WATER FLUCTUATIONS
WELL NOS. 3030 & 3030 F
BALDWIN PARK
MAIN SAN GABRIEL BASIN
340
330
320
310
300
290
280
270
260
250
1923
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942

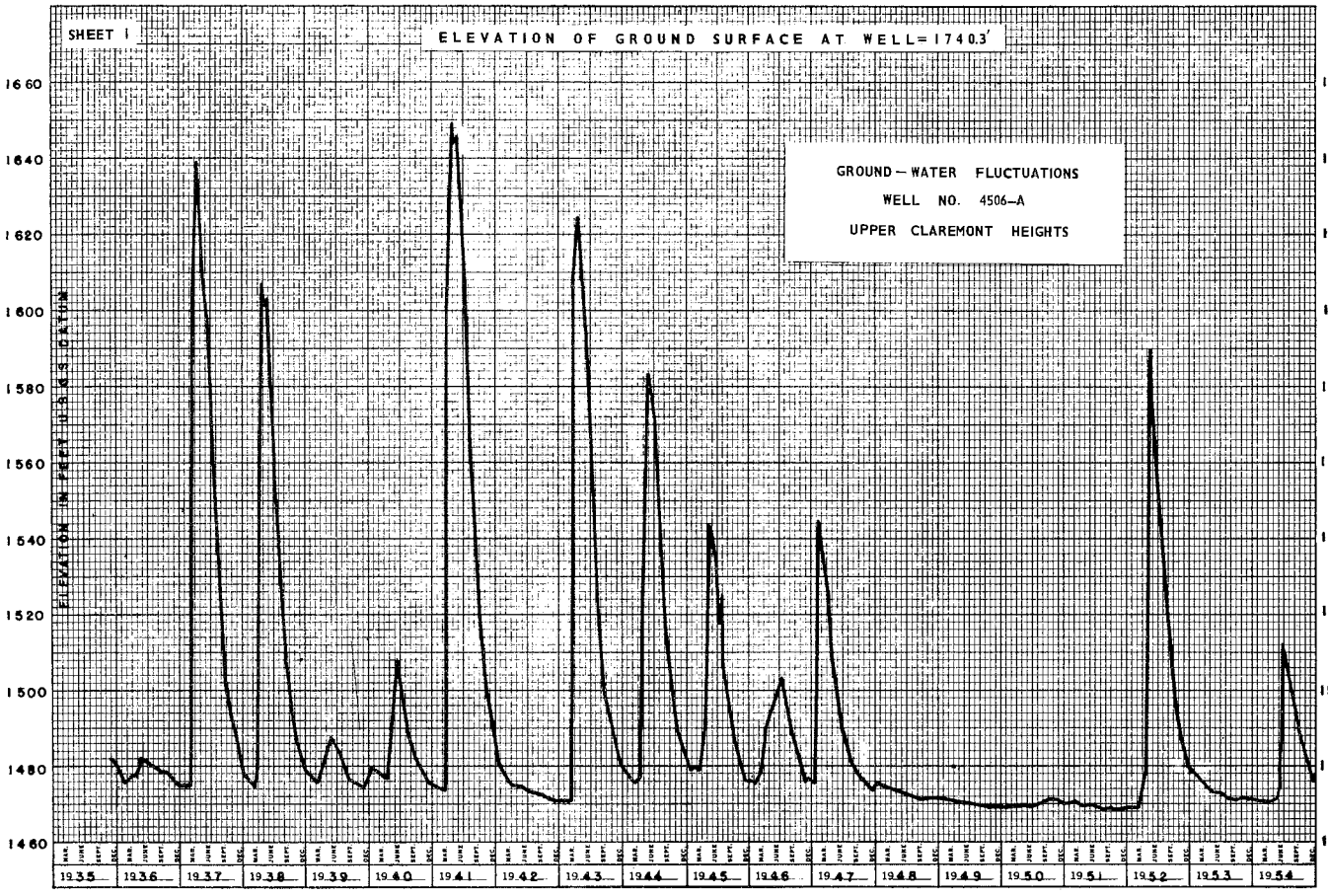

SHEET 3
ELEVATION OF GROUND SURFACE AT WELL 3030F = 386.7
ELEVATION IN FEET, U.S.C.& G.S. DATUM
3030F
GROUND – WATER FLUCTUATIONS
WELL NOS. 3030 & 3030F
BALDWIN PARK
MAIN SAN GABRIEL BASIN
330
320
310
300
290
280
270
260
250
240
230
220
1943
1944
1945
1946
1947
1948
1949
1950
1951
1952
1953
1954
1955
1956
1957
1958
1959
1960
1961
1962

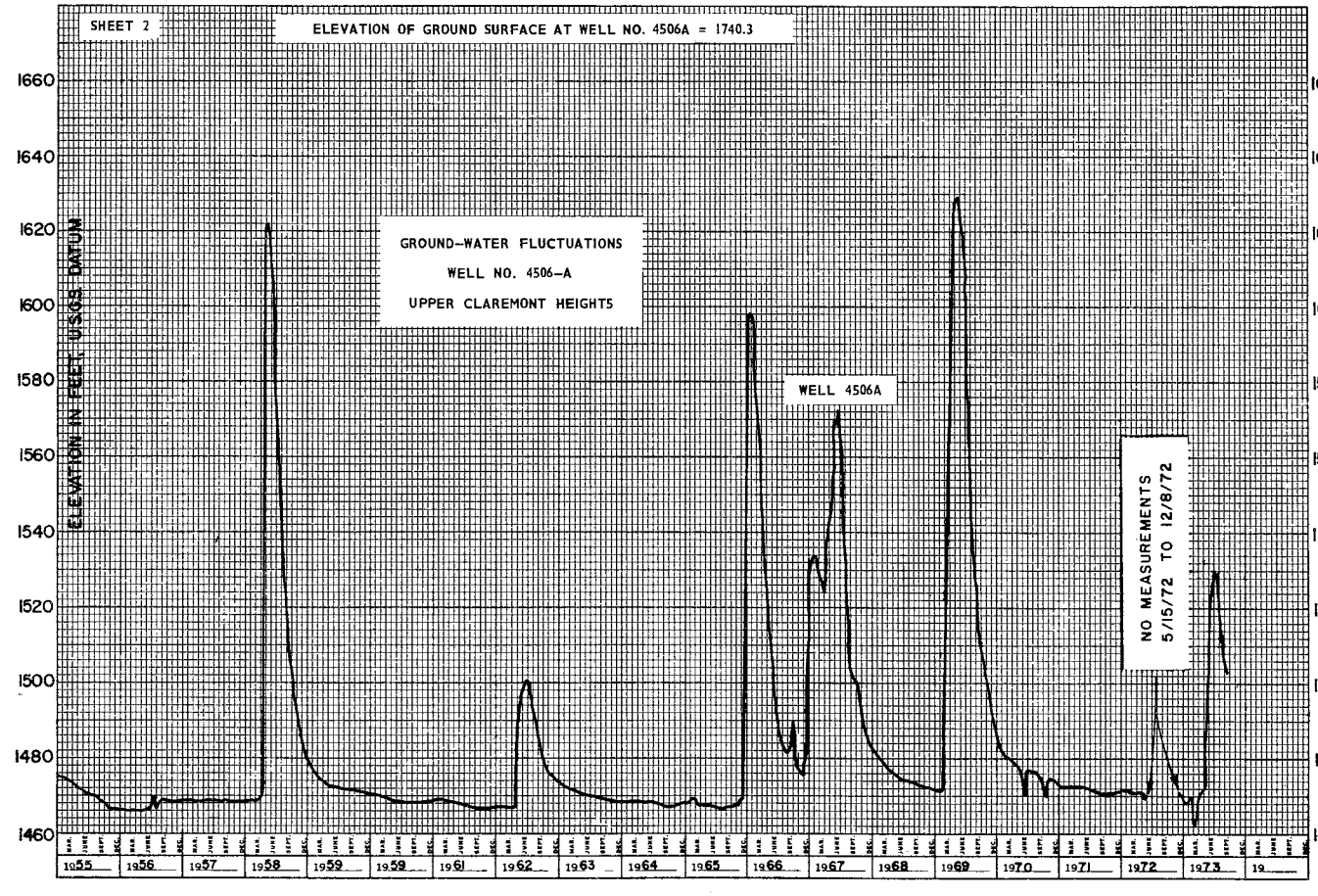

SHEET 4
ELEVATION OF GROUND SURFACE AT WELL 3030F= 386.7'
GROUND - WATER FLUCTUATIONS
WELL NOS. 3030 & 3030F
BALDWIN PARK
MAIN SAN GABRIEL BASIN
ELEVATION IN FEET, USGS DATUM
3030-F
310
300
290
280
270
260
250
240
230
220
210
200
1963
1964
1965
1966
1967
1968
1969
1970
1971
1972
1973

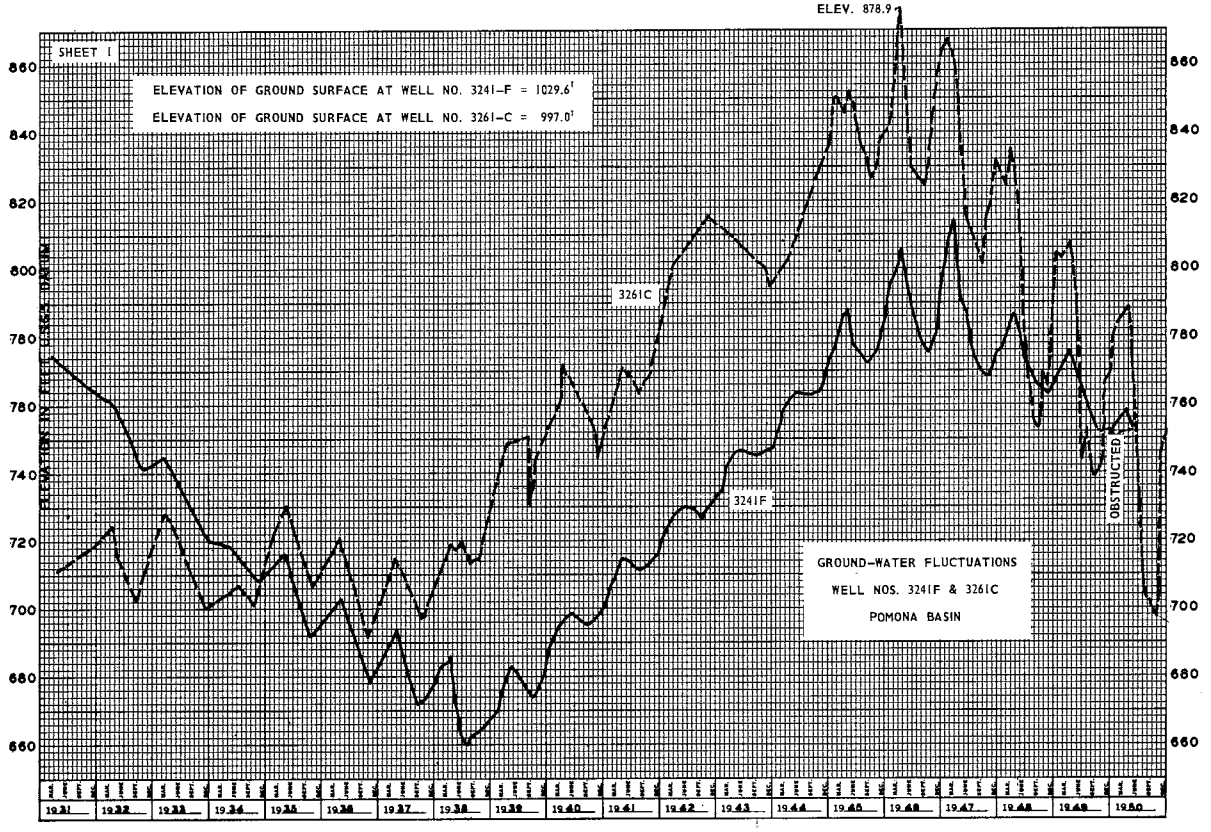

SHEET 1
ELEVATION OF GROUND SURFACE AT WELL NO. 0185-A
DRY
DRY
DRY
GROUND-WATER FLUCTUATIONS
WELL NO. 0185-A
NORTH OF AZUSA
SAN GABRIEL CANYON BASIN

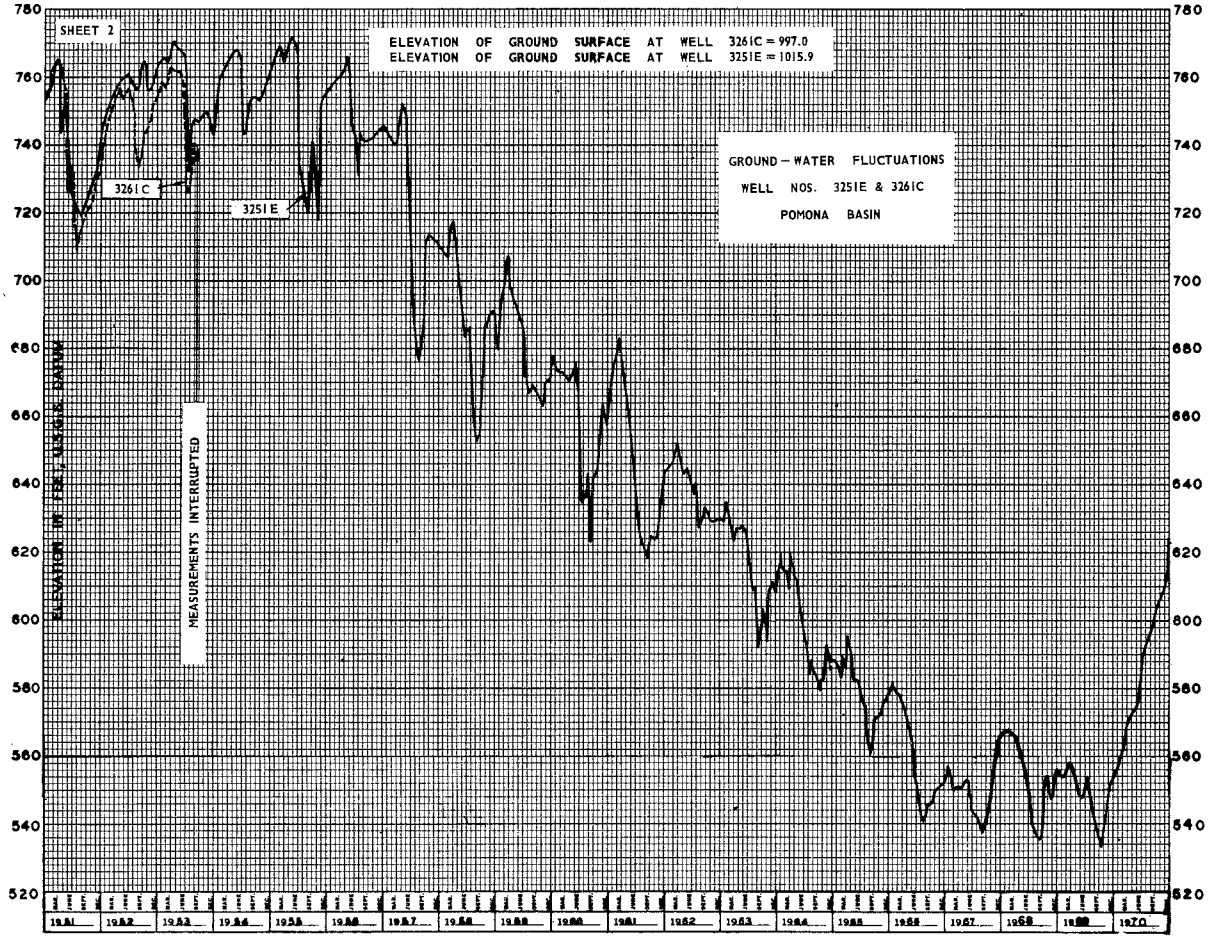

SHEET 2
ELEVATION OF GROUND SURFACE AT WELL 4284-A
ELEVATION OF GROUND SURFACE AT WELL 4285-A
4285-A
4284-A
4284-A
4285-A
DRY
WELL NO. 4285-A DRY
DRY
ELEVATION IN FEET, U.S.G.S. DATUM
GROUND-WATER FLUCTUATIONS
WELLS 4284-A & 4285-A
NORTH OF AZUSA
SAN GABRIEL CANYON BASIN
690 680 670 660 650 640 630 620 610 600 590 580 570 560 550 540 530 520 510
1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963

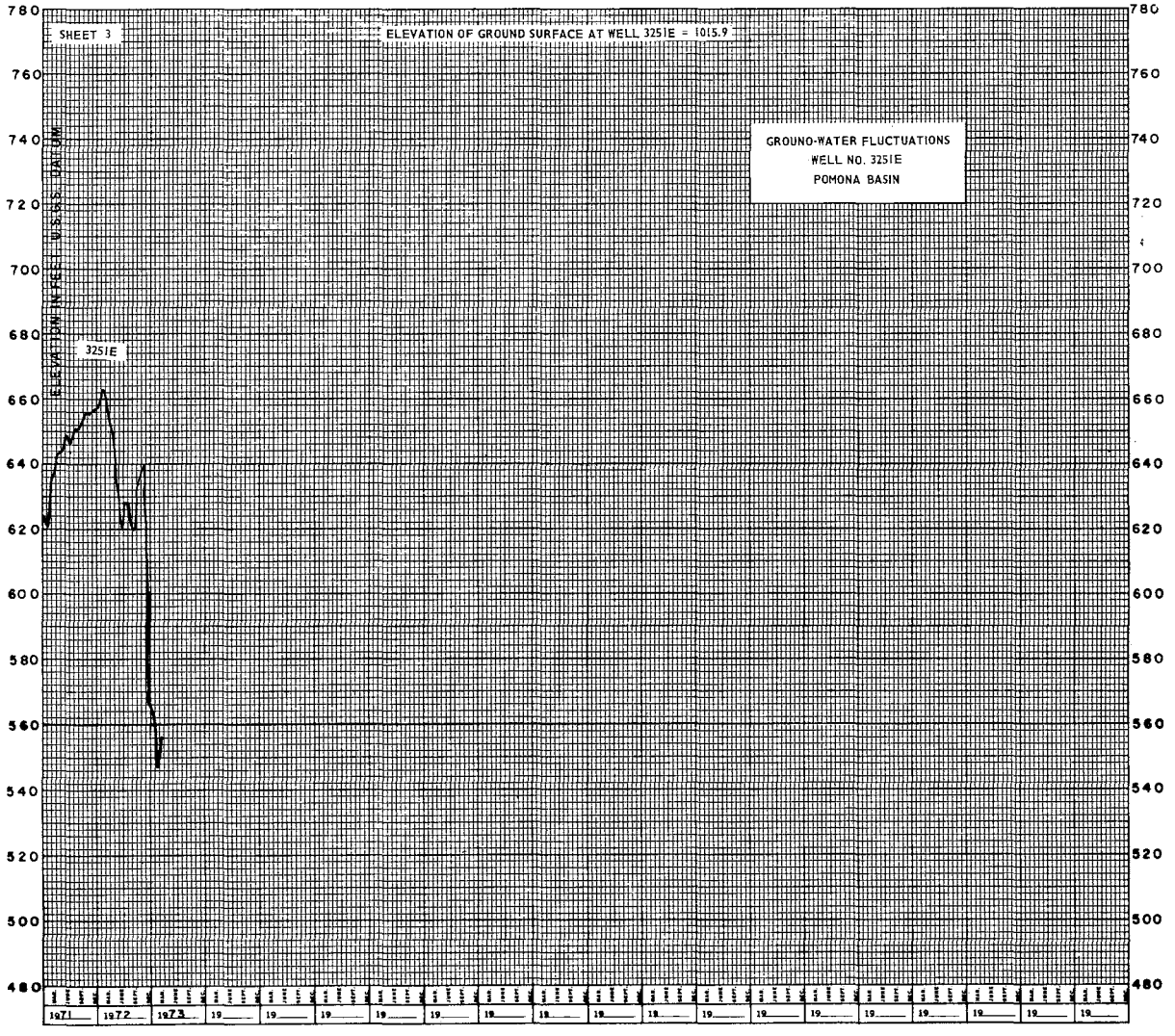

SHEET 3
ELEVATION OF GROUND SURFACE AT WELL 4284-A
ELEVATION OF GROUND SURFACE AT WELL 4285-A
4284-A
4285A
NO MEASUREMENTS
9/72 TO 2/73
ELEVATION IN FEET, U.S.G.S. DATUM
GROUND-WATER FLUCTUATIONS
WELLS 4284-A & 4285-A
NORTH OF AZUSA
SAN GABRIEL CANYON BASIN
690 680 670 660 650 640 630 620 610 600 590 580 570 560 550 540 530 520 510
1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 19 19 19 19 19 19 19 19 19 19

