

LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC WORKS

HYDROLOGIC REPORT

1980 - 87

**PREPARED BY THE
HYDRAULIC/WATER CONSERVATION DIVISION**

NOVEMBER 1988

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NOTE ON CONSOLIDATION

This report contains hydrologic data for the 1980-87 water years. It should be noted that on January 1, 1985 the Los Angeles County Flood Control District consolidated with the Los Angeles County Road Department and portions of the Los Angeles County Engineer to become the Los Angeles County Department of Public Works. Because the data contained in this report was gathered at the time the Los Angeles County Flood Control District was a separate entity, it is noted as such in the following pages. However, any future correspondence should be directed towards the Los Angeles County Department of Public Works.

ABOUT THIS REPORT

The 1980-87 Hydrologic Report represents a significant departure in terms of data content and format from those reports published previously by the Department of Public Works and its predecessor, the Los Angeles County Flood Control District. The changes primarily entail the reporting of less detailed hydrologic data than were previously published, such as monthly and annual summaries instead of daily data. We apologize for any inconvenience this may cause our users, but it was felt necessary to make these changes to bring us current in our data publishing function.

With the rapid development of computing technology, there appears to be less demand for hydrologic data in written form, and it is our intention at some future time to phase out the published book reports and make the data available on computer diskettes. In the meantime, any user who desires more detailed information about any of the types of hydrologic data which we manage can write the custodian of Hydrologic Records at:

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INTRODUCTION

This report contains hydrologic data within Los Angeles County for the period beginning October 1, 1980 and ending September 30, 1987. The data are presented in seven sections.

1. Precipitation - lists active rainfall stations and presents seasonal rainfall indices for eight major areas within Los Angeles County.
2. Evaporation - lists all locations for which evaporation data is on file and provides monthly evaporation amounts at 18 locations.
3. Runoff - presents the maximum, minimum and mean of the daily flow rates for each month and the monthly volumes for 53 streamflow stations and three Metropolitan Water District outlets.
4. Dam Operation - presents the maximum and minimum of the daily inflow and outflow rates for the year, the instantaneous peak inflow and outflow rates and annual storage volumes for 14 dams and reservoirs.
5. Erosion Control - list debris basins and displays maps of major watershed burns.
6. Water Quality Monitoring - presents maps of surface and groundwater sampling locations, and data at selected locations.
7. Conservation and Groundwater - presents records of water conserved at various facilities, water injected at seawater barrier projects, well hydrographs, and groundwater basins.

Where practical, data which would satisfy immediate needs and serve as useful reference are published in these reports. Several tables appear listing locations where unpublished data are available.



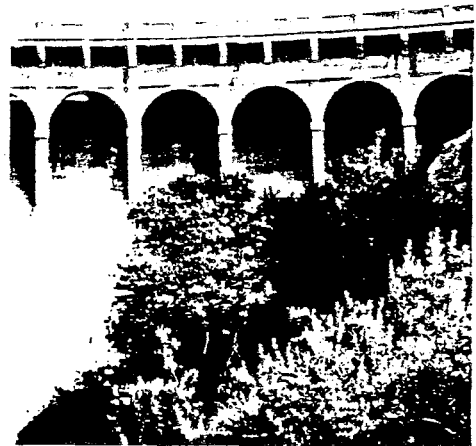
COGSWELL DAM

THE LOS ANGELES COUNTY

TOPOGRAPHY

County of Los Angeles Department of Public Works includes an area of 4,083 square miles with boundary contiguous to the County boundary. The most northerly portions are included. The Department measures approximately 66 miles in east - west and 73 miles in north - south directions.

The terrain within the County can be classified in broad terms as being 26 percent mountainous, 12 percent coastal plain; and 62 percent hills, valleys, or deserts. Relief of the terrain ranges from sea level to a maximum elevation of 10,000 feet. The coastal plain is generally of mild slope and contains relatively few depressions or natural ponding areas. The slopes of main river systems crossing the coastal plain, such as the San Gabriel River, Los Angeles River, and Ballona Creek, range from 4 to 14 feet per mile.



DEVIL'S GATE DAM

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

GEOLOGY - SOILS

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

LAND USE

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

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

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

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

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

CLIMATE

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

January and July are the coldest and warmest months of the year, respectively. At Los Angeles, the 30-year average daily minimum temperature for January is 48 degrees above zero. The average daily maximum temperature for July is 84 degrees. At Mount Wilson (Elevation 5,850 feet), the 30-year average daily minimum temperature for January is 36 degrees above zero and the average daily maximum temperature for July is 81 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 consists 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 County. 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 County may remain above freezing.

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

Desert Areas

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

RUNOFF CHARACTERISTICS

Mountain Areas

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

FLOOD CONTROL and WATER CONSERVATION

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 Department 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 Department 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.

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

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

CONSERVING THE WATERS

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

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

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



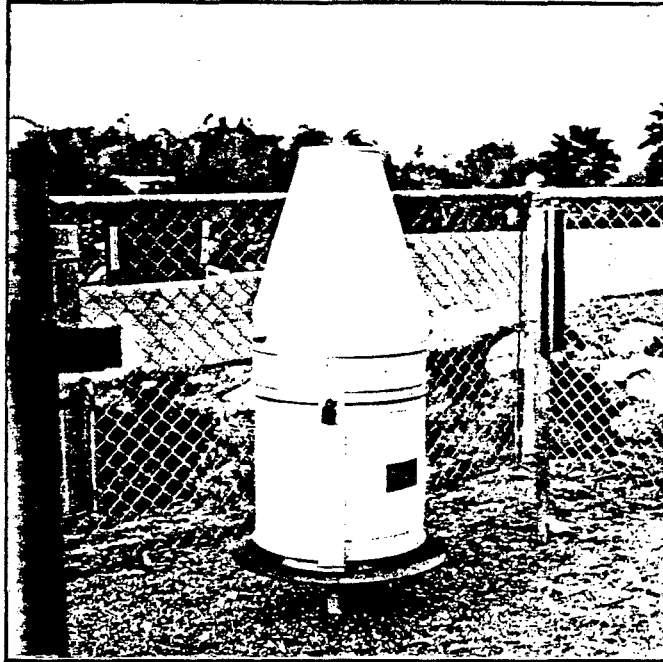
RIO HONDO SPREADING GROUNDS

ORGANIZED TO DO THE JOB

Day to day administration of Department affairs is vested in the Director of Public Works who is appointed by and responsible to the Los Angeles County Board of Supervisors. Although a part of the Department'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.

PRECIPITATION





PRECIPITATION

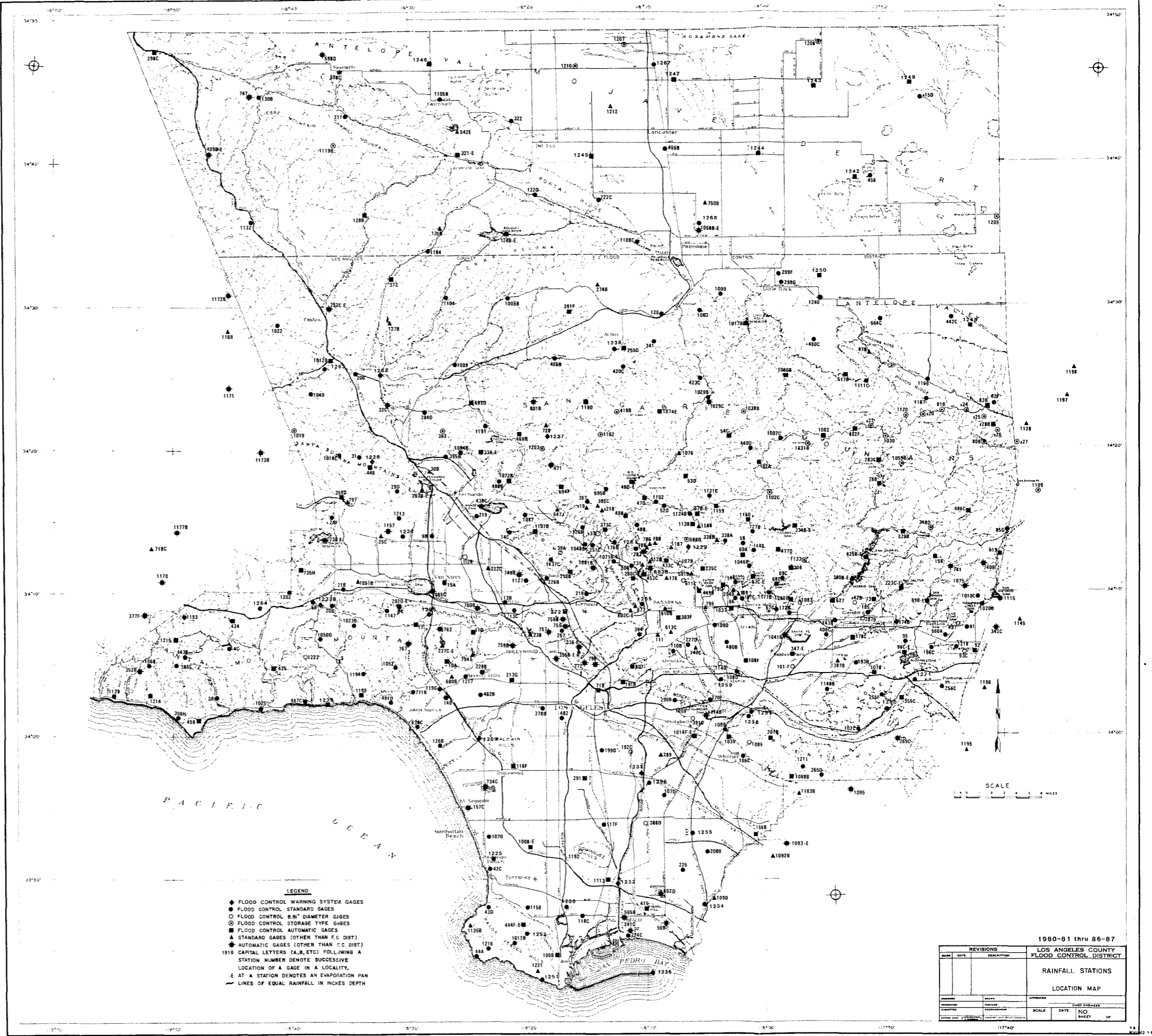
This section contains basic precipitation data collected by the Department for the water years beginning October 1, 1980 and ending September 30, 1987. The Department collected rainfall data from 478 stations. Daily and monthly rainfall totals for the stations listed herewith are available in Hydraulic/Water Conservation Division - Hydrologic Records Unit files.

RAINFALL

The County-wide rainfall index for each water year shown herein is calculated from the indices for eight regions representing the County geographic areas and proportioned to the area of each region. The indices for the eight regions are calculated from the monthly rainfall totals for 34 stations. Generally, the Department uses a 5 p.m. time of reading. Daylight Savings Time was observed for the period from the last Sunday of April to the last Sunday of October in each year.

COOPERATION

The cooperation of observers in furnishing data to the Department 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 this data have resulted in the large number of complete records for the seasons covered by this report.



- LEGEND**
- ◆ FLOOD CONTROL WARNING SYSTEM GAGES
 - FLOOD CONTROL STANDARD GAGES
 - FLOOD CONTROL 8.8" DIAMETER GAGES
 - ⊙ FLOOD CONTROL STORAGE TYPE GAGES
 - FLOOD CONTROL AUTOMATIC GAGES
 - ▲ STANDARD GAGES (OTHER THAN F.C. DIST)
 - ◆ AUTOMATIC GAGES (OTHER THAN F.C. DIST)
 - 1918 CAPITAL LETTERS (A, B, ETC) FOLLOWING A STATION NUMBER DENOTE SUCCESSIVE LOCATION OF A GAGE IN A LOCALITY.
 - .E AT A STATION DENOTES AN EVAPORATION PAN
 - LINES OF EQUAL RAINFALL IN INCHES DEPTH

SCALE
0 1 2 3 4 5 MILES

REVISIONS		1980-81 thru 86-87	
DATE	DESCRIPTION	LOS ANGELES COUNTY FLOOD CONTROL DISTRICT	
		RAINFALL STATIONS	
		LOCATION MAP	
APPROVED	DATE	SCALE	NO. OF SHEETS

ACTIVE RAINFALL STATIONS

1980 - 87

STA. NO.	STATION NAME	TYPE OF GAGE	ELEV. OF GAGE	THOMAS GUIDE	NORTH LATITUDE	WEST LONGITUDE	L O C
2B	ESCONDIDO CANYON	S	1050	112 E3	34-02-55	118-46-25	B
5B	CALABASAS	S	924	100 F3	34-09-24	118-38-14	D
6	TOPANGA PATROL STATION	A	745	109 C5	34-05-03	118-35-57	B
9B	SEPULVEDA AND RAYEN	S	828	8 C8	34-13-52	118-28-04	D
10A	BEL AIR HOTEL	A	585	32 E5	34-05-13	118-26-45	B
11D	UPPER FRANKLIN CANYON RESERVOIR	SP A	867	33 B1	34-07-10	118-24-35	B
13B	NORTH HOLLYWOOD-BLIX	S	593	23 F4	34-09-23	118-21-56	D
13C	NORTH HOLLYWOOD-LAKESIDE	S	550	23 F4	34-08-46	118-21-13	D
14C	ROSCOE-MERRILL	S	1050	9 E5	34-14-19	118-21-32	D
15A	VAN NUYS	S	695	15 D6	34-10-48	118-27-03	D
17	SEPULVEDA CANYON AT MULHOLLAND HIGHWAY	S A	1425	22 F5	34-07-51	118-29-26	B
20B	GIRARD RESERVOIR	S	986	13 B3	34-09-07	118-36-36	B
21B	WOODLAND HILLS	S	875	13 D1	34-10-14	118-35-33	D
23B	CHATSWORTH RESERVOIR	SP AP	900	6 A6	34-13-44	118-37-18	D
24F	CHATSWORTH	S	948	6 B3	34-15-20	118-36-36	D
25C	NORTHRIDGE-L.A.DEPT.W&P	SP	810	7 B5	34-13-52	118-32-28	D
29D	GRANADA HILLS	S	1280	1 D6	34-17-09	118-30-59	D
30B	SYLMAR	SP	1250	2 B3	34-18-37	118-28-15	D
31	ORCUTT RANCH	S	2850	1 B1	34-19-28	118-34-14	D
32C	NEWHALL-SOLEDAD DIV.HQTRS	S AP	1243	127 C3	34-23-07	118-31-54	F
33A-E	PACOIMA DAM	S A	1500	145 F9	34-19-48	118-23-59	E
39A	SUNSET DAM	8.81	1610	17 F3	34-12-18	118-17-05	D
42C	REDONDO BEACH-CITY HALL	S	70	67 D3	33-50-43	118-23-20	A
43D	PALOS VERDES ESTATES	S	216	67 C2	33-47-58	118-23-29	A
44A	POINT VINCENTE LIGHTHOUSE	S	125	77 B3	33-44-30	118-24-38	A
46D-E	BIG TUJUNGA DAM	S A	2315	F C2	34-17-40	118-11-14	E
47D	CLEAR CREEK-CITY SCHOOL	S A	3150	F D3	34-16-38	118-10-12	E
48B	OAK WILDE	S	2175	F D4	34-14-37	118-11-07	E
50B	LA CANADA-ARROYO SECO	S	1155	19 C4	34-11-52	118-11-05	D
52D	WATERMAN GUARD STATION	S	3300	F E3	34-15-58	118-08-37	E
53D	COLBY'S	S A	3620	F F1	34-18-05	118-06-39	E
54C	LOOMIS RANCH-ALDER CREEK	A	4325	(198)	34-20-55	118-02-54	E
57B	CAMP HI HILL (OPIOS)	A	4250	F F3	34-15-18	118-05-41	E
60A	HOEGEE'S	S A	2412	20A D1	34-12-32	118-02-02	E
63C-E	SANTA ANITA DAM	S A	1400	99 F2	34-11-03	118-01-12	E

ACTIVE STATION LIST 1980-1987

STA. NO.	STATION NAME	TYPE OF GAGE	ELEV. OF GAGE	THOMAS GUIDE	NORTH LATITUDE	WEST LONGITUDE	L O C
66	SIERRA MADRE-PEGLER RANCH	S	658	28 D2	34-09-27	118-02-36	C
67G	MONROVIA-MOUNTAIN AVENUE	S	602	29 C3	34-08-46	117-59-05	C
68C	SAWPIT DAM	S A	1375	29 C1	34-10-30	117-59-07	E
73	GLENDORA-ENGLEWILD RANCH	S A	1165	87 C3	34-09-22	117-50-57	E
78B	COLDBROOK RANGER STATION	A	3280	H A2	34-17-26	117-50-26	E
80B	PRAIRIE FORK	ST	5640	H F1	34-20-20	117-41-30	E
81B	VINCENT GAP	ST	6590	(200)	34-22-26	117-45-05	E
83B	BIG PINES RECREATION PARK	S A	6860	(201)	34-22-44	117-41-20	G
85G	MT. BALDY GUARD STATION	S	4275	H F4	34-14-12	117-39-32	E
89B-E	SAN DIMAS DAM	S A	1350	95A C3	34-09-10	117-46-17	E
91	INDIAN HILL-CLAREMONT	S	1403	91 B1	34-07-22	117-43-11	C
93C	CLAREMONT-POLICE STATION	8.81	1170	91 B4	34-05-45	117-43-18	C
95	SAN DIMAS-FIRE WARDEN	S	955	89 F3	34-06-26	117-48-19	C
96C-E	PUDDINGSTONE DAM	S A	1030	89 F4	34-05-31	117-48-24	C
101F	WALNUT-PUENTE	8.81	350	48 E1	34-04-45	117-57-45	C
102C	WALNUT-PATROL STATION	S	488	97 B2	34-00-12	117-52-14	C
106C	WHITTIER CITY HALL	S	340	55 E5	33-58-27	118-01-57	A
107D	DOWNEY-FIRE DEPARTMENT	S	110	60 A5	33-55-48	118-08-47	A
108D	EL MONTE FIRE STATION	S	275	38 D6	34-04-30	118-02-30	C
109D	WEST ARCADIA	S	547	28 A6	34-07-42	118-04-22	C
110B	ALHAMBRA	S	533	37 B3	34-05-40	118-07-41	C
111	SOUTH PASADENA-CITY HALL	SP	690	37 A1	34-06-58	118-09-05	C
116F	INGLEWOOD-FIRE STATION	S A	153	57 A1	33-57-53	118-21-22	A
117F	COMPTON-FIRE STATION	S	78	64 F3	33-53-42	118-13-34	A
118C	WILMINGTON	S	40	74 C3	33-47-27	118-15-30	A
119G	SAWTELLE-SOLDIERS' HOME	S	345	41 D2	34-03-21	118-27-20	A
120	VINCENT PATROL STATION	S	3135	189 J1	34-29-17	118-08-27	F
122G	LEONA VALLEY-RACKETT RANCH	S	3300	(170)	34-37-52	118-19-22	H
124B-E	BOUQUET CANYON RESERVOIR	AP	3050	(169)	34-35-14	118-21-45	F
125B	SAN FRANCISQUITO CANYON POWER HOUSE NO.1	SP	2105	(179)	34-35-25	118-27-15	F
126B	VENICE-FIRE STATION	S	55	49 D4	33-59-32	118-27-39	A
127B	DRY CANYON RESERVOIR	SP	1511	124 D1	34-28-55	118-31-32	F
128B	ELIZABETH LAKE-WARM SPRINGS CAMP	S A	2075	(168)	34-36-28	118-33-40	F
130B	SANDBERG-QUAIL LAKE PATROL STATION	S	4025	(142)	34-44-37	118-42-43	F
140	SAWTELLE	AP	250	41 D3	34-02-43	118-26-55	A
143B	AZUSA-CITY PARK	S	610	86 D5	34-08-03	117-54-17	C
144	SIERRA MADRE DAM	S	1100	99 D3	34-10-34	118-02-32	E
156B	LA MIRADA-STANDARD OIL	A	75	83 A4	33-52-59	118-01-00	A
157C	EL SEGUNDO-STANDARD OIL	S AP	150	56 A6	33-54-57	118-25-05	A
158	TANBARK FLATS	SP A	2750	H D5	34-12-20	117-45-40	E

ACTIVE STATION LIST 1980-1987

STA. NO.	STATION NAME	TYPE OF GAGE	ELEV. OF GAGE	THOMAS GUIDE	NORTH LATITUDE	WEST LONGITUDE	L O C
167C	ARCADIA PUMPING PLANT NO.1	S	611	28 E2	34-09-31	118-02-02	C
169	SIERRA MADRE PUMPING PLANT	SP	700	28 D1	34-09-47	118-02-21	C
170F	POTRERO HEIGHTS	S	285	47 A4	34-02-32	118-04-44	C
172B	DUARTE	S	548	29 E4	34-08-28	117-58-04	C
174B	GLENDORA-WARREN	S	930	87 E6	34-07-43	117-49-08	C
175B	LA CANADA IRRIGATION DISTRICT	S	2020	19 A1	34-13-39	118-12-40	D
176	ALTADENA-RUBIO CANYON	SP	1125	20 A5	34-10-55	118-08-15	C
178C	AZUSA VALLEY WATER CO.	A	620	88 F2	34-06-38	117-52-50	C
179G	BAILEY DEBRIS BASIN	A	1180	20A B3	34-10-25	118-03-38	E
185	GLENDORA-WEST	S	822	87 B5	34-08-23	117-51-33	C
191B	LOS ANGELES-ALCAZAR	S A	400	45 B2	34-03-46	118-11-54	A
192C	BELL-FIRE STATION	8.81	145	53 C5	33-58-45	118-11-16	A
193B	COVINA-TEMPLE	S	580	93 C1	34-04-57	117-52-29	C
196C	LA VERNE-FIRE STATION	S	1050	90 D3	34-06-06	117-46-20	C
199D	HUNTINGTON PARK	S	175	52 E5	33-59-00	118-13-47	A
200	SAUGUS-SCE CO. SUBSTATION	S	1096	123 H8	34-25-21	118-34-26	F
201D	HACIENDA HEIGHTS	A	875	85 C3	33-59-40	117-59-28	A
208B	ARTESIA	S	52	81 A1	33-51-48	118-04-58	A
210B	BRAND PARK	A	1250	18 B5	34-11-18	118-16-20	D
213G	LOS ANGELES-HANCOCK PARK	A	200	42 F1	34-03-52	118-21-17	A
216	GLENDALE-JONES	S	615	25 D2	34-09-54	118-15-01	D
219	PACOMA WAREHOUSE-COUNTY FORESTRY	S	955	9 B3	34-15-21	118-24-24	D
222C	NORTH HOLLYWOOD PUMPING PLANT	SP	717	16 C4	34-11-39	118-23-17	D
223C-E	BIG DALTON DAM	S A	1587	87 F1	34-10-06	117-48-36	E
224C	LONG BEACH-ALAMITOS LAND CO.	S	220	75 C5	33-46-01	118-11-48	A
225	MONTANA RANCH	S	47	71 C3	33-50-35	118-07-09	A
226B	BURBANK-FIRE STATION	S	680	17 E5	34-10-58	118-18-23	D
227D	SAN GABRIEL-BRUNINGTON-ORTON	S	472	37 D2	34-06-18	118-06-32	C
228B	BEVERLY HILLS-CITY HALL	S AP	255	33 C6	34-04-27	118-23-57	A
235C	HENNIGER FLATS	A 8.81	2550	20 F4	34-11-38	118-05-17	E
237C	STONE CANYON RESERVOIR	SP	865	32 D2	34-06-21	118-27-13	B
238	HOLLYWOOD DAM	SP	750	34 C1	34-07-04	118-19-55	B
241C	LONG BEACH-CITY HALL	S AP	116	75 C5	33-46-12	118-11-32	A
250D	ACTON CAMP	S A	2625	189 E6	34-27-02	118-11-55	F
251C	LA CRESCENTA	S	1440	18 D1	34-13-20	118-14-40	D
252C-E	CASTAIC DAM	SP AP	1150	(178)	34-29-53	118-36-53	F
255F	MT. SAN ANTONIO COLLEGE	S	720	93 C4	34-02-41	117-50-19	C
256C	POMONA-FIRE STATION	S	844	94 E3	34-03-16	117-45-10	C
257	GRIFFITH PARK NURSERY	S	850	35 A1	34-07-18	118-17-04	B
259D	CHATSWORTH-TWIN LAKES	S A	1275	122 D6	34-16-43	118-35-41	D

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STA. NO.	STATION NAME	TYPE OF GAGE	ELEV. OF GAGE	THOMAS GUIDE	NORTH LATITUDE	WEST LONGITUDE	L O C
261F	ACTON-ESONDIDO CANYON	A	2960	181 H9	34-29-42	118-16-22	F
265D	PUENTE HILLS-WEISEL RANCH	S	645	98A C2	33-57-08	117-55-26	A
272F	GENE AUTRY MUSEUM	A		25 A4	34-08-	118-16-	B
269C	DIAMOND BAR-HORSE CAMP	SP AP	870	97 F2	33-59-40	117-48-54	A
274B	ACTON-HUBBARD	SP	3490	182 B5	34-31-31	118-13-58	F
277	SAWMILL MOUNTAIN	S	3700	(155)	34-43-15	118-35-00	H
278B	LOS ANGELES-CLARK MEMORIAL LIBRARY	S	203	43 D5	34-02-00	118-18-46	A
280C	FLINTRIDGE-SACRED HEART	A	1600	19 D6	34-10-54	118-11-08	D
283C	CRYSTAL LAKE	S A	5370	H B1	34-19-02	117-50-28	E
284D	PLACERITA CANYON	S	1485	127 G4	34-22-37	118-28-43	F
287B	GLENDORA-CITY HALL	8.81	785	87 B5	34-08-09	117-51-52	C
289	LAGUNA-BELL-SCE CO. SUBSTATION	SP	140	54 A5	33-58-37	118-08-48	A
290B	MONTEREY PARK-FIRE STATION	S	305	46 B4	34-02-27	118-07-42	A
291	LOS ANGELES-96th AND CENTRAL	A	121	58 C3	33-56-56	118-15-17	A
292D	ENCINO RESERVOIR	S A	1075	21 D3	34-08-56	118-30-57	B
293B	LAKE LOS ANGELES (VAN NORMAN LAKE-LOWER)	SP	1150	2 A3	34-17-18	118-28-54	D
294B	SIERRA MADRE-MIRA MONTE PUMPING PLANT	SP	985	28 C1	34-10-11	118-02-51	C
298C	GORMAN-SHERIFF	S A	3835	(141)	34-47-47	118-51-27	H
299F	LITTLE ROCK-SCHWAB	S	2800	184 F6	34-32-12	117-58-43	H
303F	PASADENA-CAL TECH	S A	800	27 C5	34-08-14	118-07-25	C
304	SAWPIT CANYON-DEER PARK	A	2690	20B E4	34-11-38	117-57-52	E
306H	ZUMA BEACH	S	15	110 A5	34-01-15	118-49-42	B
321-E	PINE CANYON PATROL STATION	S A	3286	157 D7	34-40-24	118-25-45	H
322	MJNTZ VALLEY RANCH	S	2600	(145A)	34-42-50	118-21-15	H
334B-E	COGSWELL DAM	S A	2300	G D4	34-14-37	117-57-35	E
336	SILVER LAKE RESERVOIR	SP AP	445	25 C3	34-06-08	118-15-54	A
338A	MOUNT WILSON-OBSERVATORY	S	5675	20A C1	34-13-32	118-03-21	E
338B	MOUNT WILSON-AIRWAYS	SP	5709	20A B1	34-13-36	118-03-57	E
341	ALISO CANYON-BLUM RANCH	S	2900	189 J3	34-27-33	118-09-20	F
342C	UPLAND-EUCLID PUMP PLANT	S AP	1610	91 E2	34-07-33	117-40-52	C
347-E	BALDWIN PARK EXPERIMENTAL STATION	S A	386	39 E4	34-05-36	117-57-40	C
348D	EAST FORK RANGER STATION	ST	2075	H D4	34-14-20	117-46-09	E
352B	LECHUZA PATROL STATION	S AP	1620	105 B6	34-04-38	118-52-47	B
355B	LOS ANGELES-CITY COLLEGE	S AP	310	34 F4	34-05-14	118-17-28	A
356C	SPADRA PACIFIC COLONY(LANTERMAN)	S A	690	93 F4	34-02-31	117-48-35	C
363	WILSON CANYON	ST	3175	128 B7	34-21-17	118-27-00	D
365C	MOUNT LUKENS	SP	5040	11 E1	34-16-05	118-14-06	E
367	HAINES CANYON-UPPER	S	3440	11 C2	34-16-18	118-15-07	E
372	SAN FRANCISQUITO POWER HOUSE NO.2	SP A	1580	(179)	34-32-02	118-31-27	F
373C	BRIGGS TERRACE	S A	2200	11 F5	34-14-17	118-13-27	E

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377F	LAKE SHERWOOD ESTATES	SP AP	960	103 B4	34-08-26	118-52-31	B
379B	SAN GABRIEL-EAST FORK	S A	1600	H C4	34-14-09	117-48-18	E
386C	ZUMA CANYON-OAKLEY	S	1500	106 A5	34-04-58	118-49-38	B
387B	COVINA CITY YARD	SP	508	88 D5	34-05-02	117-53-57	C
388D	PARAMOUNT-COUNTY FIRE DEPARTMENT	8.81	80	65 E5	33-53-50	118-10-02	A
390B-E	MORRIS DAM	SP	1210	86 F1	34-10-53	117-52-43	E
391C	MONTEBELLO FIRE DEPARTMENT	8.81	250	46 E6	34-01-08	118-06-15	A
394	HIGHLAND PARK-LINDSAY	S	620	36 D1	34-07-06	118-10-39	C
395B	OLIVE VIEW SANITARIUM	S	1425	2 D1	34-19-29	118-26-55	D
402F	CEDAR SPRINGS	A	6780	(199)	34-21-21	117-52-34	E
405B	SOLEDAD CANYON	S	2150	188 F6	34-26-23	118-17-33	F
406C	WEST AZUSA	S	505	88 C2	34-06-53	117-54-56	C
409B-E	PYRAMID RESERVOIR	SP AP	2505	(154)	34-40-34	118-46-47	F
415	SIGNAL HILL-CITY HALL	S A	140	75 E2	33-47-49	118-10-03	A
419B	SANTA CLARA RIDGE-MOUNT GLEASON	ST	5420	(196)	34-22-36	118-12-23	E
420C	ACTON-COLOMBO RANCH	S	3000	189 F8	34-25-41	118-11-52	F
423C	ANGELES FOREST-ALISO CANYON(WAGON WHEEL)	S	3920	(190A)	34-24-57	118-05-26	F
425B-E	SAN GABRIEL DAM	S A	1481	H A5	34-12-19	117-51-38	E
433C	FAIR OAKS DEBRIS BASIN	A	1585	20 B3	34-12-15	118-08-18	E
434	AGOURA	S A	800	101 A5	34-08-08	118-45-08	B
435	MONTE NIDO	S A	600	108 A6	34-04-41	118-41-35	B
436C	HANSEN DAM	AP	1110	9 C2	34-16-08	118-23-59	D
440D	CHILAO-U.S.F.S. CAMP	S	5220	G B1	34-20-00	118-01-23	E
442C	MESCAL CREEK	S	3570	(194)	34-29-05	117-44-10	H
443B	LATIGO CANYON-BEACH RANCH	S	1700	106 B4	34-05-35	118-48-52	B
444F-E	ROLLING HILLS-SO.COAST BOTANICAL GARDENS	S A	400	73 B4	33-47-00	118-20-35	A
446	ALISO CANYON-OAT MOUNTAIN	S A	2367	1 A2	34-18-53	118-33-25	D
447C	CARBON CANYON	S	50	114 D4	34-02-18	118-38-56	B
449B	EATON WASH DAM	S A	880	27 E1	34-10-06	118-05-33	C
453C	DEVILS GATE DAM	S A	1090	19 D6	34-11-08	118-10-19	C
455B	LANCASTER STATE HWY MAINTENANCE STA.	S	2395	160 B5	34-40-57	118-08-02	H
456	PIUTE BUTTE	S	2680	171 H1	34-39-02	117-50-57	H
458	ZUMA CANYON PATROL STATION	A	115	110 C4	34-01-10	118-47-46	B
460C	PLEASANT VIEW MESA	S	3960	192 A3	34-27-40	117-55-51	H
462B	HILLCREST COUNTRY CLUB-LOS ANGELES	S	185	42 B3	34-02-54	118-24-06	A
465C	SEPULVEDA DAM	AP	683	22 B1	34-10-06	118-28-11	D
466B	PACOMA CANYON-DUTCH LOUIE	A	3220	(195)	34-21-07	118-20-38	E
471	LITTLE TUJUNGA-GOLD CREEK	AP	2750	F D5	34-18-57	118-18-02	E
477D	SANTA ANITA-SPRING CAMP	S A	4655	G B4	34-12-52	117-58-56	E
478	VALYERMO-U.S.F.S.HEADQUARTERS	SP	3710	201 H4	34-26-44	117-51-10	G

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STA. NO.	STATION NAME	TYPE OF GAGE	ELEV. OF GAGE	THOMAS GUIDE	NORTH LATITUDE	WEST LONGITUDE	L O C
480B	TEMPLE CITY FIRE STATION	S	404	38 C2	34-06-31	118-03-25	C
482	LOS ANGELES-U.S.C.	S	208	44 A6	34-01-14	118-17-15	A
486C	WALKER RANCH	A	3720	H E3	34-15-30	117-42-57	E
488B	KAGEL CANYON PATROL STATION	S	1450	3 E4	34-17-45	118-22-30	E
491D	PACIFIC PALISADES	S	293	40 C4	34-02-22	118-31-43	A
492A	CHILAO-STATE HIGHWAY MAINTENANCE STA.	A	5280	G C1	34-19-02	118-00-30	E
493D	SAND CANYON-MCMILLAN RANCH	S A	1805	145 D3	34-23-17	118-24-50	F
497	CLAREMONT-SLAUGHTER	8.81	1350	91 A1	34-07-35	117-43-55	C
498	DARK CANYON TRAIL-ANGELES CREST HIGHWAY	A	2800	F C3	34-15-21	118-11-45	E
517B	LEWIS RANCH	S A	4615	(192A)	34-25-12	117-53-11	G
542E	FAIRMONT	SP	3050	(145)	34-42-15	118-25-40	H
560A	LA VERNE HEIGHTS	S	1210	90 E2	34-06-48	117-45-02	C
564C	LLANO	S	3390	159 H8	34-29-13	117-50-02	H
565B	LONG BEACH-CITY AUTOMATIC	AP	11	75 B3	33-47-16	118-12-08	A
566	LONG BEACH NO.1	SP AP	15	76 A4	33-46-46	118-08-36	A
588D	MOUNT LOWE	ST	4435	F F5	34-13-37	118-06-33	E
591B	SANTA ANITA RESERVOIR	SP	1205	27 E1	34-11-08	118-06-16	C
598C	NEENACH-ERSTAD	S	3062	(143)	34-46-28	118-35-55	H
598D	NEENACH-CHECK 43-CALIFORNIA D.W.R.	SP AP	2965	(143)	34-47-40	118-37-15	H
610B	PASADENA-CITY HALL	SP	864	27 A4	34-08-54	118-08-36	C
611C	ALTADENA GOLF COURSE-DEBRIS BASIN	8.81	1186	20 C6	34-10-48	118-07-01	C
612B	PASADENA-CHLORINE PLANT	SP	1160	36 A5	34-12-04	118-09-49	E
613C	PASADENA-HURLBUT FIRE STATION	SP	779	27 B5	34-07-15	118-08-05	C
619	SAN ANTONIO CANYON-SIERRA POWER HOUSE	A	3110	H F5	34-12-29	117-40-26	E
627	SAN GABRIEL CANYON-POWER HOUSE	SP A	744	86 D4	34-09-20	117-54-28	C
634C	SANTA MONICA	S	94	49 A1	34-00-43	118-29-27	A
647J	TUJUNGA	SP	1685	10 F3	34-15-45	118-17-34	D
662D	LONG BEACH AIRPORT-W.S.O.	AP	34	71 A5	33-49-	118-09-	A
672	EAGLE ROCK-S.C.E. CO. SUBSTATION	SP	950	26 C5	34-09-02	118-10-57	C
680B	WESTWOOD-U.C.L.A.	SP	430	41 E1	34-04-10	118-26-30	A
683B	SUNSET RIDGE	S AP	2110	20 A1	34-12-53	118-08-47	E
694F	BIG TUJUNGA CANYON-CAMP 15	A	1525	F A2	34-17-22	118-17-17	E
695B	TUJUNGA CANYON-VOGEL FLAT	S	1850	F B2	34-17-12	118-13-32	E
716	LOS ANGELES-DUCOMMUN ST.	SP A	306	44 E3	34-03-09	118-14-13	A
718C	THOUSAND OAKS WEATHER STATION	SP	800	V.CO.	34-13-06	118-51-56	B
722C	BELLEVUE	S	2880	171 B5	34-37-23	118-13-55	H
727B	NEWCOMB PASS	S	4025	(198)	34-14-17	118-01-04	E
728	PACOIMA CANYON-CITY ROAD GAGE	SP	3175	145 G6	34-21-42	118-18-25	E
731	OAK GROVE HDQTRS-U.S.F.S.FLOOD CONTROL	SP	1080	19 D4	34-11-47	118-10-29	E
734C	LOS ANGELES INTERNATIONAL AIRPORT	SP AP	105	56 C3	33-56-25	118-23-44	A