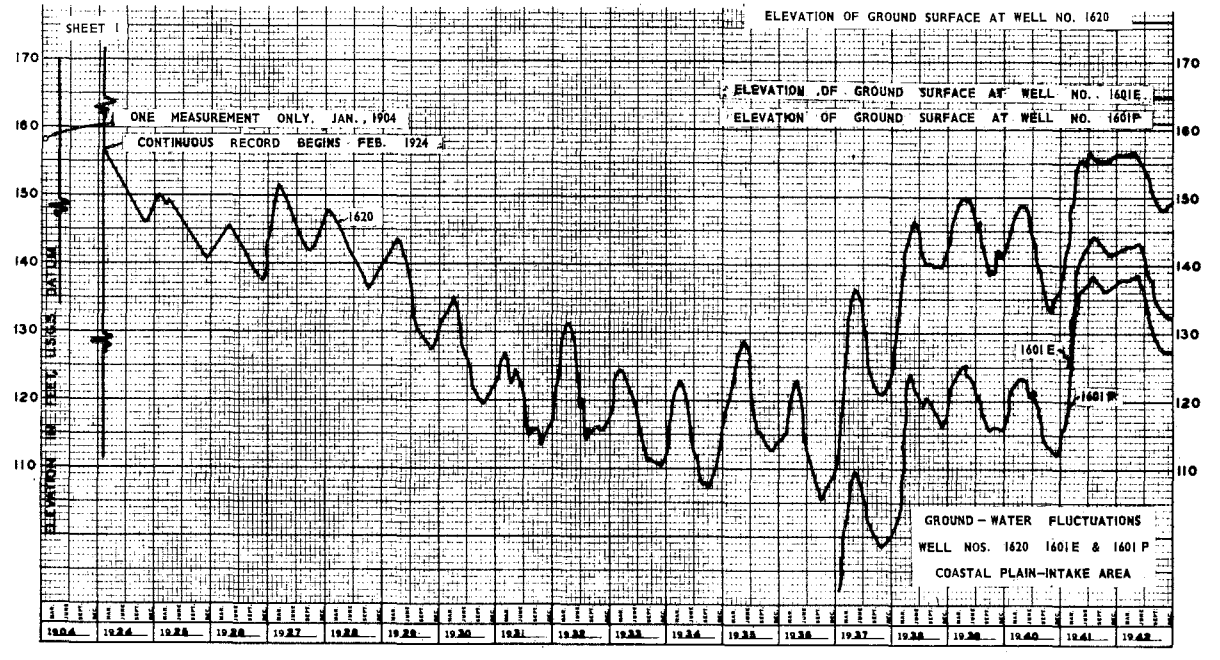

SHEET 1
ELEVATION OF GROUND SURFACE AT WELL = 1740.3'
GROUND – WATER FLUCTUATIONS
WELL NO. 4506–A
UPPER CLAREMONT HEIGHTS
ELEVATION IN FEET U.S.G.S. DATUM
1660
1640
1620
1600
1580
1560
1540
1520
1500
1480
1460
1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954

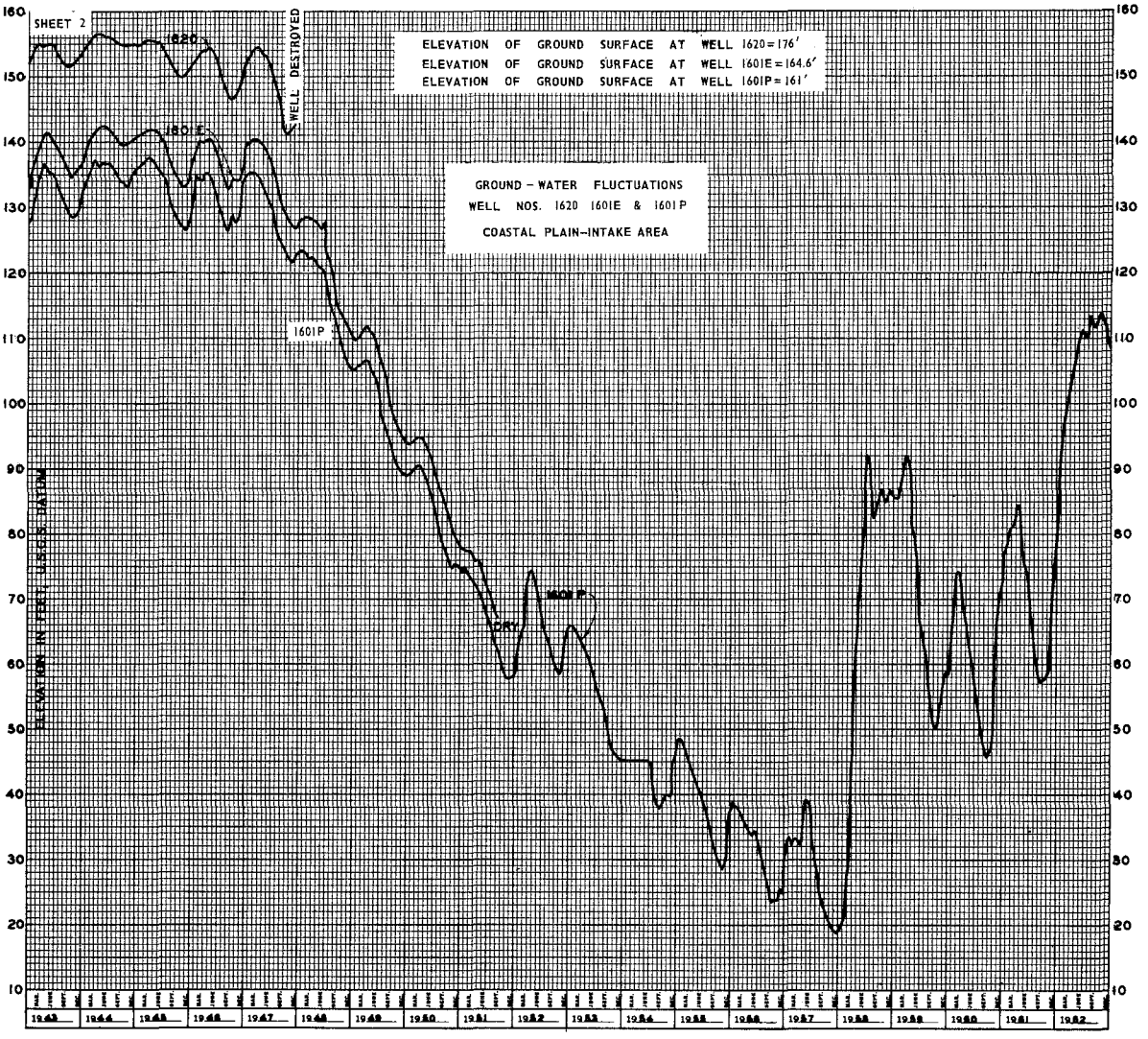

SHEET 2
ELEVATION OF GROUND SURFACE AT WELL NO. 4506A = 1740.3
GROUND–WATER FLUCTUATIONS
WELL NO. 4506–A
UPPER CLAREMONT HEIGHTS
WELL 4506A
NO MEASUREMENTS
5/15/72 TO 12/8/72
ELEVATION IN FEET, USGS DATUM
1660
1640
1620
1600
1580
1560
1540
1520
1500
1480
1460
1955 1956 1957 1958 1959 1959 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 19

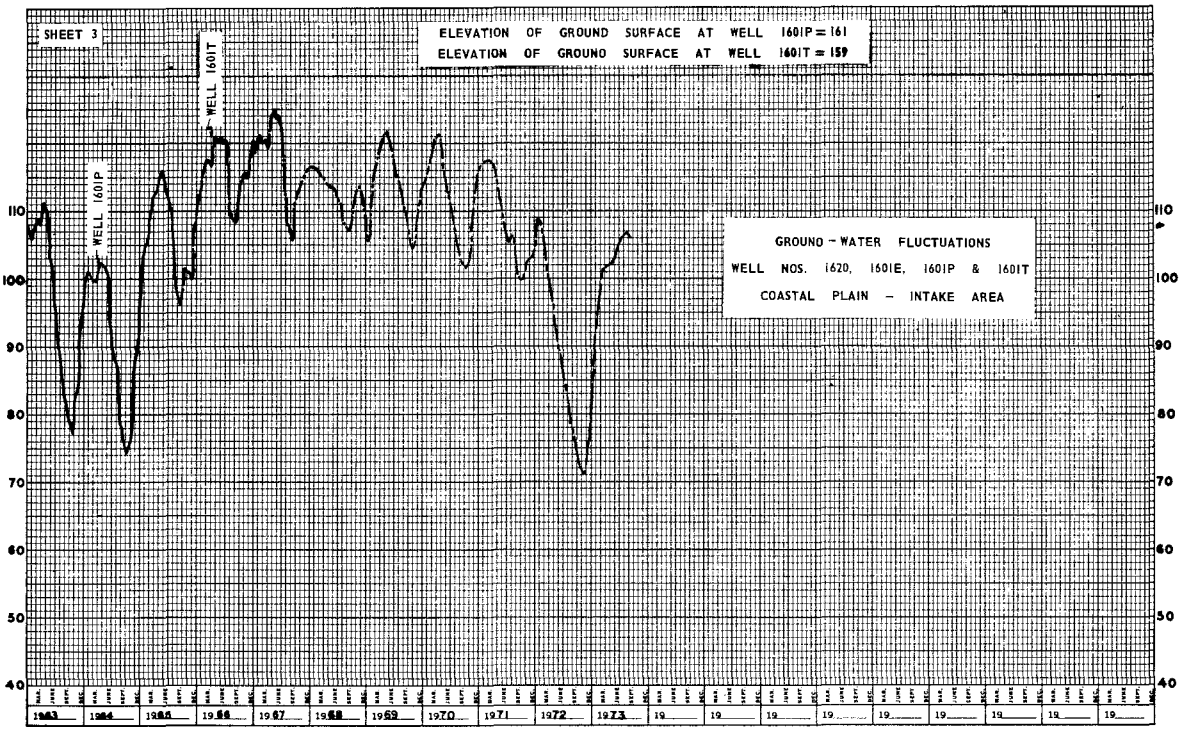

SHEET 1
ELEVATION OF GROUND SURFACE AT WELL NO. 3241-F = 1029.6'
ELEVATION OF GROUND SURFACE AT WELL NO. 3261-C = 997.0'
ELEV. 878.9
3261C
3241F
OBSTRUCTED
GROUND-WATER FLUCTUATIONS
WELL NOS. 3241F & 3261C
POMONA BASIN
860
840
820
800
780
760
740
720
700
680
660
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943
1944
1945
1946
1947
1948
1949
1950

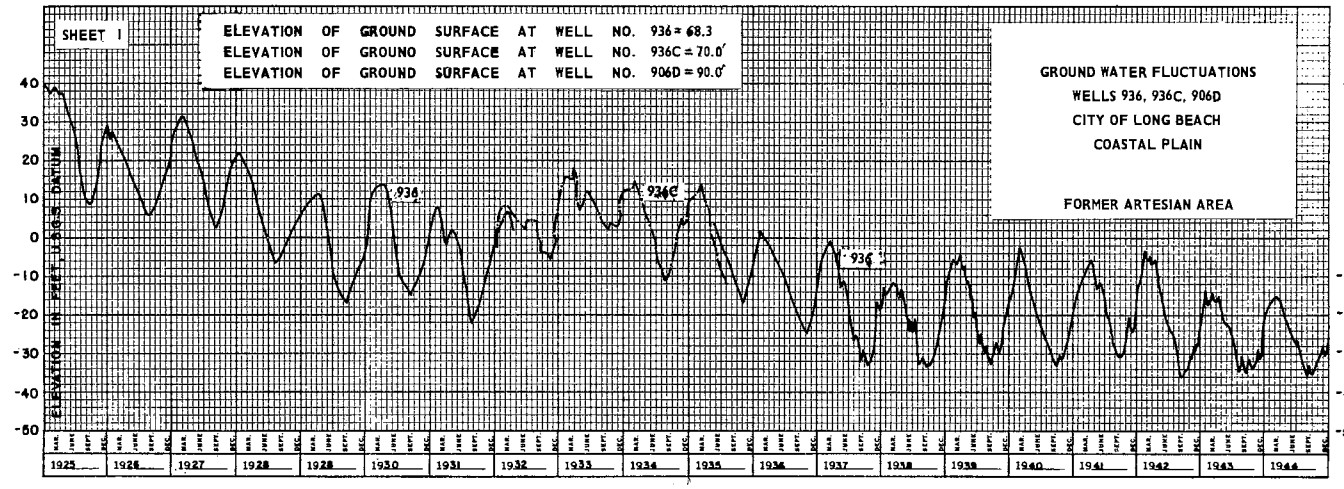

SHEET 2
ELEVATION OF GROUND SURFACE AT WELL 3261C = 997.0
ELEVATION OF GROUND SURFACE AT WELL 3251E = 1015.9
3261C
3251E
MEASUREMENTS INTERRUPTED
GROUND - WATER FLUCTUATIONS
WELL NOS. 3251E & 3261C
POMONA BASIN
780
760
740
720
700
680
660
640
620
600
580
560
540
520
1951
1952
1953
1954
1955
1956
1957
1958
1959
1960
1961
1962
1963
1964
1965
1966
1967
1968
1969
1970

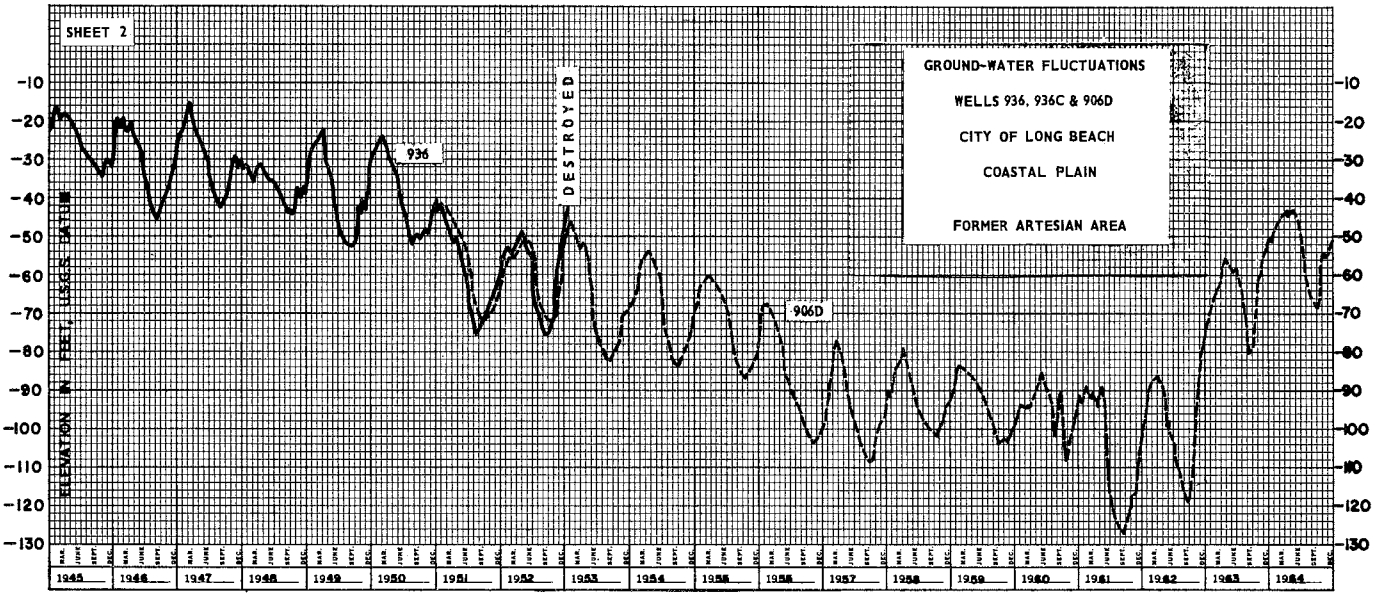

SHEET 3
ELEVATION OF GROUND SURFACE AT WELL 3251E = 1015.9
GROUND-WATER FLUCTUATIONS
WELL NO. 3251E
POMONA BASIN
ELEVATION IN FEET, U.S.G.S. DATUM
3251E
780
760
740
720
700
680
660
640
620
600
580
560
540
520
500
480
1971
1972
1973

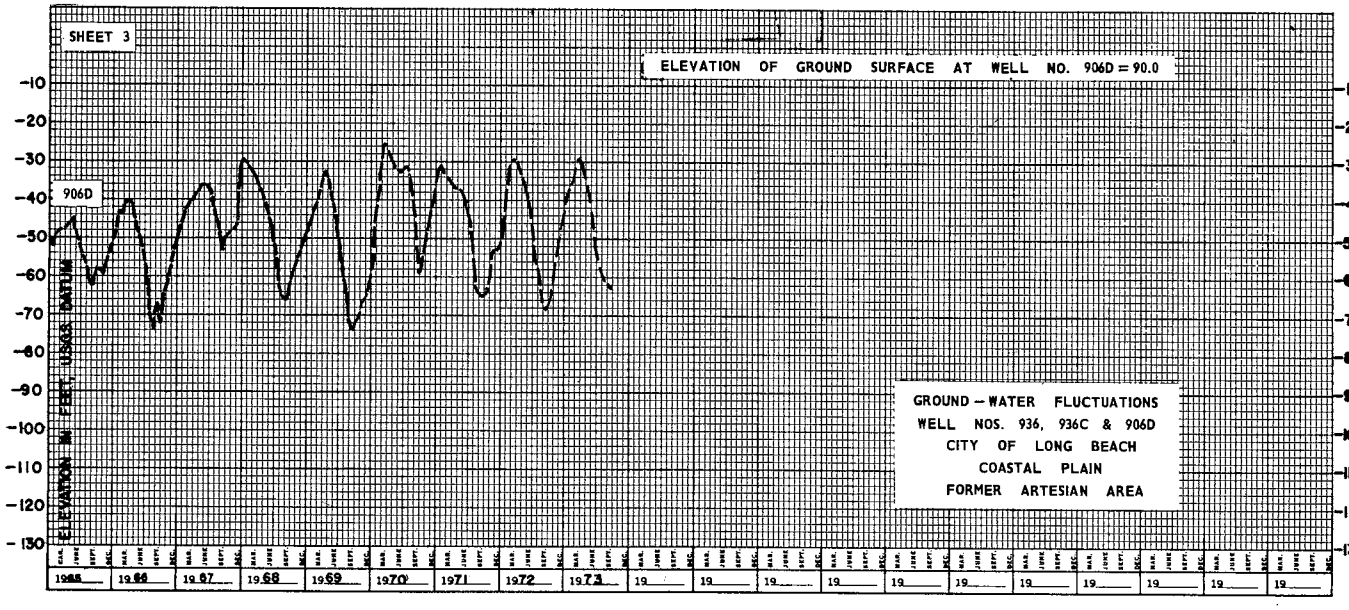

SHEET 1
ELEVATION OF GROUND SURFACE AT WELL NO. 1620
ELEVATION OF GROUND SURFACE AT WELL NO. 1601E
ELEVATION OF GROUND SURFACE AT WELL NO. 1601P
ONE MEASUREMENT ONLY, JAN., 1904
CONTINUOUS RECORD BEGINS FEB. 1924
1620
1601E
1601P
ELEVATION IN FEET, U.S.G.S. DATUM
GROUND-WATER FLUCTUATIONS
WELL NOS. 1620 1601E & 1601P
COASTAL PLAIN-INTAKE AREA
170
160
150
140
130
120
110
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942

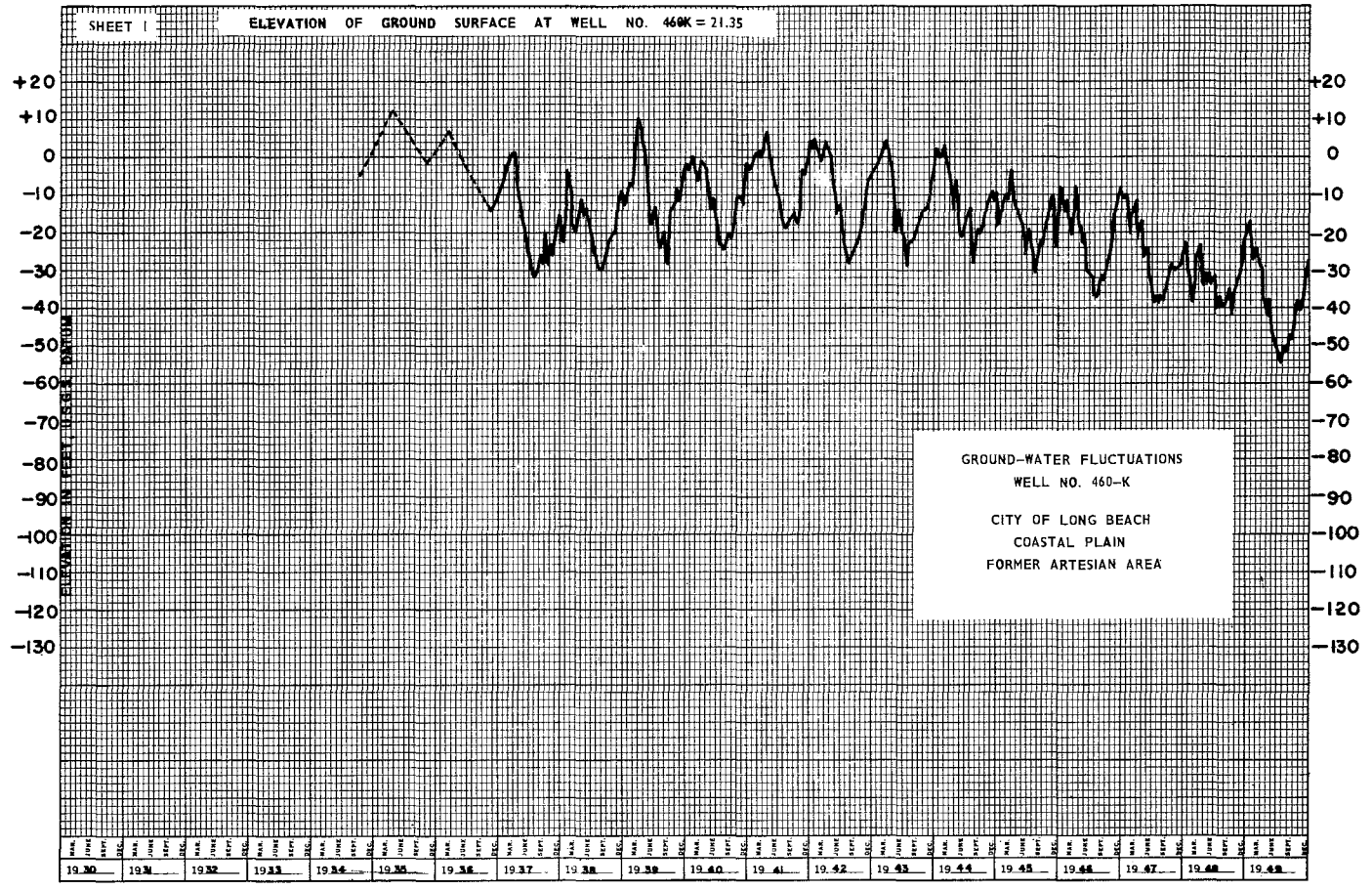

SHEET 2
ELEVATION OF GROUND SURFACE AT WELL 1620 = 176'
ELEVATION OF GROUND SURFACE AT WELL 1601E = 164.6'
ELEVATION OF GROUND SURFACE AT WELL 1601P = 161'
GROUND - WATER FLUCTUATIONS
WELL NOS. 1620 1601E & 1601P
COASTAL PLAIN-INTAKE AREA
WELL DESTROYED
1620
1601E
1601P
ELEVATION IN FEET USGS DATUM
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
1943
1944
1945
1946
1947
1948
1949
1950
1951
1952
1953
1954
1955
1956
1957
1958
1959
1960
1961
1962

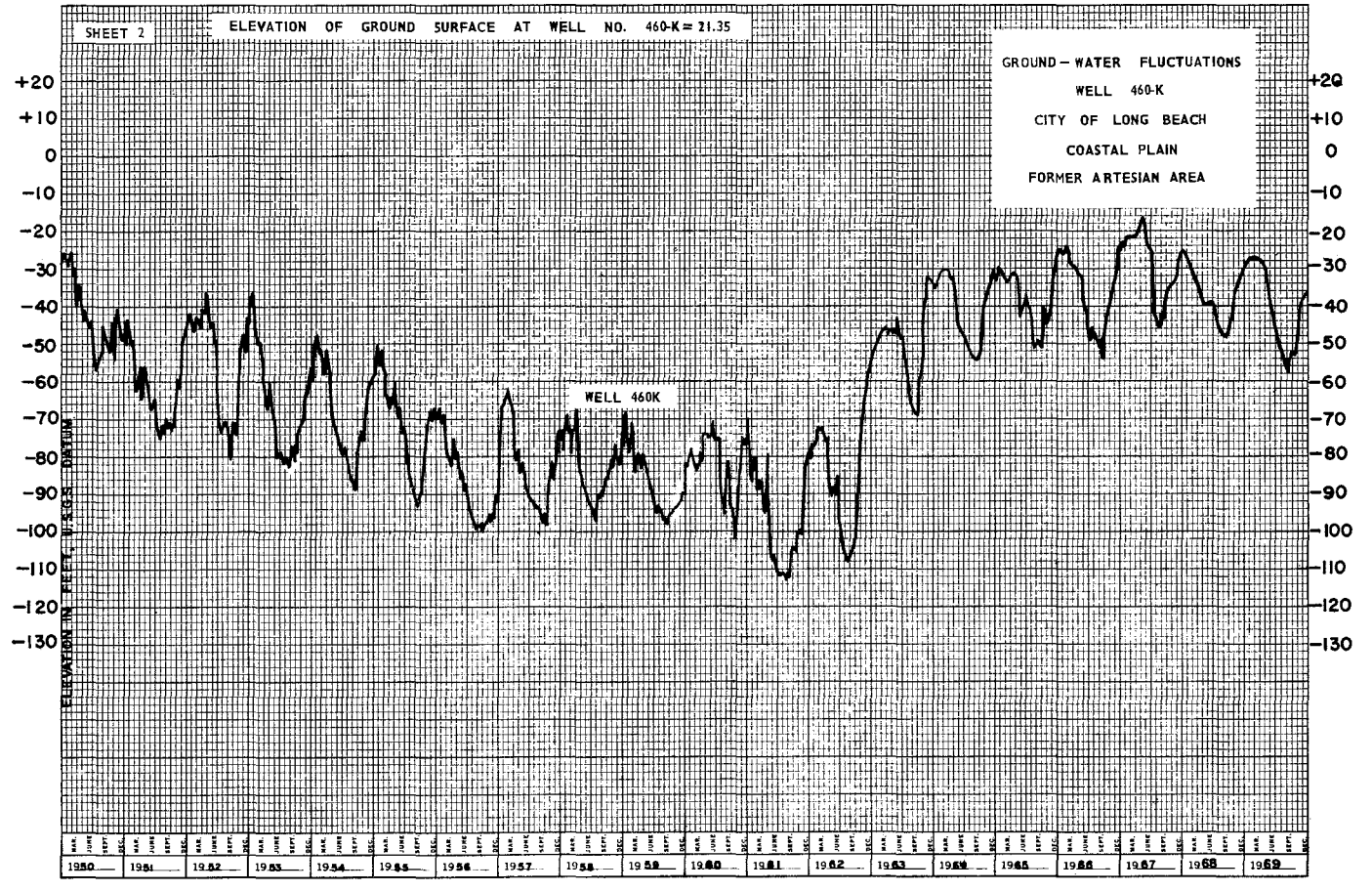

SHEET 3
ELEVATION OF GROUND SURFACE AT WELL 1601P = 161
ELEVATION OF GROUND SURFACE AT WELL 1601T = 159
GROUND - WATER FLUCTUATIONS
WELL NOS. 1620, 1601E, 1601P & 1601T
COASTAL PLAIN - INTAKE AREA
WELL 1601T
WELL 1601P
110
100
90
80
70
60
50
40
1963
1964
1965
1966
1967
1968
1969
1970
1971
1972
1973
19
19
19
19
19
19
19
19
19

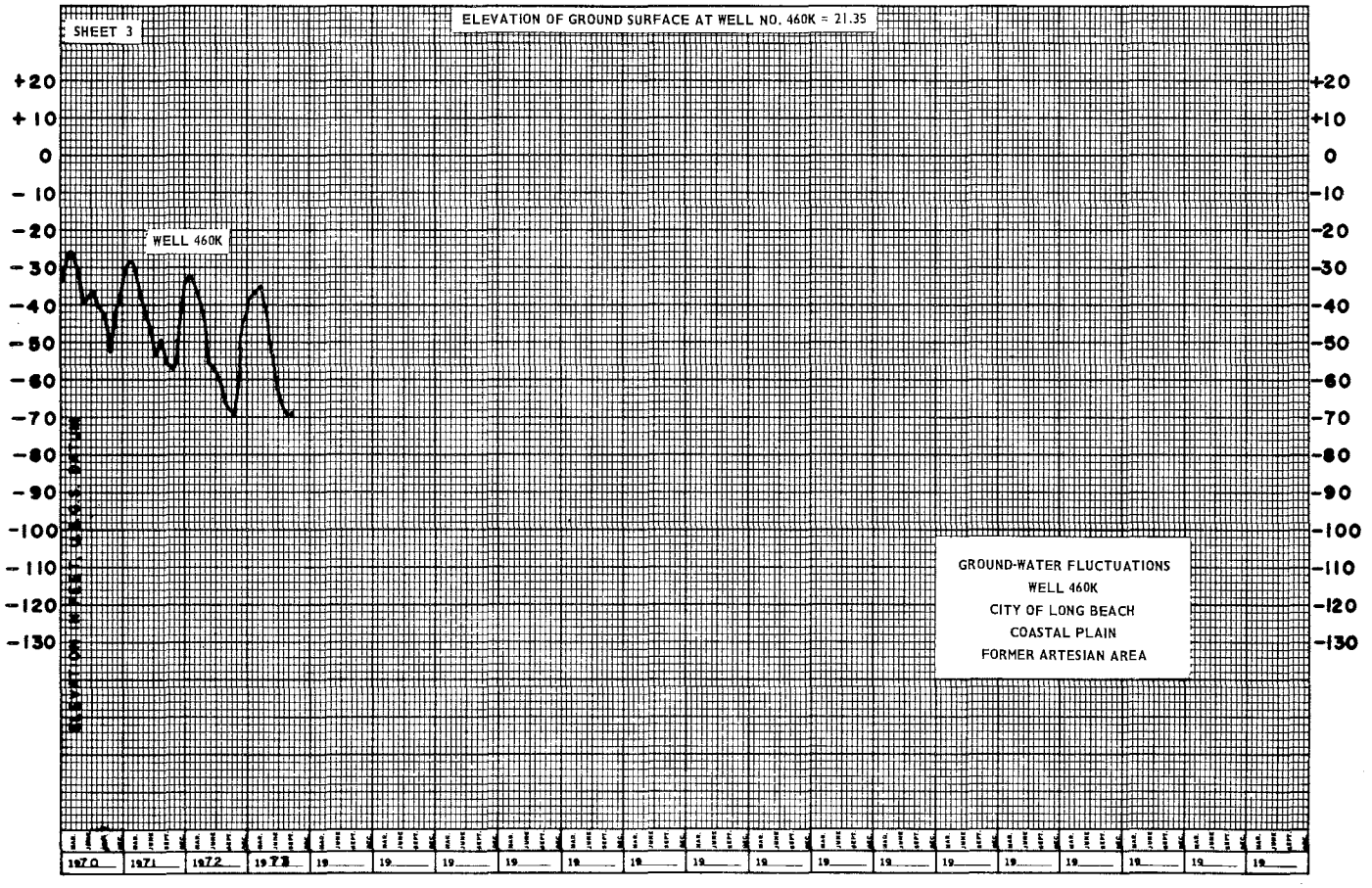

SHEET 1
ELEVATION OF GROUND SURFACE AT WELL NO. 936 = 68.3
ELEVATION OF GROUND SURFACE AT WELL NO. 936C = 70.0'
ELEVATION OF GROUND SURFACE AT WELL NO. 906D = 90.0'
GROUND WATER FLUCTUATIONS
WELLS 936, 936C, 906D
CITY OF LONG BEACH
COASTAL PLAIN
FORMER ARTESIAN AREA
ELEVATION IN FEET, USGS DATUM
936
936C
936
40 30 20 10 0 -10 -20 -30 -40 -50
1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944

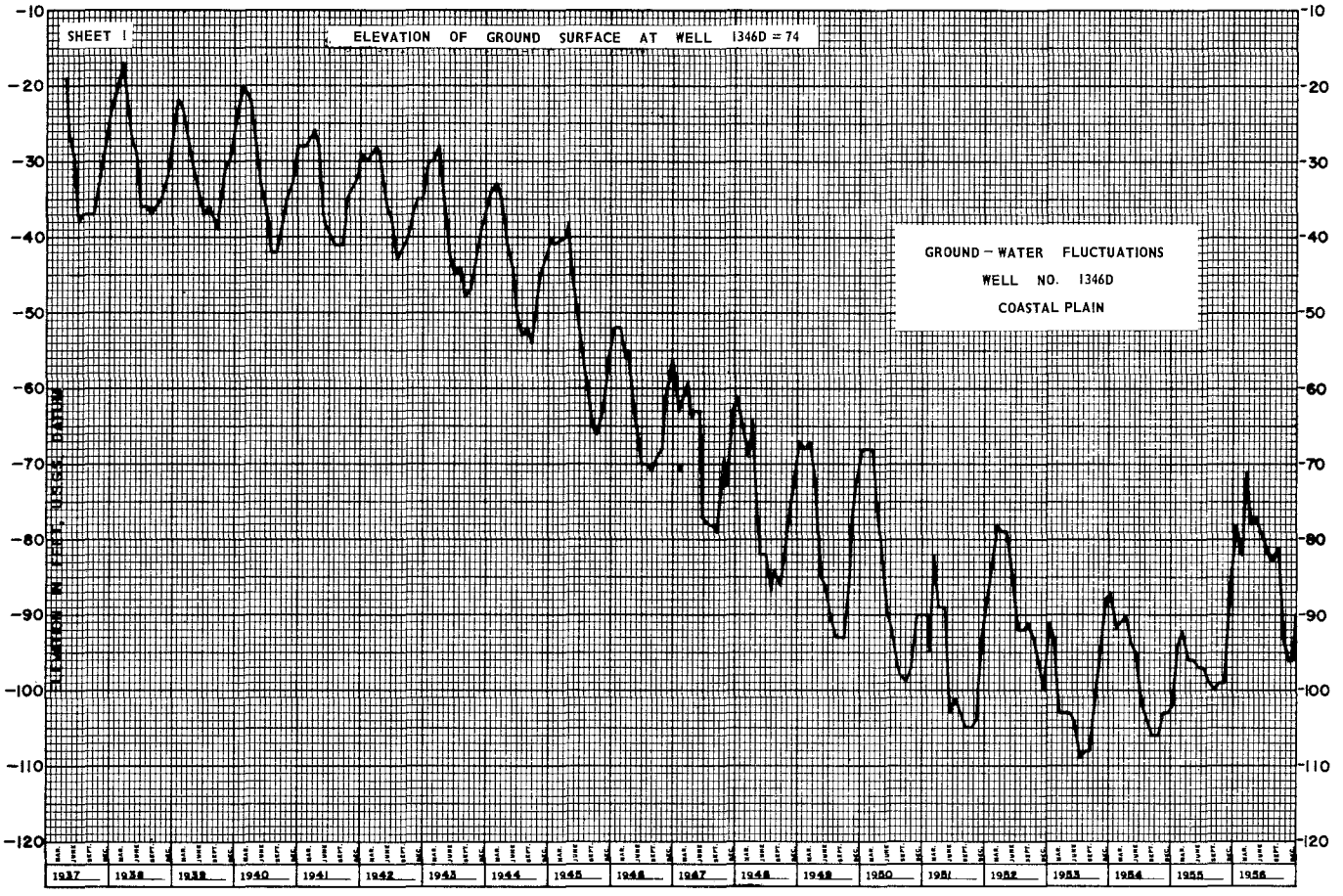

SHEET 2
GROUND-WATER FLUCTUATIONS
WELLS 936, 936C & 906D
CITY OF LONG BEACH
COASTAL PLAIN
FORMER ARTESIAN AREA
ELEVATION IN FEET, USGS DATUM
936
DESTROYED
906D
-10 -20 -30 -40 -50 -60 -70 -80 -90 -100 -110 -120 -130
1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964

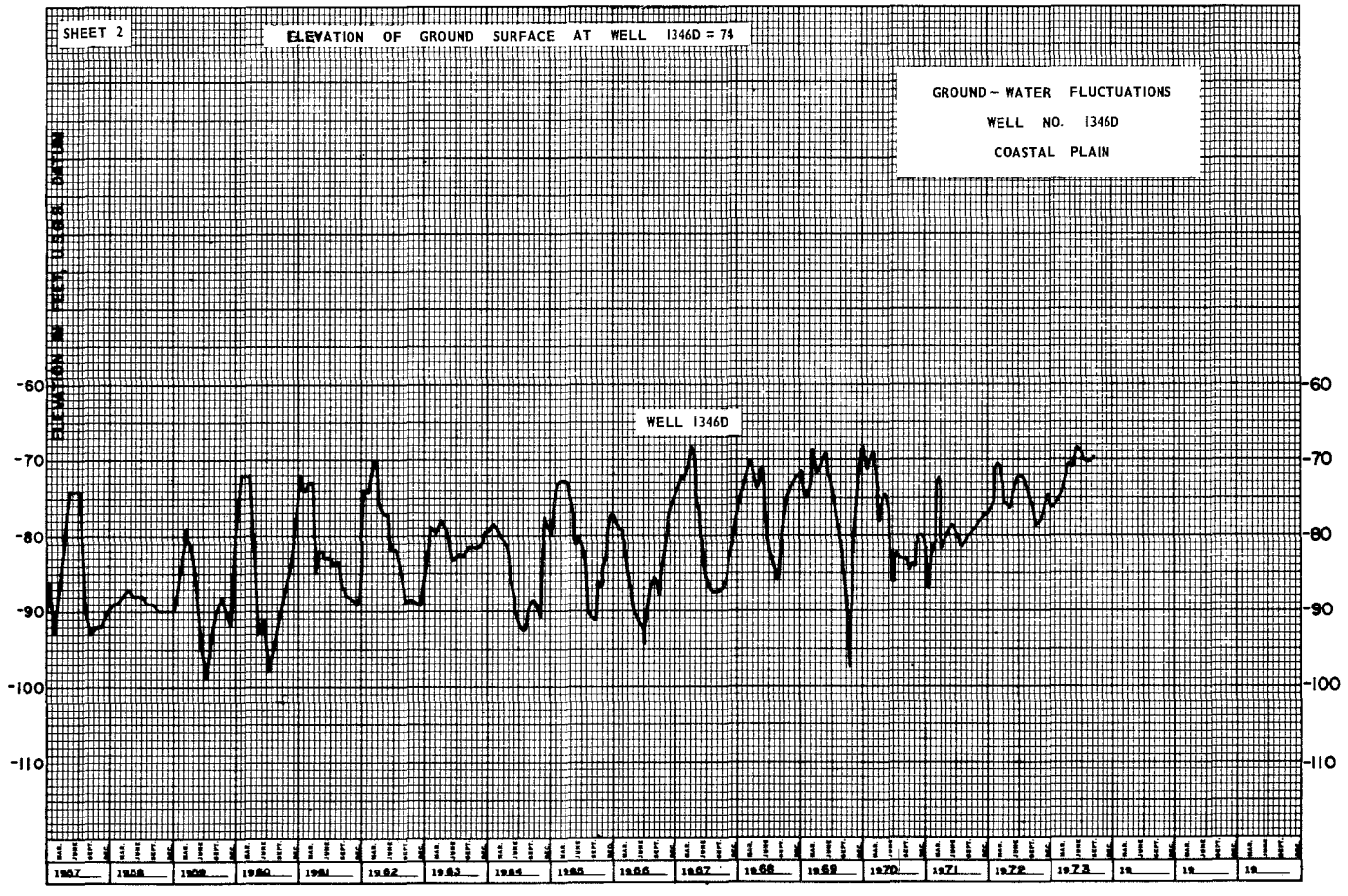

SHEET 3
ELEVATION OF GROUND SURFACE AT WELL NO. 906D = 90.0
ELEVATION IN FEET, USGS DATUM
906D
GROUND-WATER FLUCTUATIONS
WELL NOS. 936, 936C & 906D
CITY OF LONG BEACH
COASTAL PLAIN
FORMER ARTESIAN AREA
-10 -20 -30 -40 -50 -60 -70 -80 -90 -100 -110 -120 -130
1965 1966 1967 1968 1969 1970 1971 1972 1973 19 19 19 19 19 19 19 19 19 19