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735H	BELL CANYON	A	895	5 D4	34-11-40	118-39-23	D
740B	SAN DIMAS CANYON-FERN NO.2	AP	5200	H E6	34-11-48	117-41-45	E
741	SAN DIMAS CANYON-UPPER EAST FORK	AP	2675	H D5	34-11-41	117-44-26	E
742C	SAN GABRIEL-FIRE DEPARTMENT	SP	445	37 E3	34-06-11	118-05-56	C
747	SANDBERG-AIRWAYS STATION	AP AP	4517	(142)	34-44-47	118-43-29	F
749B	BURBANK	SP AP	655	17 A5	34-11-11	118-20-54	D
750B	PALMDALE-F.A.A. AIRPORT	SP	2528	172 J6	34-37-20	118-05-00	H
755	GRIFFITH PARK-LITTLE CANYON	AP	900	25 A6	34-07-32	118-16-58	B
757	GRIFFITH PARK-FERN DELL	AP	750	34 E1	34-07-12	118-18-20	B
758B	GRIFFITH PARK-LOWER SPRING CANYON	AP	455	25 A5	34-08-10	118-17-02	B
759B	NICHOLS DEBRIS BASIN	AP	440	33 F3	34-06-10	118-21-23	B
760B	STUDIO CITY-BEEMAN AVENUE	AP	627	23 B4	34-08-58	118-24-24	B
762	UPPER STONE CANYON	AP	943	32 D1	34-07-27	118-27-15	B
767	MANDEVILLE CANYON ROAD	SP AP	1160	30 F1	34-06-24	118-30-10	B
771B	PACIFIC PALISADES-RIVIERA COUNTRY CLUB	S	315	40 F2	34-03-03	118-29-58	A
772	LOS ANGELES-ECHO PARK AND LUCRETIA	AP	475	35 C3	34-05-02	118-15-11	A
783	COON CANYON	SP AP	1350	19 D2	34-12-47	118-10-12	E
786	COON CANYON	SP	2250	19 D3	34-13-18	118-09-47	E
788	COON CANYON	SP	1710	19 D3	34-12-56	118-10-00	E
789	EL PRIETO CANYON	SP	2325	19 F1	34-13-32	118-09-19	E
794E	LOWER FRANKLIN RESERVOIR	SP	585	33 B3	34-05-43	118-24-40	B
795	PASADENA-JOURDAN	SP	705	27 F4	34-08-52	118-05-14	C
796	ELYSIAN PARK-FIRE DEPARTMENT	AP	757	35 E5	34-04-55	118-14-22	A
797	DE SOTO RESERVOIR	SP	1127	6 D1	34-16-17	118-35-12	D
801B	MAGIC MOUNTAIN	AP	4720	(195)	34-23-18	118-19-27	E
802C-E	EAGLE ROCK RESERVOIR	SP	970	26 C4	34-08-47	118-11-20	C
807	ASCOT RESERVOIR	SP A	620	36 C5	34-04-46	118-11-14	A
1000	HUNT CANYON-BONES RANCH	S	3263	183 H7	34-30-48	118-03-37	G
1005B	MINT CANYON FIRE STATION	S	2300	125 A7	34-30-35	118-21-40	H
1006	SAN PEDRO-CITY RESERVOIR	S A	150	78 F2	33-44-37	118-17-47	A
1007C	ANGELES CREST HIGHWAY-CAMP VALCREST	S	5920	(198)	34-20-40	117-58-41	E
1008-E	LA FRESA-S.C.E.CO. SUBSTATION	S A	65	63 C4	33-52-07	118-19-55	A
1009	MINT CANYON	S	1625	125 B7	34-26-04	118-26-06	F
1010C	PALMER CANYON-FORKS	S	2160	96 D2	34-09-32	117-42-06	E
1011B	PALOS VERDES FIRE STATION	S	1275	77 F1	33-45-25	118-21-11	A
1012B	CASTAIC JUNCTION	S A	1005	123 E6	34-26-18	118-36-43	F
1014F-E	RIO HONDO SPREADING GROUNDS	S A	170	54 D3	33-59-57	118-06-04	A
1017B	LITTLE ROCK CREEK ABOVE DAM	A	3280	(191)	34-28-41	118-01-24	G
1018C	OAT MOUNTAIN LOOKOUT	S	3740	1A C1	34-19-45	118-36-00	D
1019	SANTA SUSANA MOUNTAINS-SALT CANYON	ST	2850	126 A3	34-21-24	118-39-42	F

ACTIVE STATION LIST 1980-1987

STA. NO.	STATION NAME	TYPE OF GAGE	ELEV. OF GAGE	THOMAS GUIDE	NORTH LATITUDE	WEST LONGITUDE	L O C
1020B	PADUA HILLS PATROL STATION	S	1800	96 D4	34-08-52	117-41-55	C
1022	HASLEY CANYON	S	1725	123 A3	34-28-44	118-41-04	F
1023B	SANTA MARIA CREEK-SPEER	S	1415	13 E5	34-07-44	118-34-42	B
1025	MALIBU BEACH-DUNNE	S	160	113 E5	34-02-00	118-42-42	B
1029B	TUJUNGA-MILL CREEK SUMMIT-CO.ROAD DEPT	S	4970	(197)	34-23-25	118-04-50	E
1029C	TUJUNGA-MILL CREEK SUMMIT RANGER STATION	AP	4990	(197)	34-23-22	118-04-49	E
1030	MOUNT ISLIP-LITTLE JIMMY CAMPGROUND	ST	7520	(200)	34-20-50	117-49-57	E
1031B	MOUNT WATERMAN	ST	7960	(199)	34-20-23	117-56-21	E
1035	WHITTIER-WOOD	S A	280	55 D3	33-59-52	118-03-10	A
1037	ARCADIA-ARBORETUM	S A	565	28 C4	34-08-48	118-02-59	C
1038B	MOUNT PACIFICO	ST	6880	(198)	34-22-40	118-01-44	E
1040	POTRERO CANYON-SUNRAY DX OIL CO.	S	1150	126 E3	34-23-50	118-38-18	F
1041B	SANTA FE DAM	AP	427	39 E1	34-07-04	117-58-24	C
1046B	SANTA ANITA CANYON-CHANTRY FLAT	S	2175	20A F1	34-11-46	118-01-20	E
1048B	LA CRESCENTA-L.A.CO.ROAD DEPT.	S	1410	18 C1	34-13-27	118-15-23	D
1050D	OLD TOPANGA CANYON	S	1050	109 A3	34-06-40	118-37-41	B
1051B	CANOGA PARK-PIERCE COLLEGE	SP	800	12 E5	34-10-51	118-34-23	D
1052	CAMP JOSEPHO	S	660	40 E1	34-04-51	118-31-10	B
1058B-E	PALMDALE	SP AP	2595	172 F7	34-35-17	118-05-31	H
1059B	SOUTH MOUNT HAWKINS	ST	7700	H B1	34-18-46	117-48-32	E
1060B	LITTLE ROCK-SYCAMORE CAMP	A	4000	(191)	34-25-02	117-58-13	G
1062	BUCKHORN FLAT	A	6760	(199)	34-20-44	117-55-08	E
1063	SOLEDAD PASS	S	3520	189 E9	34-29-35	118-05-28	F
1068	RATTLESNAKE CANYON-CAMP NO.13	S	1290	(198)	34-05-00	118-51-55	B
1070	MANHATTAN BEACH	S	182	62 D4	33-53-00	118-23-19	A
1071B-E	DESCANSO GARDENS	S	1325	19 B3	34-12-07	118-12-46	D
1072B	LITTLE TUJUNGA RANGER STATION	SP A	1275	F C5	34-17-37	118-21-38	E
1074	LITTLE GLEASON	S A	5600	(197)	34-22-43	118-08-57	E
1075	UPPER WOLFSKILL	AP	3625	H E6	34-10-13	117-43-16	E
1076	MONTE CRISTO RANGER STATION	SP	3360	F E1	34-19-42	118-07-20	E
1077B	MONROVIA-FIVE POINTS	S	962	29 B1	34-09-58	117-59-37	C
1078	COVINA-GRIFFITH	S A	975	93 C1	34-04-10	117-50-47	C
1079	RUBIO DEBRIS BASIN	8.81	1653	20 C4	34-11-57	118-07-22	E
1080B	BRADBURY DEBRIS BASIN	A	935	29 D3	34-09-23	117-57-58	E
1081B	GLENDALE-GREGG	SP AP	1350	18 D4	34-11-45	118-14-30	D
1083	MADDOCK DEBRIS BASIN	8.81	905	29 F3	34-09-17	117-57-05	E
1084B	MAY DEBRIS BASIN	S	1680	2 F1	34-19-50	118-25-45	D
1086	TURNBULL DEBRIS BASIN	8.81	495	55 F4	33-59-18	118-01-30	A
1087	GREEN-VERDUGO PUMPING PLANT	S	1340	10 B3	34-15-25	118-20-11	D
1088B	LA HABRA HEIGHTS-MUTUAL WATER CO.	S A	445	84 E2	33-56-55	117-57-51	A

ACTIVE STATION LIST 1980-1987

STA. NO.	STATION NAME	TYPE OF GAGE	ELEV. OF GAGE	THOMAS GUIDE	NORTH LATITUDE	WEST LONGITUDE	L O C
1090	LOS ALAMITOS	SP	25	81 B6	33-48-35	118-04-35	A
1092B	BUENA PARK	3" P	80	0.CO.	33-51-28	117-59-29	A
1093-E	FULLERTON AIRPORT	SP AP	100	0.CO.	33-52-23	117-58-24	A
1095	ORANGE COUNTY RESERVOIR	SP AP	660	0.CO.	33-56-07	117-52-58	A
1099	WHITTIER-CATE	S	280	55 C2	34-00-20	118-03-30	A
1102C	BOBCAT CANYON-SAN GABRIEL WEST FORK	FWS	5160	G C2	34-17-02	117-59-40	E
1104	BOUQUET CANYON AT TEXAS CANYON	S	1760	(180)	34-30-35	118-27-00	F
1105B	FAIRMONT	S	2855	(145)	34-44-23	118-27-15	H
1107D	LA TUNA DEBRIS BASIN	A	1160	10 C5	34-14-13	118-19-37	D
1108C	PLATT RANCH	S	2945	171 F9	34-34-28	118-10-53	H
1109	MOUNT BALDY	ST	8650	H F2	34-16-53	117-37-00	E
1111C	DEVILS PUNCHBOWL	S	4760	(199)	34-24-48	117-51-25	G
1113	DOMINGUEZ WATER CO.	S A	30	69 F4	33-49-54	118-13-30	A
1114B	WHITTIER NARROWS DAM	AP	239	47 A6	34-01-29	118-05-02	A
1115	SAN ANTONIO DAM	AP	2120	96 F3	34-09-24	117-40-20	C
1119B	ATMORE MEADOWS	ST	4325	(155)	34-41-18	118-36-16	F
1120	DAWSON SADDLE	ST	7900	(200)	34-22-08	117-48-10	E
1121C	BARLEY FLAT	S	5525	G A3	34-16-40	118-04-40	E
1124B	RED BOX GAP	S	4625	F F3	34-15-30	118-06-18	E
1126	LOS ANGELES WATER DEPARTMENT-EAST VALLEY	8.81	780	16 A2	34-12-30	118-24-35	D
1127	WEST BURBANK	S	615	17 B6	34-10-47	118-20-07	D
1128	WRIGHTWOOD FIRE DEPARTMENT	SP	5960	S.B.CO.	34-21-34	117-37-57	G
1129	NICHOLAS CANYON	S	340	110 D3	34-02-52	118-54-57	B
1132	OAK FLAT GUARD STATION	S	2800	(166)	34-35-56	118-43-15	F
1133	FISH CANYON	ST	2600	G E6	34-12-23	117-56-43	E
1135B	LUNADA BAY	SP	250	72 A4	33-46-37	118-25-01	A
1137C	STOUGH PARK	S	1160	17 E3	34-12-17	118-18-15	D
1138	MOUNT DISAPPOINTMENT	A	5725	F F4	34-14-42	118-06-07	E
1140	ROSEMEAD	8.81	305	38 B5	34-04-53	118-03-55	C
1145	UPLAND	SP	1605	S.B.CO.	34-07-57	117-38-38	C
1146	SANTA ANITA CANYON-HELIPORT	S	2575	20A F1	34-12-52	118-01-05	E
1147	EL CABALLERO COUNTRY CLUB	S	1000	21 C3	34-08-52	118-31-53	B
1148B	SAN JOSE HILLS	S	440	92 D3	34-03-00	117-54-53	C
1152	CLEAR CREEK RANGER STATION	S	3625	F D3	34-16-15	118-09-11	E
1157	CALIFORNIA STATE UNIVERSITY-NORTHRIDGE	SP AP	890	7 C5	34-14-17	118-31-48	D
1158	TORRANCE MUNICIPAL AIRPORT	S	102	73 B2	33-47-59	118-20-08	A
1159	SHORTCUT CANYON-WEST FORK	A	4425	G B3	34-15-55	118-04-08	E
1160	SAN GABRIEL CANYON-WEST FORK HELIPORT	A	3200	G B3	34-15-02	118-01-30	E
1162	IRON MOUNTAIN	ST	5320	(196)	34-21-06	118-13-46	E
1166	MILE HIGH RANCH	S	5280	(201)	34-24-40	117-46-15	G

ACTIVE STATION LIST 1980-1987

STA. NO.	STATION NAME	TYPE OF GAGE	ELEV. OF GAGE	THOMAS GUIDE	NORTH LATITUDE	WEST LONGITUDE	L O C
1167	FENNER CANYON	S	5380	(200)	34-23-25	117-46-27	G
1169	LAKE PIRU	SP	1150	V.CO.	34-28-22	118-45-21	F
1170	WATER WORKS DISTRICT NO.6	AP	805	102A F2	34-10-44	118-51-01	B
1171	CAMULOS RANCH	SP AP	725	V.CO.	34-24-22	118-45-21	F
1172B	PIRU CANYON ABOVE PIRU LAKE	AP	1150	V.CO.	34-30-48	118-45-24	F
1173B	TAPO CANYON	AP	1525	V.CO.	34-19-54	118-42-39	D
1177B	BARD RESERVOIR	AP	1010	V.CO.	34-14-32	118-49-41	D
1183B	LA HABRA FIRE STATION	3" P	315	O.CO.	33-55-53	117-57-17	A
1187	MILLARD-CAMP SIERRA	SP	2760	20 A2	34-13-04	118-07-58	E
1188	EATON-MARKHAM SADDLE	SP	5400	F F4	34-14-31	118-05-38	E
1190	PACOIMA CANYON-NORTH FORK RANGER STA.	S A	4180	(195)	34-23-17	118-15-06	E
1191	BEAR DIVIDE	S	2700	145 F6	34-21-35	118-23-37	E
1192	CARSON FIRE STATION	8.81	92	64 C6	33-52-04	118-15-45	A
1193	WESTLAKE VILLAGE	S	885	102 A5	34-08-19	118-49-05	B
1194	SANTA YNEZ RESERVOIR	S	735	109 F6	34-04-23	118-33-59	B
1195	CHINO FIRE STATION NO.2	SP	655	S.B.CO.	33-59-00	117-43-20	C
1196	MONTCLAIR FIRE DEPARTMENT	SP	965	95 E2	34-03-41	117-41-16	C
1197	CAJON WEST SUMMIT	SP	4838	S.B.CO.	34-23-30	117-34-35	G
1198	PHELAN FIRE CONTROL	SP	4160	S.B.CO.	34-25-30	117-34-00	G
1199	CLOUDCROFT DEBRIS BASIN	A	350	122 F1	34-02-58	118-34-12	B
1202	CAMP CISQUITO	S	1135	157A D4	34-10-04	118-40-03	F
1203	LITTLE TUJUNGA-ALDER CREEK	ST	2625	F C5	34-20-03	118-18-50	E
1205	MOODY SPRING	ST	2915	(176)	34-36-04	117-40-23	H
1206	MUROC	ST	2310	(150)	34-48-26	117-55-03	H
1207	ROSAMOND-WEST	ST	2340	147 F1	34-48-14	118-11-35	H
1208	LA CRESCENTA-VIRGITH	S	1707	11 C5	34-14-30	118-15-25	D
1209	SAN JOSE CHANNEL ABOVE WORKMAN MILL ROAD	8.81	275	47 F5	34-01-55	118-06-39	C
1210	NEENACH	ST	2413	147 A4	34-46-42	118-15-48	H
1211	HACIENDA GOLF CLUB	S	750	98A A1	33-57-40	117-56-57	C
1212	LANCASTER FSS/FAA	SP	2340	159 C4	34-44-00	118-13-00	H
1213	NORTHRIDGE-DAVIS	S	950	7 D3	34-15-15	118-30-58	D
1214	ENCINAL CANYON-FIRE STATION	S A	175	111 B4	34-02-52	118-52-07	B
1215	SANTA MONICA MOUNTAINS-CAMP KILPATRICK	A	1775	105 E4	34-06-45	118-49-52	B
1216	PALOS VERDES-MONACO	S	780	72 C1	33-45-10	118-23-32	A
1217	LOS ANGELES COUNTRY CLUB	S	380	42 A1	34-04-10	118-25-17	A
1218	POMONA-CATE	S	1150	90 F4	34-05-57	117-44-05	C
1221	SAN PEDRO-BOWSER	4" P	400	78 C4	33-43-33	118-19-22	A
1222	NORTHRIDGE-GARLAND	8.81		7 E3	34-14-	118-30-	D
1223	WOODLAND HILLS-SHERMAN	8.81	1035	100 E1	34-05-29	118-38-53	D
1224	ALHAMBRA-EDISON CO.	8.81	500	37 A4	34-05-29	118-08-53	C

ACTIVE STATION LIST 1980-1987

STA. NO.	STATION NAME	TYPE OF GAGE	ELEV. OF GAGE	THOMAS GUIDE	NORTH LATITUDE	WEST LONGITUDE	L O C
1225	REDONDO BEACH-LACFCD YARD	S		67 D1	33-51-	118-23-	A
1226	ALISO CANYON	FWS	2780	1 A1	34-19-43	119-33-18	D
1227	MENDENHALL TRUCK TRAIL	FWS	4320	(195)	34-20-37	118-18-23	E
1229	INSPIRATION POINT	FWS	4480	F F5	34-13-12	118-06-27	E
1231	LOS ANGELES RIVER AT FIRESTONE BLVD	FWS	30	59 E3	33-57-03	118-10-22	A
1232	COMPTON CREEK PUMPING PLANT	FWS	45	70 B2	33-49-45	118-12-50	A
1233B	TOPANGA CANYON	FWS	1340	13 C5	34-09-15	118-38-10	B
1234	CATALINA	FWS	250		33-23-10	118-28-22	A
1236	LONG BEACH BREAKWATER	FWS	15	V	33-43-23	118-09-43	A
1238	ACTON-MEARNES	S		189 G2	34-27-05	118-12-50	F
1239	MALIBU-BIG ROCK MESA	A	725	122 B4	34-02-34	118-37-16	B
1240	PEARBLOSSOM-CALIF.D.W.R. BOOSTER STA.	SP AP	3050	185 B7	34-30-32	117-55-15	H
1241	LAS FLORES FIRE CAMP # 8	FWS	1550	114 E2	34-03-37	118-38-47	B
1242	ROCKY BUTTES	A	2540	(162)	34-39-00	117-51-48	H
1243	REDMAN	A	2360	(149)	34-45-52	117-55-30	H
1244	LANCASTER-ROPER	A	2450	161 C7	34-40-27	118-00-37	H
1245	QUARTZ HILL-HALL	A	2395	159 B7	34-40-28	118-14-40	H
1246	SCOTT RANCH	A	2710	(145)	34-46-59	118-28-10	H
1247	NORTH LANCASTER	A	2310	148 D9	34-45-41	118-07-30	H
1248	MESCAL-SMITH	A	3810	(194)	34-28-03	117-42-40	H
1249	RELAY	A	3140	(151)	34-45-43	117-47-55	H
1250	AVEK	A	2825	185 B4	34-32-21	117-55-23	H
1251	PALOS VERDES-WHITES POINT	S	100	78 D6	33-42-50	118-19-02	A
1252	PALOS VERDES LANDFILL	S	400	73 A3	33-45-40	118-20-03	A
1253	CARSON-COUNTY SANITATION	S	40	74 A2	33-48-07	118-16-58	A
1254	LONG BEACH RECLAMATION PLANT	S	20	76 F1	33-48-11	118-05-20	A
1255	LOS COYOTES RECLAMATION PLANT	S	70	66 E4	33-53-05	118-06-24	A
1256	SOUTH GATE TRANSFER STATION	S	100	59 E3	33-56-40	118-09-56	A
1257	SAN JOSE CREEK RECLAMATION PLANT	S	275	47 F5	34-01-55	118-01-16	C
1258	PUENTE HILLS LANDFILL	S	300	47 F6	34-01-35	118-01-49	C
1259	WHITTIER NARROWS RECLAMATION PLANT	S	225	47 B5	34-03-59	118-03-54	C
1260	SPADRA LANDFILL	S	700	93 E4	34-02-36	117-49-50	C
1261	LA CANADA RECLAMATION PLANT	S	1800	19 D2	34-13-00	118-11-14	D
1262	SAUGUS RECLAMATION PLANT	S	1150	124 B8	34-24-48	118-32-23	F
1263	VALENCIA RECLAMATION PLANT	S	1000	123 G7	34-25-55	118-37-13	G
1264	CALABASAS LANDFILL	S	800	100A E4	34-08-25	118-42-35	F
1265	SCHOLL CANYON LANDFILL	S	1000	26 C3	34-08-38	118-11-07	D
1266	MISSION CANYON LANDFILL	S	1150	32 A2	34-07-37	118-28-45	F
1267	LANCASTER RECLAMATION PLANT	S	2302	(145)	34-46-38	118-09-11	H
1268	PALMDALE RECLAMATION PLANT	S	2565	172 G6	34-35-30	118-05-10	H

ACTIVE STATION LIST 1980-1987

STA. NO.	STATION NAME	TYPE OF GAGE	ELEV. OF GAGE	THOMAS GUIDE	NORTH LATITUDE	WEST LONGITUDE	L O C
1269	BALLONA CR. AT SAWTELLEA	A	38	50 B3	33-59-54	118-24-05	A
1271	POMONA WASTE RECLAMATION PLANT	S		94 B3	34-03-18	117-47-34	C
X15D	HI VISTA	S	3087	(151)	34-44-31	117-46-43	H
X22	ISLIP SADDLE	ST	6680	(199)	34-21-27	117-51-05	E
X23	DORR CANYON	ST	7280	(200)	34-22-16	117-46-51	G
X24	GRASSY HOLLOW	ST	7360	(201)	34-22-30	117-43-05	E
X25	BEAR GULCH	ST	7880	(201)	34-21-58	117-41-27	G
X26	BLUE RIDGE CAMP	ST	8450	(201)	34-20-57	117-40-23	E
X27	GUFFY'S CAMP	ST	8080	(201)	34-20-20	117-38-55	G
X288	HOLIDAY HILL	A	8130	(201)	34-21-29	117-40-54	G
X45	BELL CANYON-BURRO FLATS	FWS	2185	4 A5	34-13-43	118-41-25	B

LEGEND REGARDING GAGE TYPE, OWNERSHIP, AND RAINFALL AMOUNTS.

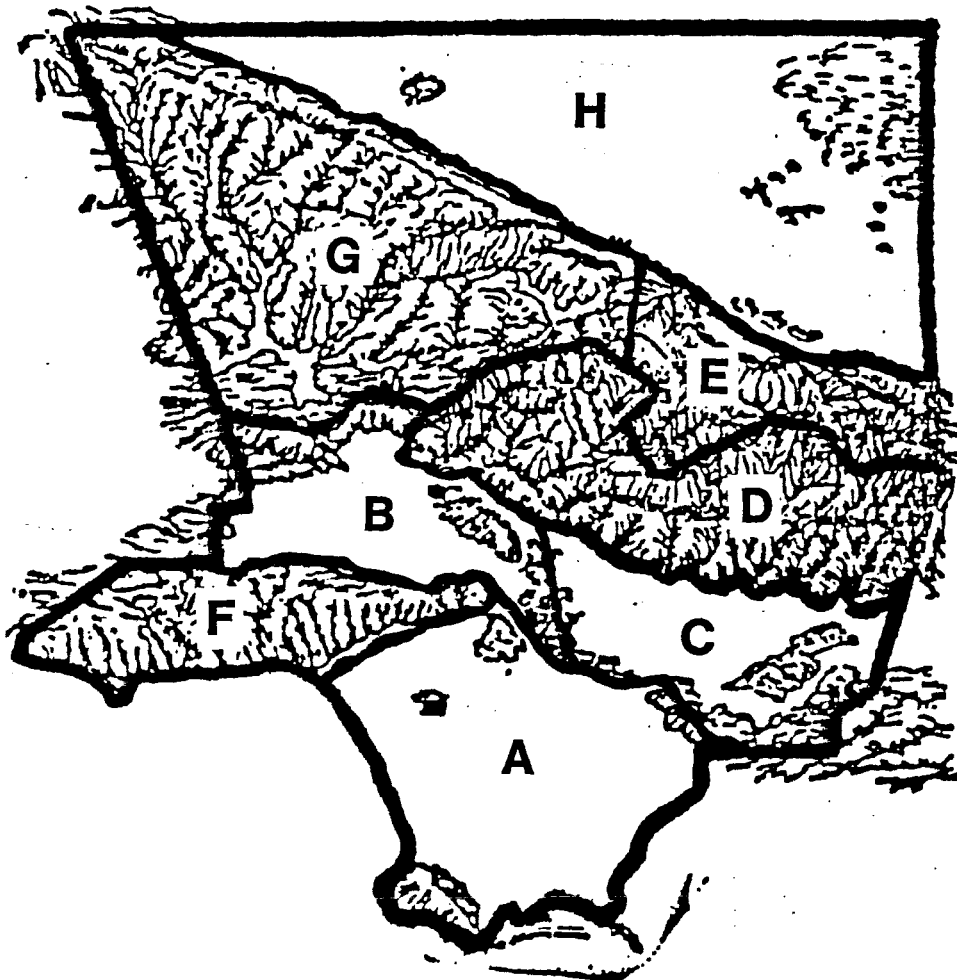
S	STANDARD 8" DIAMETER NON RECORDING GAGE OWNED BY FLOOD CONTROL DISTRICT
A	AUTOMATIC RECORDING GAGE OWNED BY FLOOD CONTROL DISTRICT
FWS	FLOOD WARNING GAGE OWNED BY FLOOD CONTROL DISTRICT
ST	STORAGE TYPE GAGE OWNED BY FLOOD CONTROL DISTRICT
8.81"	8.81" DIAMETER NON RECORDING GAGE OWNED BY FLOOD CONTROL DISTRICT
3"P	3" NON RECORDING GAGE OWNED BY OUTSIDE INTERESTS
4 1/2"P	4 1/2" NON RECORDING GAGE OWNED BY OUTSIDE INTERESTS
SP	8" DIAMETER NON RECORDING GAGE OWNED BY OUTSIDE INTERESTS
AP	AUTOMATIC RECORDING GAGE OWNED BY OUTSIDE INTERESTS
SUFFIX B OR C	DENOTES SECOND OR THIRD LOCATION OF STATION IN SAME AREA
SUFFIX E	DENOTES EVAPORATION PAN AT STATION
*	ESTIMATED GREATER THAN 10% OF TOTAL
**	ESTIMATED LESS THAN 10% OF TOTAL
INC.	INCOMPLETE RECORD
N.I.	NOT INSTALLED
N.R.	NO RECORD
DISC.	DISCONTINUED
()	THOMAS GUIDE FUTURE PAGE ASSIGNMENT
O.CO.	ORANGE COUNTY THOMAS GUIDE PAGE
V.CO.	VENTURA COUNTY THOMAS GUIDE PAGE

HISTORICAL SEASONAL RAINFALL INDICES

FOR

SELECTED AREAS IN LOS ANGELES COUNTY

REGION	RECENT OF	SEASONAL NORMAL PRECIP.	TOTAL PRECIPITATION (INCHES)						
			80-81	81-82	82-83	83-84	84-85	85-86	86-87
A. Coastal Plain	14.10	13.71	8.04	12.20	29.23	9.32	11.22	19.09	5.78
B. San Fernando Valley	7.90	17.62	11.28	17.16	40.71	10.29	11.94	22.27	6.31
C. San Gabriel Valley	7.50	17.64	10.18	18.64	37.95	10.37	14.49	21.50	8.96
D. San Gabriel Mts.	13.40	27.50	15.42	33.79	59.05	16.25	21.24	32.10	12.92
E. Little Rock, Big Rock	4.50	18.61	10.63	20.96	43.84	12.87	14.19	22.61	12.45
F. Santa Monica Mts.	5.70	19.96	12.71	17.72	44.32	12.66	14.26	27.27	6.99
G. Santa Clara	18.90	16.64	9.72	17.95	36.76	9.77	12.13	20.73	7.73
H. Desert	28.00	7.83	4.73	9.77	8.50	5.44	7.35	8.22	5.25
COUNTY	100.00	15.65	9.27	17.06	34.75	9.75	12.26	19.17	7.61



EVAPORATION





EVAPORATION

Data for 18 active evaporation stations were reported to the Department during the 1980-87 seasons. Daily records of active and inactive Department stations, as well as some stations of other agencies, are available in the Department's files. Monthly and seasonal evaporation has been published in the Department's Annual or Biennial Reports on Hydrological Data since the 1931-32 season.

COOPERATION

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

LENGTH OF RECORD

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

EVAPORATION STATION LIST 1980-1987

STA. NO.	STATION NAME	EQUIPMENT	ELEVATION OF PAN	THOMAS GUIDE	NORTH LATITUDE	WEST LONGITUDE
33 AE	PACOIMA DAM	24X36 S	1500	145 F9	34-19-48	118-23-59
46 DE	BIG TUJUNGA DAM	24X36 S	2315	F C2	34-17-40	118-11-14
63 CE	SANTA ANITA DAM	24X36 S	1400	99 F2	34-11-03	118-01-12
89 BE	SAN DIMAS DAM	24X36 S	1350	95A C3	34-09-10	117-46-17
96 CE	PUDDINGSTONE DAM	24X36 S	1030	89 F4	34-05-31	117-48-24
223 CE	BIG DALTON DAM	24X36 S	1587	87 F1	34-10-06	117-48-36
252 CE	CASTAIC DAM	48X10 S	1150	(178)	34-29-53	118-36-53
321 E	PINE CANYON PATROL STATION	24X36 S	3286	157 D7	34-40-24	118-25-45
334 BE	COGSWELL DAM	24X36 S	2300	G D4	34-14-37	117-57-35
347 E	BALDWIN PARK EXPER. STATION	24X36 S	386	39 E4	34-05-36	117-57-40
390 BE	MORRIS DAM	72X36 US	1210	86 F1	34-10-53	117-52-43
409 BE	PYRAMID RESERVOIR	48X10 S	2505	(154)	34-40-34	118-46-47
425 BE	SAN GABRIEL DAM	24X36 S	1481	H A5	34-12-19	117-51-38
444 FE	ROLLING HILLS-SO.COAST BOTANICAL GARDENS	24X36 S	400	73 B4	33-47-00	118-20-35
1008 E	LA FRESA-S.C.E.CO. SUBSTATION	24X36 S	65	63 C4	33-52-07	118-19-55
1014 FE	RIO HONDO SPREADING GROUNDS	24X36 S	170	54 D3	33-59-57	118-06-04
1058 BE	PALMDALE	24X36 S	2595	172 F7	34-35-17	118-05-31
1071 BE	DESCANSO GARDENS	24X36 S	1325	19 B3	34-12-07	118-12-46

LEGEND

- 24X36 S = Screened land pan, 24 inches in diameter by 36 inches deep.
 48X10 S = Screened land pan, 48 inches in diameter by 10 inches deep.
 72X36 US = Unscreened land pan, 72 inches in diameter by 36 inches deep.
 () = Thomas Guide future page assignment.

MONTHLY EVAPORATION REPORT

YEAR: 1980-1981

STA. NO.	STATION NAME	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	TOTAL
33 AE	Pacoima Reservoir	9.96	8.24	7.81	6.08	6.78	4.19	5.25	5.73	11.24	10.36	11.20	8.74	95.58
46 DE	Big Tujunga Dam	9.36	6.63	5.10	4.05	3.89	3.24	5.04	5.69	10.68	10.98	10.53	9.01	84.20
63 CE	Santa Anita Dam	6.84	5.78	4.93	3.67	4.00	2.83	3.72	5.40	7.82	7.76	8.06	6.51	67.32
89 BE	San Dimas Dam	5.00	3.05	2.24	1.79	2.61	2.23	3.98	4.61	8.73	9.41	9.08	6.64	59.37
96 CE	Puddingstone Dam	6.35	4.54	3.54	2.57	3.14	3.12	4.75	5.88	9.68	10.51	10.32	7.82	72.22
223 BE	Big Dalton Dam	5.80	3.73	2.53	2.17	2.83	2.08	3.67	4.29	7.78	8.78	8.83	6.83	59.32
252 CE	Castaic Dam	6.15	4.59	3.29	5.81	0.57	3.53	4.22	4.85	9.88	7.31	10.02	7.60	67.82
321 BE	Pine Canyon Patrol Sta.	6.00	4.05	2.98	2.18	2.51	3.30	5.22	7.46	10.98	11.10	11.60	7.90	75.28
334 BE	Cogswell Dam	5.54	3.37	1.88	1.43	1.72	1.96	3.68	5.26	8.77	10.03	9.59	7.09	60.32
347 E	Baldwin Park Exper. Sta.	4.27	2.60	1.68	1.55	2.39	3.05	3.80	4.84	7.36	8.00	7.48	5.72	52.74
390 BE	Morris Dam	6.20	4.34	3.22	2.72	3.18	3.17	5.11	5.84	6.16	10.38	10.32	7.73	68.37
409 E	Pyramid Reservoir	6.79	4.94	4.12	3.47	3.87	4.06	5.84	7.99	7.49	9.50	8.12	8.55	74.74
425 BE	San Gabriel Dam	7.31	5.26	3.81	3.42	3.84	3.46	4.77	5.46	8.88	9.85	9.50	7.89	73.45
444 FE	S. Coast Botanic Gardens	4.25	2.84	2.14	1.64	2.57	2.86	3.71	4.38	6.16	7.82	5.83	5.27	49.47
1008 BE	La Fresa S.Ca. Edison Co.	4.37	2.76	1.87	1.43	2.14	2.60	4.14	4.86	6.68	8.93	6.53	5.77	52.08
1014 FE	Rio Hondo Spr. Grounds	4.97	3.69	2.43	2.76	2.30	3.22	4.55	5.40	8.38	8.46	6.38	3.52	56.06
1058 BE	Palmdale	5.08	2.96	2.54	1.80	2.31	3.72	5.88	7.83	12.20	12.23	9.75	7.35	73.65
1071 BE	Descanso Gardens	4.84	3.55	2.27	2.33	2.42	2.34	3.55	4.21	6.88	7.82	7.71	5.74	53.66

MONTHLY EVAPORATION REPORT

YEAR: 1981-1982

STA. NO.	STATION NAME	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	TOTAL
33 AE	Pacoima Reservoir	6.89	6.71	5.99	5.32	5.10	4.63	5.64	4.44	4.27	9.17	10.78	8.39	77.33
46 DE	Big Tujunga Dam	5.94	5.44	3.76	3.61	3.35	3.27	4.29	4.77	5.25	9.22	9.86	7.05	65.81
63 CE	Santa Anita Dam	4.45	3.42	2.66	2.12	2.14	2.48	3.18	2.85	2.80	6.54	7.15	5.40	45.19
89 BE	San Dimas Dam	3.67	2.49	1.77	1.02	1.65	2.21	3.64	3.76	3.78	7.67	7.20	5.36	44.22
96 CE	Puddingstone Dam	5.21	3.78	2.56	2.07	2.11	2.69	4.31	4.74	5.22	9.65	9.36	6.83	58.53
223 BE	Big Dalton Dam	4.25	6.00	2.01	1.62	1.81	2.23	3.96	3.60	3.93	9.06	9.85	6.28	54.60
252 CE	Castaic Dam	7.70	7.99	4.07	3.49	2.00	4.93	4.95	4.93	4.06	6.21	11.62	5.49	67.44
321 BE	Pine Canyon Patrol Sta.	4.73	4.90	1.99	2.12	2.37	3.14	4.06	6.14	7.55	9.40	8.65	5.55	60.60
334 BE	Cogswell Dam	3.60	2.42	1.37	1.53	1.78	2.02	2.95	4.56	5.23	8.33	8.16	5.18	47.13
347 E	Baldwin Park Exper. Sta.	3.60	2.55	1.54	1.52	1.82	2.56	3.84	4.00	4.39	7.44	6.79	4.77	44.82
390 BE	Morris Dam	5.14	3.77	2.71	2.63	2.51	2.52	4.56	6.72	5.23	9.72	10.27	7.50	63.28
409 E	Pyramid Reservoir	4.29	8.35	0.57	2.43	0.54	4.20	2.06	7.88	6.87	8.07	9.21	6.51	60.98
425 BE	San Gabriel Dam	5.46	5.77	3.18	2.71	2.65	3.06	4.86	4.55	4.93	8.57	8.72	6.98	61.44
444 FE	S. Coast Botanic Gardens	3.81	3.52	1.49	2.07	1.67	3.07	4.10	4.05	3.72	5.73	5.69	3.50	42.42
1008 BE	La Fresa S.Ca. Edison Co.	4.38	3.68	1.51	2.11	1.90	2.76	3.95	4.89	4.67	6.89	6.48	4.05	47.27
1014 FE	Rio Hondo Spr. Grounds	4.61	3.16	2.70	2.12	2.42	3.35	5.76	5.36	5.10	8.26	7.80	5.72	56.36
1058 BE	Palmdale	4.45	3.73	2.38	2.58	2.99	6.16	6.65	8.29	8.55	9.50	8.06	5.76	69.10
1071 BE	Descanso Gardens	4.02	3.14	2.53	1.65	1.85	2.18	3.69	3.47	3.83	7.50	7.06	5.10	46.02