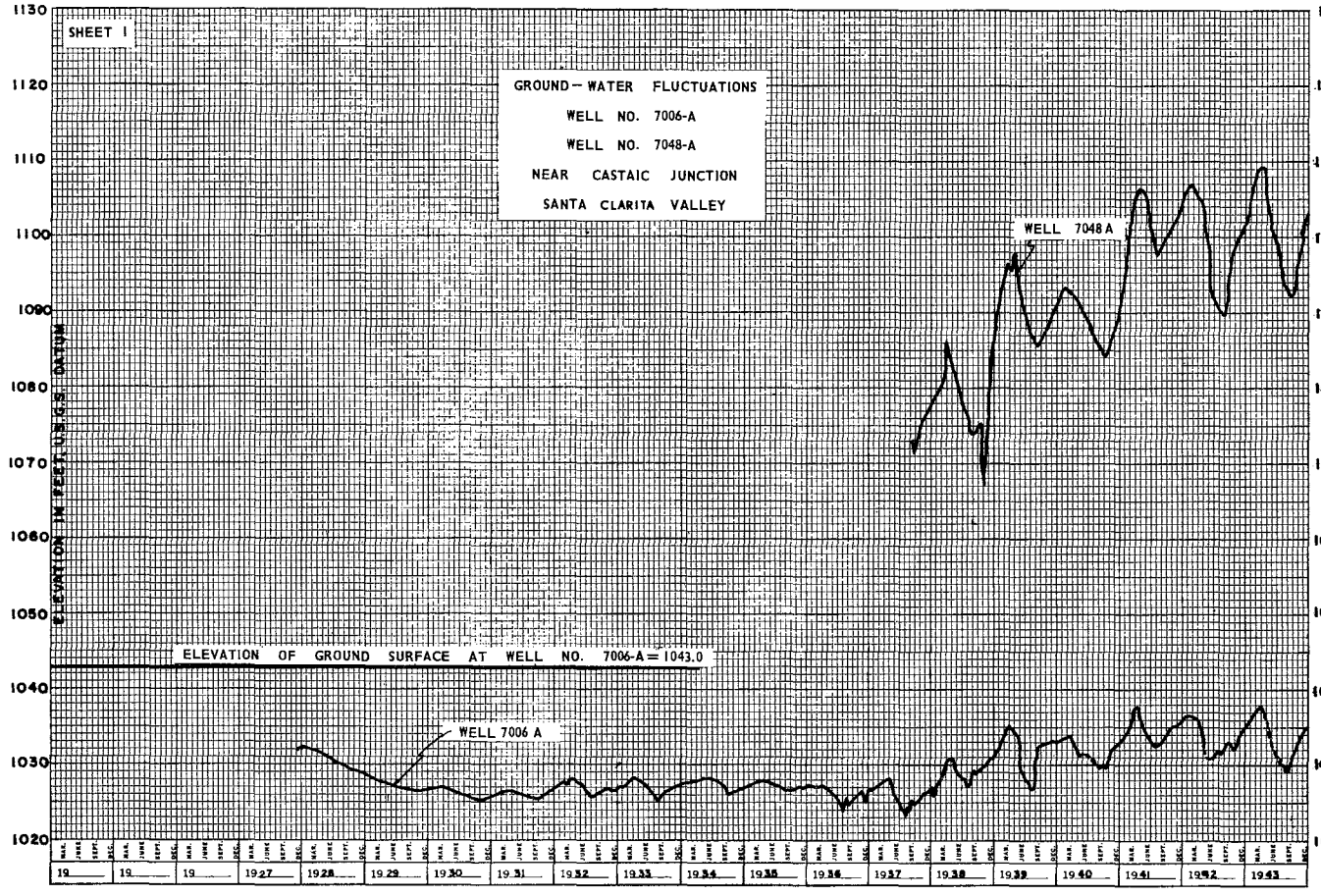

SHEET 1
ELEVATION OF GROUND SURFACE AT WELL NO. 460K = 21.35
+20
+10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
-110
-120
-130
ELEVATION IN FEET, USGS DATUM
GROUND-WATER FLUCTUATIONS
WELL NO. 460-K
CITY OF LONG BEACH
COASTAL PLAIN
FORMER ARTESIAN AREA
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943
1944
1945
1946
1947
1948
1949

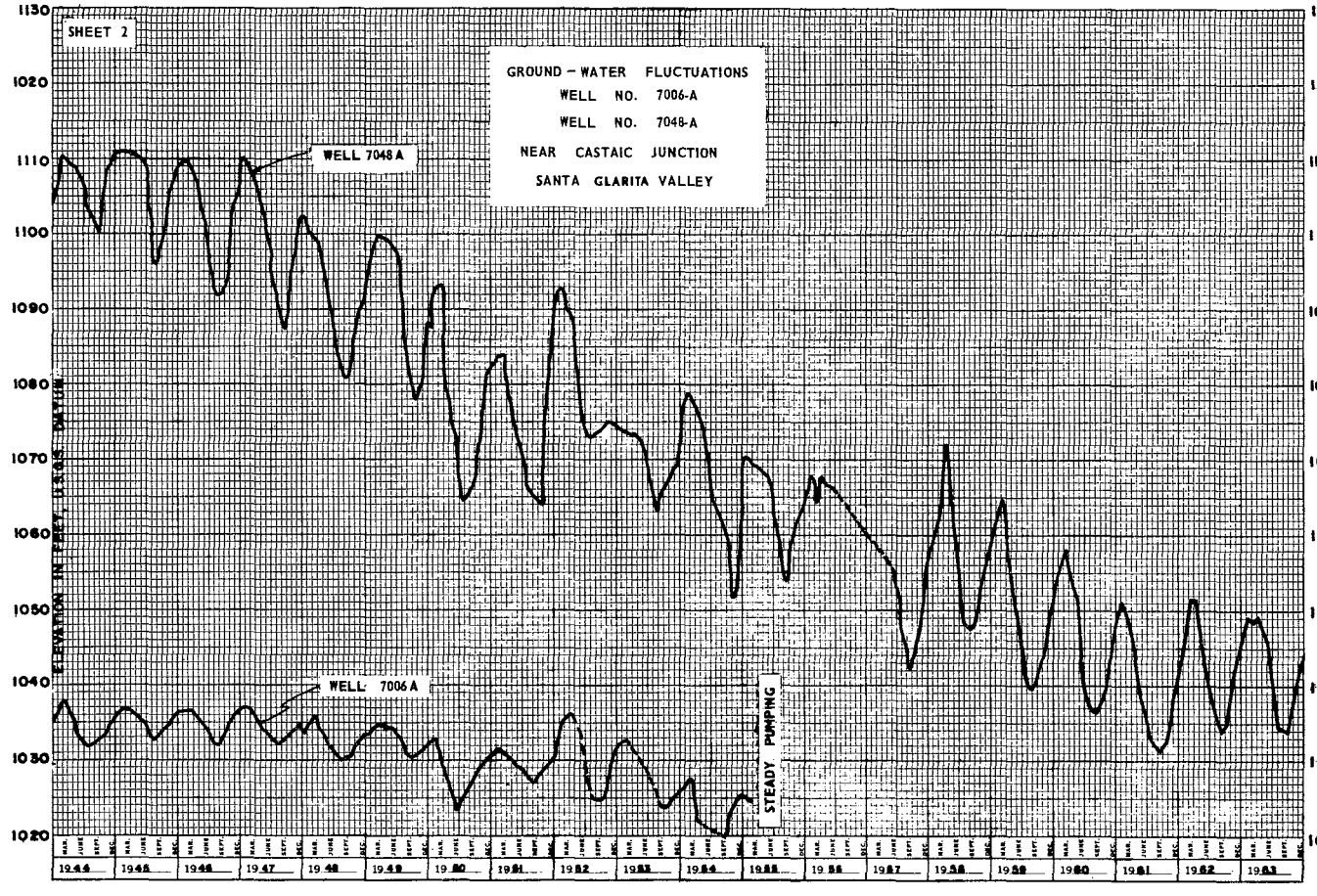

SHEET 2
ELEVATION OF GROUND SURFACE AT WELL NO. 460-K = 21.35
GROUND-WATER FLUCTUATIONS
WELL 460-K
CITY OF LONG BEACH
COASTAL PLAIN
FORMER ARTESIAN AREA
WELL 460K
+20
+10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
-110
-120
-130
ELEVATION IN FEET, USGS DATUM
1950
1951
1952
1953
1954
1955
1956
1957
1958
1959
1960
1961
1962
1963
1964
1965
1966
1967
1968
1969

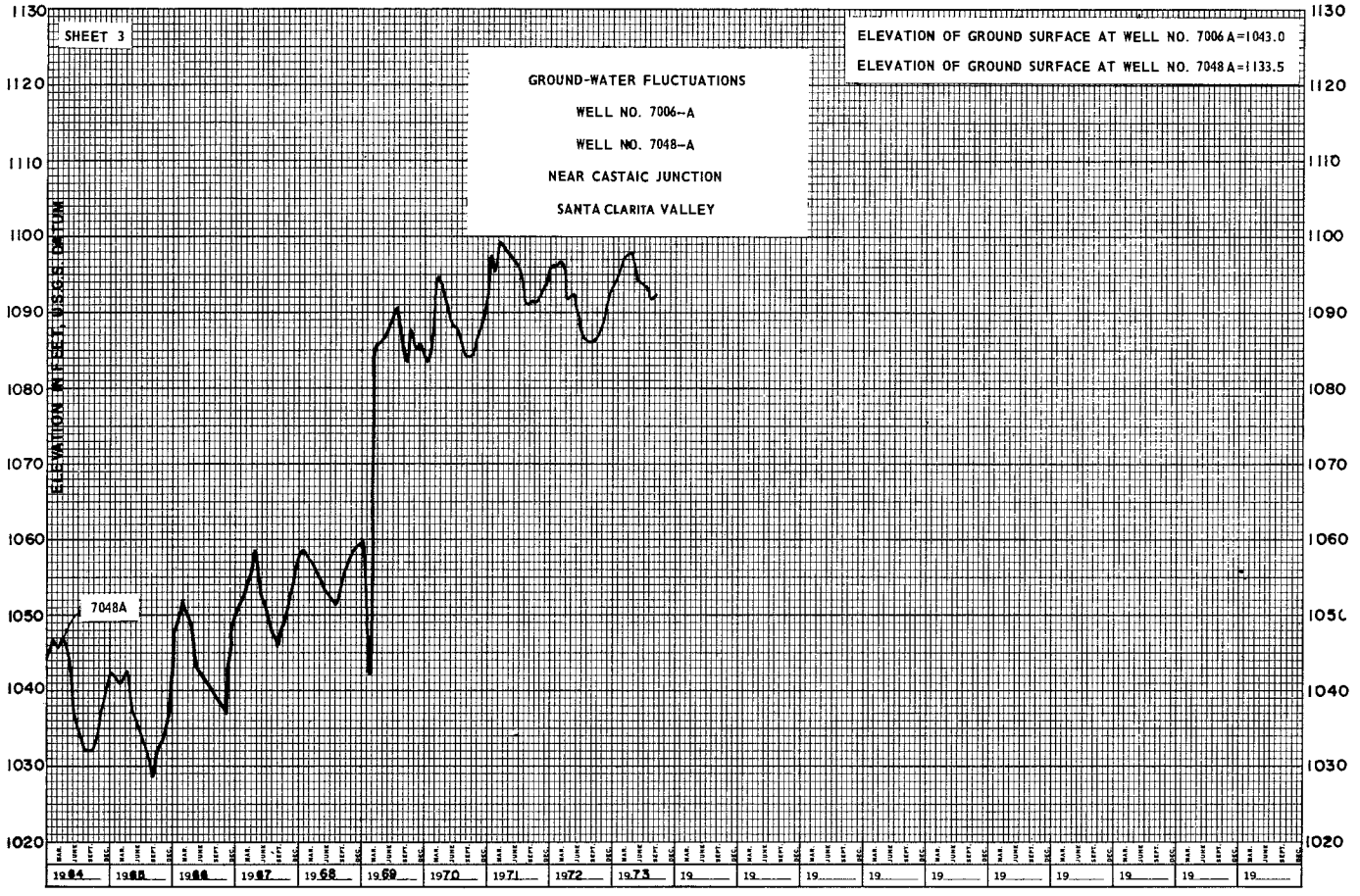

SHEET 3
ELEVATION OF GROUND SURFACE AT WELL NO. 460K = 21.35
WELL 460K
+20
+10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
-110
-120
-130
GROUND-WATER FLUCTUATIONS
WELL 460K
CITY OF LONG BEACH
COASTAL PLAIN
FORMER ARTESIAN AREA
1970
1971
1972
1973

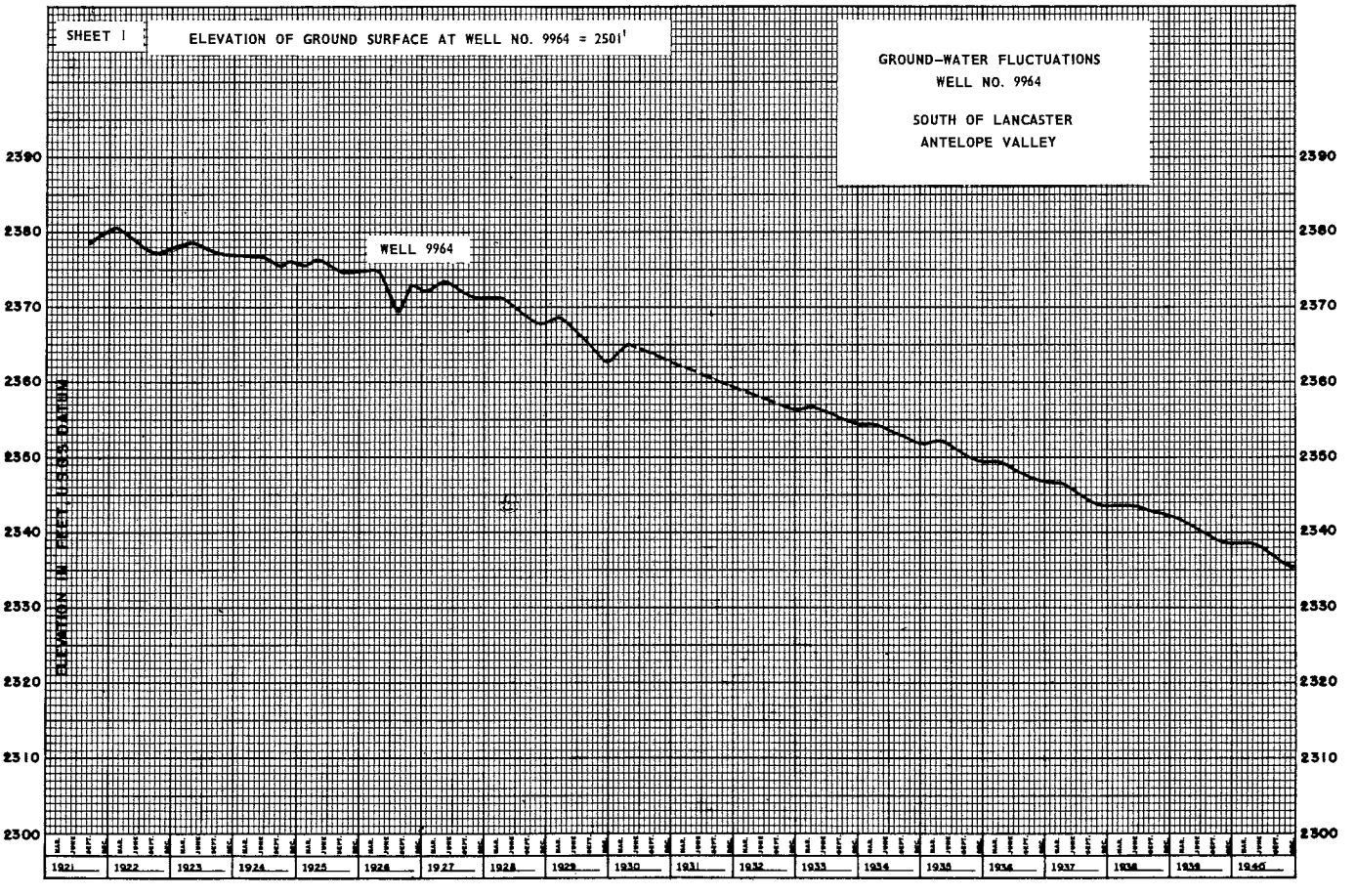

SHEET 1
ELEVATION OF GROUND SURFACE AT WELL 1346D = 74
GROUND-WATER FLUCTUATIONS
WELL NO. 1346D
COASTAL PLAIN
ELEVATION IN FEET, U.S.G.S. DATUM
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
-110
-120
1937
1938
1939
1940
1941
1942
1943
1944
1945
1946
1947
1948
1949
1950
1951
1952
1953
1954
1955
1956

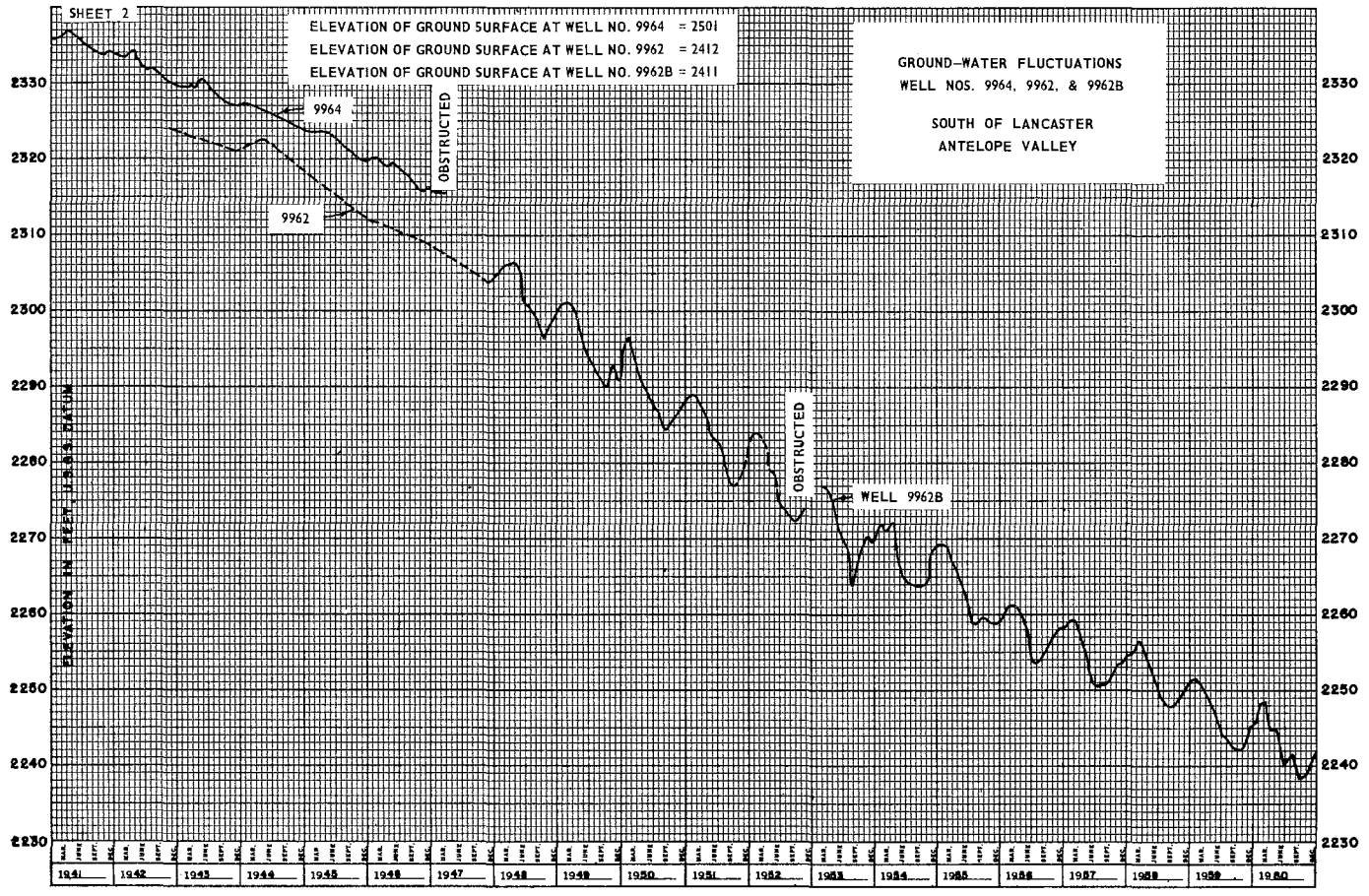

SHEET 2
ELEVATION OF GROUND SURFACE AT WELL 1346D = 74
GROUND-WATER FLUCTUATIONS
WELL NO. 1346D
COASTAL PLAIN
WELL 1346D
ELEVATION IN FEET, U.S.G.S. DATUM
-60
-70
-80
-90
-100
-110
1957
1958
1959
1960
1961
1962
1963
1964
1965
1966
1967
1968
1969
1970
1971
1972
1973

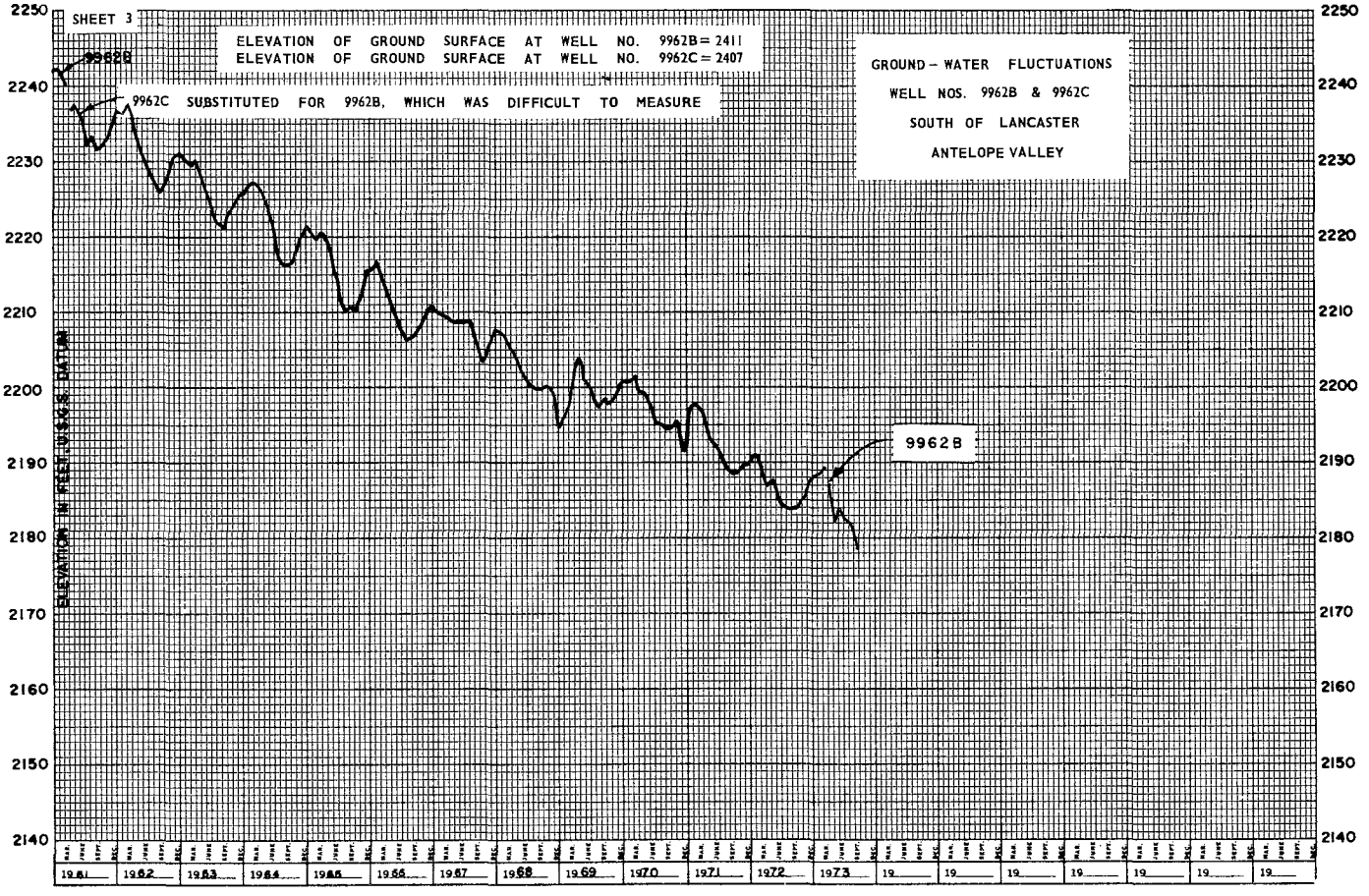

SHEET 1
GROUND – WATER FLUCTUATIONS
WELL NO. 7006-A
WELL NO. 7048-A
NEAR CASTAIC JUNCTION
SANTA CLARITA VALLEY
WELL 7048 A
ELEVATION OF GROUND SURFACE AT WELL NO. 7006-A = 1043.0
WELL 7006 A
ELEVATION IN FEET U.S.G.S. DATUM
1130
1120
1110
1100
1090
1080
1070
1060
1050
1040
1030
1020
MAR. JUNE SEPT. DEC.
19 19 19 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943

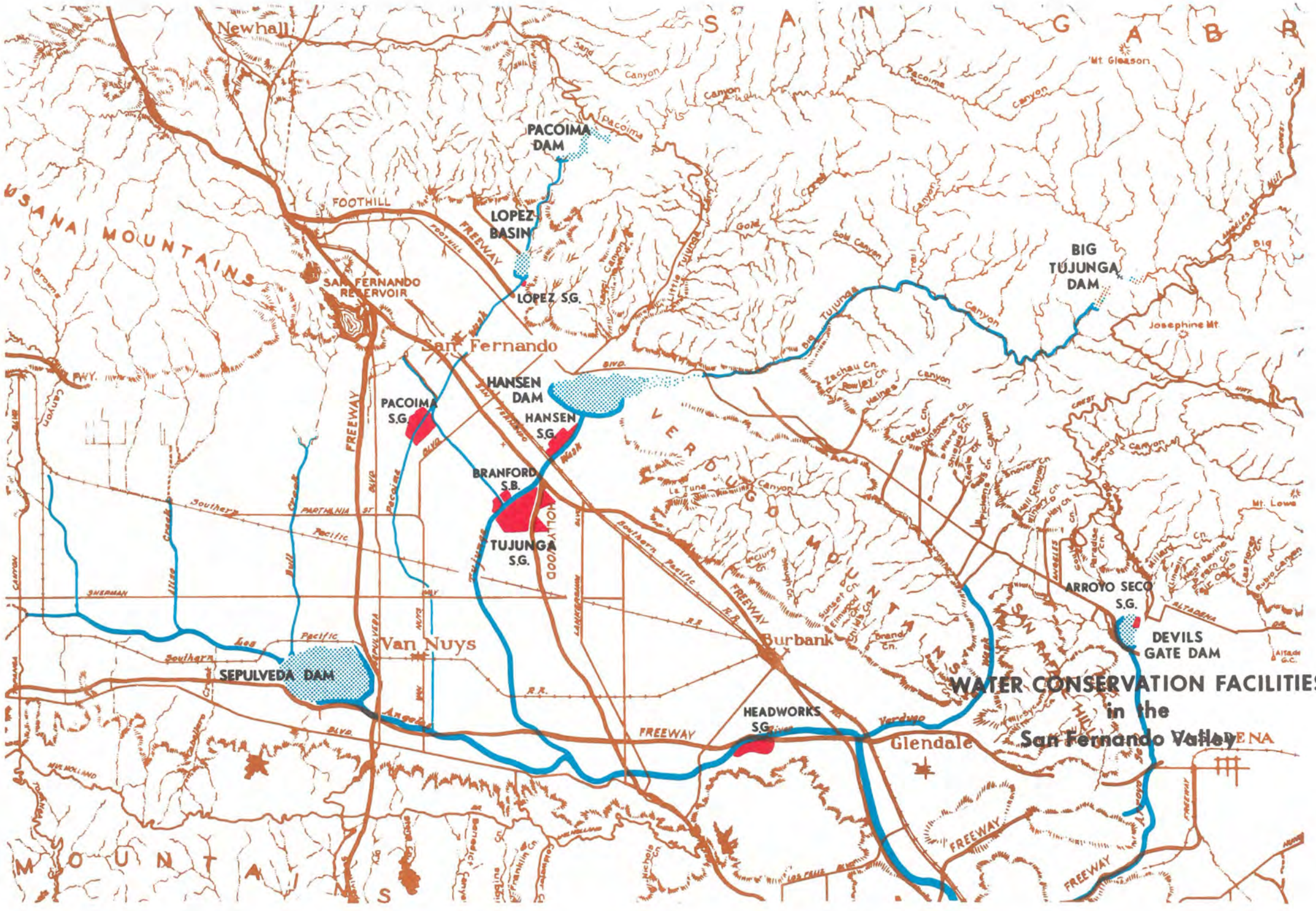

SHEET 2
GROUND – WATER FLUCTUATIONS
WELL NO. 7006-A
WELL NO. 7048-A
NEAR CASTAIC JUNCTION
SANTA CLARITA VALLEY
WELL 7048 A
WELL 7006 A
STEADY PUMPING
ELEVATION IN FEET U.S.G.S. DATUM
1130
1120
1110
1100
1090
1080
1070
1060
1050
1040
1030
1020
MAR. JUNE SEPT. DEC.
1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963


SHEET 3
ELEVATION OF GROUND SURFACE AT WELL NO. 7006 A=1043.0
ELEVATION OF GROUND SURFACE AT WELL NO. 7048 A=1133.5
GROUND-WATER FLUCTUATIONS
WELL NO. 7006--A
WELL NO. 7048--A
NEAR CASTAIC JUNCTION
SANTA CLARITA VALLEY
ELEVATION IN FEET, U.S.G.S. DATUM
7048A
1130
1120
1110
1100
1090
1080
1070
1060
1050
1040
1030
1020
1964
1965
1966
1967
1968
1969
1970
1971
1972
1973

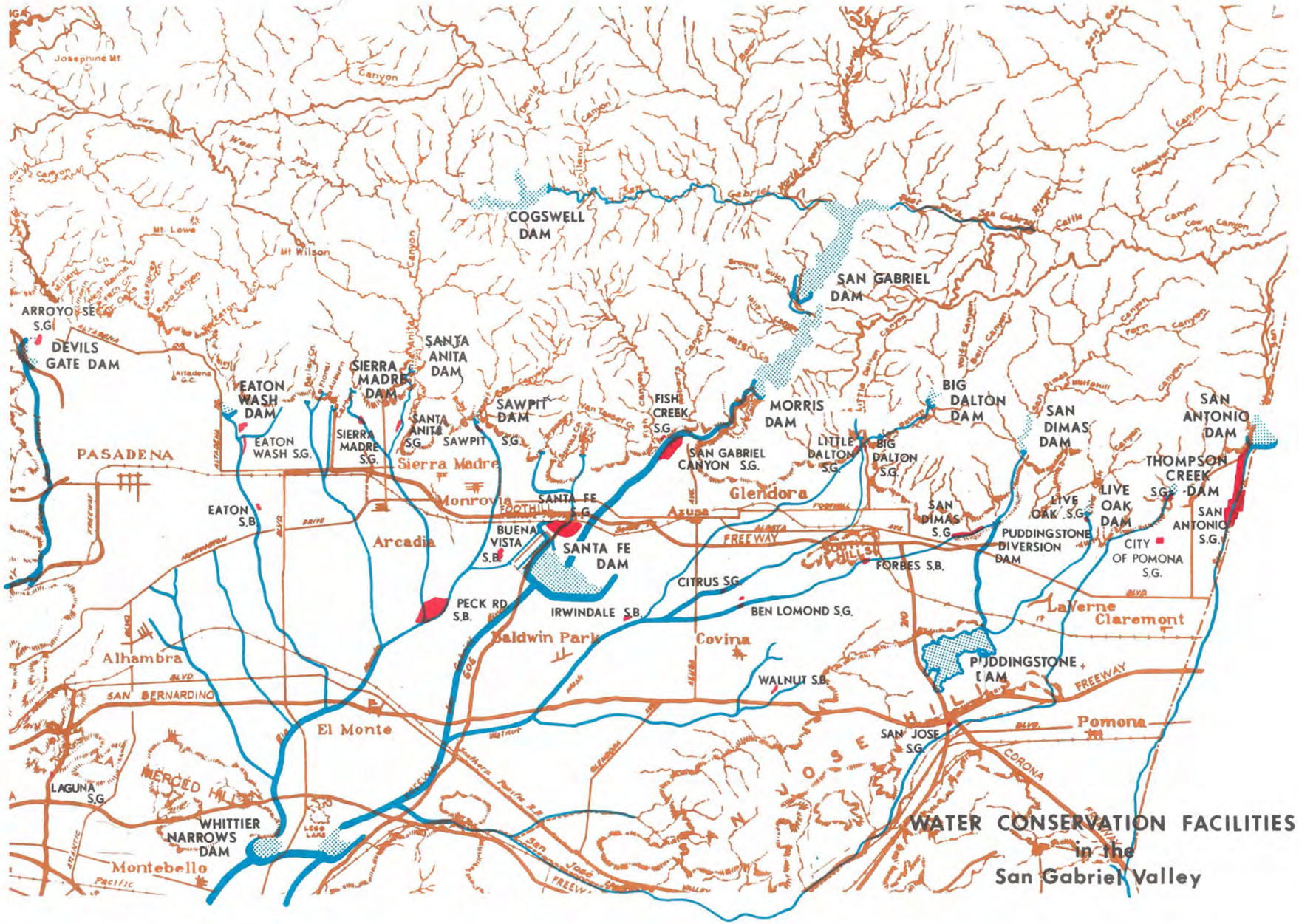

SHEET 1
ELEVATION OF GROUND SURFACE AT WELL NO. 9964 = 2501'
GROUND-WATER FLUCTUATIONS
WELL NO. 9964
SOUTH OF LANCASTER
ANTELOPE VALLEY
WELL 9964
ELEVATION IN FEET, U.S.G.S. DATUM
2390
2380
2370
2360
2350
2340
2330
2320
2310
2300
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940


SHEET 2
ELEVATION OF GROUND SURFACE AT WELL NO. 9964 = 2501
ELEVATION OF GROUND SURFACE AT WELL NO. 9962 = 2412
ELEVATION OF GROUND SURFACE AT WELL NO. 9962B = 2411
GROUND-WATER FLUCTUATIONS
WELL NOS. 9964, 9962, & 9962B
SOUTH OF LANCASTER
ANTELOPE VALLEY
9964
9962
OBSTRUCTED
OBSTRUCTED
WELL 9962B
ELEVATION IN FEET U.S.G.S. DATUM
2330
2320
2310
2300
2290
2280
2270
2260
2250
2240
2230
1941
1942
1943
1944
1945
1946
1947
1948
1949
1950
1951
1952
1953
1954
1955
1956
1957
1958
1959
1960

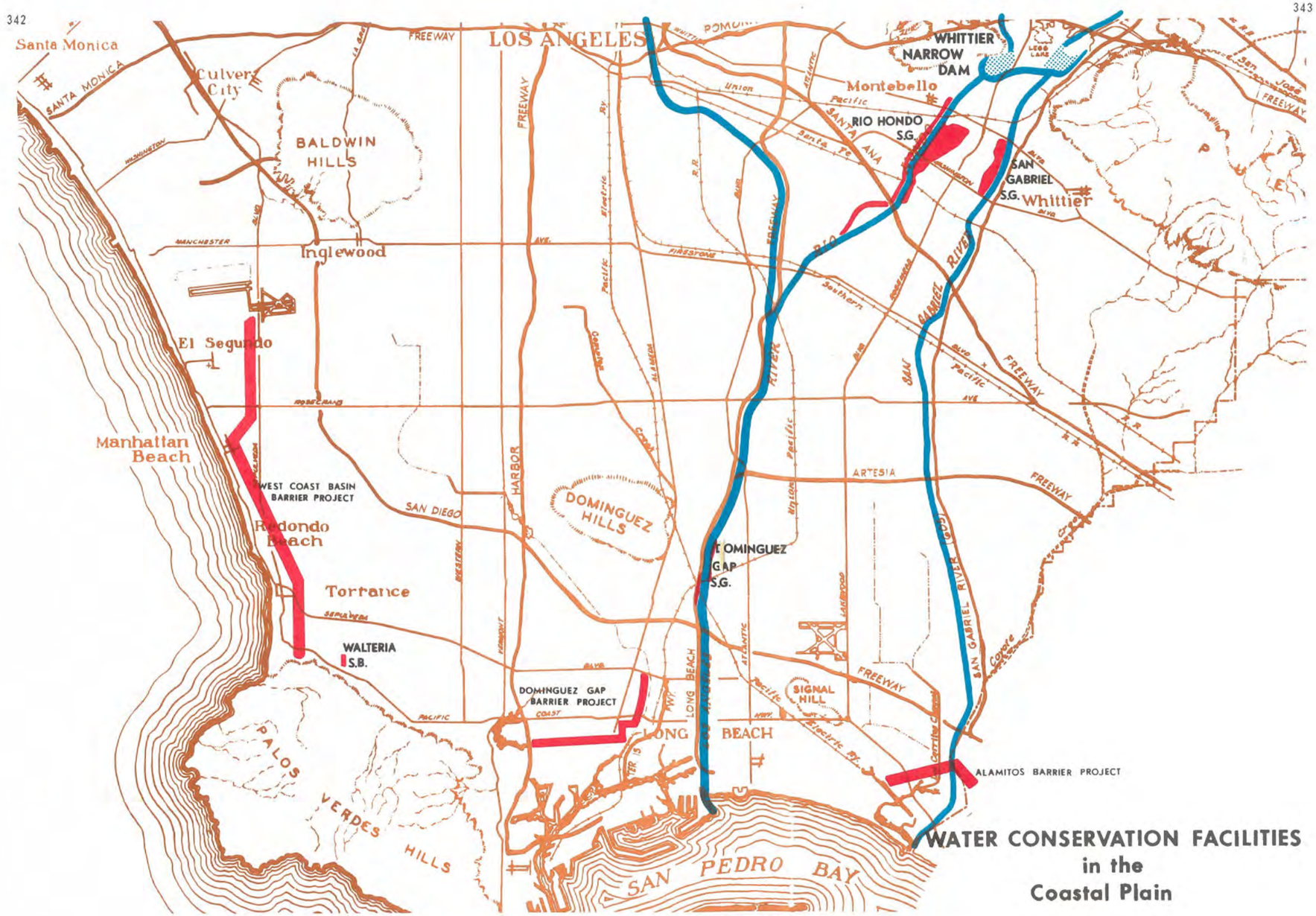

SHEET 3
ELEVATION OF GROUND SURFACE AT WELL NO. 9962B = 2411
ELEVATION OF GROUND SURFACE AT WELL NO. 9962C = 2407
GROUND - WATER FLUCTUATIONS
WELL NOS. 9962B & 9962C
SOUTH OF LANCASTER
ANTELOPE VALLEY
9962B
9962C SUBSTITUTED FOR 9962B, WHICH WAS DIFFICULT TO MEASURE
9962B
ELEVATION IN FEET U.S.G.S. DATUM
2250
2240
2230
2220
2210
2200
2190
2180
2170
2160
2150
2140
1961
1962
1963
1964
1965
1966
1967
1968
1969
1970
1971
1972
1973



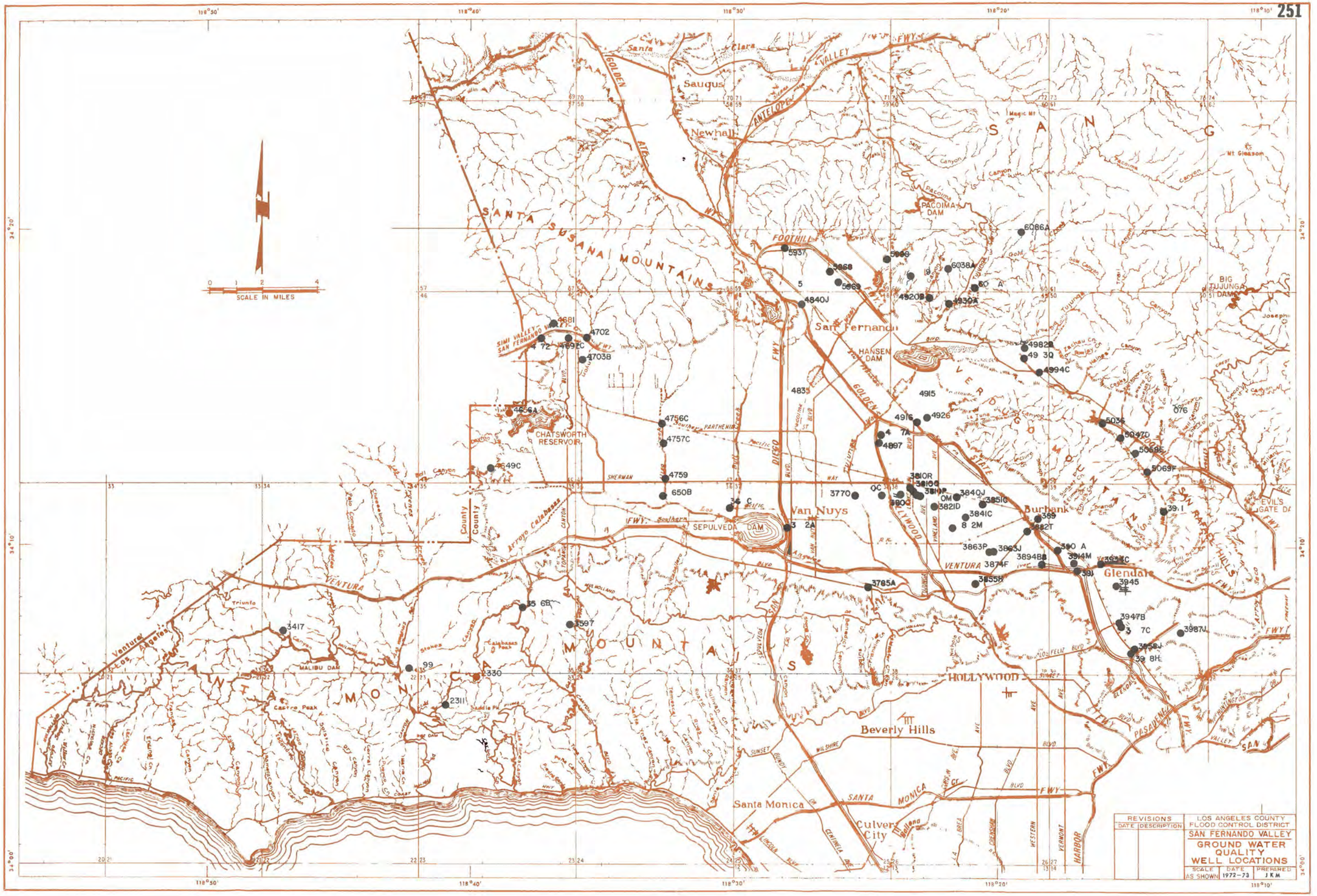
WATER CONSERVATION FACILITIES
in the
San Fernando Valley