MONTHLY EVAPORATION REPORT

YEAR: 1982-1983

STA. NO.	STATION NAME	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	TOTAL
33 AE	Pacolma Reservoir	9.54	5.99	5.12	6.37	4.01	4.14	5.19	6.32	5.42	10.30	9.69	8.33	80.42
46 DE	Big Tujunga Dam	6.73	3.40	3.80	3.25	3.32	2.76	4.06	5.71	6.14	9.32	7.77	7.67	63.93
63 CE	Santa Anita Dam	5.82	3.33	2.57	2.81	1.61	1.82	3.00	4.12	3.45	6.89	5.99	5.36	46.77
89 BE	San Dimas Dam	4.15	1.99	1.71	1.33	1.29	2.24	3.24	5.03	4.92	7.89	6.93	5.83	46.55
96 CE	Puddingstone Dam	6.11	3.08	2.66	2.87	1.90	2.56	4.35	6.27	6.10	9.33	8.39	7.56	61.18
223 BE	Big Dalton Dam	4.86	2.52	2.23	2.08	1.46	2.08	3.10	4.72	4.42	7.52	6.80	5.57	47.36
252 CE	Castaic Dam	6.14	7.13	2.01	9.39	4.74	7.54	5.08	4.67	3.85	11.20	5.16	9.17	76.08
321 BE	Pine Canyon Patrol Sta.	4.49	2.54	1.87	2.49	1.66	2.59	3.33	5.82	7.63	9.70	7.26	6.42	55.80
334 BE	Cogswell Dam	3.81	1.99	1.44	1.39	1.20	1.79	2.82	5.47	6.33	8.68	6.48	5.74	47.14
347 E	Baldwin Park Exper. Sta.	3.75	7.01	3.08	1.61	1.57	2.41	3.61	5.01	4.89	6.86	5.75	4.88	50.43
390 BE	Morris Dam	7.15	3.77	5.09	3.25	2.42	2.80	4.79	7.30	6.64	10.99	10.60	7.50	72.30
409 E	Pyramid Reservoir	5.39	4.31	3.60	3.30	2.93	7.60	2.95	6.19	8.13	8.45	7.28	10.60	70.73
425 BE	San Gabriel Dam	6.56	3.96	3.56	3.89	2.32	2.66	4.03	6.01	5.85	8.85	7.95	7.86	63.50
444 FE	S. Coast Botanic Gardens	4.46	2.50	1.87	2.68	5.14	3.28	4.51	4.20	3.74	5.27	4.92	4.57	47.14
1008 BE	La Fresa S. Ca. Edison Co.	4.28	2.43	2.05	1.49	2.33	3.96	4.66	5.60	5.40	8.38	6.68	5.21	52.47
1014 FE	Rio Hondo Spr. Grounds	5.56	3.07	2.68	2.66	2.50	3.62	5.16	6.54	6.06	8.57	7.57	6.31	60.30
1058 BE	Palmdale	4.70	2.93	1.69	1.55	1.69	5.20	6.85	8.93	13.03	14.18	9.36	9.00	79.11
1071 BE	Descanso Gardens	5.03	2.48	2.15	2.28	1.52	2.48	3.81	4.20	3.96	6.72	5.94	5.02	45.59

MONTHLY EVAPORATION REPORT

YEAR: 1983-1984

STA. NO.	STATION NAME	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	TOTAL
33 AE	Pacolma Reservoir	7.02	4.37	3.24	6.97	7.03	7.59	7.85	9.78	7.15	9.85	8.77	11.26	90.88
46 DE	Big Tujunga Dam	4.96	3.13	2.39	4.67	4.23	5.42	6.13	8.36	7.73	9.40	8.96	8.24	73.62
63 CE	Santa Anita Dam	3.82	2.42	1.34	3.10	3.96	3.46	4.19	5.41	4.16	6.40	5.61	5.57	49.44
89 BE	San Dimas Dam	3.16	2.06	1.09	1.78	2.36	3.38	4.79	6.78	6.14	7.86	7.16	6.63	53.19
96 CE	Puddingstone Dam	4.14	2.67	1.40	2.69	3.68	4.60	6.18	8.26	7.48	10.25	8.69	7.94	67.98
223 BE	Big Dalton Dam	3.13	2.06	1.08	2.11	2.63	3.52	4.62	6.29	6.68	8.10	6.92	6.63	53.77
252 CE	Castaic Dam	6.23	4.21	3.47	2.18	2.88	5.24	5.35	6.40	7.41	9.10	11.08	9.30	72.85
321 BE	Pine Canyon Patrol Sta.	3.98	3.00	1.79	2.48	2.90	4.52	5.90	9.95	9.24	10.42	11.63	7.54	73.35
334 BE	Cogswell Dam	3.24	1.55	0.90	1.76	2.16	3.29	4.49	7.00	7.56	9.76	8.25	6.84	56.80
347 E	Baldwin Park Exper. Sta.	3.02	2.01	0.91	2.03	2.83	3.84	5.31	6.46	6.30	7.98	7.01	6.16	53.86
390 BE	Morris Dam	6.10	4.40	2.12	6.96	4.88	5.87	7.49	9.77	8.52	11.77	10.18	9.88	87.94
409 E	Pyramid Reservoir	2.94	2.62	4.93	1.26	2.17	4.05	4.71	7.89	7.35	8.80	8.33	7.05	62.10
425 BE	San Gabriel Dam	5.52	3.02	1.94	3.49	4.12	4.87	5.78	7.53	7.12	9.25	8.04	8.37	69.05
444 FE	S. Coast Botanic Gardens	3.44	2.79	2.20	1.47	2.30	3.43	4.04	4.71	6.37	6.46	5.80	5.34	48.35
1008 BE	La Fresa S. Ca. Edison Co.	3.54	2.72	1.74	2.04	2.97	3.61	5.66	6.52	7.90	7.99	7.45	5.98	58.12
1014 FE	Rio Hondo Spr. Grounds	4.05	2.80	1.99	2.96	3.74	4.93	6.67	8.13	7.67	9.70	9.41	7.39	69.44
1058 BE	Palmdale	4.97	3.86	2.01	2.53	3.72	6.46	7.80	10.78	11.68	11.75	10.48	7.75	83.79
1071 BE	Descanso Gardens	3.37	2.70	1.66	2.49	3.09	3.70	4.94	6.52	6.26	8.38	6.58	6.28	55.97

MONTHLY EVAPORATION REPORT

YEAR: 1984-1985

STA. NO.	STATION NAME	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	TOTAL
33 AE	Pacoima Reservoir	7.94	4.90	4.16	5.24	5.73	4.99	8.00	5.86	8.01	10.34	10.87	7.20	83.24
46 DE	Big Tujunga Dam	6.49	3.30	5.45	3.02	3.48	3.71	6.14	6.16	8.52	10.19	10.60	6.30	73.36
63 CE	Santa Anita Dam	4.00	2.64	1.36	2.08	2.28	2.34	4.00	3.77	5.32	6.96	6.76	4.36	45.87
89 BE	San Dimas Dam	3.93	1.83	1.33	1.43	1.67	2.32	4.12	4.95	6.56	7.95	7.91	5.06	49.06
96 CE	Puddingstone Dam	5.70	3.01	1.91	2.14	2.62	3.41	5.74	6.23	7.97	9.90	9.38	6.66	64.67
223 BE	Big Dalton Dam	4.40	2.13	0.78	1.56	1.87	2.64	4.37	4.79	6.54	8.43	8.47	5.84	51.82
252 CE	Castaic Dam	5.80	1.14	4.61	0.83	1.94	2.16	2.84	6.23	5.26	10.99	5.78	6.04	53.62
321 BE	Pine Canyon Patrol Sta.	5.48	3.04	0.78	1.53	2.08	3.51	4.31	6.74	8.36	9.01	8.55	4.81	58.20
334 BE	Cogswell Dam	4.18	1.61	1.07	1.44	1.78	2.34	4.49	5.80	8.03	9.53	8.99	5.31	54.57
347 E	Baldwin Park Exper. Sta.	4.34	0.73	1.26	1.87	2.31	3.18	4.91	5.24	6.84	7.70	7.35	5.36	51.09
390 BE	Morris Dam	6.89	4.09	8.16	5.87	4.15	4.51	7.37	6.91	9.98	11.44	11.03	5.44	85.84
409 E	Pyramid Reservoir	5.58	3.36	6.39	3.30	2.50	3.90	5.79	6.68	10.38	12.62	9.84	6.49	76.83
425 BE	San Gabriel Dam	5.88	3.41	2.67	2.80	3.39	3.81	5.74	5.81	8.07	9.42	9.68	6.62	67.30
444 FE	S. Coast Botanic Gardens	4.28	2.13	2.03	1.19	1.93	2.87	3.73	4.64	5.73	6.63	5.99	4.48	45.63
1008 BE	La Fresa S.Ca. Edison Co.	4.74	2.85	1.98	1.59	2.42	3.49	4.92	6.02	7.14	7.77	7.10	5.36	55.38
1014 FE	Rio Hondo Spr. Grounds	5.75	2.91	2.15	2.32	3.21	4.45	6.16	6.35	7.85	9.01	7.12	6.45	63.73
1058 BE	Palmdale	5.93	3.01	0.93	1.77	3.22	5.26	8.58	7.90	10.40	9.82	9.60	5.86	72.28
1071 BE	Descanso Gardens	4.48	2.53	1.15	1.87	2.07	2.62	4.35	4.45	6.30	8.02	7.53	5.20	50.57

MONTHLY EVAPORATION REPORT

YEAR: 1985-1986

STA. NO.	STATION NAME	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	TOTAL
33 AE	Pacoima Reservoir	7.64	5.23	7.16	6.44	4.58	5.78	6.12	6.67	7.23	9.28	9.90	6.26	82.29
46 DE	Big Tujunga Dam	6.30	4.44	3.74	3.73	3.25	4.04	4.74	6.62	8.66	9.14	10.56	6.53	71.75
63 CE	Santa Anita Dam	3.20	2.31	2.38	2.37	1.91	2.54	3.30	4.18	4.58	5.86	6.68	5.55	44.86
89 BE	San Dimas Dam	3.85	1.90	1.68	1.74	1.85	2.69	4.40	5.64	6.56	7.24	8.32	5.17	51.04
96 CE	Puddingstone Dam	5.02	2.60	2.71	2.75	2.07	3.60	5.31	6.82	7.87	9.66	9.80	6.21	64.42
223 BE	Big Dalton Dam	4.82	2.60	2.00	2.24	1.61	2.42	4.37	5.98	6.41	7.78	8.49	5.06	53.78
252 CE	Castaic Dam	6.20	6.89	2.72	4.50	7.72	4.56	4.11	4.60	5.94	7.34	5.44	5.84	65.86
321 BE	Pine Canyon Patrol Sta.	4.29	3.45	2.02	2.09	2.37	2.56	4.29	6.58	7.15	8.18	8.70	5.65	57.33
334 BE	Cogswell Dam	4.01	1.80	1.13	1.27	1.66	2.41	3.65	5.91	8.16	9.16	9.44	5.58	54.18
347 E	Baldwin Park Exper. Sta.	4.17	1.86	1.52	1.68	1.58	2.63	4.79	6.14	6.60	7.63	7.75	4.98	51.33
390 BE	Morris Dam	5.58	5.51	3.59	3.53	3.47	4.82	6.58	8.26	9.46	10.86	11.58	6.59	79.83
409 E	Pyramid Reservoir	5.76	5.81	2.71	6.25	2.98	4.18	4.39	6.55	8.82	8.70	9.18	6.23	71.56
425 BE	San Gabriel Dam	6.09	3.18	2.92	3.09	2.54	3.82	5.28	6.69	7.32	8.93	9.57	6.29	65.72
444 FE	S. Coast Botanic Gardens	4.60	3.42	2.26	2.19	5.84	3.17	4.98	4.28	3.38	4.23	5.27	4.26	47.88
1008 BE	La Fresa S.Ca. Edison Co.	4.15	2.26	1.73	2.17	4.49	2.75	5.08	5.86	6.36	7.45	7.29	5.18	54.77
1014 FE	Rio Hondo Spr. Grounds	5.20	3.24	2.73	3.41	2.96	3.33	6.05	6.82	7.35	8.38	8.45	5.98	63.90
1058 BE	Palmdale	4.94	2.48	1.22	1.41	1.71	3.59	5.41	7.55	11.28	11.80	9.68	6.05	67.12
1071 BE	Descanso Gardens	4.66	2.40	2.09	1.85	1.82	2.66	3.95	5.14	5.84	7.08	7.45	4.77	49.71

MONTHLY EVAPORATION REPORT

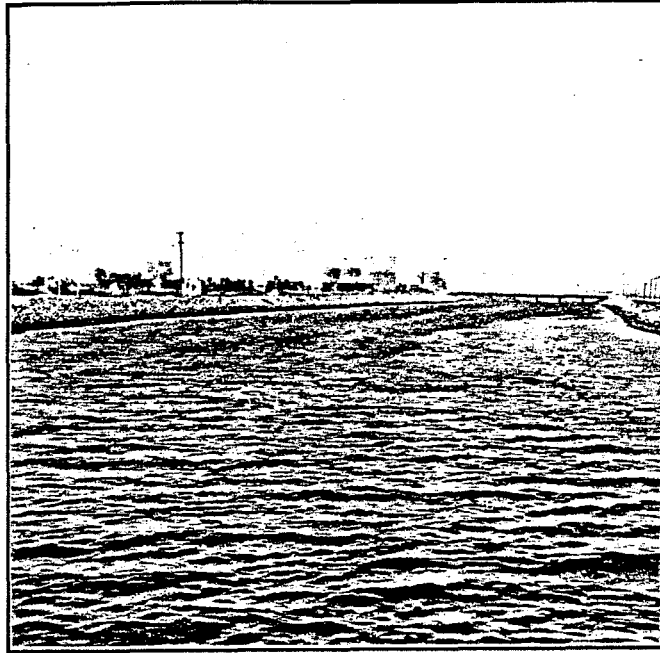
YEAR: 1986-1987

STA. NO.	STATION NAME	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	TOTAL
33 AE	Pacolma Reservoir	7.58	8.14	6.35	5.74	5.16	5.05	8.97	6.59	6.84	7.43	8.19	8.49	84.53
46 DE	Big Tujunga Dam	5.09	5.43	3.37	3.38	3.36	3.41	6.35	6.57	8.58	8.71	9.53	8.04	71.82
63 CE	Santa Anita Dam	3.83	3.92	3.13	2.68	2.56	2.50	4.52	3.85	4.48	4.82	5.48	5.21	46.98
89 BE	San Dimas Dam	3.30	2.71	1.95	2.12	1.67	2.65	5.02	5.27	6.10	7.06	7.43	5.97	51.25
96 CE	Puddingstone Dam	4.34	3.83	2.70	2.93	2.64	3.48	6.50	6.04	7.78	7.87	8.87	6.76	63.74
223 BE	Big Dalton Dam	3.34	2.87	1.76	2.05	1.99	2.73	4.88	4.77	5.94	6.16	6.95	5.84	49.28
252 CE	Castaic Dam	5.25	6.46	1.53	5.09	2.39	3.02	6.33	6.40	5.97	9.81	5.72	7.68	65.65
321 BE	Pine Canyon Patrol Sta.	3.00	2.94	1.36	1.26	2.29	2.80	4.67	6.92	8.58	9.38	10.00	7.25	60.45
334 BE	Cogswell Dam	3.07	2.82	1.31	1.58	1.99	2.15	4.55	5.58	8.03	8.51	8.93	6.27	54.79
347 E	Baldwin Park Exper. Sta.	3.51	2.74	1.70	1.80	2.45	3.09	5.07	5.33	6.08	6.37	6.77	5.44	50.35
390 BE	Morris Dam	5.63	4.99	3.52	3.31	3.89	4.31	7.97	7.22	8.76	9.11	10.13	8.33	77.17
409 E	Pyramid Reservoir	7.48	5.11	2.66	3.02	2.92	3.19	8.23	12.59	9.75	9.77	9.35	7.57	81.64
425 BE	San Gabriel Dam	5.10	4.30	3.17	3.16	2.98	3.63	6.28	5.95	7.04	7.55	8.15	6.96	64.27
444 FE	S. Coast Botanic Gardens	3.01	1.96	1.59	1.72	2.08	2.77	4.18	4.06	4.15	4.45	4.65	4.10	38.72
1008 BE	La Fresa S. Ca. Edison Co.	3.58	3.13	1.60	1.92	3.20	3.35	5.01	5.46	5.84	6.03	6.85	5.40	51.37
1014 FE	Rio Hondo Spr. Grounds	4.06	3.49	2.14	2.12	2.91	3.65	5.60	6.04	6.54	6.42	7.59	6.07	56.63
1058 BE	Palmdale	4.01	2.74	1.24	1.48	2.50	3.19	5.73	6.75	9.49	10.15	9.55	6.22	63.05
1071 BE	Descanso Gardens	3.40	3.18	1.95	2.04	2.40	2.43	4.75	4.93	6.09	6.35	6.93	5.09	49.54

Stations 444 FE & 1008 BE ,estimated for Sep. 87

RUNOFF





RUNOFF

The Department operated or received data from 88 water-stage recording stations during the 1980-81 to 1986-87 water years. Data from 56 of those stations are summarized and published in this volume.

RECORDS OF STREAMFLOW

Records published give the following information:

1. Station description which presents location, drainage area, type of channel, control, regulations, diversions, and available records.
2. Discharge tabulation which summarizes the maximum, minimum and mean of the daily flow rates in second-feet for each month and the total monthly volumes in acre-feet.

COOPERATION

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

Agencies with which the Department exchanges data are:

United States Geological Survey, Water Resources Division

United States Corps of Engineers

The Metropolitan Water District

San Gabriel River Water Committee

L E G E N D

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

Prefix F - Indicates stations owned and operated by the Los Angeles County Department of Public Works.

Prefix B - Indicates a station owned by the San Bernardino County Flood Control District and operated by the Los Angeles County Department of Public Works.

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

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

Prefix P - Indicates station owned and operated by the Department formerly operated by the Pasadena Water Department.

Prefix L - Indicates station owned and operated by the Department 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.

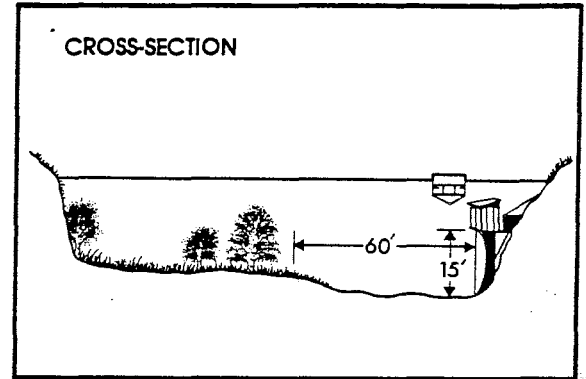
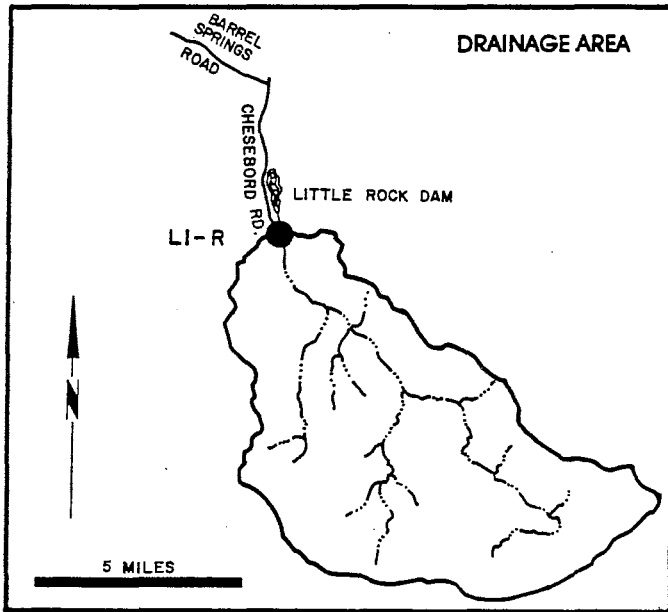
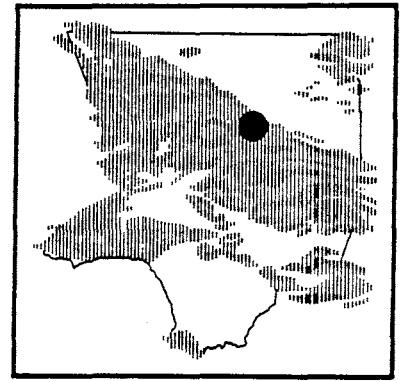
Prefix V - Indicates station owned and operated by the Ventura County Water Resources Division.

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.

LITTLE ROCK CREEK above Little Rock Dam STATION NO. L1-R



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.

WATER YEARS : 1980-1982
 (DISCHARGE IN SEC-FT)

STATION NO. : L1-R

DRAINAGE AREA : 49.20 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	1.0	2.35	4.2	5.7	9.4	25.2	16.9	6.2	0.07	0.0	0.0	0.0
	MAX.	1.6	2.9	6.4	15.4	14.0	43.8	23.6	11.7	0.9	+	0.0	0.0
	MIN.	0.3	1.7	2.9	3.8	6.1	18.6	13.0	2.3	+	0.0	0.0	0.0
TOTAL AF		58.9	139.8	257.5	352.3	519.7	1552.5	1008.0	383.6	4.2	0.0	0.0	0.0
WATER YEAR 81-82	MEAN	0.0	0.4	2.9	4.4	10.7	40.1	133.0	22.1	6.6	0.7	0.2	0.0
	MAX.	0.0	4.9	4.4	12.5	41.0	124.0	575.0	53.0	9.5	4.9	1.0	0.0
	MIN.	0.0	0.0	1.8	2.1	4.2	2.9	51.8	10.6	3.4	0.0	0.0	0.0
TOTAL AF		0.0	25.2	180.0	271.0	593.0	2468.0	7899.0	1362.0	390.0	45.2	10.5	0.0

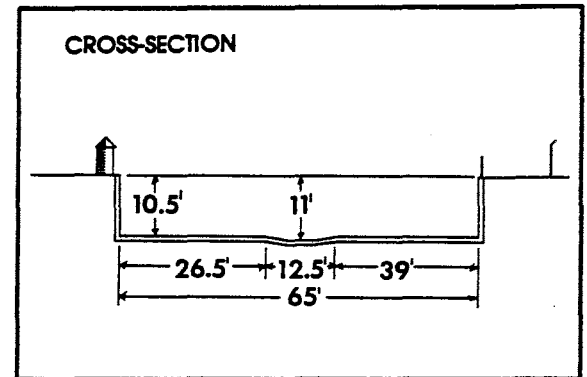
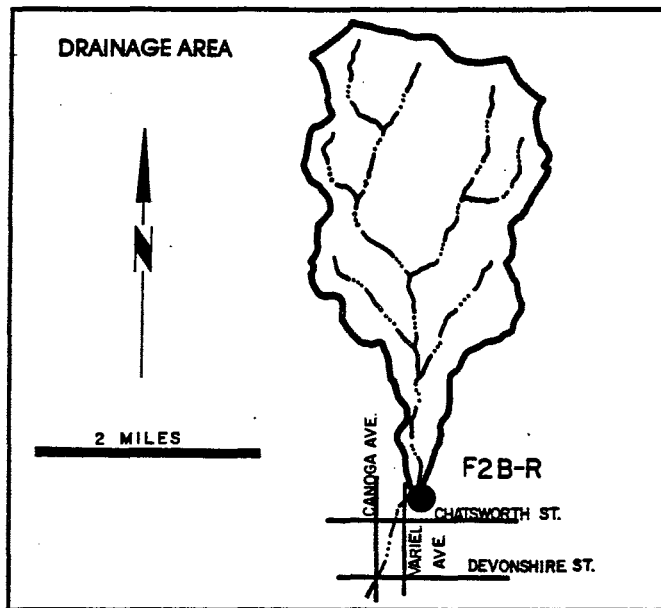
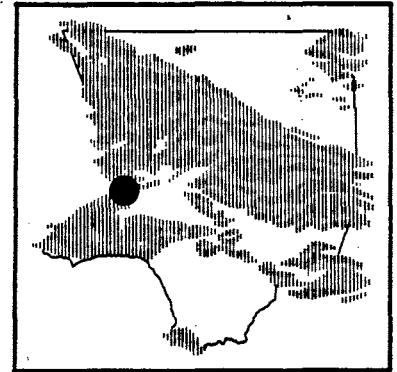
WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : L1-R

DRAINAGE AREA : 49.20 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	1.2	12.5	27.1	30.7	70.5	338.0	124.0	138.0	30.9	12.3	7.3	3.4
	MAX.	6.7	71.8	83.2	154.0	362.0	2413.0	225.0	187.0	76.2	15.5	9.9	19.5
	MIN.	0.0	2.1	15.0	7.7	27.2	116.0	61.0	87.0	15.8	10.1	3.6	2.0
TOTAL AF		71.6	746.0	1666.0	1890.0	3917.0	20763.0	7377.0	8457.0	1839.0	757.0	450.0	203.0
WATER YEAR 83-84	MEAN	14.3	8.7	24.1	14.9	8.8	5.7	5.2	2.1	0.5	0.0	0.0	0.0
	MAX.	152.0	25.9	244.0	21.5	11.4	7.0	5.5	4.3	0.9	0.1	0.0	0.0
	MIN.	5.0	6.0	7.6	12.0	6.8	5.5	4.3	0.6	0.3	0.0	0.0	0.0
TOTAL AF		879.0	519.0	1480.0	917.0	507.0	353.0	308.0	128.0	30.9	1.0	0.0	0.0
WATER YEAR 84-85	MEAN	0.0	1.7	14.1	17.7	17.7	17.7	20.3	6.2	0.8	0.0	0.0	0.0
	MAX.	0.1	4.0	36.2	23.7	25.0	25.4	28.5	10.9	2.7	0.0	0.0	0.0
	MIN.	0.0	0.3	2.2	14.6	12.8	14.3	11.4	2.6	+	0.0	0.0	0.0
TOTAL AF		0.8	102.0	868.0	1089.0	983.0	1087.0	1207.0	382.0	45.8	0.0	0.0	0.0
WATER YEAR 85-86	MEAN	0.0	6.2	10.2	30.9	79.0	48.9	25.5	8.9	2.4	0.2	0.0	0.0
	MAX.	0.0	64.7	21.5	515.0	282.0	89.5	45.4	13.3	4.3	0.8	0.0	0.0
	MIN.	0.0	0.0	6.5	5.4	21.9	21.9	13.3	4.5	0.8	0.0	0.0	0.0
TOTAL AF		0.0	367.0	625.0	1903.0	4387.0	3008.0	1519.0	545.0	143.0	14.7	0.0	0.0
WATER YEAR 86-87	MEAN	0.0	1.6	1.5	3.4	3.7	11.5	5.08	2.4	0.99	0.0	0.0	0.0
	MAX.	0.0	5.5	2.5	6.6	5.2	64.1	6.3	2.9	2.0	0.0	0.0	0.0
	MIN.	0.0	+	1.3	1.4	2.9	5.7	3.0	2.1	+	0.0	0.0	0.0
TOTAL AF		0.0	93.2	93.0	210.0	203.5	708.1	302.0	144.6	58.7	0.0	0.0	0.0

BROWNS CREEK at Variel Avenue STATION NO. F2B-R



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 and October 2, 1935, to October 31, 1939. at Station F2B-R, October 12, 1961, to date.

WATER YEARS : 1980-1982
 (DISCHARGE IN SEC-FT)

STATION NO. : F2B-R

DRAINAGE AREA : 13.50 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	0.3	0.4	1.3	1.7	1.2	2.0	0.7	0.6	0.2	0.1	+	+
	MAX.	1.2	1.0	3.9	12.8	3.6	7.6	2.6	1.2	0.6	0.1	+	+
	MIN.	0.1	0.2	0.3	0.1	0.4	1.0	0.4	0.3	+	+	+	+
TOTAL AF		20.8	26.2	80.3	107.0	67.6	125.0	42.2	34.9	11.5	3.4	+	+
WATER YEAR 81-82	MEAN	0.2	1.3	1.5	2.0	1.1	4.0	2.4	0.6	0.5	0.2	0.1	0.2
	MAX.	0.6	23.1	16.3	12.0	10.0	38.6	20.9	0.8	1.0	0.3	0.2	0.8
	MIN.	+	0.1	0.3	0.8	0.8	0.4	0.2	0.3	0.3	0.1	0.0	+
TOTAL AF		12.1	76.4	95.2	120.0	64.0	245.0	144.0	36.7	32.5	13.9	7.5	9.3

WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F2B-R

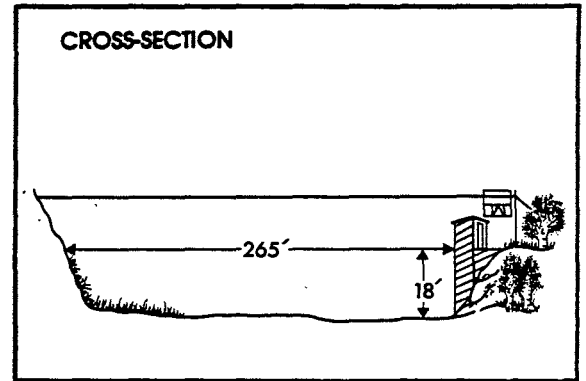
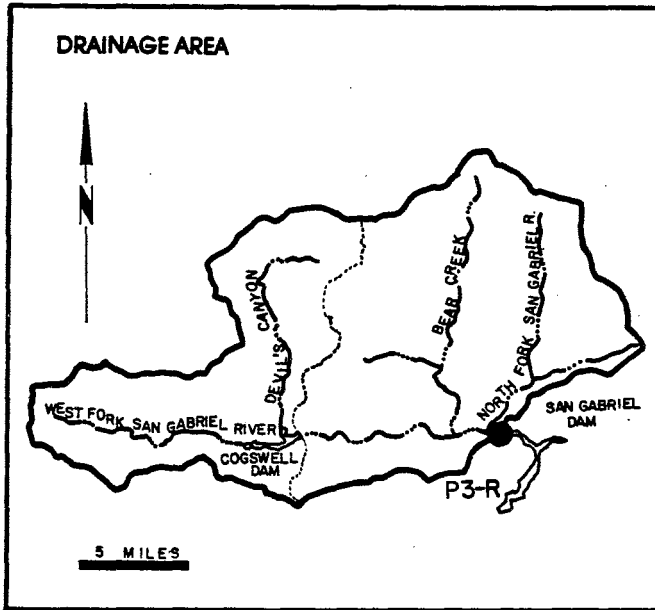
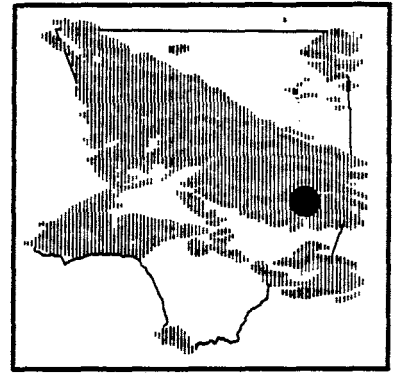
DRAINAGE AREA : 13.50 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	0.2	1.3	1.2	6.7	9.4	42.4	4.0	4.1	2.5	2.3	1.9	1.7
	MAX.	0.6	9.3	10.8	43.6	55.0	525.0	13.4	5.2	3.9	2.9	7.4	5.2
	MIN.	0.1	0.1	0.4	0.6	2.9	2.9	2.6	2.9	1.5	1.5	0.6	1.2
TOTAL AF		15.3	78.9	73.2	410.0	523.0	2610.0	239.0	253.0	149.0	141.0	119.0	103.0
WATER YEAR 83-84	MEAN	1.5	3.4	4.3	1.9	1.7	1.1	1.4	0.7	0.5	0.1	0.1	0.1
	MAX.	5.2	9.4	22.1	3.2	2.9	1.5	1.9	1.2	0.8	0.2	0.1	0.2
	MIN.	0.8	1.5	1.5	1.2	0.8	0.8	0.8	0.4	0.1	0.0	0.0	0.0
TOTAL AF		95.0	204.0	263.0	119.0	95.4	66.8	80.9	40.1	32.1	3.4	4.6	3.8
WATER YEAR 84-85	MEAN	0.2	0.6	1.8	0.9	1.4	2.9	0.2	0.1	+	0.0	0.0	0.0
	MAX.	0.4	2.2	15.3	2.9	15.8	63.7	0.4	0.3	0.1	0.0	0.0	0.0
	MIN.	0.1	0.3	0.3	0.4	0.6	0.3	0.1	+	0.0	0.0	0.0	0.0
TOTAL AF		14.9	36.5	111.0	55.1	78.5	179.0	11.3	9.1	1.0	0.0	0.0	0.0
WATER YEAR 85-86	MEAN	+	0.8	0.5	1.4	10.8	3.6	0.5	0.4	0.2	0.1	0.0	0.1
	MAX.	+	5.2	2.2	17.8	91.9	14.9	1.5	0.6	0.4	0.2	0.0	1.2
	MIN.	0.0	0.0	0.2	0.3	0.6	0.6	0.3	0.2	0.1	+	0.0	0.0
TOTAL AF		+	46.2	30.5	84.9	600.0	222.0	29.8	23.0	10.9	6.0	0.0	6.7
WATER YEAR 86-87	MEAN	0.2	0.2	0.3	0.7	1.5	1.3	0.3	0.0	0.0	0.0	0.0	0.0
	MAX.	0.3	0.6	0.6	2.6	3.6	3.9	0.8	0.1	0.0	0.0	0.0	0.0
	MIN.	0.1	+	0.2	0.3	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		9.3	10.5	20.2	44.2	85.7	82.3	20.6	0.4	0.0	0.0	0.0	0.0

SAN GABRIEL RIVER

West Fork above Forks

STATION NO. P3-R



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 and 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.

WATER YEARS : 1980-1982
 (DISCHARGE IN SEC-FT)

STATION NO. : P3-R

DRAINAGE AREA : 102.00 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	34.3	25.8	26.7	23.4	25.5	60.5	66.4	21.3	14.1	9.0	5.7	5.3
	MAX.	50.0	26.7	39.8	142.0	29.4	112.0	256.0	26.7	18.0	10.8	6.9	5.5
	MIN.	25.9	24.1	22.4	21.0	20.4	38.7	26.7	18.0	11.0	7.2	4.5	5.0
TOTAL AF		2110.0	1540.0	1640.0	1440.0	1420.0	3720.0	3950.0	1310.0	841.0	553.0	348.0	314.0
WATER YEAR 81-82	MEAN	9.1	9.1	11.6	18.5	24.1	147.0	153.0	68.3	46.9	29.1	20.8	18.6
	MAX.	16.3	55.8	16.3	47.8	42.2	898.0	365.0	89.2	71.7	41.0	25.4	25.7
	MIN.	5.3	5.6	9.6	12.0	12.8	9.6	93.4	52.7	33.0	20.6	19.9	11.3
TOTAL AF		561.0	540.0	710.0	1140.0	1340.0	9030.0	9080.0	4200.0	2790.0	1790.0	1280.0	1110.0

WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : P3-R

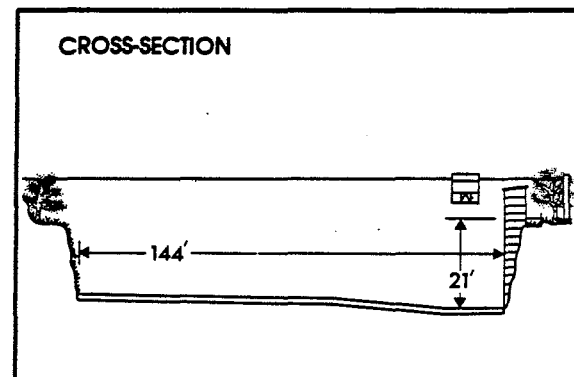
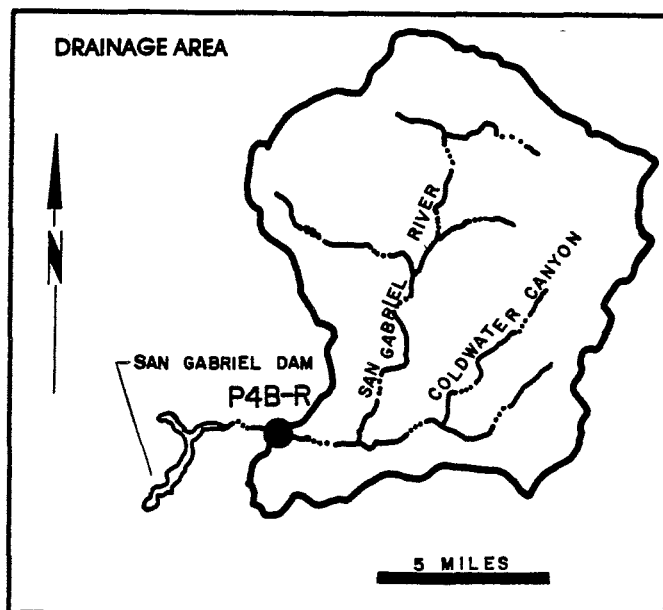
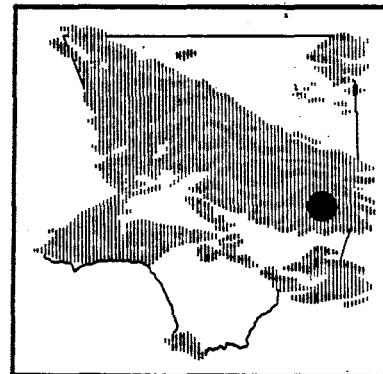
DRAINAGE AREA : 102.00 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	19.5	91.9	57.9	221.0	253.0	1241.0	310.0	371.3	154.5	81.9	70.8	140.0
	MAX.	23.3	923.0	247.0	822.0	434.0	8092.0	400.0	476.0	254.0	95.7	81.8	195.0
	MIN.	17.0	17.6	24.1	73.6	177.0	278.0	264.0	281.0	98.0	69.0	61.8	60.7
TOTAL AF		1200.0	5470.0	3560.0	13590.0	14050.0	76306.0	18442.0	22830.0	9193.0	5037.0	4351.0	8357.0
WATER YEAR 83-84	MEAN	117.0	48.2	112.0	74.4	39.1	36.2	30.1	22.5	19.8	16.3	15.2	12.6
	MAX.	191.0	55.4	214.0	158.0	41.2	38.2	33.6	25.8	20.6	18.3	16.3	14.1
	MIN.	47.8	46.5	55.0	41.4	37.3	33.9	26.1	18.7	18.7	14.9	13.6	11.1
TOTAL AF		7224.0	2870.0	6889.0	4576.0	2247.0	2227.0	1791.0	1384.0	1180.0	1000.0	935.0	752.0
WATER YEAR 84-85	MEAN	10.4	18.1	112.0	86.4	37.0	28.5	27.2	21.3	14.9	11.9	8.9	8.9
	MAX.	12.8	31.0	400.0	130.0	50.0	32.4	31.5	24.0	19.0	16.8	12.0	11.0
	MIN.	9.0	13.0	26.3	50.0	27.4	24.0	21.0	17.0	12.0	9.2	7.0	7.0
TOTAL AF		641.0	1080.0	6883.0	5311.0	2053.0	1752.0	1616.0	1307.0	886.0	730.0	547.0	532.0
WATER YEAR 85-86	MEAN	10.0	31.0	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.
	MAX.	12.0	94.0	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.
	MIN.	9.0	9.0	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.
TOTAL AF		614.0	1863.0	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.
WATER YEAR 86-87	MEAN												
	MAX.				NO	DATA	FOR	1986	THRU	1987			
	MIN.												
TOTAL AF													

SAN GABRIEL RIVER

East Fork above Forks

STATION NO. P4B-R



RECORDER- continuous water stage.

METHOD OF MEASUREMENTS- wading or from cable car.

DRAINAGE AREA- 88.2 square miles.

LOCATION- 2.5 miles above the West Fork, 12.0 miles north of Azusa.

REGULATION- none.

CHANNEL- sand, gravel, and boulders, natural section.

CONTROL- concrete, stabilizer with a 20-foot-wide low flow notch (constructed in November 1947).

LENTH 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.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : P4B-R

DRAINAGE AREA : 88.20 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	29.1	24.8	27.0	29.4	30.8	53.9	44.8	28.9	21.1	14.9	10.4	11.4
	MAX.	31.0	25.1	38.8	122.0	60.7	126.0	67.6	42.3	21.6	19.3	11.9	11.9
	MIN.	25.7	24.5	24.4	20.6	21.6	40.0	35.4	21.6	19.3	12.5	10.2	10.2
TOTAL AF		1790.0	1480.0	1660.0	1800.0	1710.0	5260.0	2660.0	1780.0	1250.0	918.0	641.0	678.0
WATER YEAR 81-82	MEAN	13.0	16.1	14.7	31.9	61.5	117.8	324.2	168.2	76.3	45.2	35.4	26.9
	MAX.	21.2	69.7	18.9	49.4	101.1	235.5	429.3	287.4	97.0	55.1	39.2	30.3
	MIN.	9.2	10.1	10.1	15.2	34.0	40.1	244.6	99.8	55.6	38.2	30.8	22.8
TOTAL AF		799.0	960.0	904.0	1963.8	3414.9	7241.8	19931.9	10339.8	4538.4	2782.0	2175.7	1603.2

WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : P4B-R

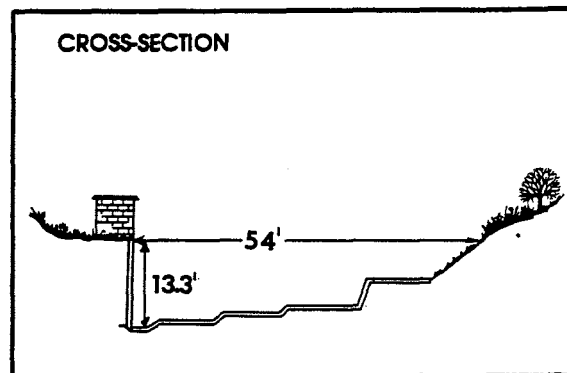
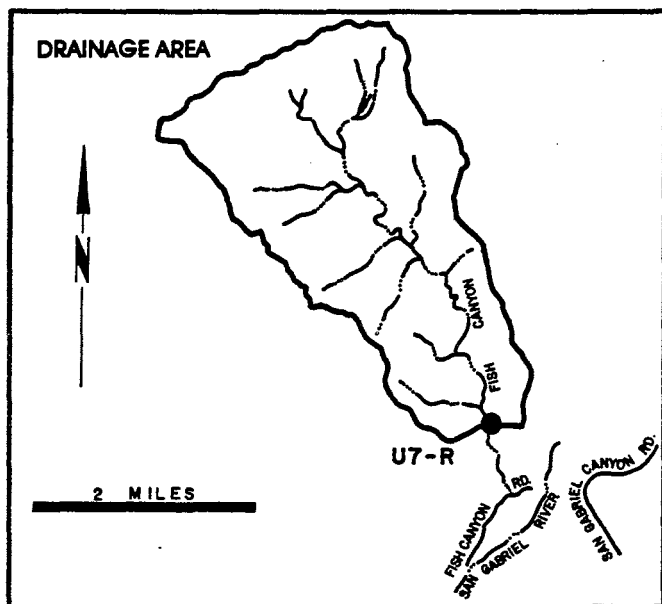
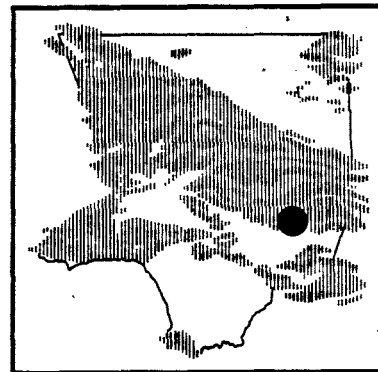
DRAINAGE AREA : 88.20 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	20.9	25.6	87.2	111.0	262.0	1124.0	384.0	428.0	241.0	122.0	85.8	60.3
	MAX.	27.2	29.9	346.0	399.0	513.0	5437.0	576.0	552.0	338.0	137.0	118.0	164.0
	MIN.	18.5	21.3	30.0	30.8	157.0	370.0	247.0	338.0	172.0	91.5	64.5	26.4
TOTAL AF		1287.9	1524.9	5362.0	6840.0	14530.0	69092.0	22830.0	26300.0	14340.0	7500.0	5280.0	3585.0
WATER YEAR 83-84	MEAN	58.1	69.0	94.1	69.3	49.6	32.5	29.9	20.8	16.7	21.0	16.9	14.1
	MAX.	162.0	318.0	616.0	96.0	53.0	46.0	42.5	22.5	32.0	46.0	63.0	39.1
	MIN.	47.9	42.5	38.3	46.0	46.0	10.0	22.5	17.5	10.0	12.5	10.0	7.5
TOTAL AF		3570.0	4108.0	5784.0	4260.0	2850.0	2000.0	1780.0	1280.0	996.0	1290.0	1057.0	836.0
WATER YEAR 84-85	MEAN	13.5	16.6	107.0	86.7	47.1	50.7	67.7	45.2	28.6	20.0	13.3	12.0
	MAX.	15.6	30.0	400.0	130.0	51.7	67.0	80.7	58.7	35.0	25.8	17.0	12.0
	MIN.	13.0	13.0	15.0	50.0	45.0	45.3	50.5	34.8	19.0	14.7	12.0	12.0
TOTAL AF		832.0	989.0	6585.0	5330.0	2613.0	3117.0	4027.0	2780.0	1463.0	1230.0	819.0	714.0
WATER YEAR 85-86	MEAN	10.4	36.0	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.
	MAX.	11.0	126.0	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.
	MIN.	9.9	11.0	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.
TOTAL AF		639.0	2151.0	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.
WATER YEAR 86-87	MEAN												
	MAX.				NO	DATA	FOR	1986	THRU	1987			
	MIN.												
TOTAL AF													

FISH CREEK

above Mouth of Canyon

STATION NO. U7-R



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.

WATER YEARS : 1980-1982
 (DISCHARGE IN SEC-FT)

STATION NO. : U7-R

DRAINAGE AREA : 6.36 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	1.3	1.2	1.8	4.7	2.6	5.8	1.6	0.8	0.4	0.2	0.2	0.2
	MAX.	1.5	1.6	5.1	43.5	8.9	39.3	4.2	1.2	0.7	0.3	0.2	0.2
	MIN.	1.1	1.2	1.3	1.3	1.0	1.9	0.6	0.6	0.3	0.2	0.2	0.2
TOTAL AF		79.5	73.6	113.0	287.0	147.0	357.0	92.4	50.8	26.8	12.7	12.3	11.9
WATER YEAR 81-82	MEAN	0.6	1.6	0.5	2.1	0.5	2.1	8.9	2.2	2.2	1.4	0.7	0.7
	MAX.	1.1	7.4	1.4	10.9	1.3	8.3	12.6	4.4	4.3	4.3	1.0	3.5
	MIN.	1.2	0.1	0.3	0.8	0.1	1.2	4.9	1.3	1.7	0.8	0.5	0.4
TOTAL AF		39.1	95.8	31.9	131.0	30.3	130.0	527.0	135.0	130.0	86.7	45.6	42.0

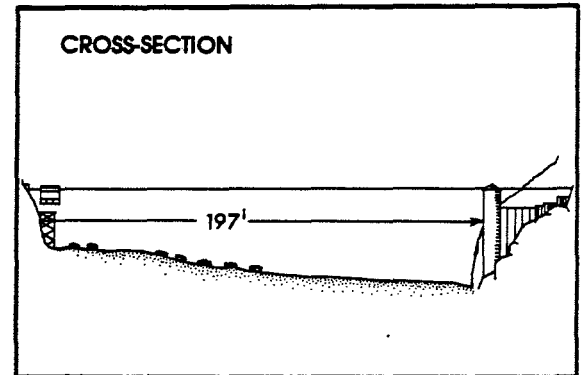
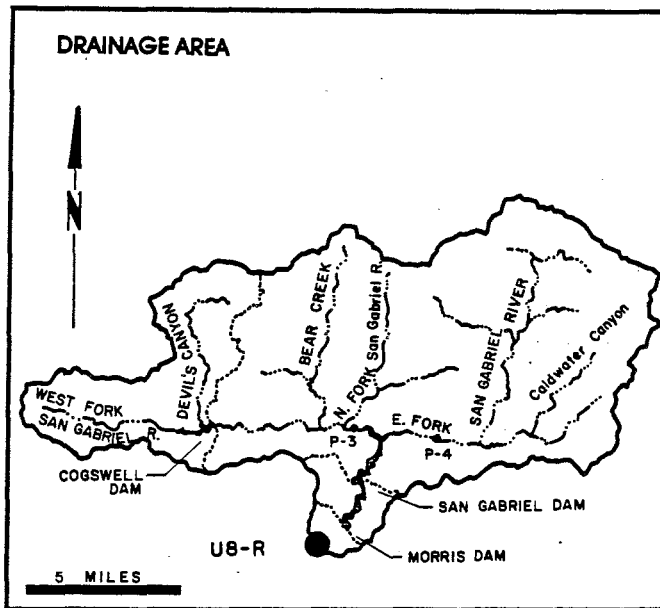
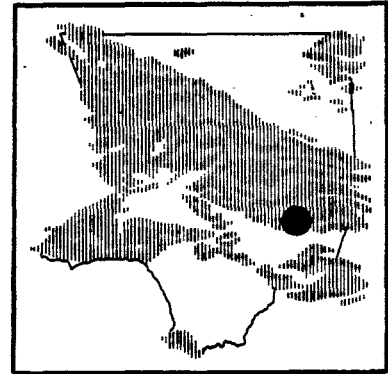
WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : U7-R

DRAINAGE AREA : 6.36 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	0.6	2.3	4.5	26.0	30.4	82.7	22.7	20.3	17.2	9.1	5.9	2.9
	MAX.	1.5	27.0	50.6	186.0	97.1	575.0	36.4	22.9	26.5	18.0	10.1	5.1
	MIN.	0.4	0.7	1.3	2.8	10.4	17.6	17.6	13.5	12.9	3.8	3.8	2.2
TOTAL AF		38.3	134.0	280.0	1600.0	1690.0	5090.0	1350.0	1250.0	1030.0	558.0	363.0	171.0
WATER YEAR 83-84	MEAN	2.4	4.7	5.4	3.1	2.7	1.7	1.4	1.0	1.6	0.2	0.2	0.3
	MAX.	7.5	13.1	35.1	4.4	3.3	2.9	2.3	1.3	2.9	0.4	0.9	0.3
	MIN.	1.1	2.8	0.9	0.9	2.0	1.1	0.7	1.0	0.3	+	+	+
TOTAL AF		150.0	279.0	331.0	189.0	154.0	103.0	80.9	64.5	95.0	11.5	13.1	15.3
WATER YEAR 84-85	MEAN	0.4	1.4	4.7	0.2	6.0	2.4	1.2	0.9	0.4	INC.	INC.	INC.
	MAX.	0.6	3.9	29.4	1.6	23.4	6.0	1.9	2.0	1.6	INC.	INC.	INC.
	MIN.	0.3	0.4	1.3	0.1	0.1	1.1	0.6	0.3	0.1	INC.	INC.	INC.
TOTAL AF		26.0	82.1	290.0	9.7	334.0	148.0	69.2	58.3	21.4	INC.	INC.	INC.
WATER YEAR 85-86	MEAN	INC.	INC.	INC.	INC.	INC.	12.0	4.8	4.4	2.2	INC.	INC.	INC.
	MAX.	INC.	INC.	INC.	INC.	INC.	33.2	6.6	5.4	3.8	INC.	INC.	INC.
	MIN.	INC.	INC.	INC.	INC.	INC.	5.8	4.3	3.4	0.3	INC.	INC.	INC.
TOTAL AF		INC.	INC.	INC.	INC.	INC.	741.0	286.0	271.0	131.0	INC.	INC.	INC.
WATER YEAR 86-87	MEAN	1.6	2.6	2.5	3.8	2.9	3.5	1.4	0.6	0.2	0.1	0.0	0.0
	MAX.	2.5	10.8	3.7	14.2	4.8	7.6	3.4	1.4	0.3	0.1	0.1	0.1
	MIN.	0.0	1.6	2.2	2.3	2.1	2.0	0.4	0.3	0.1	0.0	0.0	0.0
TOTAL AF		99.4	154.0	154.0	233.0	161.0	217.0	83.5	35.3	9.7	4.2	2.8	2.8

SAN GABRIEL RIVER below Morris Dam STATION NO.U8-R



RECORDER- continuous water stage.

METHOD OF MEASUREMENTS- wading or from cable car.

DRAINAGE AREA- 212.4 square miles.

LOCATION- 1.4 miles downstream of Morris Dam, 2.7 miles northeast of Azusa.

REGULATION- all flows regulated by Cogswell, San Gabriel, and Morris Dams.

CHANNEL- gravel and boulders, natural section.

CONTROL- concrete control.

LENGTH OF RECORD- May 1894 to date.

REMARKS- flows up to 90 cfs are at times diverted past the station through the Azusa Conduit; flows at station may include imported water from the MWD outlet below Morris Dam.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : U8-R

DRAINAGE AREA : 212.40 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER	MEAN	95.8	261.0	68.5	+	0.0	0.1	0.0	0.0	0.0	7.9	20.0	0.0
	YEAR	102.0	415.0	391.0	0.6	0.0	1.6	0.0	0.0	0.0	73.1	72.0	0.0
	80-81	91.5	58.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		5890.0	15520.0	4210.0	1.6	0.0	6.1	0.0	0.0	0.0	485.0	1230.0	0.0
WATER	MEAN	69.2	28.2	141.0	126.0	127.0	73.5	0.1	4.1	150.0	37.0	0.3	334.0
	YEAR	166.0	81.5	260.0	146.0	134.0	156.0	2.6	66.5	403.0	216.0	8.6	586.0
	81-82	0.3	0.3	0.7	0.4	77.6	0.0	0.0	0.0	0.0	0.0	0.0	19.7
TOTAL AF		4250.0	1680.0	8660.0	7750.0	7070.0	4520.0	5.4	255.0	8940.0	2280.0	17.1	19860.0

WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : U8-R

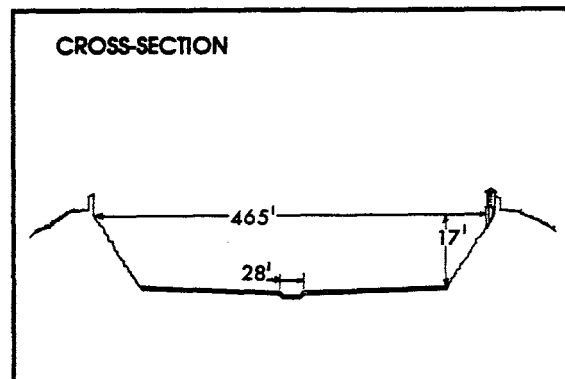
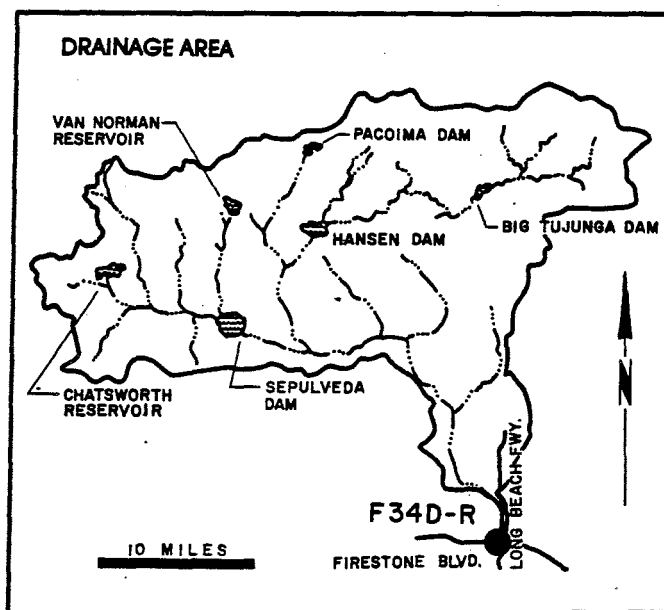
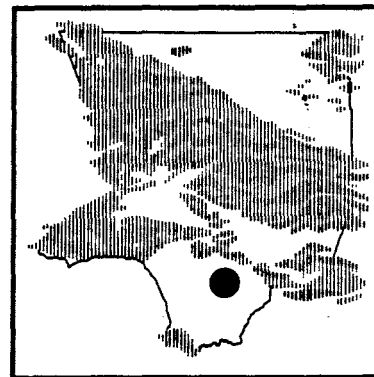
DRAINAGE AREA : 212.40 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	379.0	343.0	91.5	142.0	235.0	2120.0	573.0	817.0	728.0	387.0	0.0	0.0
	MAX.	533.0	519.0	464.0	287.0	378.0	11600.0	1800.0	1310.0	856.0	619.0	0.0	0.0
	MIN.	162.0	0.0	0.0	0.0	0.8	181.0	45.6	581.0	581.0	0.0	0.0	0.0
TOTAL AF		23320.0	20400.0	5622.7	8720.0	13040.0	130100	34100.0	50260.0	43340.0	23800.0	0.0	0.0
WATER YEAR 83-84	MEAN	325.0	189.0	0.8	253.0	13.2	0.0	0.0	0.0	0.0	0.0	0.0	13.7
	MAX.	478.0	485.0	21.8	469.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	53.4
	MIN.	0.0	+	0.0	42.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		19960.0	11250.0	46.4	15580.0	762.0	0.0	0.0	0.0	0.0	0.0	0.0	817.0
WATER YEAR 84-85	MEAN	37.5	24.6	19.9	193.0	0.0	0.0	13.0	39.2	40.9	35.9	34.7	139.0
	MAX.	47.0	45.2	26.0	464.0	0.0	0.0	53.0	63.2	47.0	38.9	36.2	210.0
	MIN.	35.3	18.8	0.0	0.0	0.0	0.0	0.0	0.0	38.0	35.3	33.5	33.5
TOTAL AF		2310.0	1460.0	1220.0	11900.0	0.0	0.0	772.0	2420.0	2430.0	2210.0	2130.0	8250.0
WATER YEAR 85-86	MEAN	192.0	146.0	171.0	122.0	256.0	272.0	252.0	166.0	0.0	INC.	INC.	INC.
	MAX.	212.0	183.0	245.0	168.0	831.0	831.0	415.0	415.0	0.0	INC.	INC.	INC.
	MIN.	174.0	0.0	166.0	0.0	0.0	0.8	0.0	0.0	0.0	INC.	INC.	INC.
TOTAL AF		11820.0	8670.0	10530.0	7480.0	14240.0	16750.0	15010.0	10220.0	0.0	INC.	INC.	INC.
WATER YEAR 86-87	MEAN	1.9	68.9	133.0	107.0	147.0	140.0	102.0	0.0	0.0	4.2	10.9	21.6
	MAX.	29.1	146.0	146.0	142.0	186.0	143.0	143.0	0.0	0.0	52.7	60.0	384.0
	MIN.	0.0	0.0	0.0	0.0	139.0	140.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		117.0	4100.0	8150.0	6580.0	8140.0	8630.0	6060.0	0.0	0.0	257.0	668.0	1290.0

LOS ANGELES RIVER

below Firestone Boulevard

STATION NO. F34D-R



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 Dam; 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.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : F34D-R

DRAINAGE AREA : 596.00 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	54.8	44.2	105.3	305.3	147.0	534.0	71.9	78.3	59.8	41.9	44.5	45.2
	MAX.	71.0	60.0	1750.0	3850.0	1130.0	3870.0	288.0	127.0	75.2	60.2	56.4	65.5
	MIN.	38.8	38.8	36.4	34.0	30.2	34.9	43.4	41.2	42.5	29.0	31.3	26.6
TOTAL AF		3367.8	2631.9	6472.8	18771.0	8173.0	32855.0	4278.0	4816.0	3558.0	2575.0	2737.0	2693.0
WATER YEAR 81-82	MEAN	70.5	234.0	70.1	303.0	94.9	572.0	410.0	70.8	52.2	52.2	52.2	153.0
	MAX.	612.0	3300.0	903.0	3910.0	956.0	5730.0	4800.0	139.0	89.9	73.1	63.7	1180.0
	MIN.	31.3	27.8	27.8	36.0	41.9	38.8	34.9	24.6	30.2	45.0	37.2	43.4
TOTAL AF		4340.0	13900.0	4310.0	18650.0	5270.0	35180.0	24380.0	4360.0	3110.0	3210.0	3210.0	9080.0

WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F34D-R

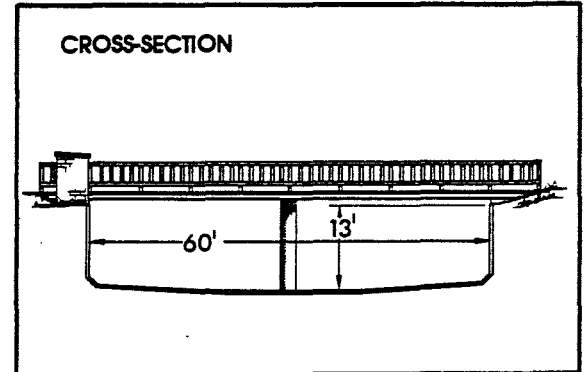
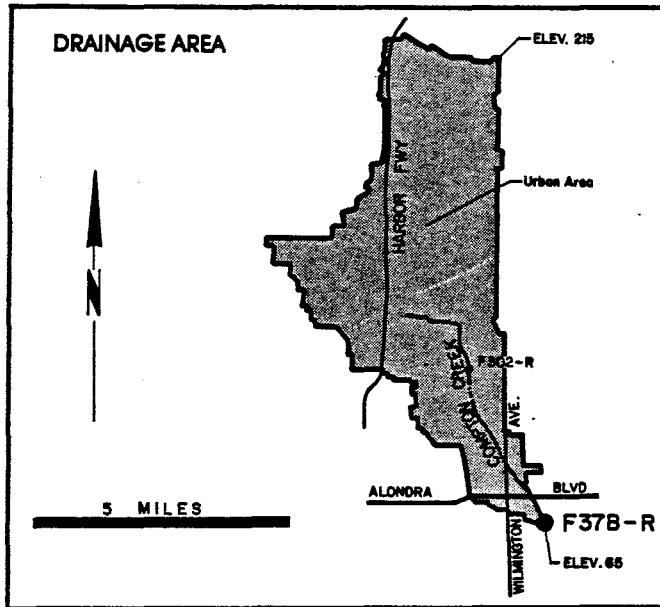
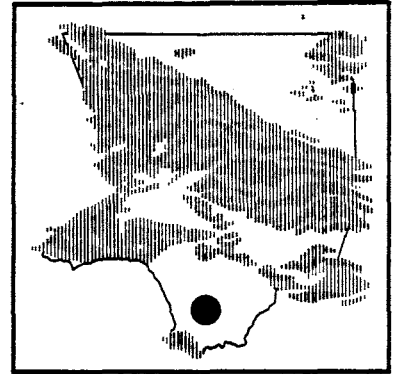
DRAINAGE AREA : 596.00 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	60.2	648.0	233.0	1040.0	1030.0	3920.0	918.0	443.0	84.2	71.5	141.0	159.0
	MAX.	182.0	8320.0	3310.0	8850.0	5300.0	32400.0	4370.0	1330.0	199.0	87.8	702.0	2080.0
	MIN.	36.0	38.8	41.9	33.7	81.5	352.0	293.0	252.0	58.3	60.1	60.1	45.0
TOTAL AF		3700.0	38570.0	14360.0	63840.0	57120.0	240800	54600.0	27270.0	5010.0	4400.0	8700.0	9450.0
WATER YEAR 83-84	MEAN	276.0	348.0	414.0	77.4	72.7	76.4	55.6	51.0	56.1	44.0	50.3	41.2
	MAX.	3540.0	1670.0	5650.0	101.0	105.0	377.0	240.0	65.5	71.0	63.7	217.0	46.6
	MIN.	52.8	85.7	56.4	71.0	60.1	52.8	30.2	40.3	48.1	23.7	22.8	30.2
TOTAL AF		16990.0	20690.0	25430.0	4760.0	4180.0	4700.0	3310.0	3140.0	3340.0	2710.0	3090.0	2450.0
WATER YEAR 84-85	MEAN	68.2	177.0	538.0	110.0	225.0	124.0	60.3	64.5	62.9	59.2	42.5	INC.
	MAX.	219.0	1320.0	4560.0	616.0	3910.0	1150.0	110.0	257.0	71.0	81.0	58.3	INC.
	MIN.	43.4	48.1	54.6	54.6	49.7	48.1	49.7	51.2	56.4	45.0	33.7	INC.
TOTAL AF		4190.0	10550.0	33090.0	6750.0	12500.0	7650.0	3590.0	3960.0	3740.0	3640.0	2620.0	INC.
WATER YEAR 85-86	MEAN												
	MAX.				NO	DATA	FOR	1985	THRU	1986			
	MIN.												
TOTAL AF													
WATER YEAR 86-87	MEAN												
	MAX.				NO	DATA	FOR	1986	THRU	1987			
	MIN.												
TOTAL AF													

COMPTON CREEK

near Greenleaf Drive

STATION NO. F37B-R



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 south west 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

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : - F37B-R

DRAINAGE AREA : 22.60 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	0.5	0.4	14.6	11.7	11.0	32.1	2.2	0.7	0.7	0.8	1.0	1.2
	MAX.	0.9	0.7	337.0	182.0	117.0	440.0	28.7	1.2	1.6	1.2	2.3	2.3
	MIN.	0.3	0.1	0.6	0.3	0.3	0.1	0.3	0.3	0.6	0.6	0.3	0.7
TOTAL AF		29.4	26.6	897.0	720.0	613.0	1970.0	131.0	40.3	44.6	46.4	64.3	72.8
WATER YEAR 81-82	MEAN	2.7	13.3	5.9	18.9	3.7	20.9	9.0	0.6	0.7	INC.	INC.	INC.
	MAX.	57.3	178.0	136.0	205.0	89.9	237.0	159.0	1.6	1.2	INC.	INC.	INC.
	MIN.	0.4	0.6	0.6	0.3	0.3	0.4	0.4	0.4	0.3	INC.	INC.	INC.
TOTAL AF		165.0	794.0	366.0	1160.0	205.0	1290.0	538.0	38.9	43.0	INC.	INC.	INC.

WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F37B-R

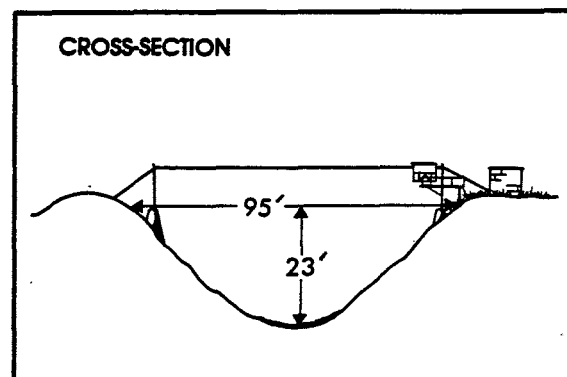
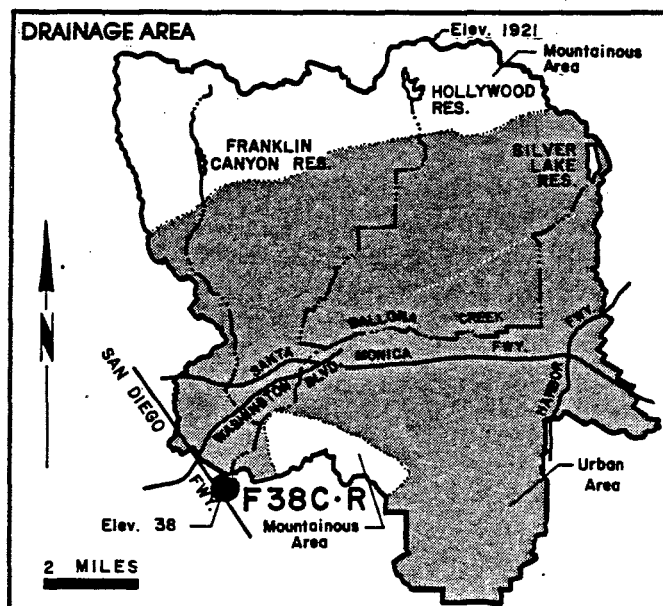
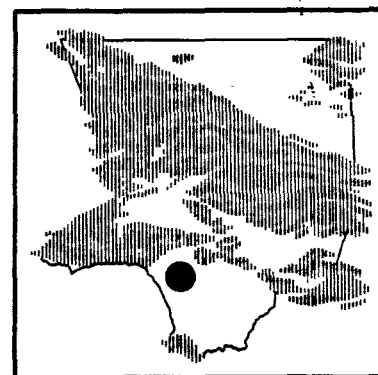
DRAINAGE AREA : 22.60 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	1.8	29.8	7.0	50.5	45.1	73.3	32.8	1.6	0.6	1.6	6.7	11.8
	MAX.	25.4	452.0	186.0	490.0	475.0	1010.0	297.0	30.3	0.9	2.3	141.0	213.0
	MIN.	0.4	0.6	0.4	0.6	0.6	0.6	0.4	0.4	0.4	0.7	0.6	0.6
TOTAL AF		113.0	1780.0	432.0	3110.0	2500.0	4510.0	1950.0	99.2	37.9	98.6	411.0	702.0
WATER YEAR 83-84	MEAN	8.4	22.3	15.0	0.6	0.9	1.9	7.1	0.4	0.6	0.9	5.2	0.9
	MAX.	168.0	277.0	145.0	1.2	1.2	34.7	125.0	0.7	1.2	1.6	124.0	1.9
	MIN.	0.6	0.4	0.4	0.4	0.7	0.3	0.3	0.3	0.3	0.3	0.4	0.4
TOTAL AF		518.0	1330.0	924.0	39.3	50.6	115.0	423.0	26.6	35.7	57.3	322.0	51.0
WATER YEAR 84-85	MEAN	1.8	9.8	35.5	5.7	21.1	10.1	0.4	1.2	0.6	0.9	0.8	1.6
	MAX.	33.2	175.0	369.0	97.0	458.0	200.0	0.7	22.8	1.6	1.6	1.2	12.3
	MIN.	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.7	0.7	0.3
TOTAL AF		113.0	586.0	2180.0	349.0	1170.0	619.0	24.8	74.6	33.3	57.1	49.2	98.0
WATER YEAR 85-86	MEAN	2.4	30.0	2.2	13.3	INC.	INC.	INC.	1.1	1.8	0.8	1.9	16.9
	MAX.	46.9	320.0	36.8	244.0	INC.	INC.	INC.	1.9	2.3	1.6	4.0	428.0
	MIN.	0.3	0.3	0.3	0.3	INC.	INC.	INC.	0.9	1.2	0.4	1.2	1.2
TOTAL AF		145.0	1790.0	138.0	816.0	INC.	INC.	INC.	70.4	104.0	51.6	117.0	1010.0
WATER YEAR 86-87	MEAN	4.3	8.5	3.4	11.1	4.8	5.4	1.5	1.5	2.3	1.3	1.5	3.2
	MAX.	95.1	127.0	45.2	187.0	66.0	55.3	8.8	2.3	14.7	1.6	2.3	26.2
	MIN.	0.7	0.7	0.7	0.7	0.9	0.4	0.4	0.9	0.7	1.2	1.2	0.9
TOTAL AF		267.0	505.0	212.0	683.0	267.0	329.0	86.9	91.4	135.0	77.8	91.2	190.0

BALLONA CREEK

above Sawtelle Boulevard

STATION NO. F38C-R



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.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : F38C-R

DRAINAGE AREA : 88.60 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	12.8	13.3	8.3	72.6	34.1	113.0	18.9	10.9	12.1	13.6	11.8	10.7
	MAX.	15.0	19.0	10.6	927.0	470.0	1090.0	139.0	11.8	12.4	18.0	15.0	14.8
	MIN.	12.4	10.6	6.6	7.0	10.0	9.4	7.6	10.0	10.6	10.0	7.6	7.6
TOTAL AF		787.0	790.0	509.0	4460.0	1890.0	6960.0	1130.0	671.0	720.0	835.0	726.0	636.0
WATER YEAR 81-82	MEAN	14.0	64.7	22.9	76.0	26.8	130.0	75.0	13.3	12.8	12.7	13.8	33.3
	MAX.	185.0	798.0	395.0	889.0	447.0	1380.0	1140.0	31.9	17.0	18.0	51.9	253.0
	MIN.	5.8	6.2	8.2	7.6	8.8	8.2	11.2	11.8	10.6	10.0	10.6	11.8
TOTAL AF		860.0	3850.0	1410.0	4860.0	1490.0	7990.0	4470.0	815.0	759.0	779.0	852.0	1980.0

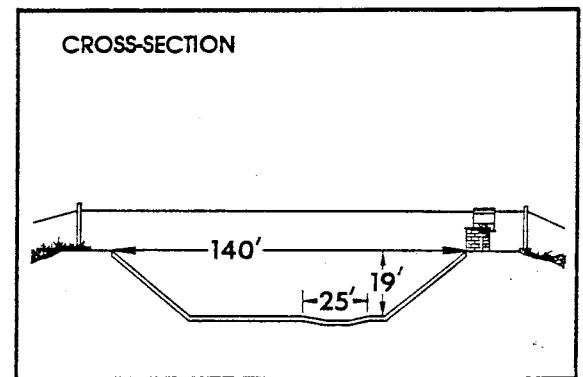
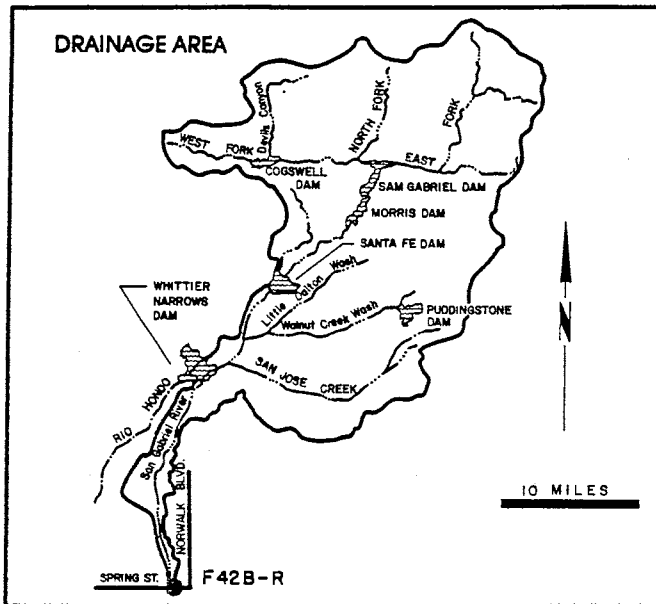
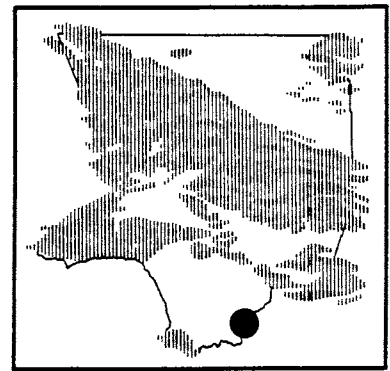
WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F38C-R

DRAINAGE AREA : 88.60 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	14.6	147.0	41.8	272.0	175.0	434.0	163.0	23.7	17.3	18.7	44.5	82.0
	MAX.	71.9	2220.0	949.0	2470.0	1380.0	5690.0	1140.0	133.0	23.2	25.2	484.0	1140.0
	MIN.	8.2	8.8	8.8	8.8	10.0	23.3	16.0	18.0	13.0	12.4	15.0	15.0
TOTAL AF		898.0	8750.0	2570.0	16720.0	9730.0	26690.0	9730.0	1460.0	1030.0	1150.0	2740.0	4880.0
WATER YEAR 83-84	MEAN	52.5	103.0	123.0	16.3	15.5	19.8	28.5	14.8	14.6	13.8	20.0	18.6
	MAX.	699.0	1110.0	1440.0	86.7	22.0	189.0	319.0	22.0	19.0	17.0	180.0	74.6
	MIN.	13.0	12.4	11.8	12.4	12.4	11.2	10.6	11.8	11.8	11.2	11.8	10.0
TOTAL AF		3230.0	6130.0	7550.0	1000.0	894.0	1220.0	1700.0	911.0	868.0	847.0	1230.0	1100.0
WATER YEAR 84-85	MEAN	14.4	49.6	139.0	29.6	102.0	51.3	12.4	13.7	13.7	12.7	12.1	13.1
	MAX.	82.6	636.0	1310.0	413.0	1820.0	982.0	16.0	71.4	41.0	22.0	12.4	17.6
	MIN.	10.0	10.0	8.8	10.6	11.2	9.4	10.6	8.8	8.2	10.6	11.8	11.8
TOTAL AF		883.0	2950.0	8530.0	1820.0	5680.0	3160.0	737.0	840.0	813.0	781.0	742.0	777.0
WATER YEAR 85-86	MEAN	21.5	114.0	19.2	84.0	235.0	187.0	31.4	19.4	14.6	14.3	13.7	73.5
	MAX.	299.0	914.0	186.0	1180.0	2750.0	1900.0	313.0	27.4	16.0	31.7	16.0	1720.0
	MIN.	9.4	10.0	8.8	8.8	10.0	11.2	13.0	14.0	13.0	11.2	11.8	11.2
TOTAL AF		1320.0	6760.0	1180.0	5160.0	13070.0	11520.0	1870.0	1190.0	871.0	882.0	842.0	4370.0
WATER YEAR 86-87	MEAN	16.4	10.6	11.6	38.1	43.0	41.0	12.5	12.0	12.0	12.0	12.0	12.0
	MAX.	185.0	13.0	31.9	752.0	434.0	339.0	14.0	12.0	12.0	12.0	12.0	12.0
	MIN.	8.8	7.6	10.0	8.8	9.4	11.2	11.2	12.0	12.0	12.0	12.0	12.0
TOTAL AF		1010.0	628.0	714.0	2340.0	2390.0	2520.0	741.0	738.0	738.0	738.0	738.0	738.0

SAN GABRIEL RIVER above Spring Street STATION NO. F42B-R



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.