WATER CONSERVATION FACILITIES
in the
San Gabriel Valley



WATER CONSERVATION FACILITIES in the Coastal Plain



REVISIONS	
DATE	DESCRIPTION

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
SAN FERNANDO VALLEY
GROUND WATER QUALITY WELL LOCATIONS

SCALE	DATE	PREPARED
AS SHOWN	1972-73	JKM

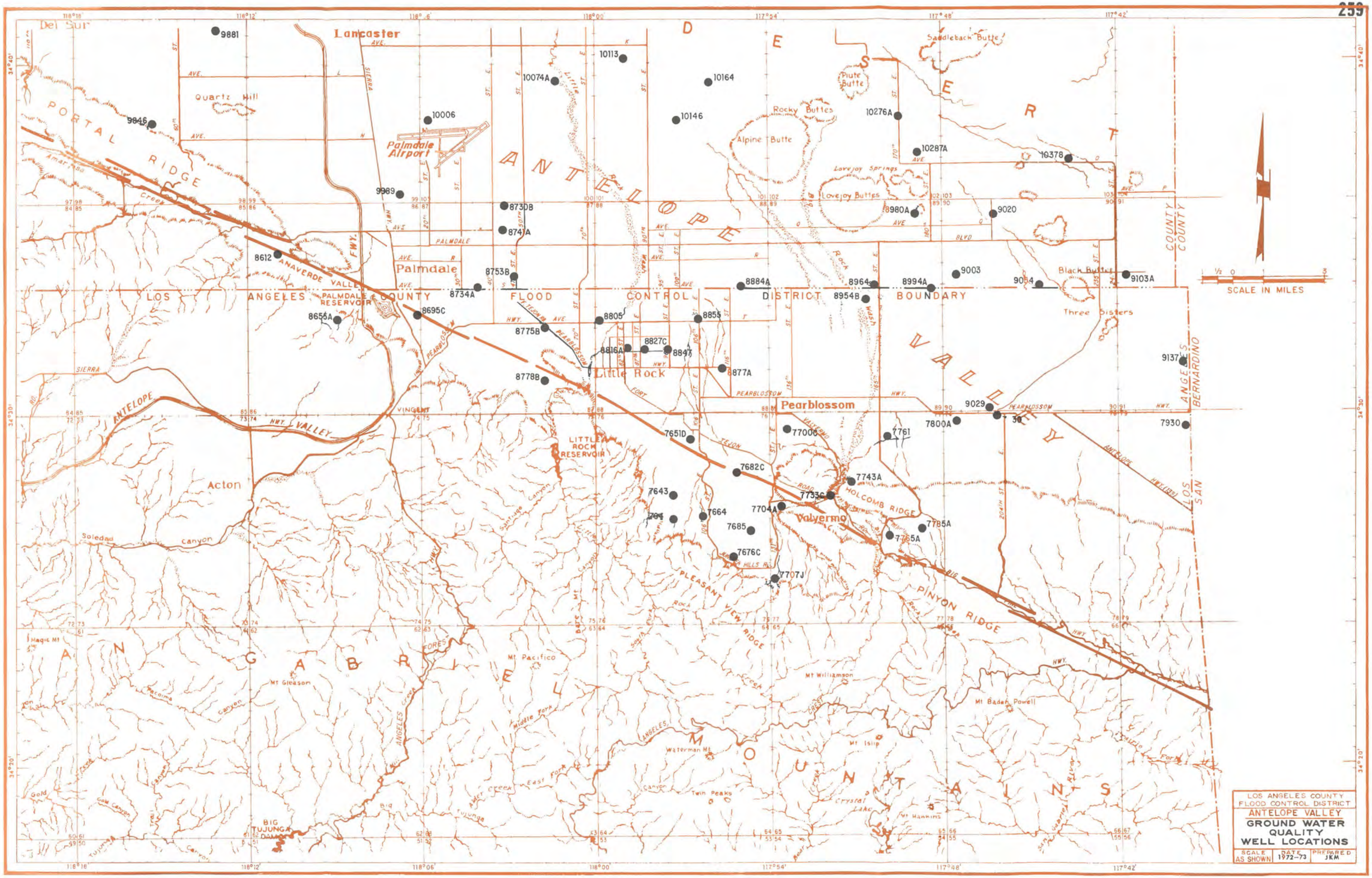
B-2

REVISIONS		LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
DATE	DESCRIPTION	SAN GABRIEL VALLEY GROUND WATER QUALITY WELL LOCATIONS
		SCALE: AS SHOWN · DATE: 1972-73 · PREPARED: JKM

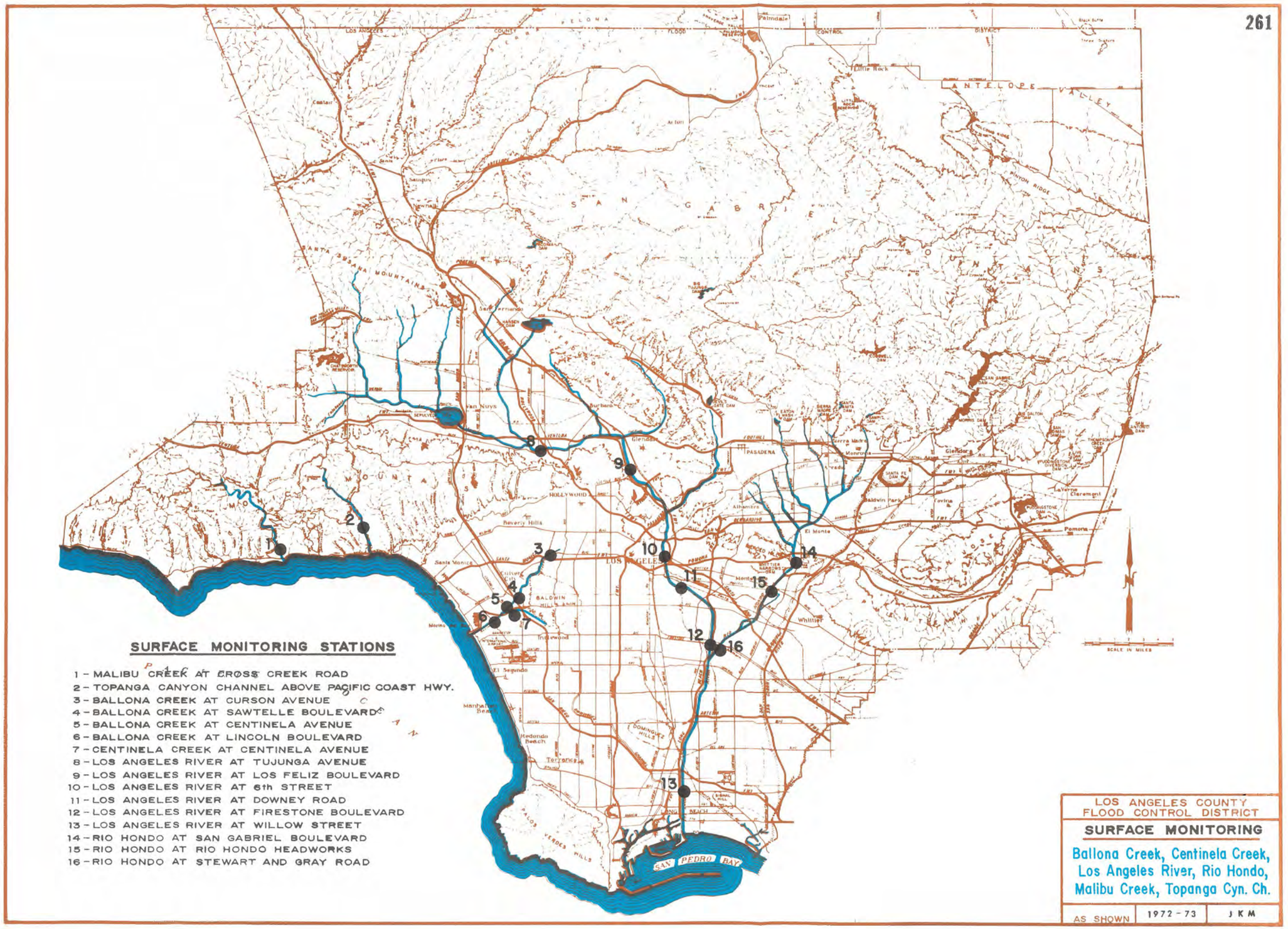

SANTA MONICA MOUNTAINS
HOLLYWOOD
Beverly Hills
Santa Monica
Culver City
BALDWIN HILLS
Marina del Rey
Inglewood
LA INTERNATIONAL AIRPORT
El Segundo
Manhattan Beach
Redondo Beach
Torrance
PACIFIC OCEAN
PALOS VERDES HILLS
LOS ANGELES
Alhambra
El Monte
Arcadia
Baldwin Park
SANTA FE DAM
Montebello
Whittier
HACIENDA HEIGHTS
LA HABRA HEIGHTS
DOMINGUEZ HILLS
SIGNAL HILL
LONG BEACH
SAN PEDRO BAY
SCALE IN MILES
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
COASTAL PLAIN
GROUND WATER QUALITY
WELL LOCATIONS
SCALE AS SHOWN
DATE 1972-73
PREPARED JKM

C-1 C-2


LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
SANTA CLARA RIVER VALLEY
GROUND WATER
QUALITY
WELL LOCATIONS
SCALE AS SHOWN
DATE 1972-73
PREPARED JKM
SCALE IN MILES
PORTAL RIDGE
PELONA
SIERRA
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT BOUNDARY
SANTA SUSANA MOUNTAINS
LOS ANGELES COUNTY
VENTURA COUNTY
GOLDEN STATE FWY
FOOTHILL FWY
Palmdale
Del Sur
Quartz Hill
Hughes Lake
Elizabeth Lake
BOUQUET RESERVOIR
PALMDALE RESERVOIR
ANAVERDE VALLEY
Castaic
Acton
Saugus
Newhall
Santa Clara
PACOIMA DAM
BIG TUJUNGA DAM
Soledad Canyon
ANTELOPE VALLEY FWY
6947A
6946A
6977D
6953
6994
6991A
7026B
7053A
7066B
7067D
7047
7058Q
7078A
7091A
7104D
7113
7107H
7127C
7132A
7158H
7165
7168
7177L
7179D
7183
7184F
7174D
7187A
7202
7221
7226B
7255
7256B
7286
7346
7376B
7385
7392
7403D
7404G
7400B
7432D
7443A
7451
7483C
8468A
8528A
5831
5842C
5861D
5861E
5881K
5882A
5873E
5864A
5912D
5990A
E-1
E-2


LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
ANTELOPE VALLEY
GROUND WATER
QUALITY
WELL LOCATIONS
SCALE AS SHOWN
DATE 1972-73
PREPARED JKM
SCALE IN MILES
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT BOUNDARY
ANTELOPE VALLEY
DESERT
SAN GABRIEL MOUNTAINS
PORTAL RIDGE
Lancaster
Palmdale
Palmdale Airport
Little Rock
Pearblossom
Valyermo
Acton
Quartz Hill
Del Sur
Rocky Buttes
Alpine Butte
Piute Butte
Saddleback Butte
Lovejoy Buttes
Lovejoy Springs
Black Butte
Three Sisters
LITTLE ROCK RESERVOIR
PALMDALE RESERVOIR
HOLCOMB RIDGE
PINYON RIDGE
PLEASANT VIEW RIDGE
LOS ANGELES COUNTY
SAN BERNARDINO COUNTY
Mt Pacifico
Mt Gleason
Mt Williamson
Mt Baden Powell
Mt Islip
Waterman Mt
Twin Peaks
Crystal Lake
BIG TUJUNGA DAM
9881
10113
10074A
10164
10146
10006
9846
10276A
10287A
10378
9989
8730B
8747A
8980A
9020
8612
8753B
8734A
8884A
8964
8994A
9003
9054
9103A
8954B
8695C
8655A
8805
8855
8775B
8827C
8816A
8847
8877A
8778B
9137
9029
7800A
7930
7651D
7700C
7761
7682C
7743A
7643
7733C
7704A
7664
7685
7785A
7765A
7676C
7707J
118°18'
118°12'
118°06'
118°00'
117°54'
117°48'
117°42'
34°40'
34°30'
34°20'

D-1



SURFACE MONITORING STATIONS

1 - MALIBU CREEK AT CROSS CREEK ROAD
2 - TOPANGA CANYON CHANNEL ABOVE PACIFIC COAST HWY.
3 - BALLONA CREEK AT CURSON AVENUE
4 - BALLONA CREEK AT SAWTELLE BOULEVARD
5 - BALLONA CREEK AT CENTINELA AVENUE
6 - BALLONA CREEK AT LINCOLN BOULEVARD
7 - CENTINELA CREEK AT CENTINELA AVENUE
8 - LOS ANGELES RIVER AT TUJUNGA AVENUE
9 - LOS ANGELES RIVER AT LOS FELIZ BOULEVARD
10 - LOS ANGELES RIVER AT 6th STREET
11 - LOS ANGELES RIVER AT DOWNEY ROAD
12 - LOS ANGELES RIVER AT FIRESTONE BOULEVARD
13 - LOS ANGELES RIVER AT WILLOW STREET
14 - RIO HONDO AT SAN GABRIEL BOULEVARD
15 - RIO HONDO AT RIO HONDO HEADWORKS
16 - RIO HONDO AT STEWART AND GRAY ROAD

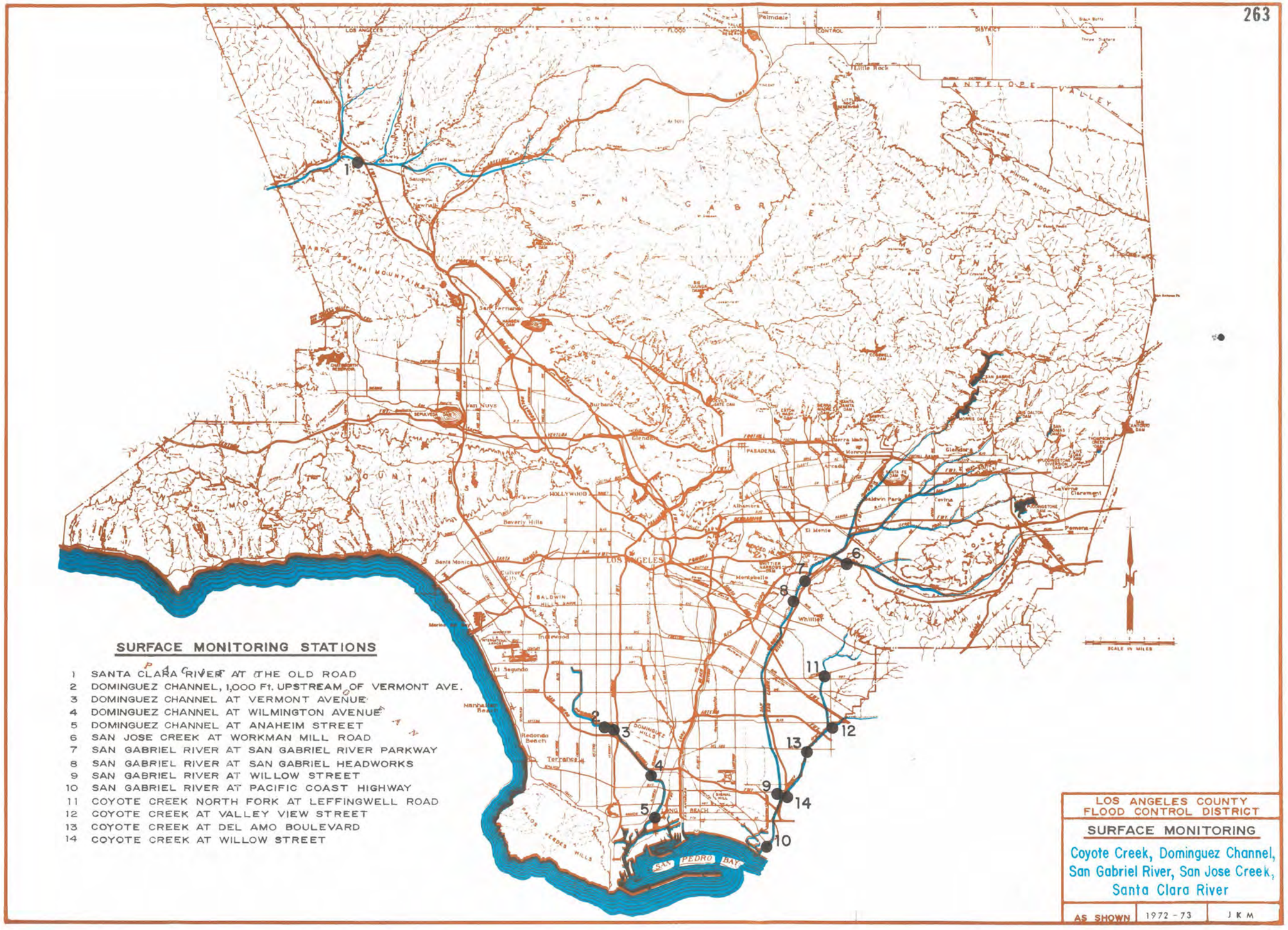
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT

SURFACE MONITORING

Ballona Creek, Centinela Creek,
Los Angeles River, Rio Hondo,
Malibu Creek, Topanga Cyn. Ch.

AS SHOWN	1972 - 73	J K M

F-1



SURFACE MONITORING STATIONS

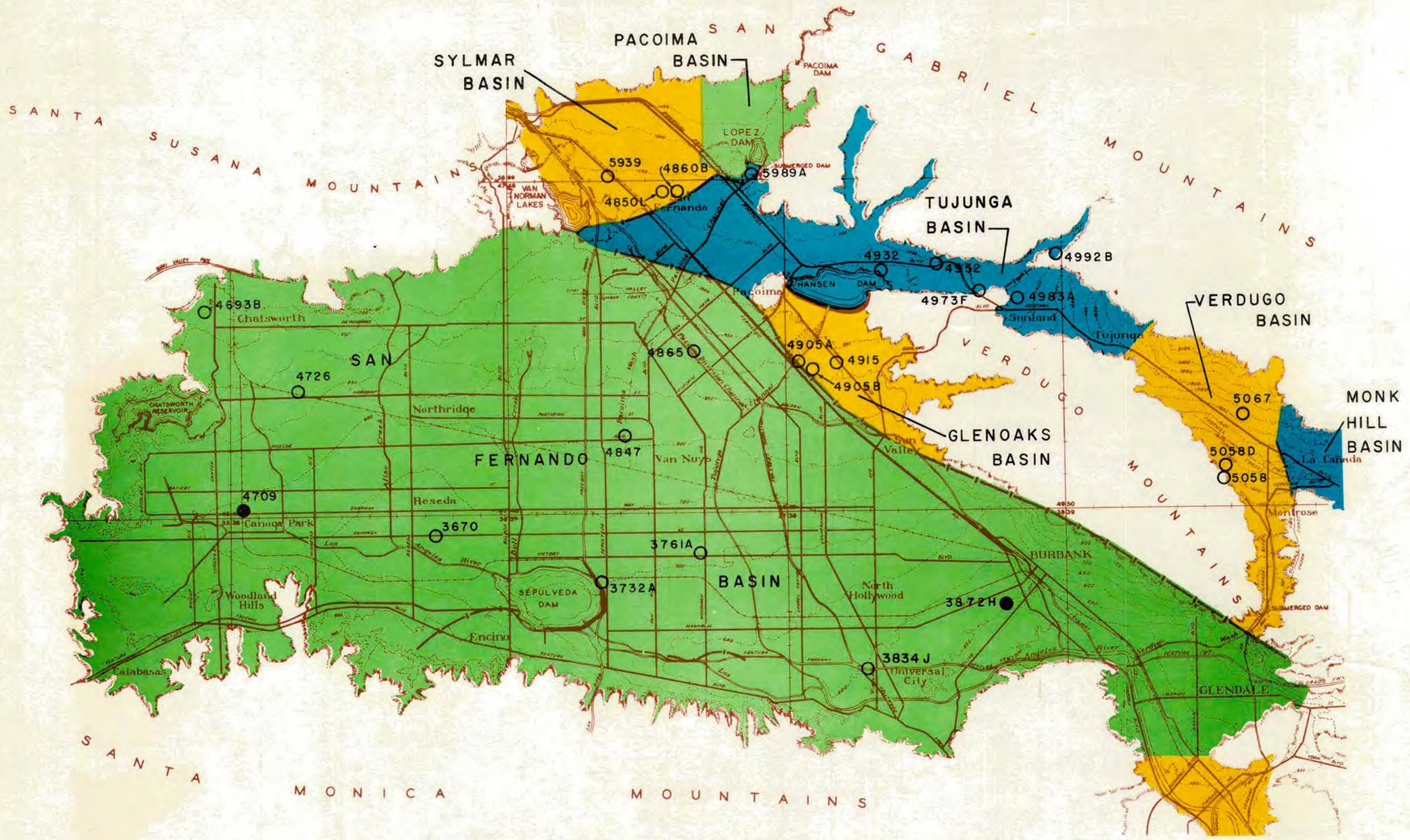
1 SANTA CLARA RIVER AT THE OLD ROAD
2 DOMINGUEZ CHANNEL, 1,000 Ft. UPSTREAM OF VERMONT AVE.
3 DOMINGUEZ CHANNEL AT VERMONT AVENUE
4 DOMINGUEZ CHANNEL AT WILMINGTON AVENUE
5 DOMINGUEZ CHANNEL AT ANAHEIM STREET
6 SAN JOSE CREEK AT WORKMAN MILL ROAD
7 SAN GABRIEL RIVER AT SAN GABRIEL RIVER PARKWAY
8 SAN GABRIEL RIVER AT SAN GABRIEL HEADWORKS
9 SAN GABRIEL RIVER AT WILLOW STREET
10 SAN GABRIEL RIVER AT PACIFIC COAST HIGHWAY
11 COYOTE CREEK NORTH FORK AT LEFFINGWELL ROAD
12 COYOTE CREEK AT VALLEY VIEW STREET
13 COYOTE CREEK AT DEL AMO BOULEVARD
14 COYOTE CREEK AT WILLOW STREET