WATER YEARS : 1980-1982
 (DISCHARGE IN SEC-FT)

STATION NO. : F42B-R

DRAINAGE AREA : 231.00 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	35.3	31.5	41.4	INC.	INC.	INC.	INC.	77.0	73.9	46.7	55.8	INC.
	MAX.	41.5	36.8	163.0	INC.	INC.	INC.	INC.	87.6	93.6	77.3	103.0	INC.
	MIN.	30.4	27.0	28.2	INC.	INC.	INC.	INC.	63.3	59.8	21.3	28.2	INC.
TOTAL AF		2170.0	1880.0	2550.0	INC.	INC.	INC.	INC.	4740.0	4400.0	2870.0	3430.0	INC.
WATER YEAR 81-82	MEAN	59.7	58.1	87.5	95.5	63.1	94.5	80.1	70.5	73.5	64.7	69.4	76.2
	MAX.	102.0	178.0	206.0	269.0	93.6	433.0	162.0	104.0	99.0	117.0	103.0	120.0
	MIN.	39.5	43.4	65.9	47.7	46.8	38.7	66.9	42.5	46.8	31.4	45.1	45.1
TOTAL AF		3670.0	3460.0	5380.0	5870.0	3500.0	5810.0	4770.0	4330.0	4370.0	3980.0	4270.0	4530.0

WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

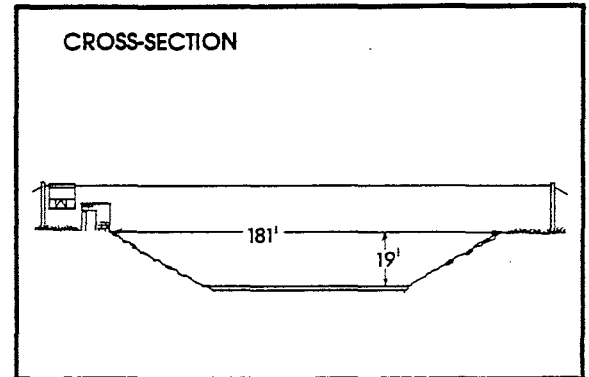
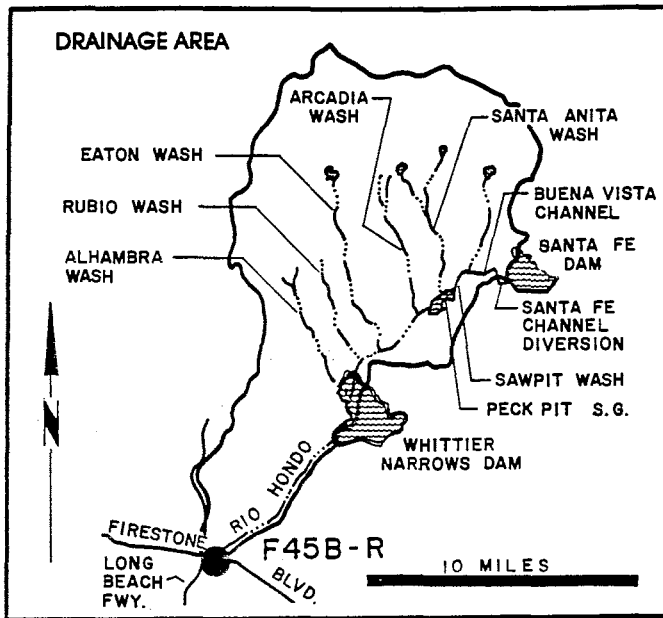
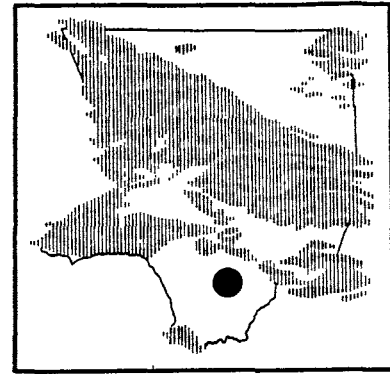
STATION NO. : F42B-R

DRAINAGE AREA : 231.00 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	81.5	137.0	115.0	120.0	251.0	1160.0	140.0	181.0	118.0	118.0	109.0	114.0
	MAX.	128.0	435.0	228.0	472.0	1790.0	5900.0	365.0	314.0	134.0	136.0	174.0	288.0
	MIN.	51.2	104.0	86.3	43.4	108.0	124.0	94.9	99.0	57.0	102.0	96.3	93.6
	TOTAL AF	5010.0	8150.0	7070.0	7380.0	13950.0	71200.0	8320.0	11120.0	70710.0	7260.0	6730.0	6770.0
WATER YEAR 83-84	MEAN	125.0	154.0	139.0	122.0	132.0	97.4	62.7	58.9	61.7	85.5	134.0	134.0
	MAX.	406.0	436.0	483.0	168.0	246.0	143.0	135.0	124.0	114.0	130.0	229.0	149.0
	MIN.	100.0	113.0	103.0	107.0	111.0	38.0	32.8	46.8	40.2	37.2	115.0	117.0
	TOTAL AF	7670.0	9180.0	8550.0	7500.0	7570.0	5990.0	3730.0	3620.0	3570.0	5260.0	8230.0	7970.0
WATER YEAR 84-85	MEAN	147.0	146.0	185.0	120.0	132.0	91.5	53.4	58.2	88.3	120.0	128.0	127.0
	MAX.	178.0	269.0	477.0	205.0	488.0	253.0	90.0	125.0	145.0	139.0	146.0	140.0
	MIN.	139.0	125.0	114.0	46.0	65.9	46.8	46.0	44.2	46.0	106.0	114.0	117.0
	TOTAL AF	9060.0	8670.0	11390.0	7370.0	7320.0	5630.0	3180.0	3580.0	5250.0	7400.0	7840.0	7550.0
WATER YEAR 85-86	MEAN	122.0	135.0	93.9	155.0	239.0	189.0	130.0	INC.	INC.	INC.	INC.	INC.
	MAX.	136.0	450.0	149.0	406.0	1340.0	637.0	195.0	INC.	INC.	INC.	INC.	INC.
	MIN.	96.3	53.1	46.8	51.2	148.0	83.9	111.0	INC.	INC.	INC.	INC.	INC.
	TOTAL AF	7490.0	8000.0	5780.0	9560.0	13270.0	11620.0	7730.0	INC.	INC.	INC.	INC.	INC.
WATER YEAR 86-87	MEAN	91.0	108.0	95.6	161.0	141.0	142.0	121.0	92.9	119.0	96.0	100.0	92.8
	MAX.	228.0	219.0	149.0	1110.0	229.0	206.0	168.0	146.0	157.0	173.0	197.0	126.0
	MIN.	45.1	32.9	36.5	39.1	120.0	115.0	50.3	44.2	46.0	52.8	39.8	45.8
	TOTAL AF	5600.0	6430.0	5880.0	9930.0	7840.0	8740.0	7210.0	5710.0	7100.0	5900.0	6180.0	5520.0

RIO HONDO

above Stewart and Gray Road
STATION NO. F45B-R



RECORDER- continuous water stage.

METHOD OF MEASUREMENTS- wading or from cable car.

DRAINAGE AREA- 140 square miles (excludes area above Santa Fe Dam).

LOCATION- 0.6 mile upstream of the confluence of Rio Hondo and Los Angeles River, 1.5 miles west of Downey.

REGULATION- partially regulated by Sierra Madre, Santa Anita, Sawpit, Eaton, Santa Fe, and Whittier Narrows Dams, several debris basins, and spreading grounds.

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

CONTROL- channel forms control.

LENGTH OF RECORD- at Station F45-R March 1, 1928 to April 18, 1951. at Station F45B-R October 31, 1951 to date.

REMARKS- subject to diversions from Eaton Creek, Monrovia Creek, Sawpit Creek, Little Santa Anita Canyon and other locations for irrigation and spreading. High flows from San Gabriel River may flow into Rio Hondo above Whittier Narrows Dam.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : F45B-R

DRAINAGE AREA : 140.00 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER	MEAN	0.3	0.4	14.5	37.4	9.0	92.1	0.7	0.3	0.5	0.5	0.4	0.3
YEAR	MAX.	0.7	1.6	444.0	904.0	88.5	2050.0	9.1	1.2	3.3	3.6	0.7	0.5
80-81	MIN.	0.1	0.1	+	0.1	0.1	0.1	+	0.1	0.1	0.1	0.1	0.1
TOTAL AF		17.3	22.8	889.0	2300.0	498.0	5660.0	39.1	15.5	27.2	29.8	22.4	17.1
WATER	MEAN	1.6	80.8	2.2	20.8	3.5	187.0	42.1	0.3	0.1	0.1	0.4	3.2
YEAR	MAX.	44.7	2230.0	55.9	313.0	76.9	4410.0	1150.0	5.6	0.5	0.1	1.4	52.0
81-82	MIN.	0.1	0.1	0.1	+	0.1	0.1	0.1	+	0.1	0.1	0.1	0.1
TOTAL AF		97.6	4810.0	137.0	1280.0	195.0	11500.0	2500.0	20.0	7.1	6.1	25.0	193.0

WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F45B-R

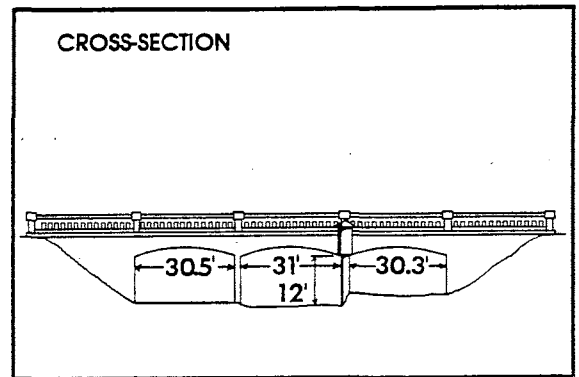
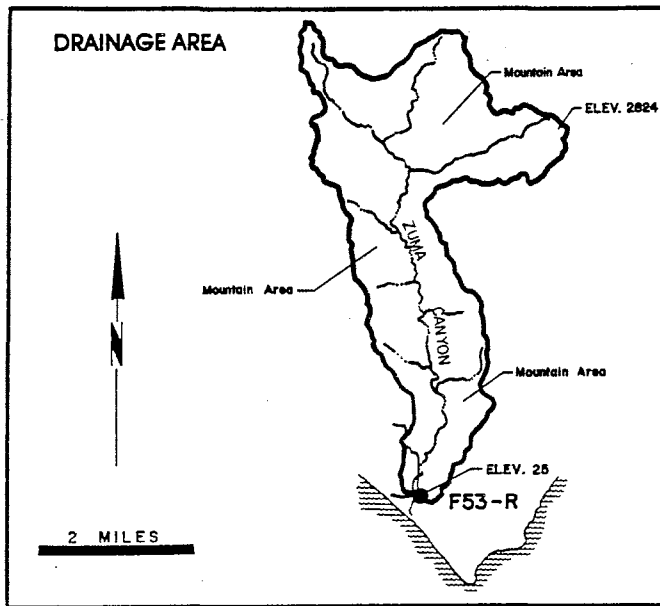
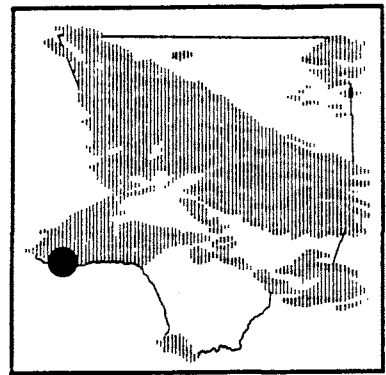
DRAINAGE AREA : 140.00 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	1.0	140.0	35.4	250.0	231.0	1890.0	174.0	94.5	0.1	1.1	10.4	10.9
	MAX.	16.1	3780.0	583.0	2330.0	4990.0	20600.0	1370.0	945.0	0.3	6.3	279.0	223.0
	MIN.	0.1	0.1	0.0	0.0	7.0	0.7	0.1	0.0	0.0	0.0	0.0	0.1
TOTAL AF		61.7	8330.0	2170.0	15390.0	12850.0	116300.0	10350.0	5810.0	4.2	66.8	639.0	649.0
WATER YEAR 83-84	MEAN	85.3	72.7	39.8	2.3	0.0	0.2	3.0	0.6	0.0	0.0	1.7	0.1
	MAX.	2600.0	865.0	1000.0	71.8	0.0	6.9	51.9	18.8	0.0	0.0	52.2	2.6
	MIN.	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		5240.0	4330.0	2450.0	143.0	0.0	13.9	180.0	37.9	0.0	0.0	104.0	5.4
WATER YEAR 84-85	MEAN	1.0	13.0	96.4	6.9	43.2	4.5	0.8	1.1	0.4	1.2	0.7	1.7
	MAX.	9.7	148.0	1400.0	99.2	1120.0	111.0	4.5	19.5	1.2	11.5	1.2	10.6
	MIN.	0.3	0.3	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.5	0.1	0.9
TOTAL AF		59.1	774.0	5930.0	427.0	2400.0	280.0	46.0	66.2	24.2	75.8	40.9	99.0
WATER YEAR 85-86	MEAN	2.9	42.0	3.9	29.7	229.0	212.0	4.7	3.7	INC.	INC.	INC.	INC.
	MAX.	42.5	753.0	56.5	724.0	4500.0	3140.0	125.0	12.1	3.2	INC.	INC.	506.0
	MIN.	1.4	0.0	0.0	0.1	0.0	0.0	0.1	1.6	0.3	INC.	INC.	2.6
TOTAL AF		181.0	2500.0	240.0	1830.0	12710.0	13010.0	277.0	228.0	INC.	INC.	INC.	INC.
WATER YEAR 86-87	MEAN	13.1	5.6	2.9	59.1	14.0	5.2	0.9	0.5	0.4	0.5	0.2	0.8
	MAX.	165.0	67.9	48.6	1730.0	120.0	42.5	2.7	1.2	1.6	1.6	0.5	6.1
	MIN.	1.8	1.0	0.7	0.1	0.5	0.3	0.5	0.1	0.1	0.1	0.1	0.1
TOTAL AF		806.0	336.0	180.0	3630.0	780.0	321.0	55.5	27.8	26.4	30.1	13.3	48.4

DUME CREEK

at Pacific Coast Highway

STATION NO. F53-R



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

WATER YEARS : 1980-1982
 (DISCHARGE IN SEC-FT)

STATION NO. : F53-R

DRAINAGE AREA : 8.80 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	0.4	0.3	0.3	0.4	0.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0
	MAX.	0.5	0.4	2.6	6.4	0.5	17.7	+	0.0	0.0	0.0	0.0	0.0
	MIN.	0.4	0.3	0.2	0.2	+	+	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		27.0	19.0	18.0	25.4	4.4	43.2	+	0.0	0.0	0.0	0.0	0.0
WATER YEAR 81-82	MEAN	0.0	+	+	0.1	0.0	0.1	+	0.0	0.0	0.0	0.0	0.0
	MAX.	0.0	0.9	0.4	1.4	0.0	1.1	0.2	0.0	0.0	0.0	0.0	0.0
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		0.0	2.8	0.8	3.4	0.0	4.2	0.8	0.0	0.0	0.0	0.0	0.0

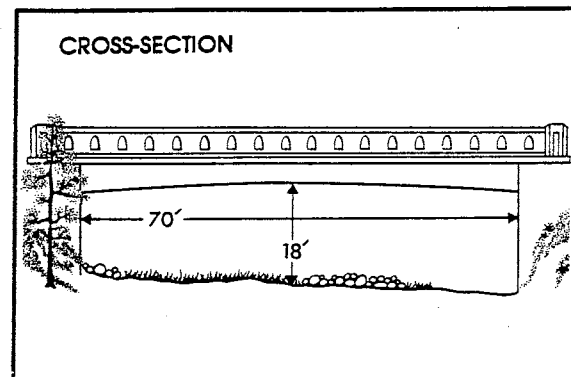
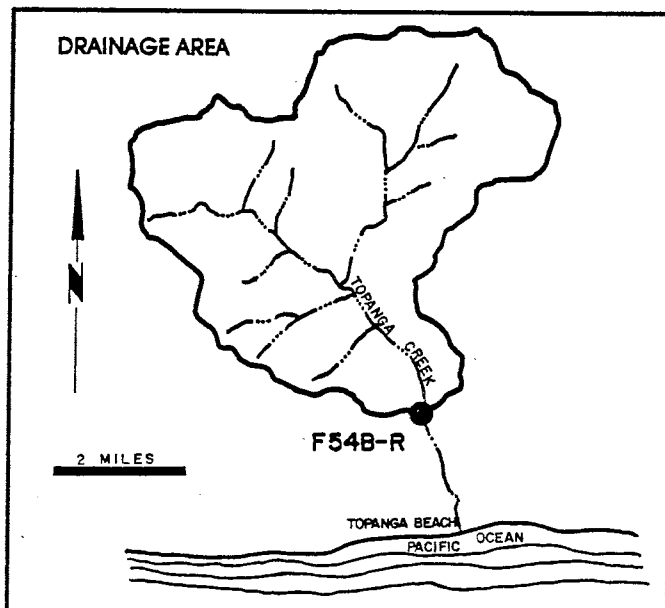
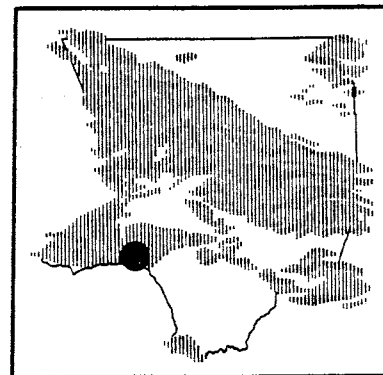
WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F53-R

DRAINAGE AREA : 8.80 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	0.0	2.8	0.5	21.1	17.3	39.2	10.8	3.1	2.0	1.4	1.1	1.1
	MAX.	0.0	76.4	8.6	242.0	104.0	480.0	20.3	4.8	2.1	1.7	1.6	6.9
	MIN.	0.0	0.0	0.0	0.0	0.6	8.5	5.0	2.2	1.7	1.2	1.0	0.9
TOTAL AF		0.0	164.0	32.1	1300.0	959.0	2410.0	640.0	189.0	118.0	85.1	66.4	66.4
WATER YEAR 83-84	MEAN	2.1	1.5	1.3	0.7	0.5	0.4	0.4	0.3	0.2	0.1	0.1	+
	MAX.	36.6	6.0	2.5	0.8	0.6	0.5	0.4	0.5	0.3	0.5	0.1	0.1
	MIN.	0.8	0.8	0.8	0.6	0.5	0.4	0.4	0.2	0.1	0.1	+	0.0
TOTAL AF		130.0	88.3	78.0	40.9	29.8	27.6	23.8	19.0	10.9	7.9	5.0	0.2
WATER YEAR 84-85	MEAN	+	+	0.1	+	+	+	+	0.0	0.0	0.0	0.0	0.0
	MAX.	+	0.5	2.5	0.3	1.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		+	1.0	7.5	0.6	2.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
WATER YEAR 85-86	MEAN	0.0	0.0	0.0	1.9	21.0	18.6	2.0	1.1	0.8	0.7	0.5	0.3
	MAX.	0.0	+	+	37.1	276.0	292.0	3.0	1.4	0.9	0.7	0.6	0.5
	MIN.	0.0	0.0	0.0	0.0	0.0	+	1.4	0.9	0.7	0.6	0.4	0.2
TOTAL AF		0.0	+	+	114.0	1210.0	1140.0	122.0	66.2	47.8	40.1	32.5	18.2
WATER YEAR 86-87	MEAN	0.2	0.1	0.1	0.1	+	+	0.0	0.0	0.0	+	0.04	0.02
	MAX.	0.3	0.3	0.1	0.3	0.1	0.1	0.0	0.0	0.0	+	+	+
	MIN.	0.1	0.1	0.1	+	0.0	0.0	0.0	0.0	0.0	+	+	+
TOTAL AF		11.9	6.3	6.1	5.4	0.6	1.0	0.0	0.0	0.0	0.4	2.5	1.2

TOPANGA CREEK above Mouth of Canyon STATION NO. F54B-R



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.

WATER YEARS : 1980-1982
 (DISCHARGE IN SEC-FT)

STATION NO. : F54B-R

DRAINAGE AREA : 18.00 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	0.7	0.8	0.9	2.6	1.5	11.0	1.6	1.0	0.4	0.2	0.2	0.1
	MAX.	0.7	1.1	6.0	38.6	6.8	89.7	2.4	1.2	0.7	0.3	0.2	0.1
	MIN.	0.7	0.7	0.7	0.6	0.8	1.2	1.1	0.7	0.3	0.2	0.1	0.1
TOTAL AF		43.0	44.6	54.0	158.5	84.3	678.8	96.0	62.1	26.8	14.3	10.9	6.0
WATER YEAR 81-82	MEAN	0.2	0.9	0.2	1.2	0.7	8.3	3.8	1.1	0.5	0.2	0.2	0.3
	MAX.	0.4	17.0	0.9	9.4	1.6	143.8	31.8	1.4	0.7	0.4	0.2	0.9
	MIN.	0.2	0.2	0.2	0.5	0.4	0.6	1.3	0.8	0.4	0.2	0.2	0.2
TOTAL AF		13.3	54.7	13.9	76.4	37.1	509.8	223.5	64.8	31.1	14.1	12.3	15.1

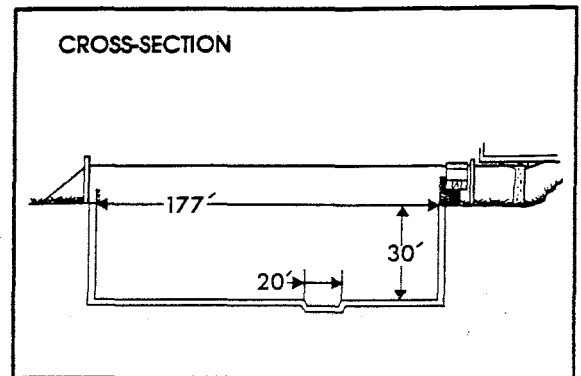
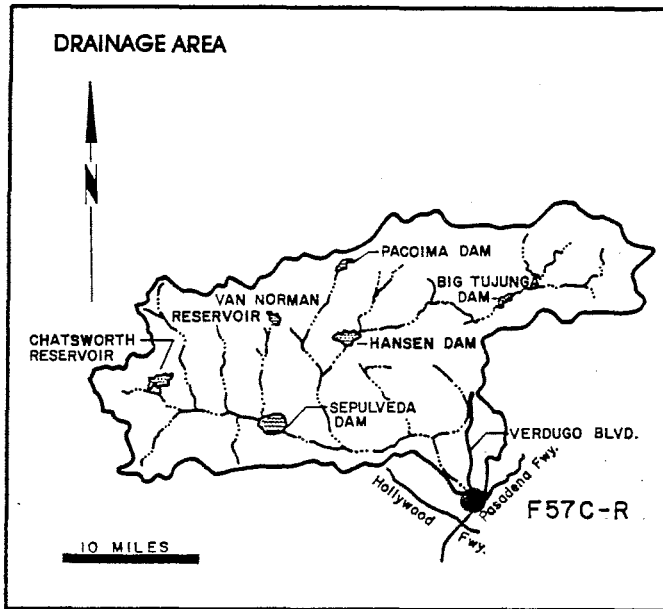
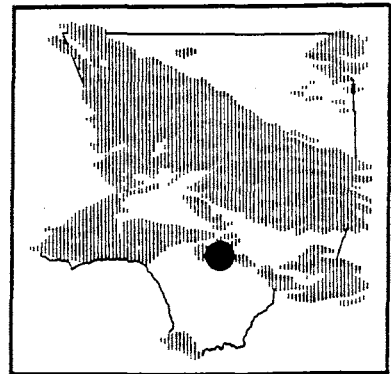
WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F54B-R

DRAINAGE AREA : 18.00 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	0.2	10.6	6.3	73.9	44.4	146.5	19.1	9.5	3.6	1.8	1.2	1.1
	MAX.	0.4	111.0	76.2	951.0	333.0	2274.0	55.6	24.4	5.2	2.5	3.2	7.8
	MIN.	0.2	0.2	0.8	0.5	6.0	14.0	9.0	5.4	2.5	1.2	0.8	0.8
TOTAL AF		15.1	633.8	390.0	4547.0	2467.0	9008.0	1137.0	586.9	214.2	109.3	71.2	62.9
WATER YEAR 83-84	MEAN	1.6	2.8	20.0	2.3	1.3	1.3	0.8	0.3	0.2	0.2	0.2	0.1
	MAX.	20.1	12.7	449.0	3.6	1.5	8.1	1.9	0.4	0.2	0.2	0.2	0.3
	MIN.	0.2	0.4	1.6	1.5	1.2	0.8	0.4	0.2	0.2	0.2	0.2	0.1
TOTAL AF		97.8	169.0	1230.0	141.6	75.4	81.7	48.0	19.0	11.9	12.3	12.3	7.5
WATER YEAR 84-85	MEAN	1.1	2.1	4.4	1.6	2.9	1.0	0.9	0.7	0.3	0.2	0.2	0.2
	MAX.	5.1	11.6	26.3	12.0	24.4	2.6	1.0	0.8	0.5	0.2	0.2	0.2
	MIN.	0.8	0.4	0.3	0.7	0.8	0.6	0.8	0.5	0.2	0.2	0.2	0.2
TOTAL AF		69.8	128.0	273.0	95.4	163.0	64.1	53.4	42.0	16.7	12.3	12.3	11.9
WATER YEAR 85-86	MEAN	0.4	1.3	0.8	8.8	84.5	22.9	3.7	1.3	0.7	0.3	0.3	0.6
	MAX.	4.0	12.2	4.1	182.0	823.0	239.0	7.5	2.0	0.9	0.5	0.3	5.0
	MIN.	0.2	0.2	0.4	0.4	1.9	5.7	2.1	0.9	0.5	0.3	0.2	0.2
TOTAL AF		22.2	79.7	50.8	543.0	4690.0	1410.0	220.0	79.3	42.2	20.6	15.7	35.3
WATER YEAR 86-87	MEAN												
	MAX.				NO	DATA	FOR	1986	THRU	1987			
	MIN.												
TOTAL AF													

LOS ANGELES RIVER above Arroyo Seco STATION NO. F57C-R



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.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : F57C-R

DRAINAGE AREA : 511.00 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	36.6	29.5	93.4	270.0	134.0	398.0	63.5	71.6	47.3	36.7	40.3	33.0
	MAX.	53.0	50.0	1500.0	3340.0	1010.0	3020.0	306.0	101.0	62.0	55.0	57.5	61.6
	MIN.	17.5	14.9	31.9	31.3	27.3	30.5	25.5	31.9	28.4	18.4	26.1	19.4
TOTAL AF		2250.0	1760.0	5740.0	16580.0	7430.0	24490.0	3780.0	4400.0	2810.0	2260.0	2480.0	1960.0
WATER YEAR 81-82	MEAN	43.3	211.0	58.8	219.0	73.6	525.0	283.0	56.1	37.1	32.3	32.3	72.4
	MAX.	313.0	3010.0	846.0	3180.0	830.0	5870.0	3630.0	126.0	75.4	59.0	45.9	801.0
	MIN.	14.0	16.3	20.3	25.0	26.1	25.0	22.2	11.0	14.2	23.9	20.0	16.5
TOTAL AF		2660.0	12550.0	3620.0	13460.0	4090.0	32310.0	16830.0	3450.0	2210.0	1980.0	1990.0	4310.0

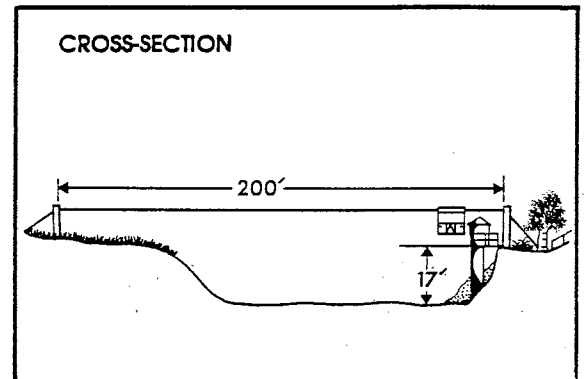
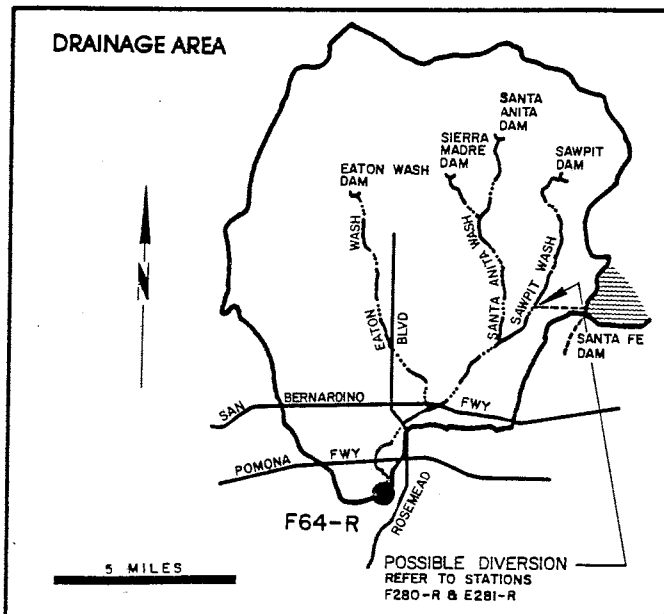
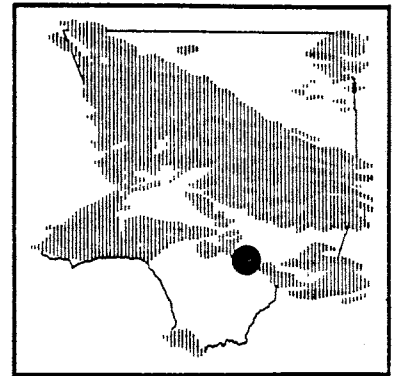
WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F57C-R

DRAINAGE AREA : 511.00 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	42.3	471.0	163.0	755.0	664.0	3280.0	627.0	296.0	69.5	47.1	131.0	156.0
	MAX.	149.0	5610.0	2700.0	6840.0	4150.0	25100.0	3020.0	846.0	156.0	56.0	976.0	2080.0
	MIN.	22.2	27.3	36.5	28.4	54.5	457.0	169.0	200.0	54.5	37.8	47.3	47.3
TOTAL AF		2600.0	28060.0	10030.0	46420.0	36890.0	201800.0	37340.0	18180.0	4140.0	2890.0	8050.0	9290.0
WATER YEAR 83-84	MEAN	175.0	261.0	294.0	60.2	55.4	64.6	49.2	42.2	42.5	35.6	36.4	36.1
	MAX.	2520.0	1170.0	4030.0	105.0	72.0	352.0	81.3	50.0	54.0	45.0	42.0	41.0
	MIN.	43.2	87.5	51.5	47.3	44.6	47.3	36.5	35.3	37.0	23.0	27.0	32.0
TOTAL AF		10770.0	15520.0	18080.0	3700.0	3190.0	3970.0	2930.0	2600.0	2530.0	2190.0	2240.0	2150.0
WATER YEAR 84-85	MEAN	44.6	140.0	389.0	86.2	145.0	96.1	54.2	54.2	41.0	42.8	40.4	46.8
	MAX.	225.0	1120.0	3380.0	539.0	2090.0	796.0	74.7	80.7	68.5	70.0	47.0	74.0
	MIN.	30.0	36.5	47.3	44.6	45.9	36.5	37.8	45.9	36.5	40.0	31.0	41.0
TOTAL AF		2750.0	8360.0	23900.0	5300.0	8040.0	5910.0	3230.0	3330.0	2440.0	2630.0	2480.0	2790.0
WATER YEAR 85-86	MEAN	71.0	333.0	103.0	361.0	612.0	476.0	143.0	90.2	90.3	90.0	90.0	146.0
	MAX.	300.0	3010.0	818.0	5110.0	4920.0	4250.0	1320.0	97.8	97.8	90.0	90.0	1140.0
	MIN.	60.0	59.0	59.0	62.0	72.0	85.0	77.2	82.4	80.7	90.0	90.0	82.4
TOTAL AF		4360.0	19810.0	6340.0	22180.0	33970.0	29260.0	8510.0	5540.0	5370.0	5530.0	5530.0	8690.0
WATER YEAR 86-87	MEAN	105.0	176.0	104.0	161.0	153.0	175.0	89.2	89.7	88.0	80.2	INC.	INC.
	MAX.	522.0	2090.0	524.0	1530.0	1020.0	1010.0	144.0	127.0	136.0	93.0	INC.	INC.
	MIN.	75.4	73.7	82.4	82.4	85.9	80.7	82.4	84.2	78.9	70.2	INC.	INC.
TOTAL AF		6480.0	10500.0	6380.0	9880.0	8480.0	10780.0	5300.0	5520.0	5240.0	4930.0	INC.	INC.

RIO HONDO above Mission Bridge STATION NO. F64-R



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.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : F64-R

DRAINAGE AREA : 115.00 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN												
	MAX.				NO	DATA	FOR	1980	THRU	1981			
	MIN.												
TOTAL AF													
WATER YEAR 81-82	MEAN	6.05	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.
	MAX.	8.2	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.
	MIN.	2.6	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.
TOTAL AF		372.1	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.