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT

SURFACE MONITORING

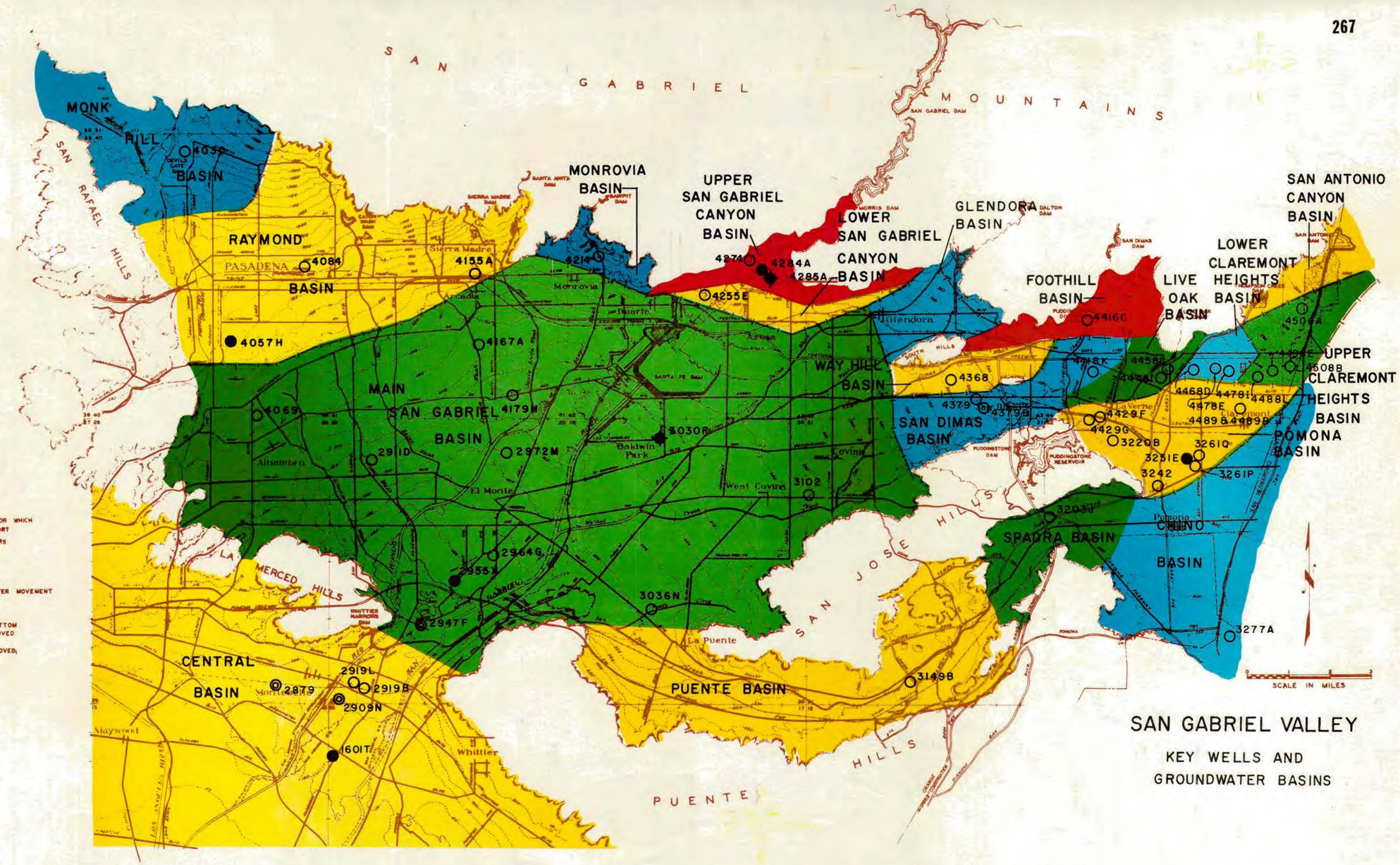
Coyote Creek, Dominguez Channel, San Gabriel River, San Jose Creek, Santa Clara River

AS SHOWN	1972 - 73	J K M



SAN FERNANDO VALLEY

KEY WELLS AND GROUNDWATER BASINS



LEGEND

KEY WELLS

KEY WELLS WITH AUTOMATIC RECORDERS

KEY WELLS FOR WHICH HYDROGRAPHS ARE INCLUDED IN THIS REPORT

KEY WELLS WITH AUTOMATIC RECORDERS FOR WHICH HYDROGRAPHS ARE INCLUDED IN THIS REPORT

SPECIAL WELLS WITH AUTOMATIC RECORDERS

RESTRICTIONS OR BARRIERS TO GROUNDWATER MOVEMENT (GEOLOGIC AND/OR HYDROLOGIC)

GROUND SURFACE CONTOURS

SPREADING GROUNDS

CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM

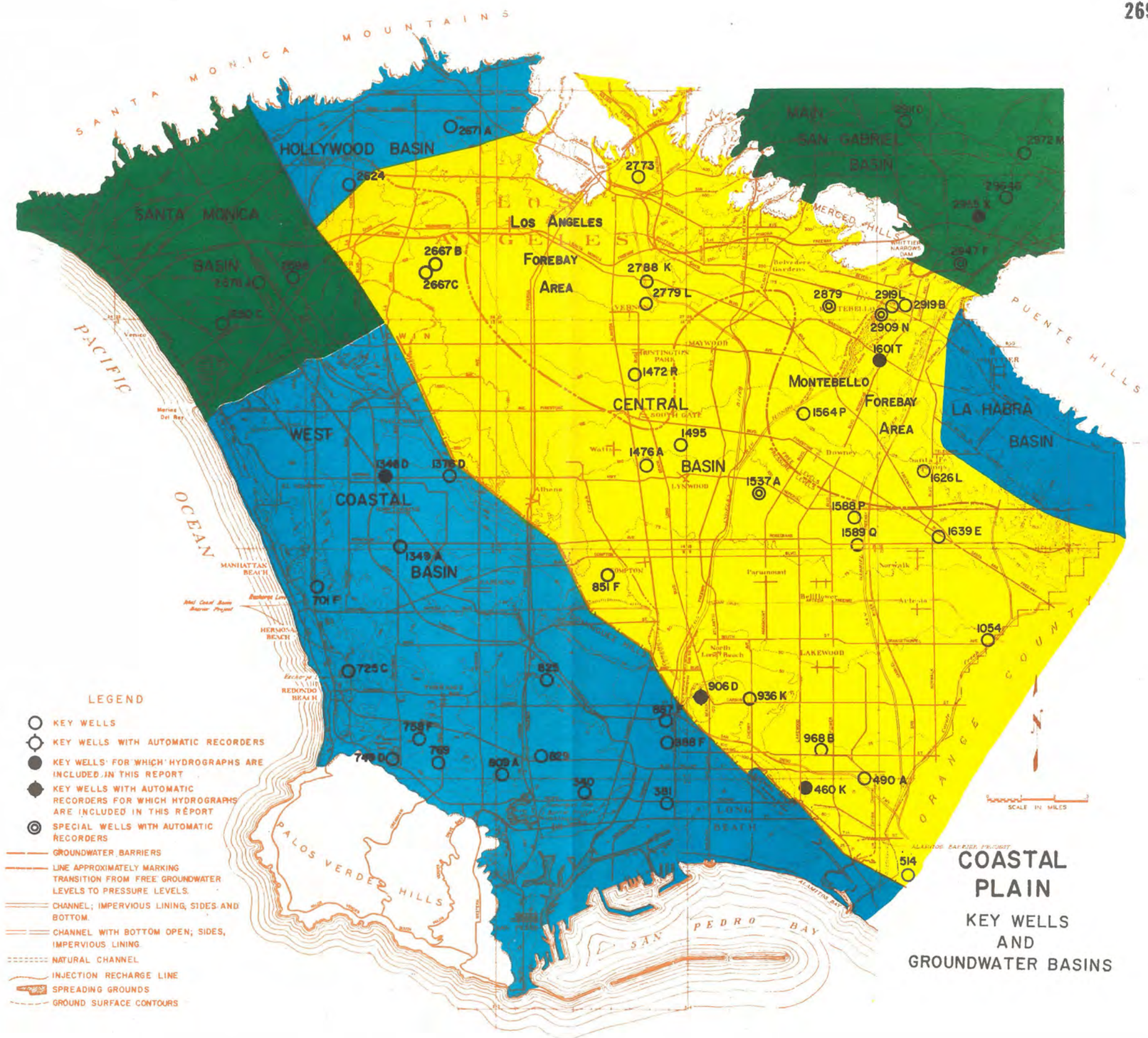
CHANNEL WITH BOTTOM OPEN; SIDES IMPROVED

NATURAL CHANNEL

CHANNEL WITH BOTTOM OPEN; SIDES IMPROVED, WITH BOTTOM STABILIZERS

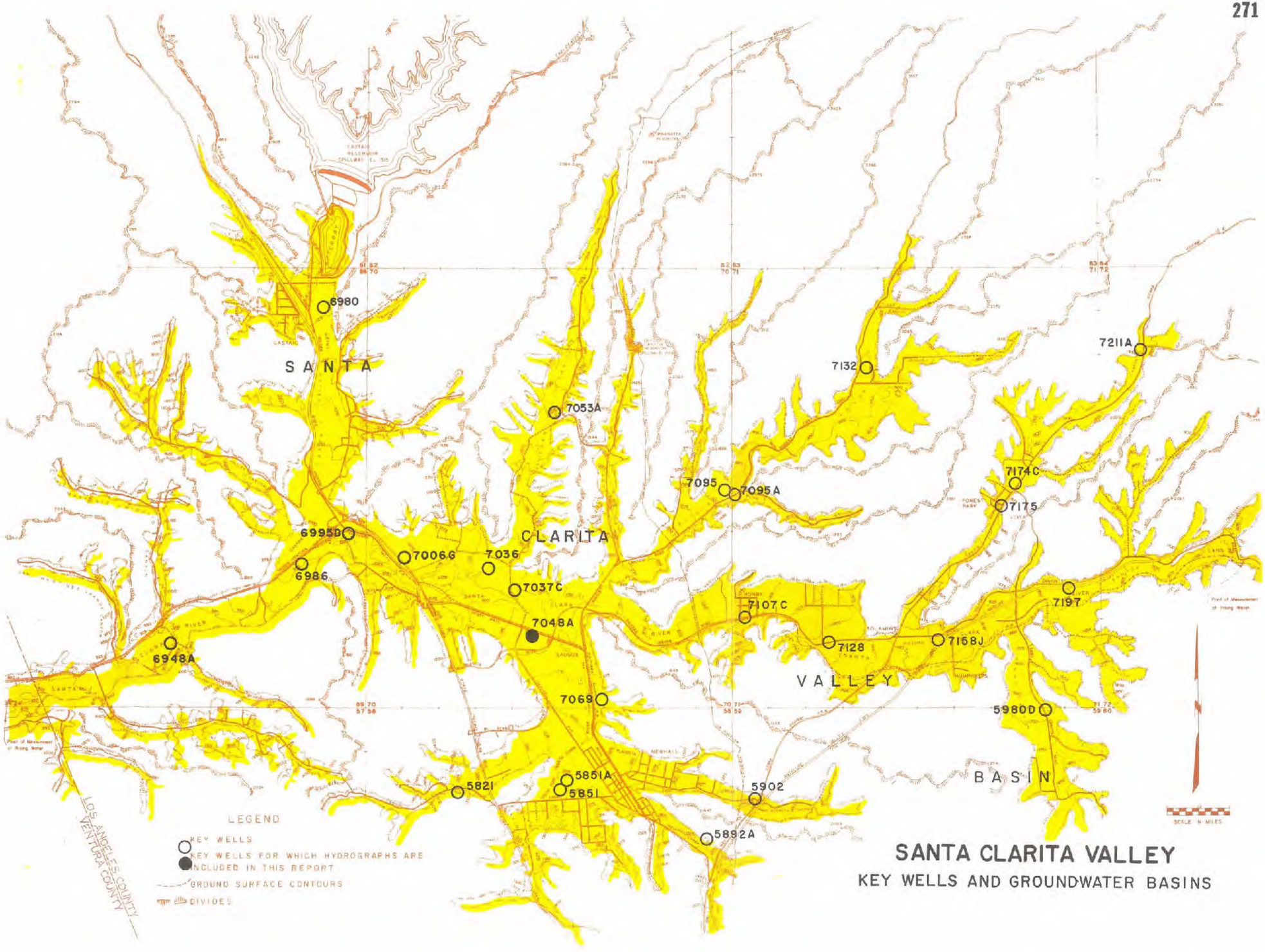
SAN GABRIEL VALLEY

KEY WELLS AND GROUNDWATER BASINS



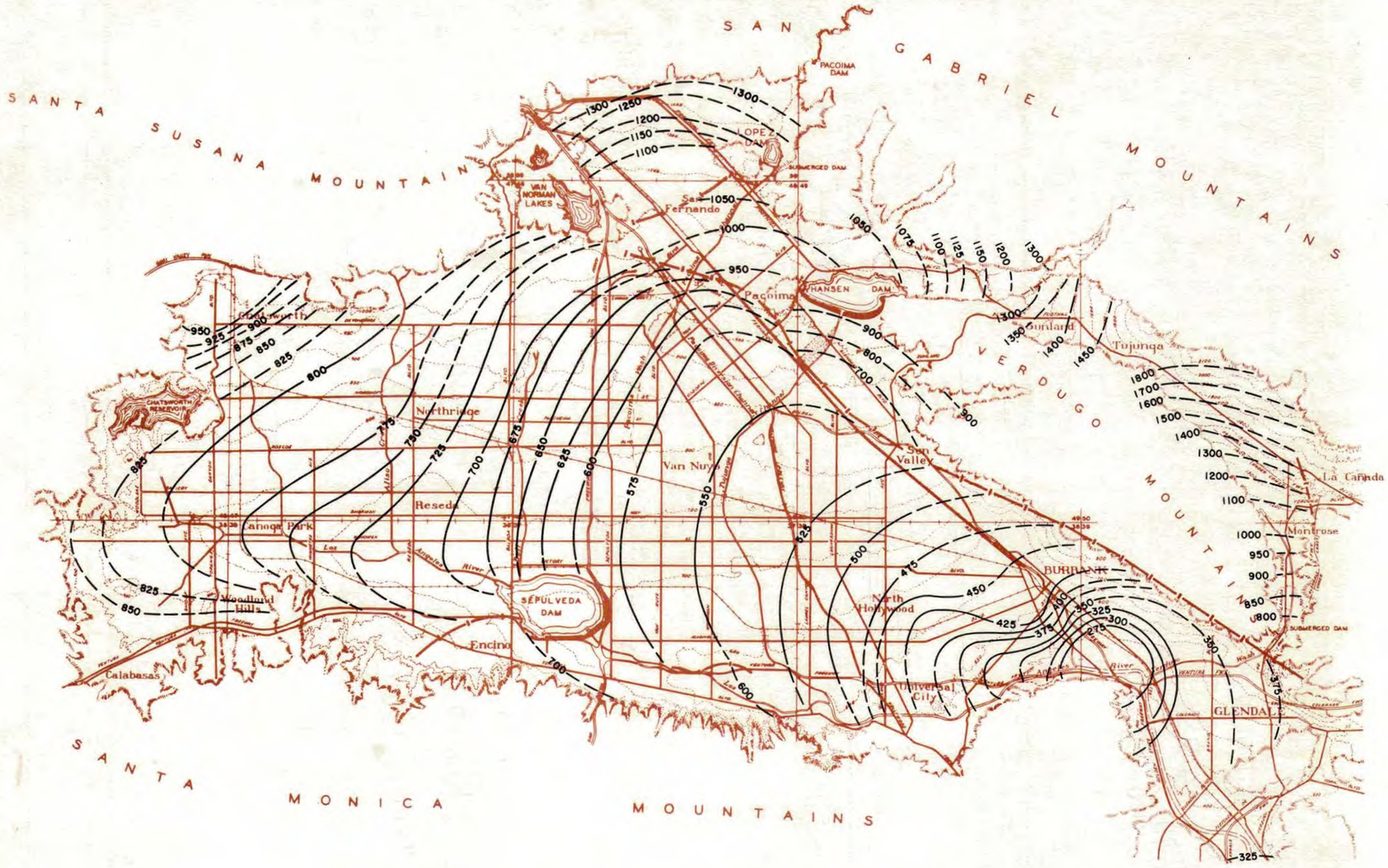
COASTAL PLAIN

KEY WELLS
AND
GROUNDWATER BASINS



SANTA CLARITA VALLEY

KEY WELLS AND GROUNDWATER BASINS



N

SCALE IN MILES

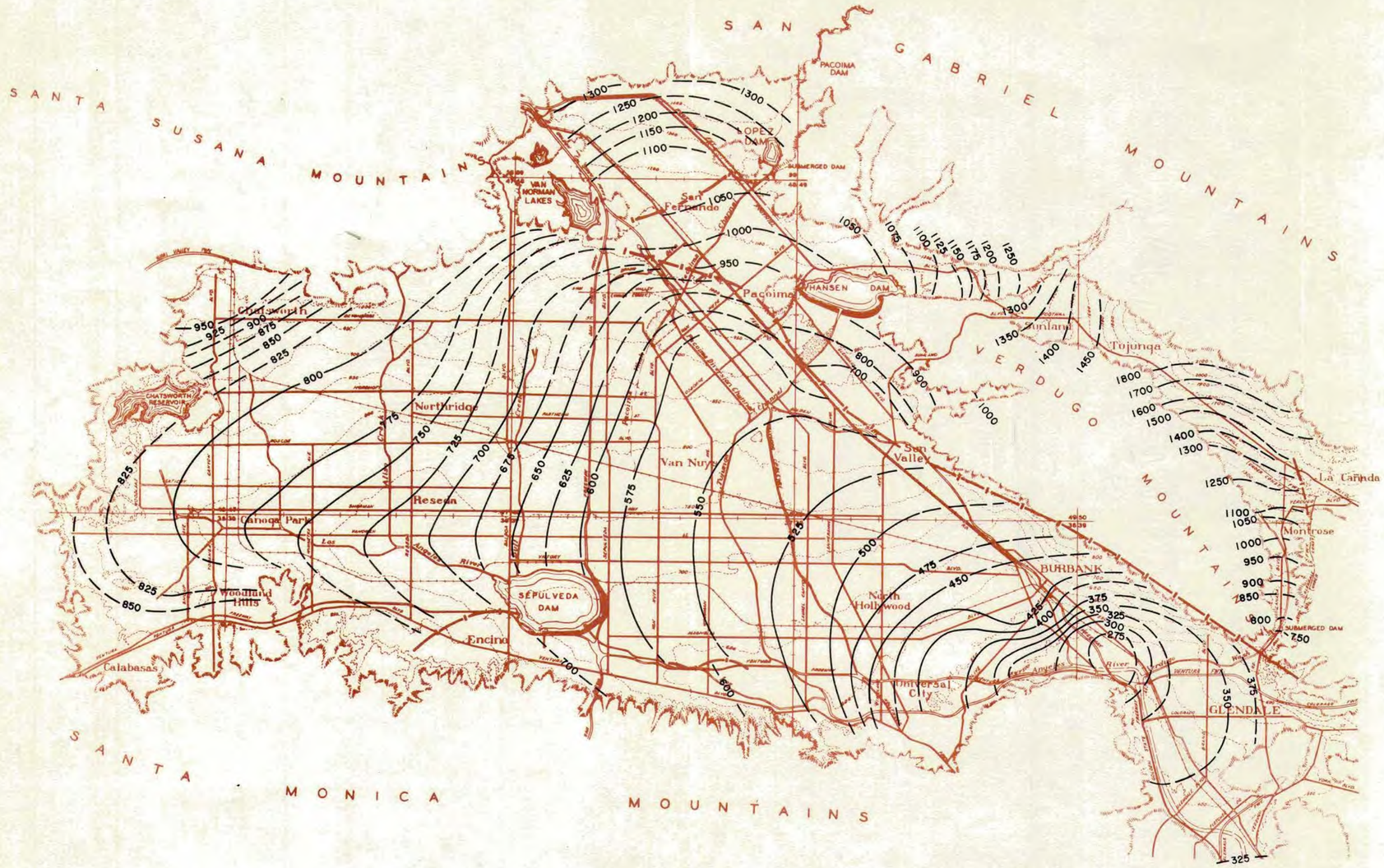
LEGEND

- 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
- F FLOWING WELL
- REACH OF RISING WATER
- CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
- CHANNEL WITH BOTTOM OPEN; SIDES, IMPERVIOUS LINING
- NATURAL CHANNEL

SAN FERNANDO VALLEY

GROUNDWATER CONTOURS

NOVEMBER 1972



SCALE IN MILES

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- LINES OF EQUAL FREE GROUND-WATER ELEVATION (INTERPOLATED BETWEEN WELLS). LOCALLY THE WATER MAY BE UNDER PRESSURE.
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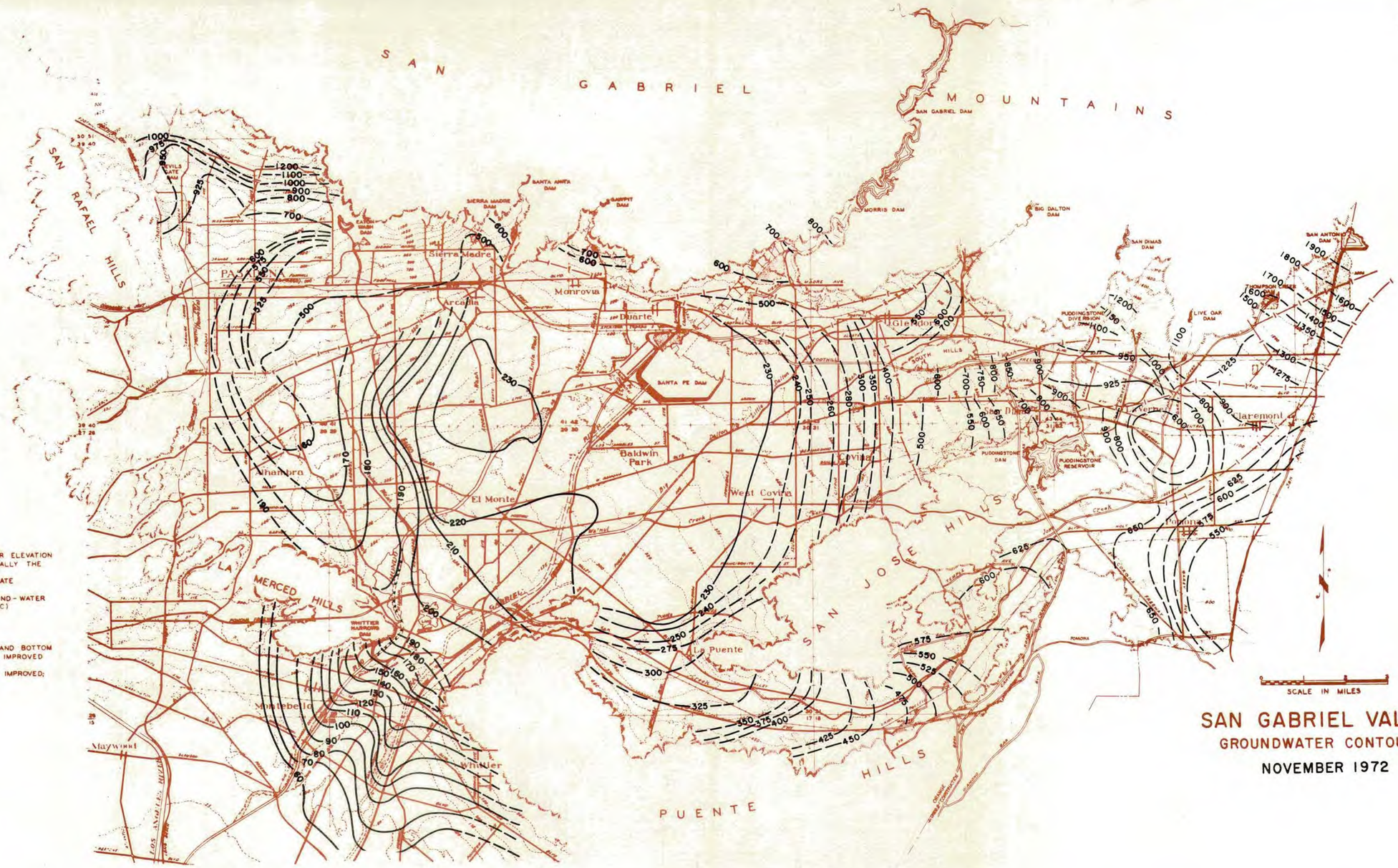
- NATURAL CHANNEL

SAN FERNANDO VALLEY

GROUNDWATER CONTOURS

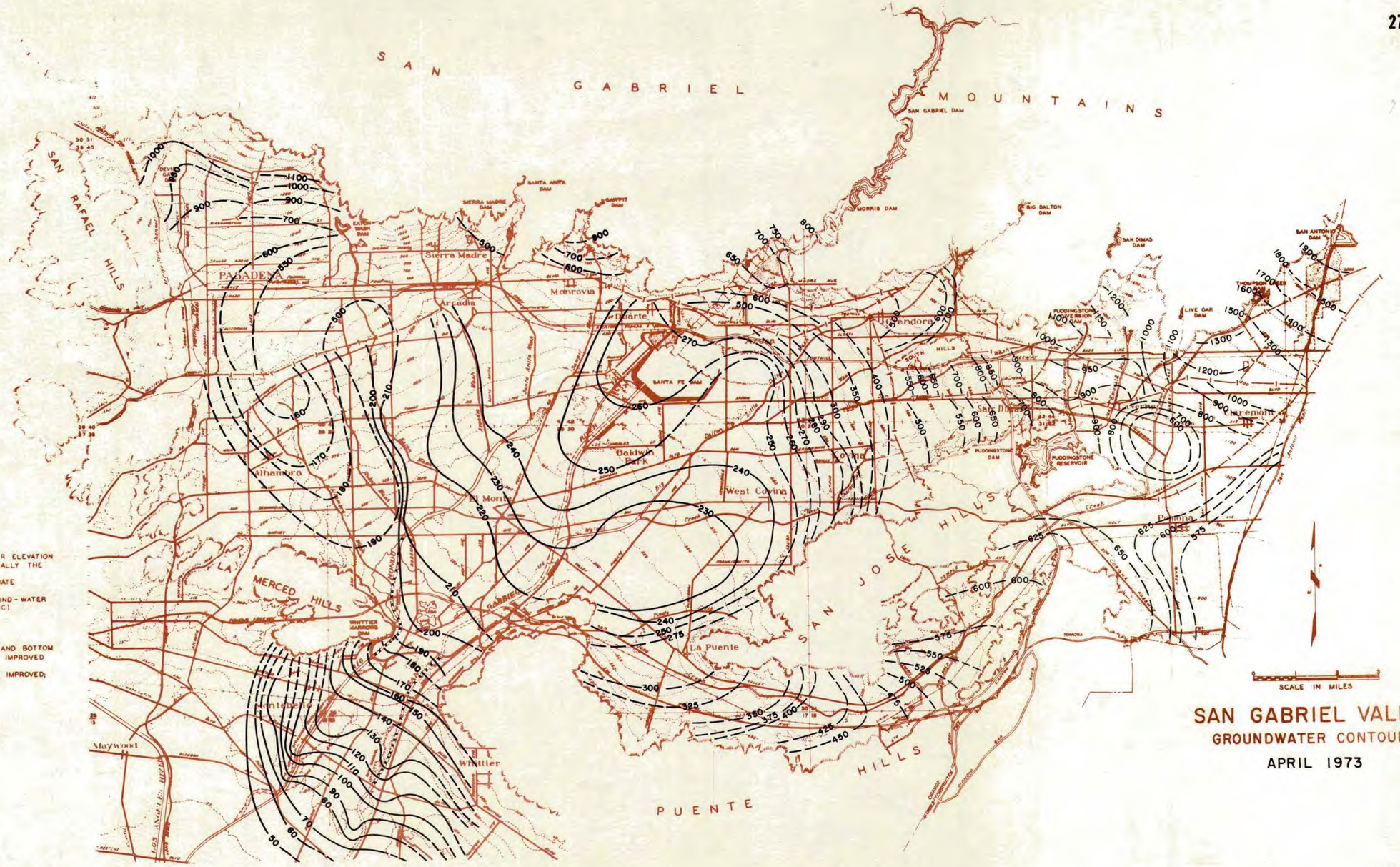
APRIL 1973



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
- F FLOWING WELL
- REACH OF RISING WATER
- CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
- CHANNEL WITH BOTTOM OPEN; SIDES IMPROVED
- NATURAL CHANNEL
- CHANNEL WITH BOTTOM OPEN; SIDES IMPROVED; WITH BOTTOM STABILIZERS.

SAN GABRIEL VALLEY
GROUNDWATER CONTOURS
NOVEMBER 1972



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
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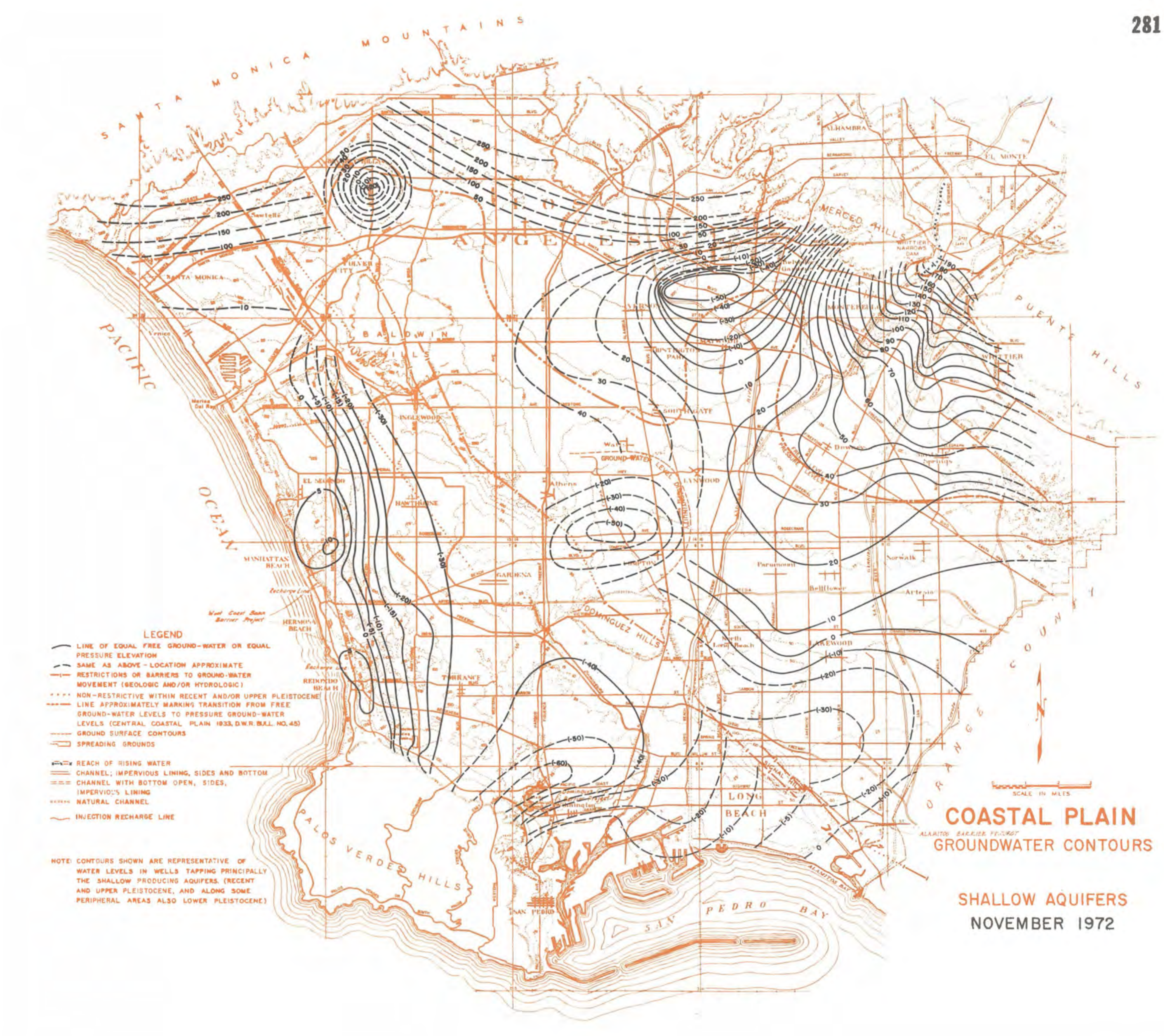
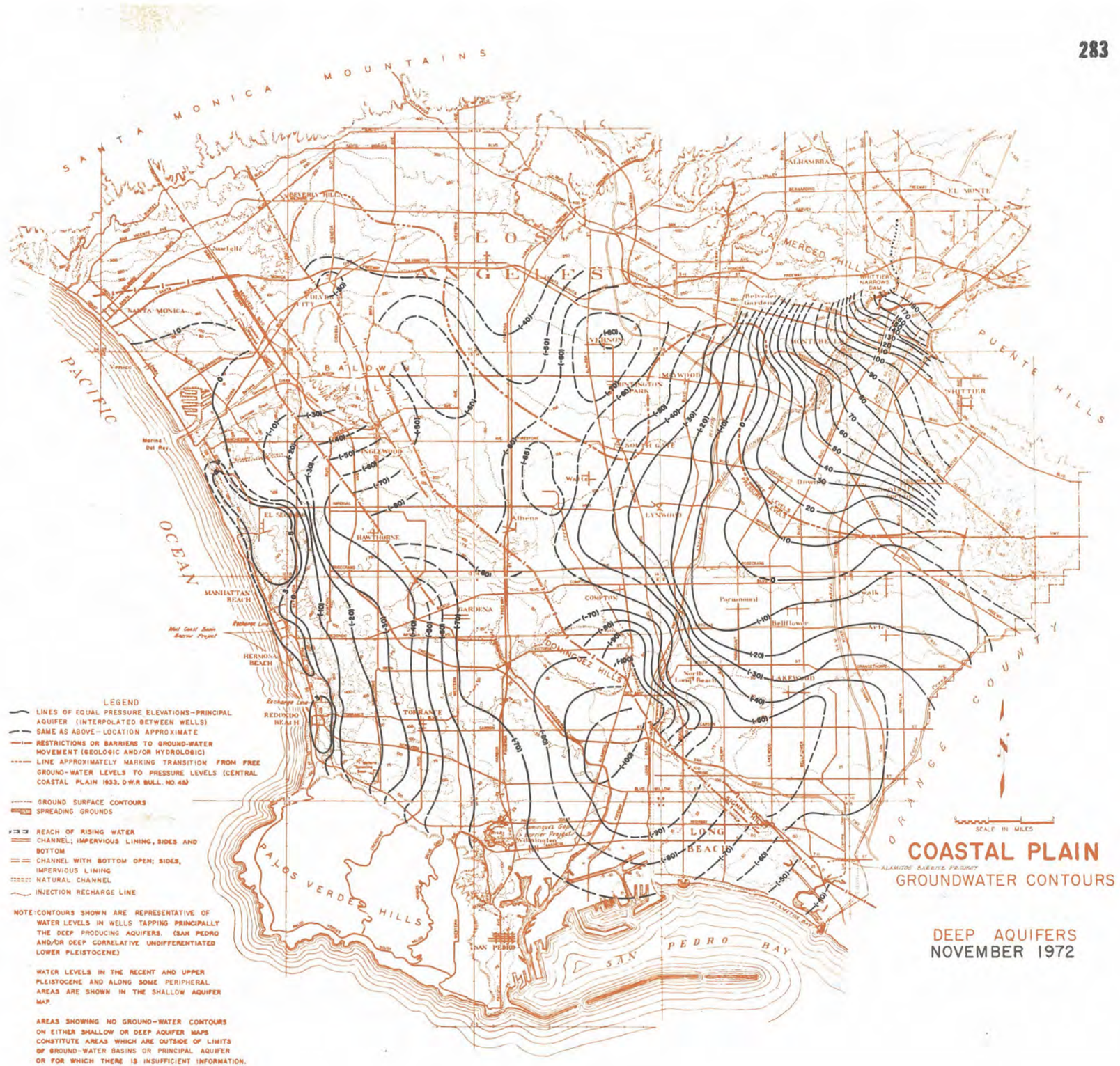
- CHANNEL WITH BOTTOM OPEN; SIDES IMPROVED; WITH BOTTOM STABILIZERS.

SAN GABRIEL VALLEY
GROUNDWATER CONTOURS
APRIL 1973


SANTA MONICA MOUNTAINS
PACIFIC OCEAN
LOS ANGELES
BALDWIN HILLS
MERCED HILLS
PUENTE HILLS
DOMINGUEZ HILLS
PALOS VERDES HILLS
SAN PEDRO BAY
ORANGE COUNTY
SANTA MONICA
CULVER CITY
INGLEWOOD
HAWTHORNE
GARDENA
TORRANCE
MANHATTAN BEACH
HERMOSA BEACH
REDONDO BEACH
LONG BEACH
SAN PEDRO
ALHAMBRA
EL MONTE
WHITTIER
HUNTINGTON PARK
SOUTH GATE
LYNWOOD
COMPTON
Norwalk
Artesia
LAKEWOOD
Bellflower
Downey
West Coast Basin Barrier Project
Recharge Line
ALAMITOS BARRIER PROJECT
SCALE IN MILES
LEGEND
LINE OF EQUAL FREE GROUND-WATER OR EQUAL PRESSURE ELEVATION
SAME AS ABOVE - LOCATION APPROXIMATE
RESTRICTIONS OR BARRIERS TO GROUND-WATER MOVEMENT (GEOLOGIC AND/OR HYDROLOGIC)
NON-RESTRICTIVE WITHIN RECENT AND/OR UPPER PLEISTOCENE
LINE APPROXIMATELY MARKING TRANSITION FROM FREE GROUND-WATER LEVELS TO PRESSURE GROUND-WATER LEVELS (CENTRAL COASTAL PLAIN 1933, D.W.R. BULL. NO. 45)
GROUND SURFACE CONTOURS
SPREADING GROUNDS
REACH OF RISING WATER
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 SHALLOW PRODUCING AQUIFERS. (RECENT AND UPPER PLEISTOCENE, AND ALONG SOME PERIPHERAL AREAS ALSO LOWER PLEISTOCENE)
COASTAL PLAIN
GROUNDWATER CONTOURS
SHALLOW AQUIFERS
NOVEMBER 1972



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
- REACH OF RISING WATER
- 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

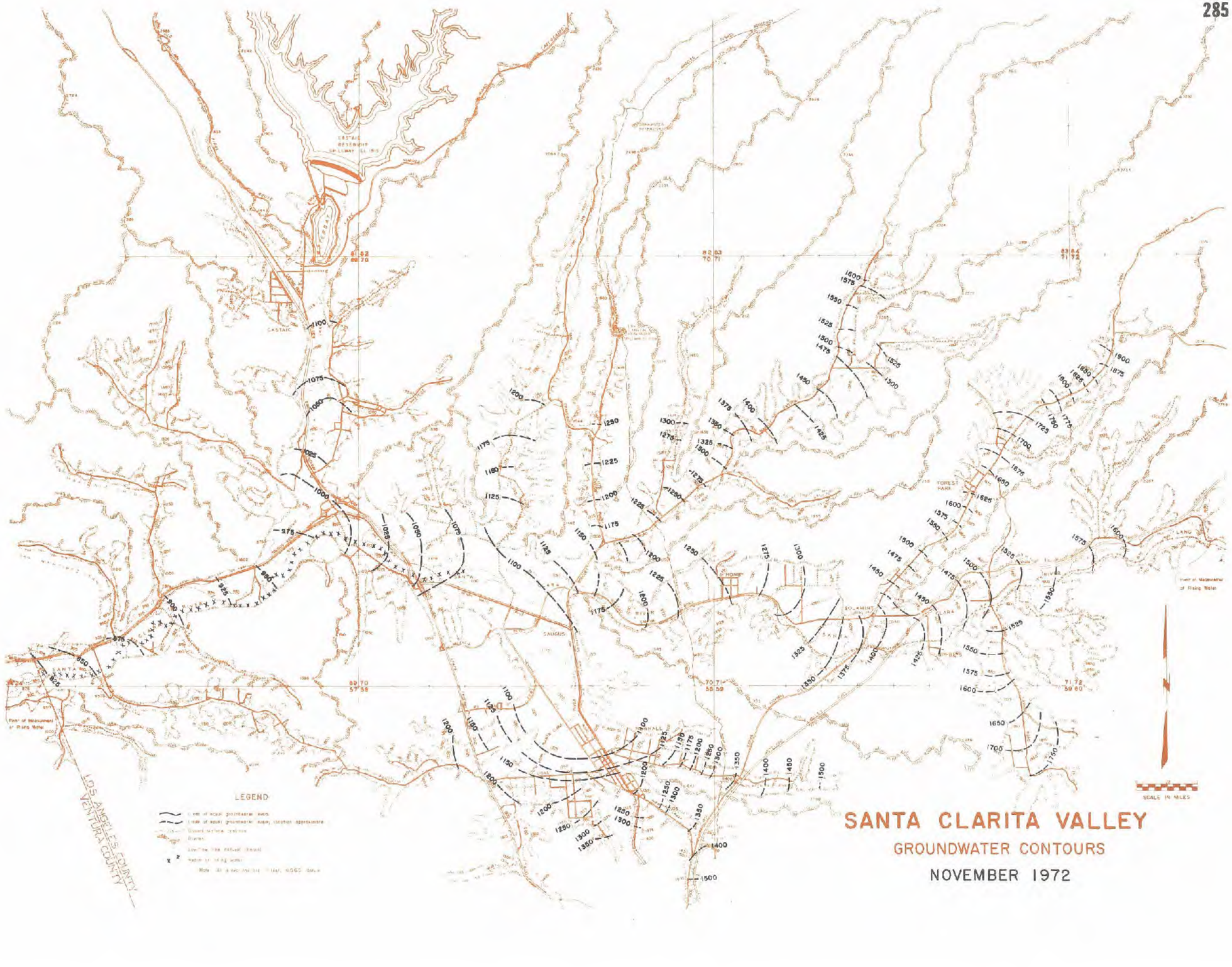
COASTAL PLAIN

ALAMITOS BARRIER PROJECT

GROUNDWATER CONTOURS

DEEP AQUIFERS

NOVEMBER 1972



SANTA CLARITA VALLEY

GROUNDWATER CONTOURS

NOVEMBER 1972