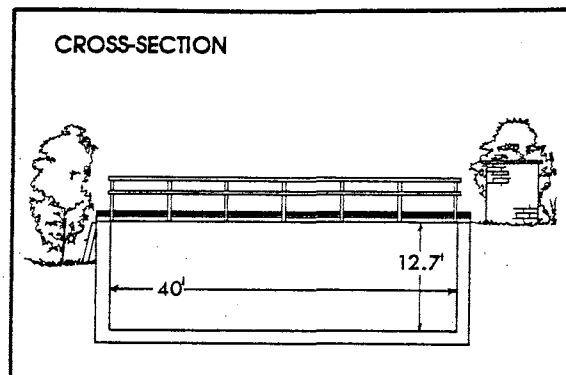
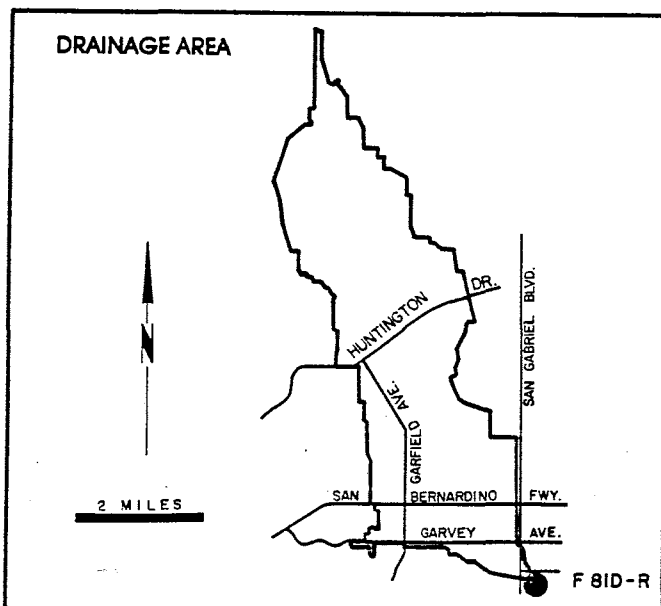
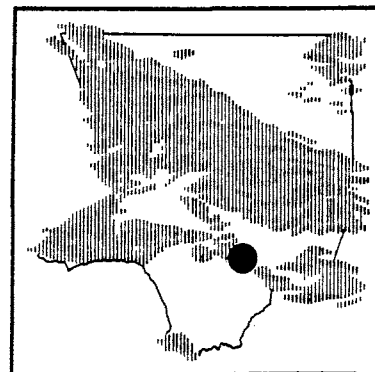
WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F64-R

DRAINAGE AREA : 115.00 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.
	MAX.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.
	MIN.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.
TOTAL AF		851.0	1031.6	584.4	311.6	135.0	0.0	132.0	1864.0	12262.0	1996.6	209.0	64.0
WATER YEAR 83-84	MEAN	143.0	90.1	59.3	13.1	8.0	10.1	11.0	8.3	7.4	6.9	14.9	15.8
	MAX.	467.0	484.0	7.51	93.2	9.5	55.5	349.0	9.2	8.2	10.4	244.0	92.8
	MIN.	3.0	5.8	9.3	1.9	7.3	6.7	7.2	6.9	6.9	4.2	5.8	6.7
TOTAL AF		8767.0	5359.0	3644.0	803.0	458.0	619.0	653.0	514.0	442.0	424.0	916.0	938.0
WATER YEAR 84-85	MEAN	6.1	33.8	102.0	17.9	33.3	18.5	7.3	8.1	5.5	5.1	5.0	7.1
	MAX.	23.8	339.0	764.0	178.0	519.0	202.0	11.5	86.3	8.0	7.2	6.1	76.4
	MIN.	5.0	4.0	4.4	4.6	4.7	6.9	5.1	4.3	4.3	3.8	4.3	4.0
TOTAL AF		377.0	2076.0	6284.0	1103.0	1851.0	1139.0	432.0	500.0	327.0	313.0	307.0	424.0
WATER YEAR 85-86	MEAN	12.5	51.9	8.5	54.9	166.0	139.0	144.0	130.0	4.8	5.7	2.9	37.5
	MAX.	205.0	566.0	120.0	1038.0	834.0	673.0	254.0	259.0	6.1	11.9	4.3	878.0
	MIN.	3.6	2.0	2.1	4.0	2.9	3.8	6.1	4.5	3.6	3.2	1.7	1.7
TOTAL AF		772.0	3090.0	524.0	3376.0	9203.0	8527.0	8557.0	7966.0	286.0	349.0	180.0	2229.0
WATER YEAR 86-87	MEAN	16.9	22.3	9.9	34.5	32.3	17.4	5.1	5.0	7.5	4.4	3.1	4.1
	MAX.	364.0	281.0	105.0	705.0	386.0	150.0	9.7	21.6	96.7	31.6	8.3	23.9
	MIN.	2.8	3.0	1.0	2.5	1.4	1.0	3.8	2.6	3.2	1.2	0.5	1.6
TOTAL AF		1039.0	1329.0	607.0	2118.0	1795.0	1067.0	303.0	305.0	444.0	268.0	190.0	242.0

ALHAMBRA WASH near Klingerman Street STATION NO. F81D-R



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.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : F81D-R

DRAINAGE AREA : 15.20 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	0.6	0.5	3.8	17.6	6.8	25.6	2.4	0.9	1.0	0.7	0.5	0.6
	MAX.	0.9	0.9	45.9	196.0	56.5	302.0	30.1	1.1	1.1	0.9	0.9	1.4
	MIN.	0.4	0.4	0.4	0.6	0.4	0.3	0.1	0.6	0.6	0.4	0.4	0.3
TOTAL AF		34.3	32.5	231.0	1080.0	380.0	1570.0	142.0	55.5	59.1	45.4	32.1	35.7
WATER YEAR 81-82	MEAN	1.9	10.0	2.1	4.3	3.9	27.0	11.4	1.1	0.6	1.1	0.9	7.3
	MAX.	42.5	141.0	52.9	81.7	92.3	371.0	253.0	5.7	1.1	1.6	1.4	155.0
	MIN.	0.3	0.2	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.9	0.2	0.6
TOTAL AF		114.0	597.0	127.0	264.0	214.0	1660.0	681.0	67.6	36.5	64.9	58.3	432.0

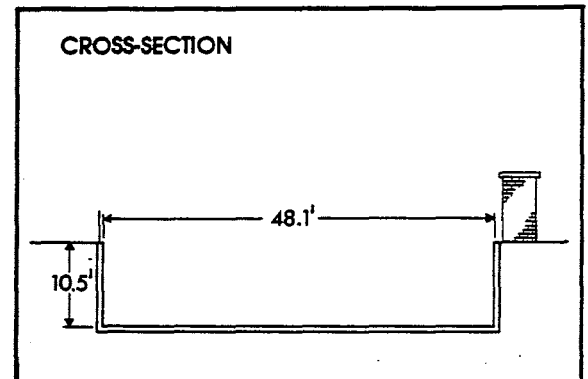
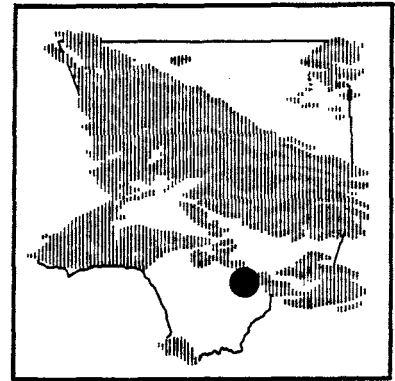
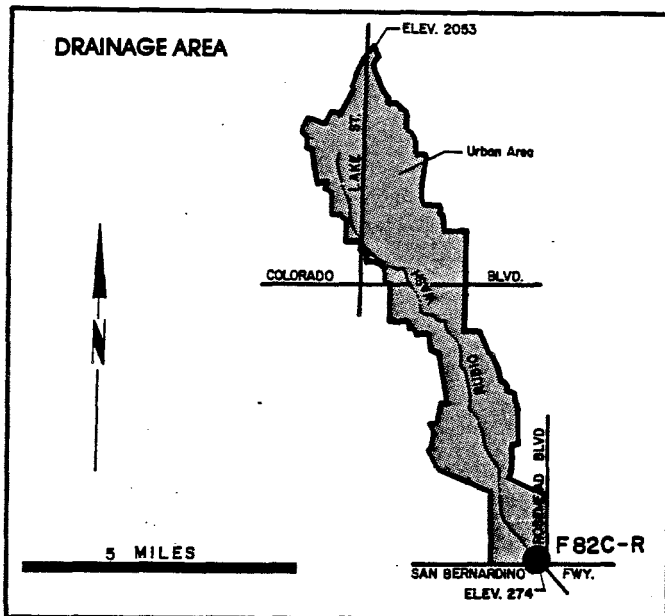
WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F81D-R

DRAINAGE AREA : 15.20 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	1.0	24.2	6.6	39.7	22.7	77.4	27.5	0.8	0.8	1.3	4.3	7.1
	MAX.	12.7	368.0	196.0	436.0	215.0	1050.0	336.0	7.1	0.9	1.6	57.0	152.0
	MIN.	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.4	0.6	0.9	0.6	0.6
TOTAL AF		61.5	1440.0	406.0	2440.0	1260.0	4760.0	1640.0	50.0	45.8	77.4	264.0	423.0
WATER YEAR 83-84	MEAN	5.3	11.3	15.3	1.2	1.0	1.2	1.3	0.9	1.0	1.0	3.1	2.0
	MAX.	125.0	138.0	235.0	25.5	1.4	21.9	16.3	1.4	1.4	1.4	60.0	15.8
	MIN.	0.4	0.4	0.4	0.4	0.6	0.4	0.4	3.4	0.9	0.9	0.9	0.9
TOTAL AF		326.0	670.0	938.0	76.4	59.3	75.6	79.7	57.7	58.9	63.3	189.0	121.0
WATER YEAR 84-85	MEAN	0.9	8.5	29.2	2.7	8.9	2.9	0.5	1.0	1.0	1.0	0.9	1.2
	MAX.	2.1	91.0	260.0	42.0	175.0	53.6	1.1	16.5	4.0	3.4	1.6	14.1
	MIN.	0.6	0.4	0.4	0.3	0.3	0.3	0.4	0.3	0.6	0.6	0.6	0.6
TOTAL AF		54.1	506.0	1800.0	168.0	492.0	180.0	31.5	64.5	61.7	58.5	57.3	72.0
WATER YEAR 85-86	MEAN	2.3	17.8	1.4	13.9	30.4	28.2	3.6	0.9	1.1	1.3	1.4	9.5
	MAX.	49.7	187.0	20.3	292.0	329.0	255.0	62.5	1.4	1.6	2.1	1.6	229.0
	MIN.	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.4	1.1	1.1	0.9
TOTAL AF		144.0	1060.0	88.9	854.0	1690.0	1740.0	212.0	54.7	64.9	78.7	84.7	567.0
WATER YEAR 86-87	MEAN	6.6	5.6	2.2	7.6	83.0	4.3	1.4	1.5	1.6	1.3	1.2	1.2
	MAX.	171.0	78.0	41.7	177.0	111.0	47.8	4.1	4.4	12.7	6.3	1.6	2.1
	MIN.	0.9	0.9	0.6	0.6	0.6	0.6	0.9	0.9	0.9	0.9	1.1	0.9
TOTAL AF		408.0	332.0	138.0	469.0	462.0	267.0	81.7	95.0	96.0	81.9	76.4	70.6

RUBIO WASH at Glendon Wash STATION NO. F82C-R



RECORDER- 15 minute punched tape.

METHOD OF MEASUREMENTS- low flows measured by wading. High flows measured from footbridge at station.

DRAINAGE AREA- 10.9 square miles.

LOCATION- on the east side of channel, 10 feet south of the westerly extension of Glendon Way, Rosemead.

REGULATION- flow partly regulated by Las Flores and Rubio debris basins.

CHANNEL- rectangular concrete.

CONTROL- channel forms control.

LENGTH OF RECORD- see station summary.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : F82C-R

DRAINAGE AREA : 10.90 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	1.1	0.8	2.8	10.8	7.1	17.7	3.2	1.4	1.5	1.7	1.7	1.7
	MAX.	4.8	1.0	54.4	129.0	58.3	205.0	36.9	1.9	3.6	1.9	1.9	4.8
	MIN.	0.1	0.1	0.1	0.4	0.6	0.0	0.6	0.6	0.4	1.0	1.4	1.4
TOTAL AF		69.8	46.0	169.0	663.0	396.0	1090.0	188.0	85.5	89.1	107.0	105.0	103.0
WATER YEAR 81-82	MEAN	0.9	5.3	0.9	7.2	2.0	16.7	8.1	1.6	0.3	0.2	0.3	4.2
	MAX.	14.0	70.7	21.5	112.0	45.5	186.0	164.0	25.1	1.0	0.4	0.6	76.4
	MIN.	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.4	0.2	0.2	0.2	0.2
TOTAL AF		57.1	315.0	55.1	444.0	111.0	1030.0	480.2	97.4	18.2	12.7	17.5	253.0

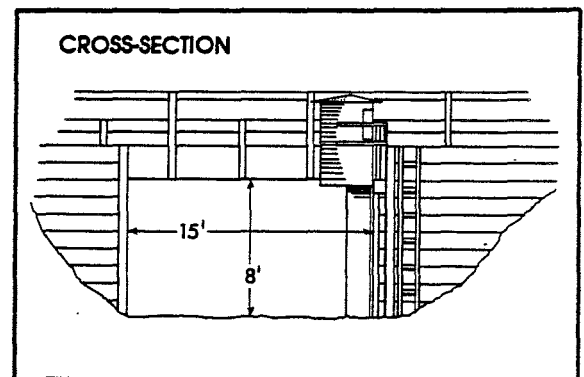
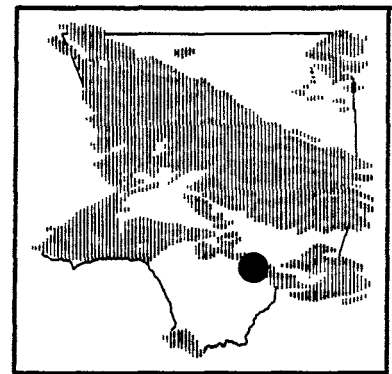
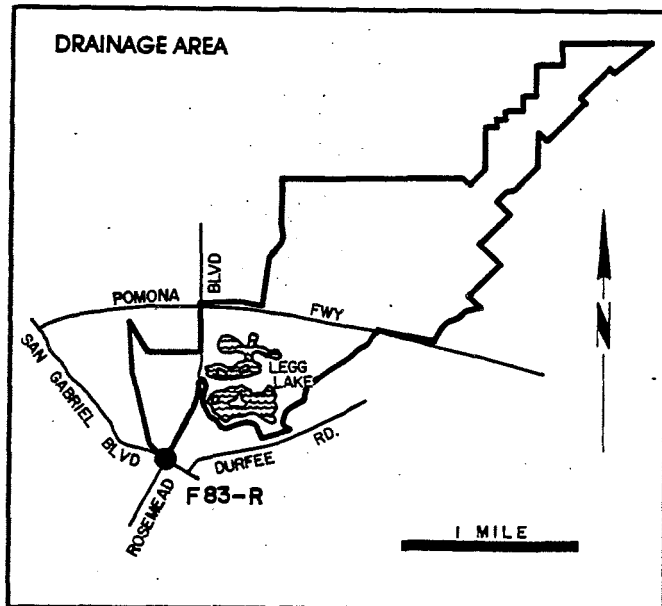
WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F82C-R

DRAINAGE AREA : 10.90 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	1.0	17.5	1.9	27.3	17.6	51.9	21.0	0.5	0.5	0.3	4.0	7.4
	MAX.	22.0	240.0	20.8	272.0	153.0	620.0	242.0	5.9	3.6	0.6	52.4	140.0
	MIN.	0.2	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2
TOTAL AF		62.7	1040.0	114.0	1680.0	980.0	3190.0	1250.0	28.8	29.0	15.9	245.0	441.0
WATER YEAR 83-84	MEAN	3.8	8.9	10.8	1.1	0.3	1.5	1.8	0.4	0.3	0.5	2.7	1.2
	MAX.	76.1	81.6	165.0	19.8	0.8	33.9	12.5	0.4	0.6	0.6	66.6	16.6
	MIN.	0.4	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.4	0.2	0.4
TOTAL AF		234.0	532.0	663.0	67.0	17.1	92.8	107.0	23.0	17.1	32.9	167.0	73.8
WATER YEAR 84-85	MEAN	0.4	7.3	20.7	2.4	5.2	2.8	0.2	1.0	0.3	0.5	0.4	0.9
	MAX.	1.0	88.9	154.0	25.3	99.4	36.1	0.4	21.6	0.6	1.4	1.9	18.3
	MIN.	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2
TOTAL AF		25.4	435.0	1280.0	146.0	288.0	173.0	12.3	60.7	17.1	30.9	26.6	54.9
WATER YEAR 85-86	MEAN	1.7	12.3	1.2	11.0	16.6	18.7	2.5	0.4	0.4	0.4	0.7	8.8
	MAX.	31.3	104.0	24.1	212.0	157.0	161.0	50.7	0.4	0.4	0.4	1.0	175.0
	MIN.	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.4	0.4	0.4	0.4	0.6
TOTAL AF		102.0	733.0	71.4	678.0	924.0	1150.0	147.0	24.6	23.8	24.6	42.8	526.0
WATER YEAR 86-87	MEAN	3.8	5.7	2.0	8.0	8.6	5.4	2.3	1.8	2.6	1.0	1.1	1.0
	MAX.	77.0	71.3	35.1	153.0	87.7	50.0	20.2	9.4	35.6	7.1	1.4	1.9
	MIN.	0.6	0.6	0.4	0.2	0.4	0.4	0.4	1.0	0.6	0.6	0.6	0.6
TOTAL AF		234.0	342.0	124.0	489.0	476.0	329.0	136.0	110.0	153.0	64.5	64.7	57.3

MISSION CREEK at San Gabriel Boulevard STATION NO. F83-R



RECORDER- continuous water stage.
 METHOD 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.

WATER YEARS : 1980-1982
 (DISCHARGE IN SEC-FT)

STATION NO. : F83-R

DRAINAGE AREA : 4.20 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	0.7	1.11	1.45	1.72	2.25	2.6	2.03	1.15	0.6	0.04	0.0	0.0
	MAX.	0.9	1.4	1.5	1.9	3.2	4.0	2.2	2.2	1.1	0.1	0.0	0.0
	MIN.	0.3	0.8	1.4	1.4	1.9	2.2	1.9	0.4	0.2	0.0	0.0	0.0
TOTAL AF		41.0	64.9	89.1	105.6	124.8	160.1	120.8	70.6	35.7	2.6	0.0	0.0
WATER YEAR 81-82	MEAN	0.0	+	+	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.
	MAX.	0.0	0.1	0.1	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.
	MIN.	0.0	0.0	+	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.
TOTAL AF		0.0	0.4	0.5	15.2	7.8	1.0	1.4	INC.	INC.	INC.	INC.	INC.

WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F83-R

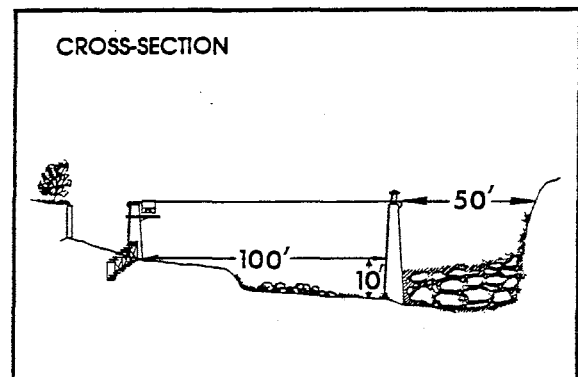
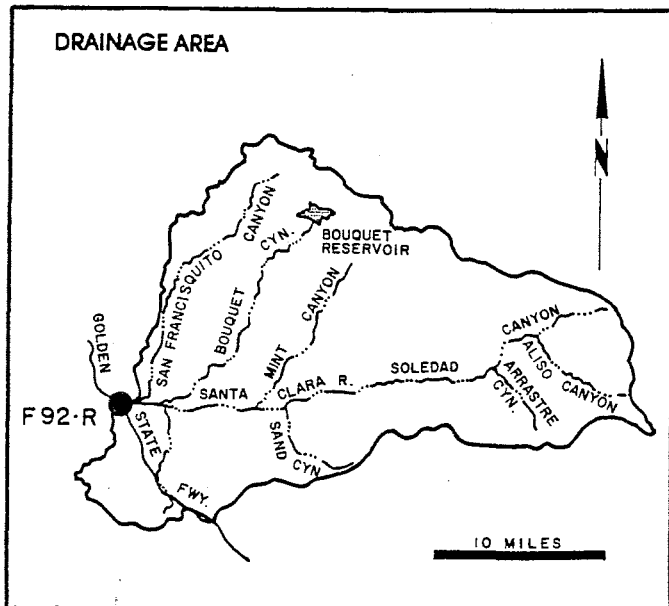
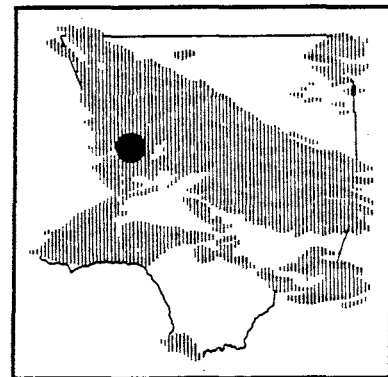
DRAINAGE AREA : 4.20 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN												
	MAX. MIN.				NO	DATA	FOR	1982	THRU	1983			
TOTAL AF													
WATER YEAR 83-84	MEAN	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.
	MAX. MIN.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.
TOTAL AF		29.4	33.8	34.6	38.8	21.8	27.4	27.8	0.5	6.4	2.8	0.2	0.0
WATER YEAR 84-85	MEAN	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.
	MAX. MIN.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.
TOTAL AF		10.0	18.0	40.0	60.0	100.0	80.0	24.0	10.0	0.0	0.0	0.0	0.0
WATER YEAR 85-86	MEAN	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.
	MAX. MIN.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.
TOTAL AF		INC.	INC.	INC.	INC.	INC.	14.0	6.6	7.4	2.0	0.0	0.0	0.0
WATER YEAR 86-87	MEAN												
	MAX. MIN.				NO	DATA	FOR	1986	THRU	1987			
TOTAL AF													

SANTA CLARA RIVER

below Highway 5

STATION NO. F92-R



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, and September 24, 1956 to date. at Station F92B-R, October 1, 1938 to September 24, 1956.

REMARKS- subject to diversions for irrigation.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : F92-R

DRAINAGE AREA : 410.40 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN												
	MAX.				NO	DATA	FOR	1980	THRU	1981			
	MIN.												
TOTAL AF													
WATER YEAR 81-82	MEAN	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	8.4	INC.	INC.
	MAX.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	9.2	INC.	INC.
	MIN.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	7.5	INC.	INC.
TOTAL AF		INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	16.7	INC.	INC.

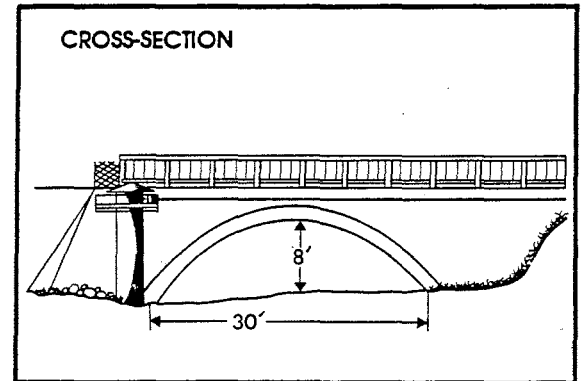
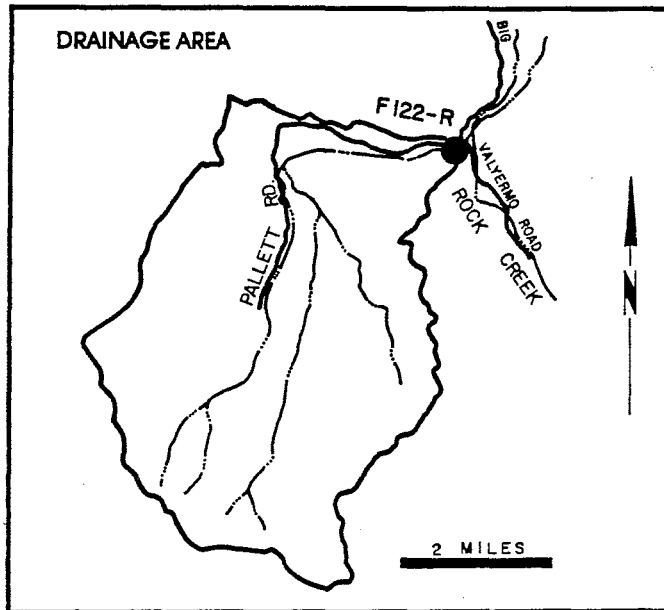
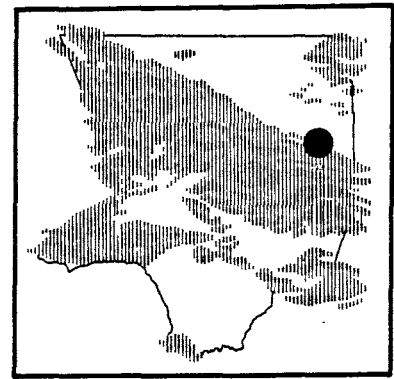
WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F92-R

DRAINAGE AREA : 410.40 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	9.3	12.7	56.2	93.8	120.0	727.0	125.0	110.0	43.0	22.4	28.7	22.6
	MAX.	9.3	134.0	199.0	469.0	617.0	5214.0	396.0	162.0	55.0	34.0	55.0	42.0
	MIN.	9.3	2.2	30.0	0.8	27.7	77.0	71.0	42.0	33.0	18.0	20.0	18.0
TOTAL AF		572.0	754.0	3460.0	5770.0	6690.0	44692.0	7420.0	6781.0	2537.0	1377.0	1767.0	1343.0
WATER YEAR 83-84	MEAN	INC.	INC.	INC.	INC.	32.4	27.1	22.8	17.1	14.7	11.3	12.0	10.9
	MAX.	INC.	INC.	INC.	INC.	36.0	32.0	27.0	18.0	17.0	13.0	13.0	10.0
	MIN.	INC.	INC.	INC.	INC.	27.0	24.0	17.0	16.0	13.0	10.0	10.0	12.0
TOTAL AF		INC.	INC.	INC.	1140.0	1862.0	1666.0	1355.0	1049.0	877.0	696.0	738.0	647.0
WATER YEAR 84-85	MEAN	12.5	17.2	50.4	26.6	27.1	21.1	18.8	15.4	8.7	13.6	5.4	8.9
	MAX.	14.0	20.0	295.0	29.0	28.0	24.0	21.0	18.0	16.2	27.7	9.3	11.6
	MIN.	10.0	14.0	19.0	22.0	25.0	17.0	15.0	13.0	4.6	6.4	1.0	5.8
TOTAL AF		768.0	1025.0	3102.0	1632.0	1505.0	1295.0	1119.0	946.0	518.0	835.0	331.0	530.0
WATER YEAR 85-86	MEAN	12.9	16.1	17.1	25.9	73.9	67.0	18.5	17.6	14.9	11.7	11.7	13.0
	MAX.	14.6	79.1	52.7	13.6	492.0	482.0	22.4	23.1	17.6	13.0	14.0	15.0
	MIN.	10.6	7.5	13.0	768.0	11.5	14.0	13.0	15.9	11.1	10.2	9.7	8.8
TOTAL AF		793.0	956.0	1050.0	1590.0	4100.0	4120.0	1100.0	1080.0	888.0	719.0	717.0	773.0
WATER YEAR 86-87	MEAN	13.6	16.3	14.6	17.9	16.9	16.6	11.6	13.7	14.7	16.0	13.7	5.6
	MAX.	15.3	71.3	15.9	41.9	21.9	34.8	14.6	19.9	23.8	21.0	21.0	8.5
	MIN.	11.1	12.0	12.3	12.3	13.3	6.5	7.0	7.9	5.7	13.0	5.7	5.2
TOTAL AF		833.0	971.0	900.0	1100.0	941.0	1020.0	690.0	844.0	877.0	981.0	845.0	332.0

PALLETT CREEK at Valyermo Highway STATION NO. F122-R



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.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : F122-R

DRAINAGE AREA : 15.80 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	1.0	1.5	2.0	2.4	1.6	3.7	1.4	1.6	3.5	1.15	0.17	0.01
	MAX.	2.5	2.0	2.5	4.0	3.0	15.8	2.5	4.5	6.0	3.1	0.4	0.01
	MIN.	0.9	0.9	1.0	1.5	0.9	2.0	0.7	0.7	1.5	0.2	0.0	0.0
TOTAL AF		62.9	87.1	120.0	145.0	86.3	227.0	81.9	98.0	210.0	71.0	10.5	0.4
WATER YEAR 81-82	MEAN	0.35	0.33	0.43	0.53	0.92	0.66	1.4	0.0	0.3	0.5	0.7	1.0
	MAX.	0.5	0.7	0.5	0.7	1.5	6.8	12.8	0.1	0.6	0.6	0.9	1.5
	MIN.	0.1	0.2	0.3	0.4	0.5	0.2	0.0	0.0	0.1	0.3	0.5	0.2
TOTAL AF		21.6	19.8	26.2	32.7	51.0	40.7	81.9	2.2	16.3	27.8	41.1	61.3

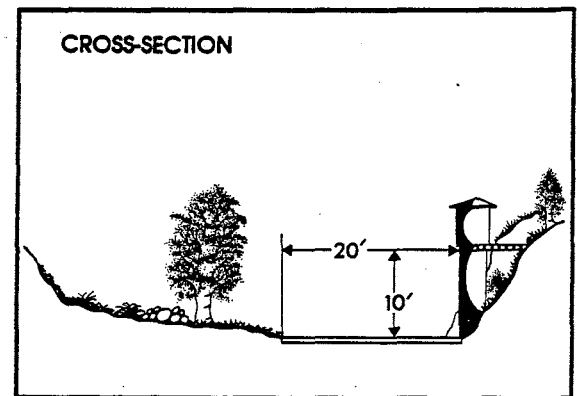
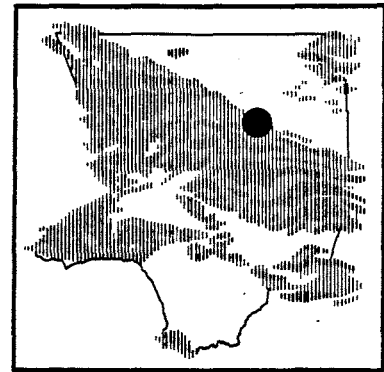
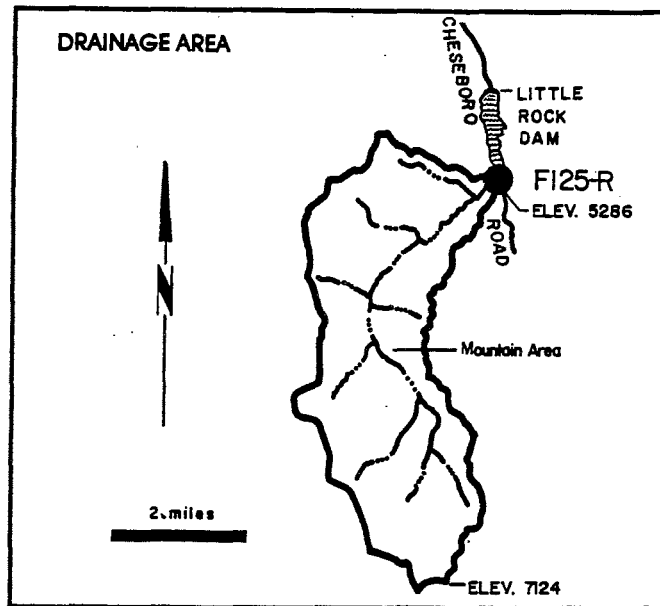
WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F122-R

DRAINAGE AREA : 15.80 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	0.2	0.7	0.8	1.8	2.6	65.1	21.3	18.7	10.1	3.8	9.9	7.3
	MAX.	0.7	1.0	0.9	17.0	37.1	454.0	54.2	23.5	16.6	5.0	25.0	17.3
	MIN.	0.0	0.6	0.6	0.5	0.2	12.4	9.0	15.1	4.5	3.0	2.0	0.4
TOTAL AF		9.9	42.4	46.2	110.0	146.0	4004.0	1266.0	1150.0	602.0	232.0	606.0	434.0
WATER YEAR 83-84	MEAN	3.1	1.7	2.6	2.3	2.3	2.0	1.2	1.4	1.0	0.9	2.1	0.4
	MAX.	11.8	3.5	15.0	3.0	2.5	3.0	2.0	2.5	2.5	5.2	3.5	0.9
	MIN.	1.0	1.0	1.0	1.5	1.5	1.5	0.8	0.6	0.6	0.3	0.5	0.2
TOTAL AF		192.0	102.0	157.0	142.0	135.0	125.0	73.4	87.5	60.7	53.4	131.0	22.6
WATER YEAR 84-85	MEAN	0.3	1.1	1.0	0.4	0.5	0.3	0.3	0.2	0.1	0.3	0.2	0.2
	MAX.	0.4	5.5	4.0	7.3	1.0	0.6	0.4	0.3	0.3	1.5	0.2	0.8
	MIN.	0.3	0.1	0.2	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.1
TOTAL AF		18.6	63.7	58.9	27.0	26.0	19.6	17.9	12.1	6.9	17.3	10.7	13.7
WATER YEAR 85-86	MEAN	0.2	0.2	0.2	2.3	2.9	0.5	0.7	0.9	1.0	0.7	0.5	0.4
	MAX.	0.5	0.3	0.2	37.3	29.1	0.6	0.8	1.5	1.5	0.8	0.7	0.7
	MIN.	0.0	0.1	0.2	0.2	0.0	0.5	0.5	0.7	0.7	0.6	0.4	0.3
TOTAL AF		11.1	11.9	12.3	139.0	160.0	31.9	43.4	55.5	57.5	44.0	29.2	25.6
WATER YEAR 86-87	MEAN	0.6	0.7	0.6	0.6	0.7	0.4	0.4	0.3	0.0	0.0	0.0	0.0
	MAX.	0.7	0.9	0.8	0.7	1.5	0.7	0.7	0.5	0.4	0.0	0.0	0.0
	MIN.	0.5	0.5	0.6	0.5	0.5	0.3	0.3	0.2	0.0	0.0	0.0	0.0
TOTAL AF		37.7	40.3	39.3	37.9	36.9	25.6	25.6	18.8	2.8	0.0	0.0	0.0

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



RECORDER- continuous water stage.
 METHOD OF MEASUREMENTS- wading.
 DRAINAGE AREA- 11.2 square miles.
 LOCATION- 1,000 feet above Little 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.

WATER YEARS : 1980-1982
 (DISCHARGE IN SEC.-FT)

STATION NO. : F125-R

DRAINAGE AREA : 11.20 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	0.0	0.02	0.3	0.5	0.2	1.2	0.3	0.0	0.0	0.0	0.0	0.0
	MAX.	0.0	0.1	0.4	2.1	0.7	2.8	0.7	0.1	0.0	0.0	0.0	0.0
	MIN.	0.0	0.0	0.2	0.4	0.1	0.6	0.1	0.0	0.0	0.0	0.0	0.0
TOTAL AF		0.0	1.0	16.5	31.5	12.7	76.6	19.0	0.2	0.0	0.0	0.0	0.0
WATER YEAR 81-82	MEAN	0.0	0.0	0.0	0.0	0.4	5.7	3.8	0.0	0.0	0.0	0.0	0.0
	MAX.	0.0	0.0	0.0	0.2	2.3	30.0	18.6	0.0	0.0	0.0	0.0	0.0
	MIN.	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		0.0	0.0	0.0	1.0	23.6	352.0	225.0	0.0	0.0	0.0	0.0	0.0

WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F125-R

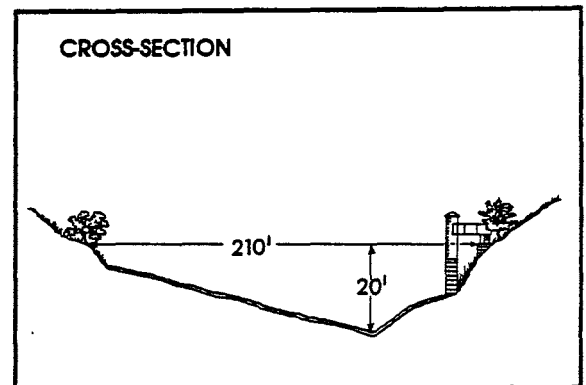
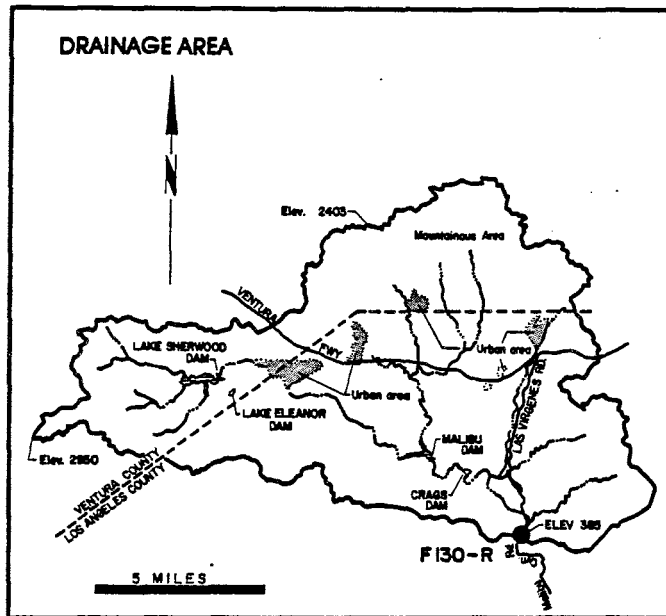
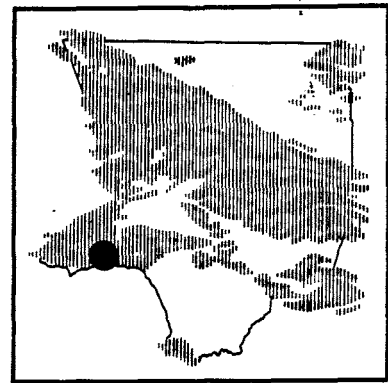
DRAINAGE AREA : 11.20 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	0.0	0.0	0.4	2.7	6.4	40.3	4.4	8.6	1.7	0.4	1.0	0.4
	MAX.	0.0	0.0	2.8	29.0	29.0	152.0	25.0	19.7	2.8	0.5	2.8	0.4
	MIN.	0.0	0.0	0.0	0.2	1.7	7.8	0.2	2.6	0.5	0.4	0.4	0.4
TOTAL AF		0.0	0.0	21.6	169.0	356.0	2480.0	261.0	528.0	99.6	24.8	59.1	23.8
WATER YEAR 83-84	MEAN	4.0	1.9	1.7	1.3	1.2	1.0	0.6	0.1	0.0	0.0	0.0	0.0
	MAX.	5.0	4.6	11.2	2.1	1.7	1.2	0.7	0.5	0.0	0.0	0.0	0.0
	MIN.	2.9	0.7	0.7	0.7	1.0	0.8	0.5	0.0	0.0	0.0	0.0	0.0
TOTAL AF		244.0	108.0	107.0	80.3	69.8	64.3	34.1	4.0	0.0	0.0	0.0	0.0
WATER YEAR 84-85	MEAN	0.0	0.0	2.8	1.3	0.9	0.4	0.4	0.1	0.0	0.0	0.0	0.0
	MAX.	0.0	0.0	40.3	2.8	1.9	0.7	0.5	0.7	0.0	0.0	0.0	0.0
	MIN.	0.0	0.0	0.0	0.8	0.6	0.3	0.2	0.0	0.0	0.0	0.0	0.0
TOTAL AF		0.0	0.0	170.0	77.0	47.8	28.8	21.0	4.4	0.0	0.0	0.0	0.0
WATER YEAR 85-86	MEAN	0.0	0.0	0.0	0.5	2.4	2.2	0.5	+	0.0	0.0	0.0	0.0
	MAX.	0.0	0.0	0.0	10.6	13.7	4.2	1.2	0.2	0.0	0.0	0.0	0.0
	MIN.	0.0	0.0	0.0	0.0	0.4	0.6	+	0.0	0.0	0.0	0.0	0.0
TOTAL AF		0.0	0.0	0.0	33.5	134.7	138.0	27.4	3.0	0.0	0.0	0.0	0.0
WATER YEAR 86-87	MEAN	0.0	0.0	0.0	0.0	0.0	0.2	+	0.0	0.0	0.0	0.0	0.0
	MAX.	0.0	0.0	0.0	0.0	0.0	0.7	0.1	0.0	0.0	0.0	0.0	0.0
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		0.0	0.0	0.0	0.0	0.0	10.9	0.4	0.0	0.0	0.0	0.0	0.0

MALIBU CREEK

below Cold Creek

STATION NO. F130-R



RECORDER- continuous water stage.

METHOD OF MEASUREMENTS- wading on from cable car.

DRAINAGE AREA- 104.96 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 Crag'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.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : F130B-R

DRAINAGE AREA : 104.96 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	
WATER	MEAN	5.8	8.2	16.0	20.2	20.4	57.3	13.7	7.9	5.1	2.9	2.2	2.8	
	YEAR	MAX.	6.8	12.2	101.0	130.0	93.7	357.0	25.5	9.6	8.3	3.8	2.9	3.3
	80-81	MIN.	4.8	5.3	7.7	7.4	12.7	16.8	9.3	6.6	3.8	2.3	1.7	2.2
TOTAL AF		359.0	491.0	984.0	1240.0	1130.0	3530.0	818.0	488.0	306.0	180.0	136.0	166.0	
WATER	MEAN	3.4	13.2	11.7	23.7	13.5	38.7	29.7	7.7	6.5	7.3	5.8	5.0	
	YEAR	MAX.	8.0	170.0	19.3	145.0	30.3	400.0	212.0	9.3	7.7	9.9	9.3	11.4
	81-82	MIN.	2.2	4.0	8.0	6.8	8.3	9.6	8.6	6.1	5.8	4.4	2.9	3.5
TOTAL AF		212.0	783.0	720.0	1460.0	749.0	2380.0	1770.0	475.0	387.0	447.0	358.0	297.0	

WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

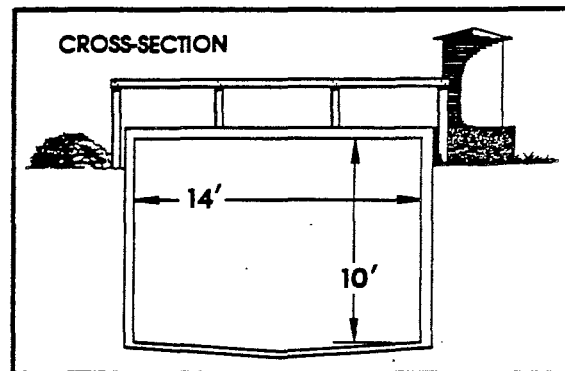
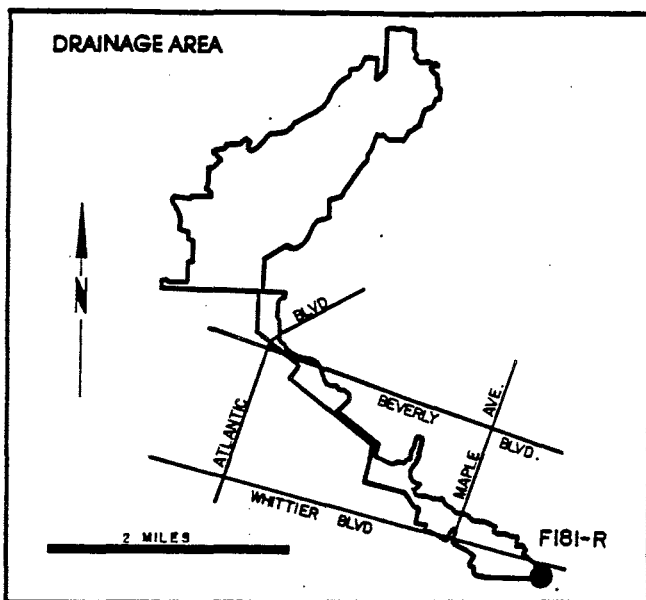
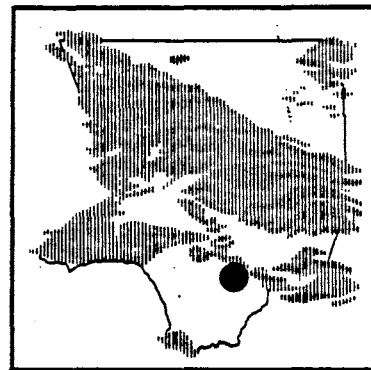
STATION NO. : F130B-R

DRAINAGE AREA : 104.96 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	3.8	58.2	36.5	349.0	224.0	607.0	88.9	40.5	19.6	12.1	11.6	12.3
	MAX.	4.8	731.0	262.0	2300.0	864.0	7720.0	320.0	88.0	25.5	17.9	34.9	135.0
	MIN.	2.7	4.4	13.1	13.1	50.0	83.2	48.6	24.8	14.8	9.6	7.7	6.3
TOTAL AF		233.0	3350.0	2240.0	21430.0	12450.0	37310.0	5290.0	2490.0	1160.0	744.0	712.0	733.0
WATER YEAR 83-84	MEAN	34.9	33.2	91.2	40.7	23.2	17.1	13.0	7.1	7.4	7.0	5.3	6.5
	MAX.	428.0	85.5	758.0	70.4	28.2	22.5	14.3	13.5	10.2	10.7	8.2	10.6
	MIN.	11.0	8.8	12.2	27.2	20.1	10.6	11.4	3.8	2.5	3.2	2.8	2.5
TOTAL AF		2150.0	1970.0	5610.0	2500.0	1330.0	1050.0	777.0	436.0	440.0	432.0	328.0	386.0
WATER YEAR 84-85	MEAN	8.6	17.6	66.3	23.0	23.0	19.5	13.0	8.3	8.0	3.8	3.8	4.0
	MAX.	11.0	70.3	588.0	55.4	117.0	44.4	18.4	11.5	15.2	5.4	6.6	6.0
	MIN.	5.9	6.3	11.4	15.3	14.3	12.7	7.8	4.6	0.9	1.2	0.9	1.9
TOTAL AF		531.0	1050.0	4080.0	1410.0	1280.0	1200.0	775.0	510.0	477.0	231.0	231.0	238.0
WATER YEAR 85-86	MEAN	9.7	16.5	18.9	44.2	166.0	136.0	38.8	16.4	9.5	5.7	3.5	6.2
	MAX.	15.0	74.7	61.2	604.0	1480.0	937.0	104.0	26.2	15.3	10.6	6.8	17.4
	MIN.	6.4	5.8	13.1	7.4	22.8	40.2	19.4	9.6	6.3	3.1	1.4	2.3
TOTAL AF		597.0	981.0	1160.0	2720.0	9230.0	8370.0	2310.0	1010.0	564.0	348.0	216.0	366.0
WATER YEAR 86-87	MEAN	8.1	15.5	10.1	21.1	13.8	16.2	6.5	3.4	2.2	2.6	1.5	2.5
	MAX.	10.6	218.0	15.3	62.8	33.6	77.5	11.0	8.5	5.3	6.5	4.7	5.8
	MIN.	3.1	3.3	4.6	6.4	6.6	9.0	1.2	1.4	0.5	0.6	0.9	0.5
TOTAL AF		498.0	925.0	623.0	1290.0	765.0	993.0	389.0	210.0	132.0	162.0	94.4	150.0

MONTEBELLO STORM DRAIN

above Rio Hondo
STATION NO. F181-R



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.

WATER YEARS : 1980-1982
 (DISCHARGE IN SEC-FT)

STATION NO. : F181-R

DRAINAGE AREA : 9.60 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	+	+	0.6	1.6	1.3	3.8	0.3	+	0.1	0.2	0.2	0.2
	MAX.	0.1	0.3	17.3	22.2	12.5	52.8	4.0	0.1	0.2	0.5	0.3	0.4
	MIN.	+	+	0.0	0.0	0.0	0.0	0.0	0.0	+	0.1	0.1	0.1
TOTAL AF		0.2	2.0	36.9	101.0	72.8	236.0	19.6	0.6	7.1	11.3	12.9	13.9
WATER YEAR 81-82	MEAN	0.4	2.4	0.3	2.0	0.6	4.1	1.1	0.1	+	0.1	0.1	0.6
	MAX.	12.4	49.7	8.6	28.2	16.1	62.2	22.7	1.3	0.1	0.2	0.3	8.0
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	+	0.1	+
TOTAL AF		26.6	143.0	19.2	126.0	32.9	253.0	67.0	5.0	2.2	6.1	8.9	37.5

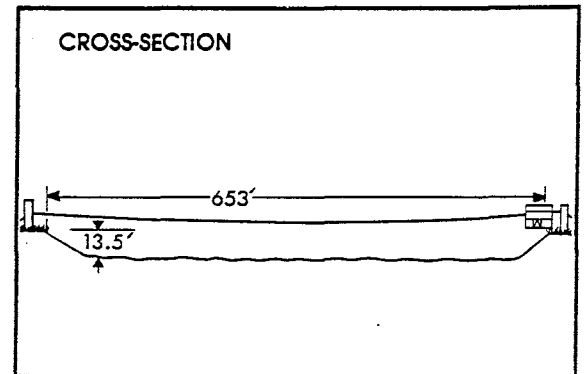
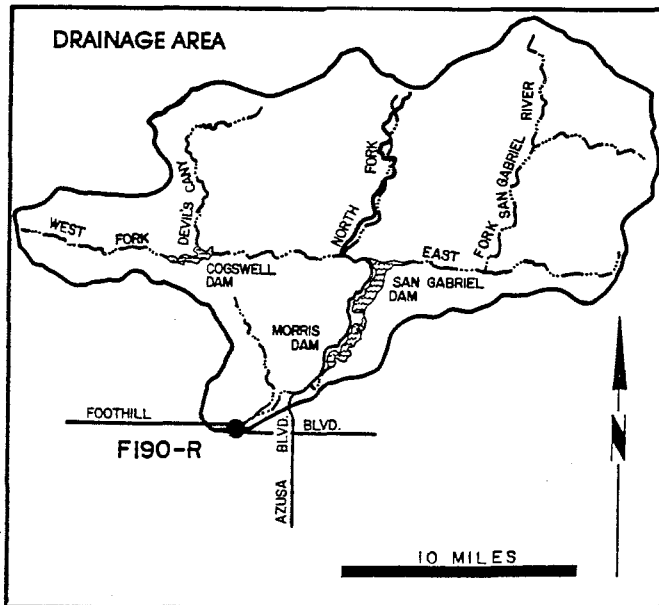
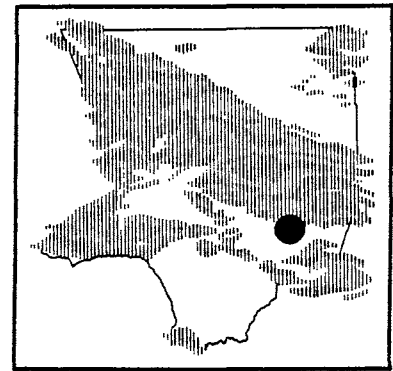
WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F181-R

DRAINAGE AREA : 9.60 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	0.2	5.2	1.0	5.8	7.4	45.7	3.8	0.2	0.1	0.1	0.5	1.2
	MAX.	4.3	93.4	30.8	59.7	132.0	638.0	41.0	4.2	0.2	0.3	7.8	21.9
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
TOTAL AF		14.3	307.0	61.3	358.0	411.0	2810.0	225.0	12.5	5.8	8.9	32.3	73.0
WATER YEAR 83-84	MEAN	1.3	2.0	2.1	0.3	0.0	0.2	0.6	0.2	0.1	0.2	0.3	0.2
	MAX.	31.7	23.5	23.1	8.1	0.1	3.1	8.4	1.8	0.3	0.3	6.3	1.7
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
TOTAL AF		80.1	119.0	127.0	17.1	0.8	11.7	38.1	10.9	8.7	13.3	20.8	9.9
WATER YEAR 84-85	MEAN	0.2	1.4	4.8	0.7	2.2	0.7	0.1	0.2	0.1	0.2	0.1	0.1
	MAX.	2.8	16.8	36.7	13.4	43.5	16.8	0.2	3.2	0.1	0.2	0.3	0.1
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0
TOTAL AF		14.1	80.9	294.0	44.8	125.0	40.3	3.8	11.5	6.0	11.9	7.1	5.2
WATER YEAR 85-88	MEAN	0.0	3.0	0.4	2.1	7.7	6.0	0.5	0.2	0.3	0.4	0.2	1.7
	MAX.	0.0	26.1	5.7	36.8	77.8	49.2	8.5	0.4	0.5	1.7	0.4	38.8
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.1	0.1	0.1
TOTAL AF		0.0	178.0	23.8	132.0	430.0	389.0	27.8	13.3	20.8	24.8	10.7	101.0
WATER YEAR 86-87	MEAN	0.8	0.4	0.3	1.8	1.8	0.8	0.2	0.1	0.2	0.2	0.2	0.3
	MAX.	14.3	5.8	5.9	38.8	19.9	7.3	0.3	0.4	1.7	0.8	0.3	1.9
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
TOTAL AF		38.1	28.4	18.2	101.0	87.1	48.0	9.9	8.7	13.7	13.9	12.3	18.1

SAN GABRIEL RIVER at Foothill Boulevard STATION NO. F190-R



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.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : F190-R

DRAINAGE AREA : 230.00 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	+	202.0	60.1	3.0	3.4	7.5	2.9	2.6	0.9	0.2	4.7	0.4
	MAX.	0.3	0.0	354.0	76.1	6.0	33.7	4.2	3.8	4.6	5.3	16.6	0.7
	MIN.	0.0	370.0	0.0	0.0	2.3	3.5	1.9	0.8	0.0	0.0	0.0	0.2
TOTAL AF		1.4	12000.0	3700.0	186.0	190.0	460.0	174.0	159.0	53.8	15.3	289.0	25.0
WATER YEAR 81-82	MEAN	33.7	15.4	76.0	100.0	137.0	146.0	11.3	10.8	115.0	28.0	3.1	281.0
	MAX.	116.0	25.9	185.0	191.0	185.0	460.0	132.0	22.8	362.0	154.0	4.2	573.0
	MIN.	0.8	3.1	0.1	1.6	67.7	4.2	2.3	3.8	0.3	2.3	1.2	2.7
TOTAL AF		2070.0	917.0	4670.0	6160.0	7630.0	8960.0	672.0	664.0	6830.0	1720.0	193.0	16740.0

WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

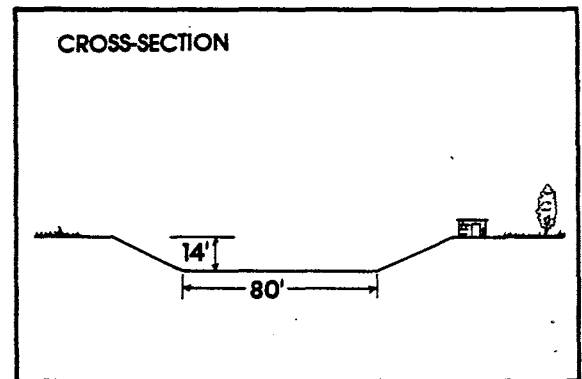
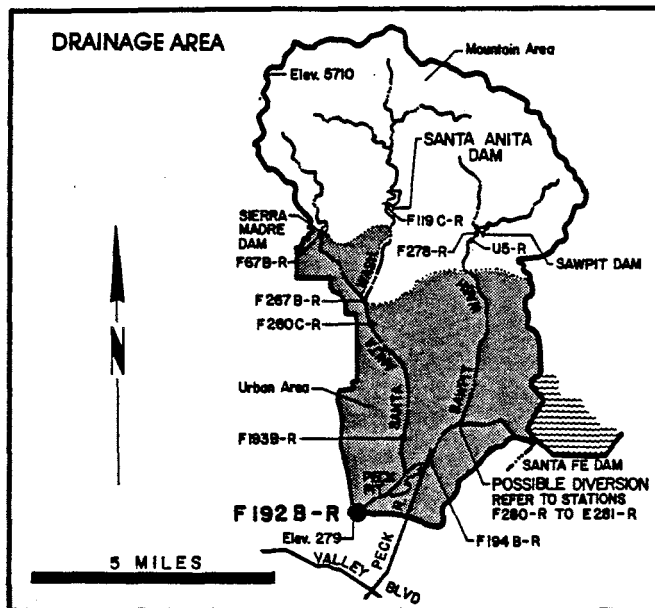
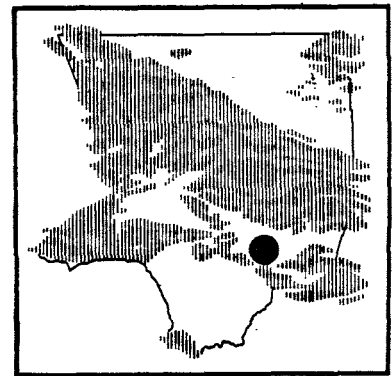
STATION NO. : F190-R

DRAINAGE AREA : 230.00 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	309.0	300.0	80.1	188.0	279.0	2320.1	622.0	752.0	670.0	345.0	3.8	3.3
	MAX.	446.0	436.0	398.0	344.0	432.0	12810.0	1896.0	1180.0	791.0	555.0	7.9	12.2
	MIN.	76.7	+	0.4	6.0	28.7	263.0	77.3	523.0	523.0	2.8	2.4	2.0
TOTAL AF		19010.0	17840.0	4920.0	11540.0	15500.0	142657.0	37010.0	46230.0	39890.0	21220.0	237.0	196.0
WATER YEAR 83-84	MEAN	244.0	172.0	8.1	178.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MAX.	405.0	432.0	30.7	387.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MIN.	6.4	5.2	3.6	3.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		15030.0	10260.0	498.0	10940.0	115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WATER YEAR 84-85	MEAN	0.0	0.0	2.5	154.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	39.8
	MAX.	0.0	0.0	18.8	396.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	70.0
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		0.0	0.0	153.0	9490.0	76.2	0.0	0.0	0.0	0.0	0.0	0.0	2370.0
WATER YEAR 85-86	MEAN	113.0	139.0	155.0	93.4	231.0	302.0	233.0	143.0	0.0	0.0	0.0	0.8
	MAX.	137.0	200.0	193.0	137.0	805.0	805.0	414.0	352.0	0.0	0.0	0.0	11.8
	MIN.	82.0	29.6	124.0	6.8	6.0	11.4	5.0	0.1	0.0	0.0	0.0	0.0
TOTAL AF		6960.0	8300.0	9550.0	5740.0	12830.0	18570.0	13860.0	8780.0	0.0	0.0	0.0	45.8
WATER YEAR 86-87	MEAN	0.0	40.6	73.5	57.9	67.9	79.4	56.1	0.0	0.0	0.6	0.0	1.1
	MAX.	0.0	94.0	112.0	88.0	94.0	94.0	76.0	0.0	0.0	6.2	0.0	6.4
	MIN.	0.0	0.0	5.8	0.9	49.0	66.5	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		0.0	2420.0	4520.0	3560.0	3770.0	4880.0	3340.0	0.0	0.0	37.7	0.0	66.6

RIO HONDO

below Lower Azusa Road
STATION NO. F192B-R



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.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : F192B-R

DRAINAGE AREA : 40.90 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	0.0	101.0	70.0	3.4	10.9	19.5	1.8	5.4	0.5	0.4	0.3	0.5
	MAX.	0.0	237.0	237.0	14.6	38.4	51.2	11.4	21.3	1.2	0.5	0.6	1.2
	MIN.	0.0	0.0	4.6	0.0	0.4	1.0	0.2	0.3	0.2	0.2	0.1	0.2
TOTAL AF		0.0	6000.0	4300.0	211.0	604.0	1200.0	109.0	333.0	31.9	25.4	18.6	28.4
WATER YEAR 81-82	MEAN												
	MAX.				NO	DATA	FOR	1981	THRU	1982			
	MIN.												
TOTAL AF													

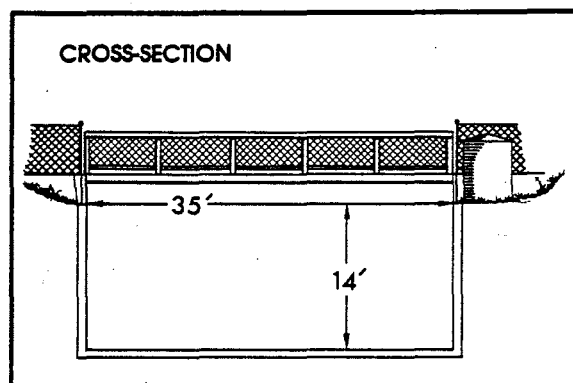
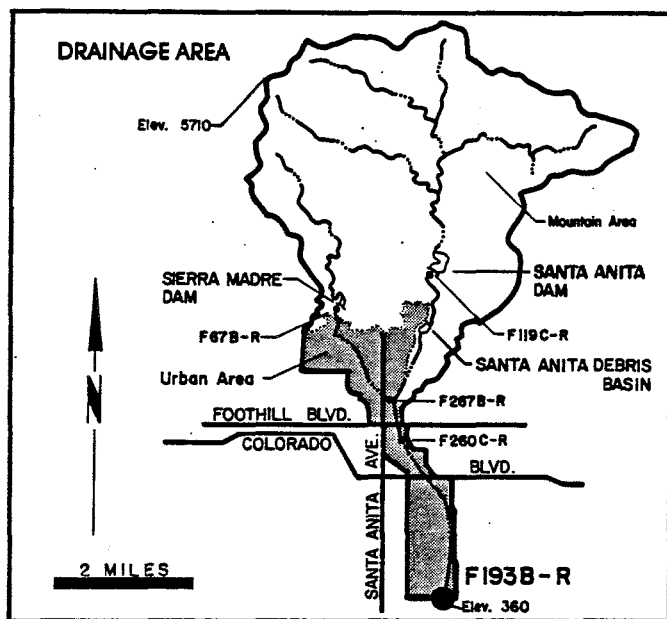
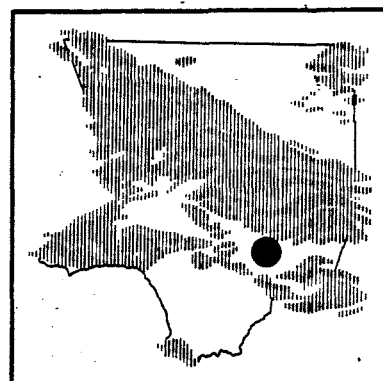
WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F192B-R

DRAINAGE AREA : 40.90 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	97.5	109.0	48.1	11.9	16.0	121.0	52.9	82.6	101.0	144.0	5.9	1.3
	MAX.	189.0	203.0	144.0	128.0	187.0	350.0	206.0	350.0	163.0	350.0	14.8	10.6
	MIN.	1.6	3.1	0.1	0.1	2.3	27.5	3.8	1.9	35.2	15.9	3.1	0.0
TOTAL AF		5993.0	6470.0	2960.0	733.0	888.0	7742.0	3145.0	5082.0	6022.0	8860.0	364.0	77.0
WATER YEAR 83-84	MEAN	121.0	54.9	6.1	1.3	0.0	0.0	0.1	0.1	0.1	0.0	0.2	0.1
	MAX.	251.0	178.0	38.7	4.7	0.1	1.0	0.3	0.1	0.1	0.0	1.8	0.3
	MIN.	0.1	3.5	0.6	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1
TOTAL AF		7440.0	3260.0	377.0	78.5	1.0	2.4	4.8	6.1	5.8	0.0	9.5	6.3
WATER YEAR 84-85	MEAN	0.1	0.6	1.6	0.2	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	MAX.	0.2	8.8	12.5	2.9	8.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		4.2	35.3	99.6	10.5	21.6	5.6	0.0	0.0	0.0	0.0	0.0	0.0
WATER YEAR 85-86	MEAN	0.1	0.4	0.0	0.5	68.7	68.7	160.0	145.0	0.0	0.1	0.0	0.4
	MAX.	1.2	3.6	0.2	10.4	223.0	303.0	311.0	318.0	0.0	0.2	0.0	12.5
	MIN.	0.0	0.0	0.0	0.0	0.0	0.4	0.7	0.0	0.0	0.0	0.0	0.0
TOTAL AF		6.7	21.6	1.2	31.3	3810.0	4230.0	9510.0	8920.0	0.0	5.6	0.0	26.6
WATER YEAR 86-87	MEAN	0.1	0.5	0.1	0.9	0.7	0.4	0.0	0.0	0.1	0.0	0.0	0.0
	MAX.	3.4	9.0	3.3	24.7	8.4	3.9	0.1	0.0	2.3	0.1	0.0	0.0
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		6.9	32.5	6.5	58.9	40.5	22.4	0.2	0.0	5.0	0.2	0.0	0.0

SANTA ANITA WASH at Longden Avenue STATION NO. F193B-R



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.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : F193B-R

DRAINAGE AREA : 18.80 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	0.6	0.5	0.6	5.0	1.3	7.1	0.4	0.1	0.1	0.1	0.1	0.1
	MAX.	1.6	0.7	10.6	121.0	21.7	119.0	8.4	0.1	0.1	0.1	0.1	1.1
	MIN.	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
TOTAL AF		37.1	27.4	39.7	309.0	73.4	438.0	21.0	3.6	5.0	6.1	6.1	8.1
WATER YEAR 81-82	MEAN	0.1	3.1	0.3	2.3	0.8	18.8	10.9	2.1	0.1	0.2	0.4	1.8
	MAX.	0.7	42.7	4.7	46.4	20.3	176.0	74.3	15.3	0.3	1.0	1.0	14.5
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.1	0.2	0.3
TOTAL AF		6.0	186.0	19.6	142.2	42.2	1160.0	651.0	127.0	8.1	13.3	24.8	105.0

WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

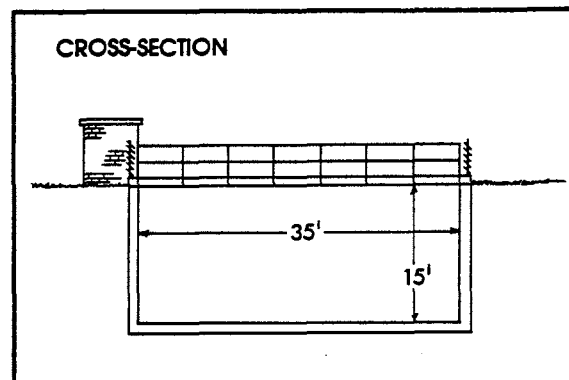
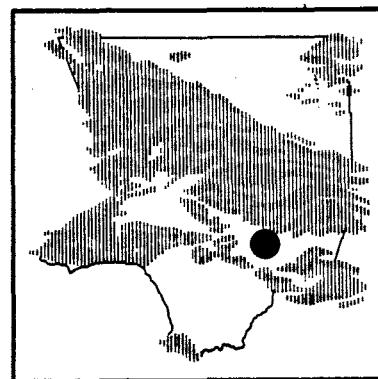
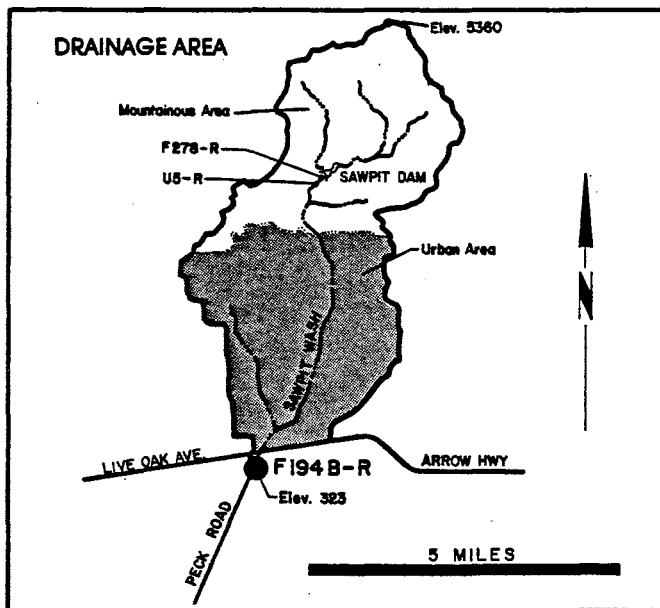
STATION NO. : F193B-R

DRAINAGE AREA : 18.80 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	1.3	5.8	2.6	68.8	146.0	300.0	176.0	154.0	45.9	20.7	18.4	17.7
	MAX.	12.1	86.6	65.4	354.0	289.0	958.0	265.0	225.0	85.3	36.3	65.0	92.5
	MIN.	0.0	0.0	0.1	0.3	38.3	166.0	86.4	19.2	23.1	10.0	10.0	8.9
TOTAL AF		79.1	347.0	160.0	4230.0	8130.0	18400.0	10470.0	9500.0	2730.0	1270.0	1130.0	1050.0
WATER YEAR 83-84	MEAN	19.6	27.3	14.9	15.2	13.5	5.0	1.6	2.3	1.3	2.4	2.2	1.4
	MAX.	89.3	81.6	143.0	38.4	27.3	35.1	25.0	6.8	4.6	4.6	18.2	10.9
	MIN.	11.1	12.1	0.7	10.0	11.1	0.7	0.3	1.0	0.1	0.7	0.2	0.2
TOTAL AF		1200.0	1630.0	918.0	937.0	777.0	309.0	95.6	13.9	79.9	151.0	134.0	82.1
WATER YEAR 84-85	MEAN	0.2	5.2	14.4	1.5	0.3	0.4	0.1	0.2	0.9	3.0	2.8	6.2
	MAX.	0.7	31.3	92.7	10.0	1.4	5.7	0.7	0.7	5.7	5.7	4.6	11.1
	MIN.	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.0	2.5
TOTAL AF		10.1	312.0	886.0	90.8	16.9	26.8	8.9	9.7	53.6	186.0	170.0	372.0
WATER YEAR 85-86	MEAN	8.0	6.8	3.8	5.6	25.1	15.1	5.0	2.0	1.6	0.7	0.3	10.2
	MAX.	23.7	65.2	15.2	74.3	100.0	48.3	31.3	2.5	2.5	1.4	0.7	104.0
	MIN.	0.7	0.2	0.7	1.0	1.4	6.8	1.4	1.4	1.0	0.2	0.2	0.3
TOTAL AF		489.0	406.0	235.0	344.0	1400.0	929.0	299.0	122.0	95.6	43.4	19.2	606.0
WATER YEAR 86-87	MEAN	1.6	0.5	0.4	1.2	1.4	0.9	0.4	0.2	0.4	0.3	0.2	0.1
	MAX.	19.5	5.7	4.6	27.3	8.9	7.8	2.0	0.7	5.7	1.0	1.4	0.3
	MIN.	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1
TOTAL AF		100.0	27.0	21.6	72.6	79.3	55.9	25.2	10.7	23.0	17.9	13.5	6.9

SAWPIT WASH

below Live Oak Avenue
STATION NO. F194B-R



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.

WATER YEARS : 1980-1982
 (DISCHARGE IN SEC-FT)

STATION NO. : F194B-R

DRAINAGE AREA : 16.10 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	2.3	192.0	56.5	10.7	6.3	7.7	0.9	0.2	0.2	0.8	0.6	0.9
	MAX.	4.7	376.0	344.0	91.4	30.2	77.1	14.4	1.0	0.4	7.5	0.9	5.4
	MIN.	0.2	0.2	0.2	0.2	0.2	0.0	0.1	0.1	0.1	0.2	0.4	0.4
TOTAL AF		140.0	11440.0	3480.0	655.0	351.0	470.0	51.6	11.5	14.1	46.6	34.3	52.2
WATER YEAR 81-82	MEAN	1.3	5.3	19.9	4.9	1.7	14.6	5.8	0.9	66.2	0.2	0.4	97.6
	MAX.	4.0	59.0	156.0	72.4	35.8	198.0	84.6	7.6	257.0	0.3	1.9	218.0
	MIN.	1.1	0.3	0.3	0.3	0.3	0.3	1.3	0.3	0.2	0.1	0.2	0.4
TOTAL AF		82.5	318.0	1220.0	303.0	94.2	900.0	346.0	55.1	3940.0	12.7	24.4	5810.0

WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F194B-R

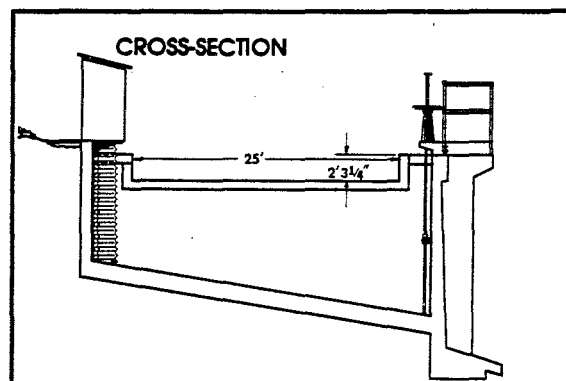
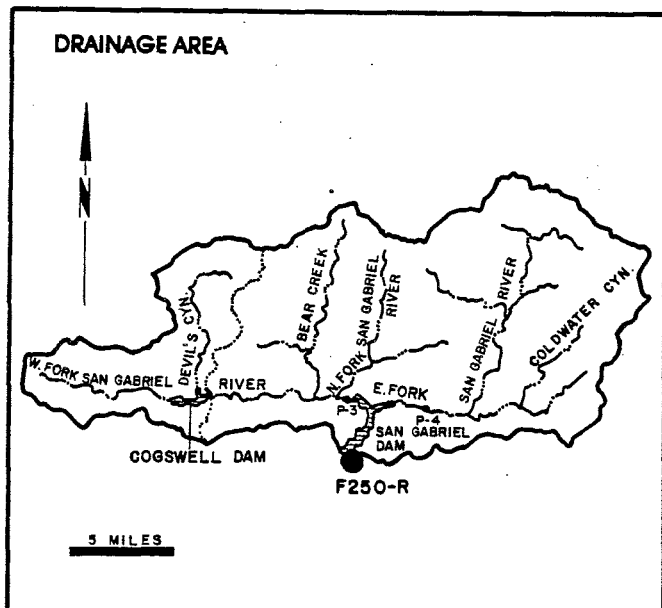
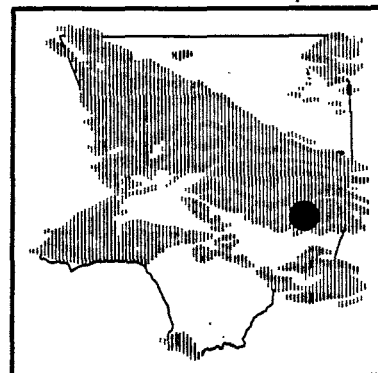
DRAINAGE AREA : 16.10 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	109.0	109.0	37.7	15.1	12.0	59.4	13.7	38.2	101.0	166.0	5.4	7.3
	MAX.	176.0	176.0	124.0	137.0	132.0	530.0	95.3	249.0	166.0	366.0	39.4	59.8
	MIN.	0.4	0.1	0.2	0.1	0.2	5.5	2.7	4.1	35.4	0.2	0.3	2.7
TOTAL AF		6700.0	6490.0	2320.0	928.0	665.0	3650.0	818.0	2350.0	6000.0	10180.0	333.0	432.0
WATER YEAR 83-84	MEAN	172.0	54.1	9.1	3.1	0.3	0.9	0.4	0.3	0.2	0.1	0.8	0.5
	MAX.	294.0	214.0	107.0	25.9	0.4	17.1	4.0	1.1	0.9	0.2	18.4	8.1
	MIN.	2.5	2.7	0.3	0.3	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.0
TOTAL AF		10590.0	3220.0	559.0	188.0	14.5	57.1	22.0	17.3	13.3	7.5	46.4	31.7
WATER YEAR 84-85	MEAN	0.2	3.6	19.5	1.2	3.5	1.1	0.2	0.3	0.2	0.2	0.2	0.7
	MAX.	2.0	36.4	122.0	19.3	67.8	16.8	0.3	4.2	0.2	0.3	0.2	13.4
	MIN.	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
TOTAL AF		15.1	212.0	1200.0	75.2	194.0	70.4	11.9	18.4	11.9	12.9	12.3	41.5
WATER YEAR 85-86	MEAN	1.0	6.1	0.6	5.9	111.0	77.8	INC.	INC.	INC.	INC.	INC.	INC.
	MAX.	19.3	55.3	11.8	108.0	333.0	329.0	INC.	INC.	INC.	INC.	INC.	INC.
	MIN.	0.2	0.1	0.2	0.2	0.4	1.3	INC.	INC.	INC.	INC.	INC.	INC.
TOTAL AF		61.1	361.0	35.5	364.0	6150.0	4780.0	INC.	INC.	INC.	INC.	INC.	INC.
WATER YEAR 86-87	MEAN	0.7	2.4	0.8	4.0	2.7	1.5	0.3	0.4	0.6	0.3	0.3	0.3
	MAX.	18.9	37.7	13.0	99.2	32.6	13.0	1.1	1.4	11.6	1.8	1.3	1.8
	MIN.	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2
TOTAL AF		44.4	145.0	47.6	246.0	150.0	92.2	18.6	21.8	37.5	16.9	16.9	19.6

SAN GABRIEL-AZUSA CONDUIT

at 25 ft. Weir below San Gabriel Dam

STATION NO. F250-R



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 in section.
 CONTROL- 25-foot concrete weir.
 LENGTH OF RECORD- February 26, 1933, to date.
 REMARKS- approximate capacity 95 second-feet.

WATER YEARS : 1980-1982
 (DISCHARGE IN SEC-FT)

STATION NO. : F250-R

DRAINAGE AREA : NONE

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN												
	MAX. MIN.				NO	DATA	FOR	1980	THRU	1981			
TOTAL AF													
WATER YEAR 81-82	MEAN	39.8	39.6	39.8	40.1	39.7	40.6	49.3	70.2	72.8	79.0	78.2	78.0
	MAX. MIN.	39.8	40.8	40.8	40.8	40.8	41.8	69.5	75.7	80.7	80.7	78.2	80.7
TOTAL AF		2450.0	2360.0	2450.0	2470.0	2210.0	2490.0	2940.0	4320.0	4330.0	4860.0	4810.0	4640.0

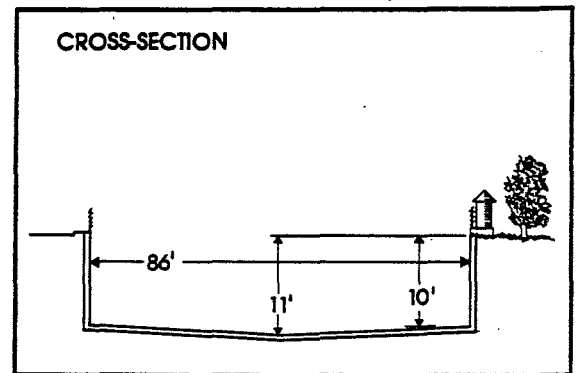
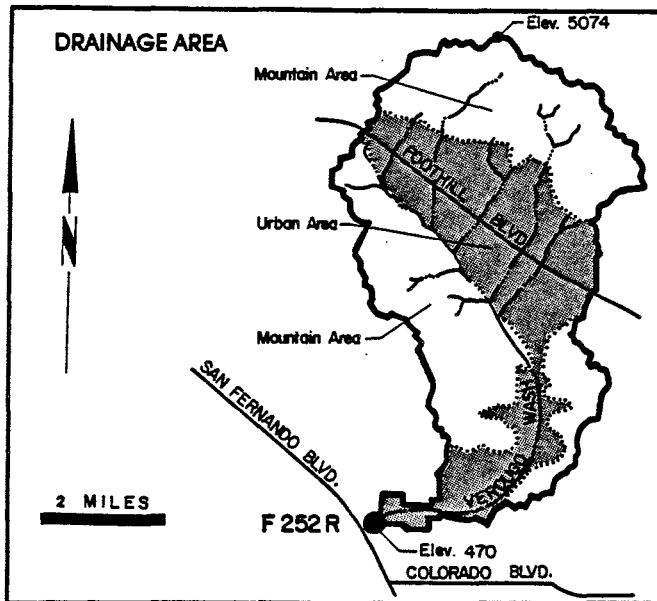
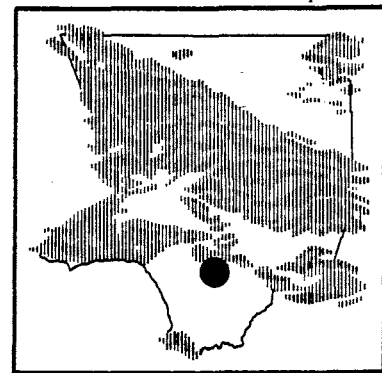
WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F250-R

DRAINAGE AREA : NONE

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	78.8	48.5	45.1	45.3	65.6	74.1	79.2	78.7	81.3	81.1	78.9	76.8
	MAX.	80.7	79.4	45.9	46.9	74.5	78.2	83.2	83.2	83.9	84.6	80.7	79.4
	MIN.	74.5	43.9	34.1	43.9	44.9	68.3	75.7	47.2	78.4	77.7	76.9	74.5
TOTAL AF		4850.0	2880.0	2770.0	2790.0	3640.0	4550.0	4710.0	4840.0	4840.0	4980.0	4850.0	4570.5
WATER YEAR 83-84	MEAN	75.9	76.8	68.6	0.0	53.3	66.0	43.6	31.4	31.4	36.9	40.9	34.4
	MAX.	78.2	79.4	79.4	0.0	66.0	66.0	66.0	40.8	33.3	40.8	51.3	50.2
	MIN.	72.0	75.7	0.0	0.0	0.0	66.0	28.2	29.8	29.8	29.8	39.8	0.0
TOTAL AF		4670.0	4570.0	4220.0	0.0	3070.0	4060.0	2590.0	1930.0	1870.0	2270.0	2510.0	2040.0
WATER YEAR 84-85	MEAN	3.0	21.9	25.4	73.9	62.3	53.7	72.5	51.2	14.4	2.4	INC.	INC.
	MAX.	3.1	26.4	41.8	83.2	78.2	81.9	76.9	76.9	46.9	4.0	INC.	INC.
	MIN.	2.6	4.0	21.2	40.8	50.2	39.8	39.8	0.0	2.6	0.0	INC.	INC.
TOTAL AF		187.0	1300.0	1560.0	4540.0	3460.0	3300.0	4310.0	3150.0	859.0	149.0	INC.	INC.
WATER YEAR 85-86	MEAN	INC.	INC.	56.4	49.0	72.0	76.5	72.1	76.3	72.4	64.7	54.4	48.8
	MAX.	INC.	INC.	74.5	50.2	80.7	78.2	76.9	79.4	74.5	66.0	60.1	52.3
	MIN.	INC.	INC.	30.7	39.8	40.8	74.5	39.8	74.5	64.8	61.3	52.3	43.9
TOTAL AF		528.0	1462.0	3470.0	3010.0	4000.0	4700.0	4290.0	4690.0	4310.0	3980.0	3350.0	2910.0
WATER YEAR 86-87	MEAN	44.6	38.9	37.3	40.1	33.0	29.6	27.9	25.5	24.7	23.3	19.2	5.8
	MAX.	44.9	43.9	40.8	40.8	39.8	38.8	28.1	28.1	25.5	25.5	26.4	26.4
	MIN.	43.9	33.3	21.5	37.8	0.0	28.1	29.0	24.6	24.6	0.2	0.0	0.0
TOTAL AF		274.0	2310.0	2290.0	2460.0	1840.0	1820.0	1660.0	1570.0	1470.0	1430.0	1180.0	347.0

VERDUGO WASH at Estelle Avenue STATION NO. F252-R



RECORDS- 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.

WATER YEARS : 1980-1982
 (DISCHARGE IN SEC-FT)

STATION NO. : F252-R

DRAINAGE AREA : 26.80 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	10.6	9.7	8.4	32.9	10.9	29.2	10.9	10.0	8.4	3.0	5.9	3.6
	MAX.	14.0	18.8	114.0	266.0	51.4	183.0	40.4	14.0	11.8	6.2	10.6	7.3
	MIN.	3.9	2.0	2.3	8.4	2.3	5.0	5.0	6.2	3.9	2.0	1.8	1.5
TOTAL AF		652.0	577.0	518.0	2020.0	606.0	1800.0	651.0	612.0	497.0	186.0	363.0	215.0
WATER YEAR 81-82	MEAN	4.3	19.0	12.9	21.8	7.1	35.5	23.5	4.3	6.1	4.1	2.0	9.6
	MAX.	20.0	151.0	53.2	307.0	80.1	333.0	280.0	19.3	16.4	14.0	2.3	106.0
	MIN.	2.0	2.3	2.5	3.9	2.5	1.5	9.5	1.5	1.0	1.2	1.8	2.3
TOTAL AF		267.0	1130.0	793.0	1340.0	394.0	2180.0	1400.0	262.0	364.0	255.0	121.0	571.0

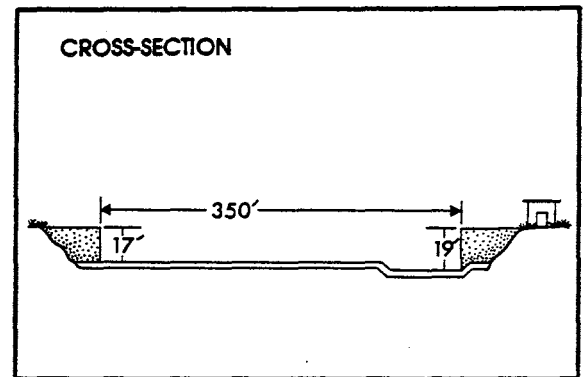
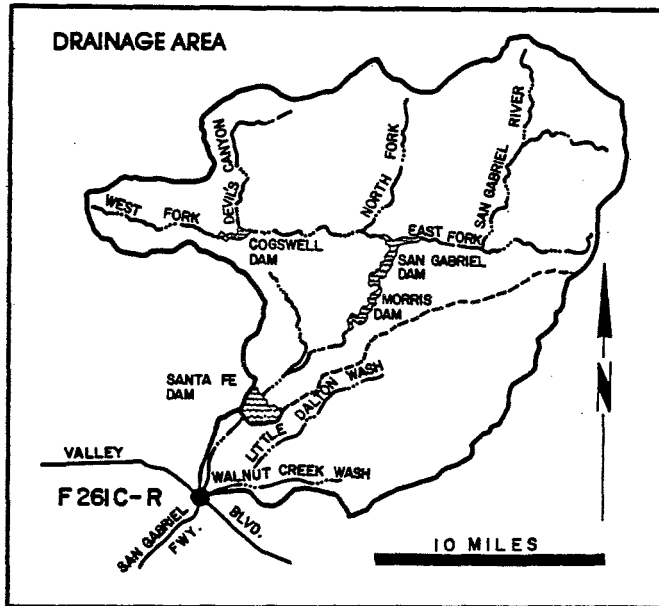
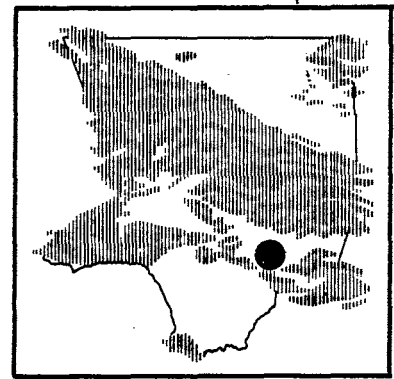
WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F252-R

DRAINAGE AREA : 26.80 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	7.2	38.2	17.2	48.1	37.1	168.9	55.7	15.6	8.5	11.9	14.4	19.1
	MAX.	35.8	471.0	351.0	496.0	337.0	1260.0	461.0	113.0	12.9	18.8	81.3	277.0
	MIN.	2.8	2.5	2.3	2.5	2.0	24.0	6.2	2.0	2.0	8.4	2.5	2.3
TOTAL AF		444.0	2270.0	1060.0	2960.0	2060.0	10380.0	3320.0	960.0	507.0	729.0	884.0	1140.0
WATER YEAR 83-84	MEAN												
	MAX.				NO	DATA	FOR	1983	THRU	1984			
	MIN.												
TOTAL AF													
WATER YEAR 84-85	MEAN	3.9	13.8	37.9	9.3	16.3	9.4	2.4	3.7	3.1	2.6	2.9	4.0
	MAX.	9.5	144.0	279.0	75.9	275.0	118.0	6.2	23.7	5.0	5.0	3.9	9.5
	MIN.	2.3	1.0	1.5	2.8	2.0	2.0	2.8	2.3	2.5	1.8	2.5	2.8
TOTAL AF		237.0	820.0	2330.0	574.0	907.0	578.0	251.0	230.0	182.0	158.0	177.0	239.0
WATER YEAR 85-86	MEAN	3.1	18.9	1.9	27.3	34.4	31.1	5.0	3.6	5.0	5.1	3.2	8.0
	MAX.	8.4	218.0	2.3	437.0	247.0	318.0	42.0	6.2	6.2	9.5	3.9	131.0
	MIN.	1.8	1.2	1.2	2.0	2.0	2.8	2.5	2.8	3.9	2.5	2.3	2.3
TOTAL AF		192.0	1120.0	118.0	1680.0	1910.0	1920.0	297.0	220.0	299.0	315.0	195.0	473.0
WATER YEAR 86-87	MEAN	3.4	9.7	3.2	7.8	12.4	9.6	2.2	INC.	INC.	INC.	INC.	INC.
	MAX.	8.4	143.0	36.4	158.0	129.0	88.3	26.0	INC.	INC.	INC.	INC.	INC.
	MIN.	2.3	2.0	1.8	2.0	2.0	2.0	1.8	INC.	INC.	INC.	INC.	INC.
TOTAL AF		207.0	579.0	195.0	477.0	688.0	589.0	130.0	INC.	INC.	INC.	INC.	INC.

SAN GABRIEL RIVER below Valley Boulevard STATION NO. F261C-R



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 Canyon and below San Bernardino Road.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : F261C-R

DRAINAGE AREA : 118.00 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN												
	MAX.				NO	DATA	FOR	1980	THRU	1981			
	MIN.												
TOTAL AF													
WATER YEAR 81-82	MEAN	68.8	84.3	75.4	89.1	84.2	114.0	54.7	1.5	34.8	27.0	32.3	84.8
	MAX.	191.0	802.0	179.0	712.0	329.0	1480.0	564.0	37.5	95.0	99.7	80.3	160.0
	MIN.	0.0	0.0	+	+	+	0.0	0.0	0.0	0.0	0.0	16.5	3.6
TOTAL AF		4230.0	5010.0	4640.0	5480.0	4680.0	7040.0	3260.0	92.6	2070.0	1660.0	1990.0	5050.0

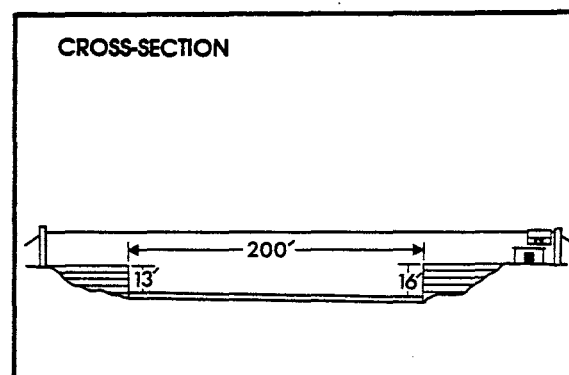
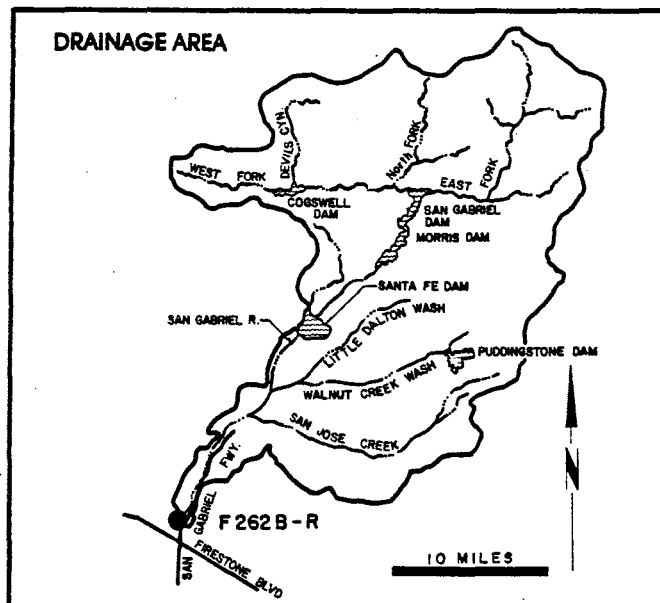
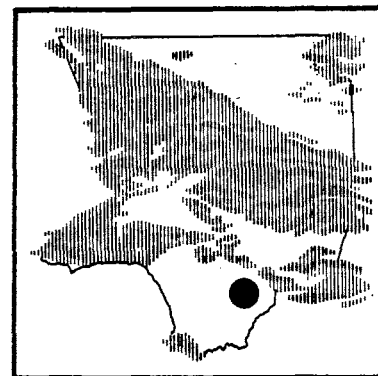
WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F261C-R

DRAINAGE AREA : 118.00 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	110.0	98.3	37.2	123.0	149.0	2260.0	142.0	221.0	12.1	1.1	13.2	25.4
	MAX.	170.0	1360.0	713.0	734.0	1390.0	19000.0	1520.0	1180.0	49.0	2.6	203.0	390.0
	MIN.	85.0	1.7	0.6	0.4	1.9	39.0	0.1	0.0	0.0	0.1	0.0	0.0
TOTAL AF		6770.0	5850.0 ⁽¹⁾	2280.0	7540.0 ⁽²⁾	8280.0	139200.0 ⁽³⁾	8430.0	13580.0 ⁽⁴⁾	721.0	68.6	811.0	1510.0
WATER YEAR 83-84	MEAN	32.9	29.8	62.0	7.1	0.2	98.0	104.0	107.0	88.5	0.0	0.3	1.4
	MAX.	879.0	442.0	616.0	51.6	6.6	183.0	171.0	112.0	112.0	0.0	10.0	29.4
	MIN.	0.0	0.0	0.0	0.0	0.0	14.9	3.5	101.0	0.1	0.0	0.0	0.0
TOTAL AF		2020.0	1770.0	3810.0 ⁽¹²⁾	439.0	13.1	6030.0 ⁽¹⁰⁾	6160.0	6590.0	5270.0	0.0	20.6	85.1
WATER YEAR 84-85	MEAN												
	MAX.				NO	DATA	FOR	1984	THRU	1985			
	MIN.												
TOTAL AF													
WATER YEAR 85-86	MEAN	5.3	32.1	2.0	158.0	74.1	96.8	82.9	104.0	34.5	1.4	4.9	25.1
	MAX.	99.0	485.0	27.5	500.0	683.0	893.0	143.0	226.0	70.0	6.4	8.4	512.0
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.0	0.0	0.0	0.0	0.0
TOTAL AF		323.0	1910.0	125.0	9740.0 ⁽¹¹⁾	4110.0 ⁽¹²⁾	5950.0 ⁽¹³⁾	4930.0	6400.0	2060.0	87.9	301.0	1500.0
WATER YEAR 86-87	MEAN	4.7	138.0	95.0	137.0	183.0	86.9	136.0	33.8	0.0	1.5	0.7	3.1
	MAX.	116.0	339.0	154.0	1040.0	404.0	216.0	201.0	188.0	0.2	11.9	9.4	10.0
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
TOTAL AF		288.0	8220.0	5840.0	8450.0 ⁽¹⁴⁾	10170.0 ⁽¹⁵⁾	5340.0	8090.0	2080.0	0.6	92.8	45.8	186.0

SAN GABRIEL RIVER above Florence Avenue STATION NO. F262B-R



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 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.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : F262B-R

DRAINAGE AREA : 215.80 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	0.0	0.0	0.0	1.3	0.1	11.1	0.0	0.0	0.0	0.0	0.0	0.0
	MAX.	0.0	0.0	0.0	21.4	2.8	219.0	0.0	0.0	0.0	0.0	0.0	0.0
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		0.0	0.0	0.0	81.1	7.1	684.0	0.0	0.0	0.0	0.0	0.0	0.0
WATER YEAR 81-82	MEAN	0.0	6.5	0.0	0.8	+	4.7	0.0	0.0	0.0	0.0	0.0	0.0
	MAX.	0.0	186.0	0.0	23.2	0.9	119.0	0.0	0.0	0.0	0.0	0.0	0.0
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		0.0	386.0	0.0	46.4	2.4	288.0	0.0	0.0	0.0	0.0	0.0	0.0

WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F262B-R

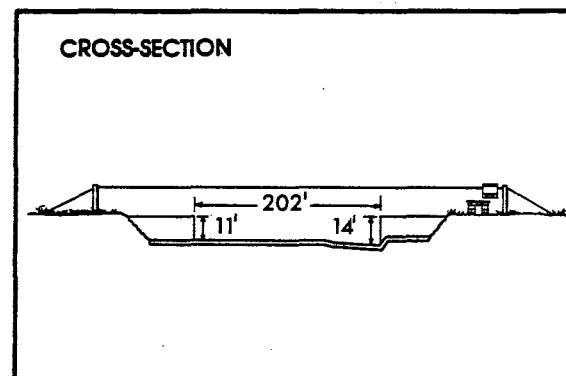
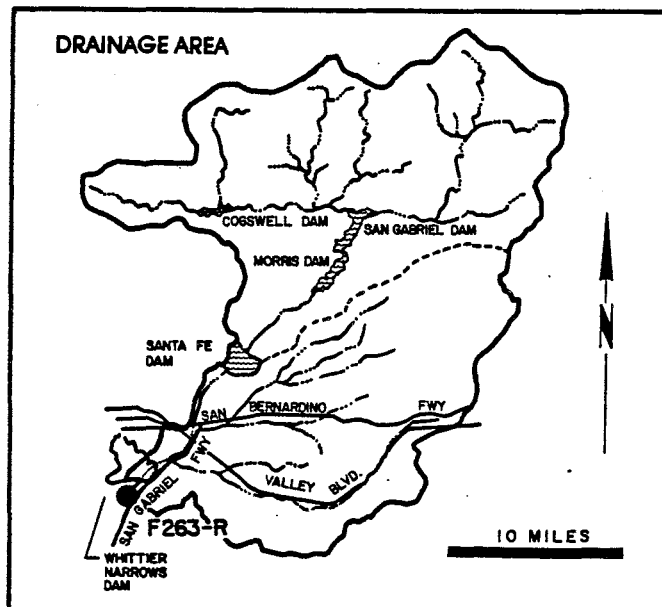
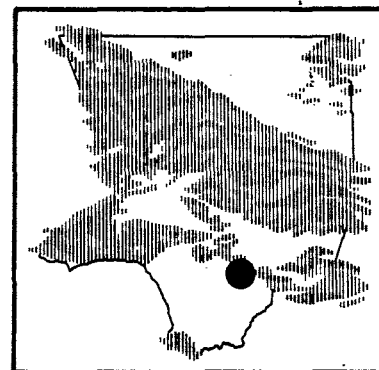
DRAINAGE AREA : 215.80 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	0.6	5.4	0.0	24.7	98.2	909.0	20.2	73.1	0.0	0.0	0.0	0.0
	MAX.	16.2	84.1	0.3	268.0	1140.0	4920.0	117.0	225.0	0.0	0.0	0.0	0.0
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		38.7	322.0	1.8	1520.0	5460.0	55900.0	1200.0	4500.0	0.0	0.0	0.0	0.0
WATER YEAR 83-84	MEAN	4.3	6.9	4.6	0.0	0.0	0.0	4.0	1.9	0.5	0.0	0.0	0.0
	MAX.	131.0	61.6	49.4	0.0	0.0	0.0	21.0	10.4	5.6	0.0	0.0	0.0
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		262.0	413.0	284.0	0.0	0.0	0.0	240.0	114.0	28.0	0.0	0.0	0.0
WATER YEAR 84-85	MEAN	0.0	0.6	21.9	0.0	2.0	1.4	1.6	1.5	0.1	0.0	0.0	0.0
	MAX.	0.0	17.6	215.0	0.0	54.8	17.2	12.0	12.9	2.1	0.0	0.0	0.0
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		0.0	34.9	1340.0	0.0	109.0	88.7	96.6	94.6	4.4	0.0	0.0	0.0
WATER YEAR 85-86	MEAN	0.0	0.5	0.6	0.0	18.6	24.1	1.1	0.7	4.5	9.6	0.0	17.6
	MAX.	0.0	15.6	9.3	0.0	493.0	223.0	23.8	7.8	18.3	32.7	0.0	528.0
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		0.0	32.5	35.5	0.0	1030.0	1480.0	67.2	43.0	269.0	591.0	0.0	1050.0
WATER YEAR 86-87	MEAN	4.6	0.3	0.5	25.7	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
	MAX.	48.2	9.6	7.5	585.0	4.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		283.0	19.2	29.8	1580.0	13.3	10.1	0.0	0.0	0.0	0.0	0.0	0.0

SAN GABRIEL RIVER

below San Gabriel River Parkway

STATION NO. F263C-R



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.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : F263C-R

DRAINAGE AREA : 206.30 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	9.0	7.0	27.3	37.4	31.4	63.5	38.1	51.5	27.3	38.6	28.0	36.2
	MAX.	17.9	8.4	260.0	124.0	123.0	335.0	119.0	71.1	64.5	108.0	85.8	53.6
	MIN.	3.8	5.7	6.3	7.7	7.4	9.5	5.7	39.2	2.5	14.4	11.1	6.9
TOTAL AF		551.0	418.0	1680.0	2300.0	1740.0	3900.0	2270.0	3170.0	1620.0	2380.0	1720.0	2160.0
WATER YEAR 81-82	MEAN	27.1	42.8	22.9	46.6	35.4	41.4	31.8	8.0	36.5	22.2	28.8	41.4
	MAX.	96.0	290.0	246.0	221.0	141.0	145.0	167.0	28.7	108.0	50.4	78.0	167.0
	MIN.	7.4	5.0	6.7	6.7	1.7	5.4	3.1	0.0	11.7	2.3	2.5	1.5
TOTAL AF		1670.0	2547.6	1410.0	2870.0	1970.0	2540.0	1890.0	494.0	2170.0	1370.0	1770.0	2460.0

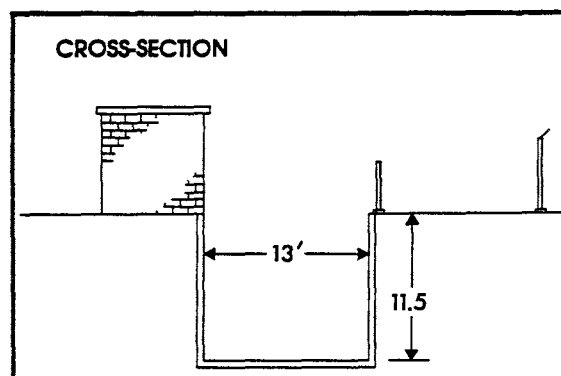
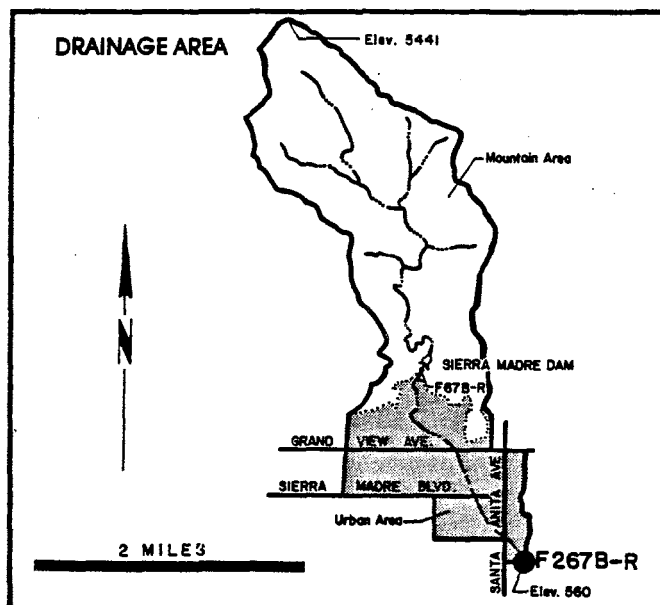
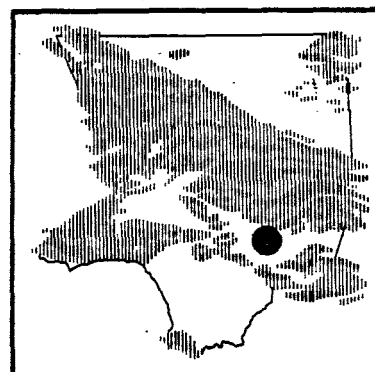
WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F263C-R

DRAINAGE AREA : 206.30 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	89.2	68.3	40.6	81.0	179.0	1040.0	109.0	146.0	58.2	55.4	41.8	33.8
	MAX.	150.0	346.0	109.0	460.0	1530.0	4740.0	302.0	336.0	94.0	67.2	59.8	88.6
	MIN.	19.9	8.4	8.4	7.7	11.7	39.2	52.0	21.7	24.4	47.2	26.3	29.1
TOTAL AF		5480.0	4070.0	2500.0	4980.0	9940.0	64190.0	6510.0	8960.0	3460.0	3410.0	2570.0	2010.0
WATER YEAR 83-84	MEAN	50.2	51.5	55.5	38.8	29.2	25.7	26.1	15.2	27.0	8.5	19.7	20.4
	MAX.	120.0	110.0	152.0	86.1	40.4	117.0	136.0	21.0	114.0	18.0	36.8	35.7
	MIN.	36.8	27.2	24.4	21.0	19.5	17.2	16.5	12.8	11.1	5.4	4.1	3.8
TOTAL AF		3090.0	3060.0	3420.0	2380.0	1680.0	1580.0	1560.0	933.0	1610.0	520.0	1210.0	1210.0
WATER YEAR 84-85	MEAN	29.5	74.6	111.0	38.9	34.3	31.7	13.2	10.2	6.8	8.9	4.1	9.3
	MAX.	47.1	198.0	387.0	209.0	216.0	188.0	30.2	66.7	10.6	25.3	5.7	58.4
	MIN.	23.4	9.3	31.8	11.1	12.2	11.7	9.1	5.0	4.4	3.1	3.1	3.8
TOTAL AF		1810.0	4440.0	6850.0	2390.0	1910.0	1950.0	788.0	629.0	403.0	549.0	251.0	553.0
WATER YEAR 85-86	MEAN	10.5	26.7	9.9	53.1	83.4	94.4	73.7	83.0	40.3	2.9	1.9	42.2
	MAX.	49.8	119.0	31.0	263.0	371.0	355.0	212.0	118.0	92.0	4.4	4.4	598.0
	MIN.	2.8	2.5	4.4	4.7	8.8	22.5	9.5	58.4	4.4	1.5	0.5	1.4
TOTAL AF		647.0	1590.0	608.0	3270.0	4630.0	5810.0	4390.0	5100.0	2400.0	178.0	116.0	2510.0
WATER YEAR 86-87	MEAN	27.7	13.4	8.0	57.2	57.2	53.4	44.6	48.6	14.9	38.0	2.2	0.0
	MAX.	168.0	184.0	129.0	1060.0	191.0	152.0	84.3	108.0	98.6	82.0	18.5	0.4
	MIN.	14.4	2.0	3.1	4.1	12.2	21.0	5.7	2.6	0.6	0.8	0.0	0.0
TOTAL AF		1700.0	799.0	492.0	3520.0	3180.0	3280.0	2650.0	2990.0	884.0	2330.0	137.0	1.0

SIERRA MADRE WASH at Highland Oaks Avenue STATION NO. F267B-R



RECORDER- 15 minute punched tape.

METHOD OF MEASUREMENTS- low flows measured by wading. High flows measured from upstream end of conduit 50 feet below station.

DRAINAGE AREA- 3.8 square miles.

LOCATION- on the south bank of the channel 50 feet above Highland Oaks Avenue, one and one-half miles southeast of Sierra Madre.

REGULATION- partially regulated by Sierra Madre Dam. Usual regulation affects high flows only.

DIVERSIONS- underground and surface flows developed and diverted by Sierra Madre Water Department. Flow also diverted about one mile above station for spreading in Sierra Madre Spreading Grounds.

CHANNEL-rectangular concrete 13 feet wide and 11.5 feet deep.

LENGTH OF RECORD- see station summary.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : F267B-R

DRAINAGE AREA : 3.80 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	0.6	0.7	0.5	0.7	0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.1
	MAX.	0.8	1.0	2.6	8.6	0.9	6.8	1.6	0.1	0.2	0.1	0.1	0.2
	MIN.	0.6	0.6	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
TOTAL AF		37.3	38.9	30.5	46.0	7.3	33.5	4.4	5.0	6.0	6.1	6.1	7.3
WATER YEAR 81-82	MEAN	0.1	0.4	0.1	0.4	0.1	1.4	0.6	0.1	0.2	0.2	0.1	0.4
	MAX.	0.3	4.8	0.4	5.3	1.6	25.7	13.4	1.0	0.6	0.6	0.4	4.7
	MIN.	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
TOTAL AF		6.7	25.0	6.7	22.4	3.2	88.5	36.9	8.3	13.3	14.5	6.9	23.2

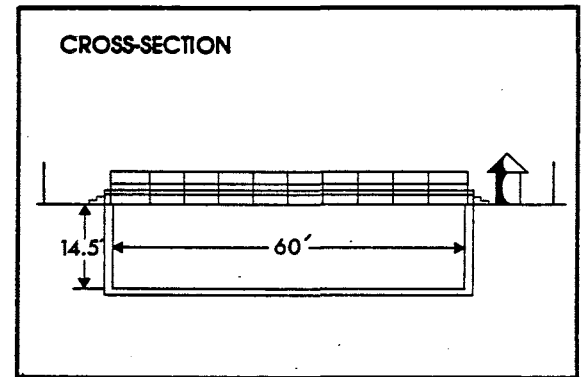
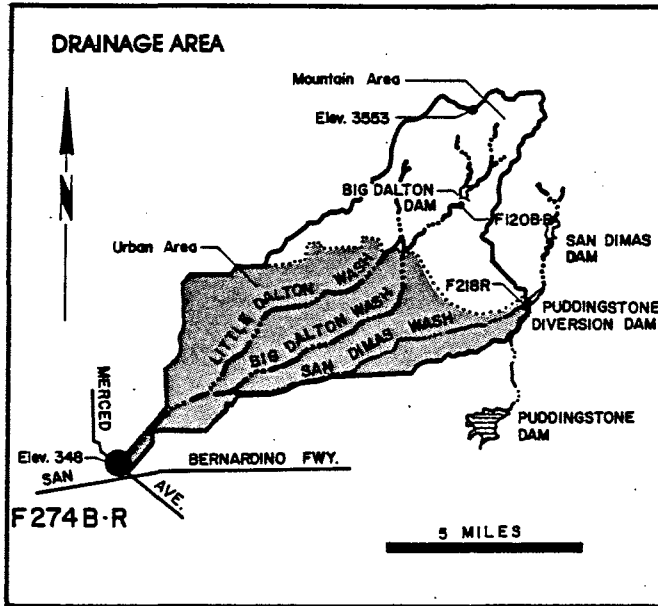
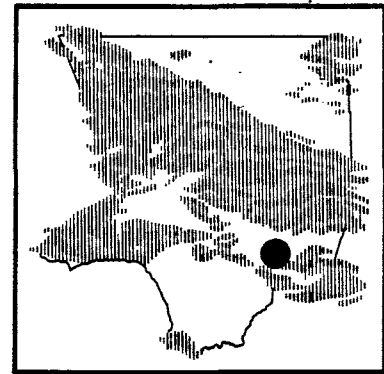
WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F267B-R

DRAINAGE AREA : 3.80 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	0.3	1.3	0.6	2.2	0.8	9.1	1.9	1.1	0.2	0.0	0.7	0.7
	MAX.	1.0	22.0	13.8	31.3	4.6	95.9	10.9	3.9	0.6	0.1	5.0	4.8
	MIN.	0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.1
TOTAL AF		16.3	77.0	34.1	138.0	41.9	557.0	114.0	70.2	10.9	1.0	45.4	40.5
WATER YEAR 83-84	MEAN	0.8	0.9	1.2	0.2	0.1	0.2	0.1	+	0.1	0.2	0.2	0.1
	MAX.	6.9	10.2	16.2	0.8	0.4	2.7	1.3	+	0.2	0.4	1.3	1.8
	MIN.	0.4	0.2	0.1	0.1	0.0	0.0	0.0	+	0.1	0.1	0.0	0.0
TOTAL AF		51.8	53.0	73.0	14.3	6.0	9.7	5.4	+	7.7	9.9	13.9	6.7
WATER YEAR 84-85	MEAN	0.0	0.2	1.2	0.1	0.2	0.2	0.3	0.4	0.1	0.0	0.0	0.0
	MAX.	0.1	4.0	7.3	1.1	4.3	1.3	1.3	1.0	0.2	0.0	0.0	0.2
	MIN.	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0
TOTAL AF		1.2	13.5	73.2	7.1	13.5	14.3	20.4	23.6	5.6	0.1	0.1	0.8
WATER YEAR 85-86	MEAN	0.0	0.3	0.0	0.5	0.7	0.7	0.1	0.0	0.0	0.0	0.0	0.4
	MAX.	0.8	6.9	0.1	11.4	4.6	10.5	1.7	0.0	0.0	0.0	0.0	11.6
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		2.8	17.5	0.4	33.1	38.3	45.8	8.3	0.0	0.0	0.0	0.0	25.0
WATER YEAR 86-87	MEAN												
	MAX.				NO	DATA	FOR	1986	THRU	1987			
	MIN.												
TOTAL AF													

DALTON WASH at Merced Avenue STATION NO. F274B-R



RECORDER- 15 minute punched tape.

METHOD OF MEASUREMENTS- low flows measured by wading. High flows measured from footbridge 100 feet upstream from station.

DRAINAGE AREA- 36.0 square miles, not including the area above Puddingstone Diversion Dam.

LOCATION- on the west bank and upstream of Merced Avenue about 150 feet, about one-half mile above the junction with Walnut Wash and about one mile south of Baldwin Park.

REGULATION- partly regulated by Big Dalton Dam, San Dimas Dam, Puddingstone Diversion Dam, Big Dalton Spreading Grounds, Little Dalton Spreading Grounds, Big Dalton Debris Basin, Little Dalton Debris Basin, and Irwindale Spreading Grounds.

REMARKS- flow may include imported water originating at San Dimas.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : F274B-R

DRAINAGE AREA : 35.95 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	9.5	4.5	31.8	89.4	24.7	26.6	62.7	2.4	2.5	2.8	2.7	3.1
	MAX.	13.2	19.6	107.0	245.0	99.0	379.0	128.0	4.4	5.2	5.2	5.2	9.0
	MIN.	6.0	2.7	1.6	4.4	3.7	1.9	2.7	1.0	1.3	1.9	1.6	1.6
TOTAL AF		581.0	269.0	1960.0	5550.0	1370.0	1640.0	3730.0	145.0	150.0	173.0	167.0	185.0
WATER YEAR 81-82	MEAN	60.2	71.4	76.9	64.9	81.7	41.7	44.3	6.4	41.2	36.3	36.6	82.8
	MAX.	152.0	293.0	192.0	291.0	184.0	568.0	257.0	41.0	111.0	106.0	55.4	168.0
	MIN.	1.6	1.6	3.7	0.8	0.6	1.0	1.6	0.6	2.7	5.2	19.9	18.0
TOTAL AF		3700.0	4250.0	4730.0	3990.0	4540.0	2560.0	2640.0	392.0	2450.0	2230.0	2250.0	4930.0

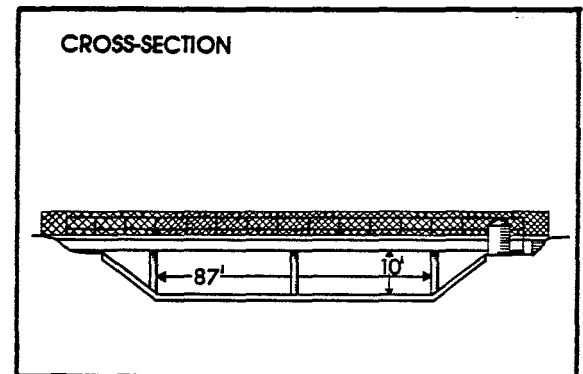
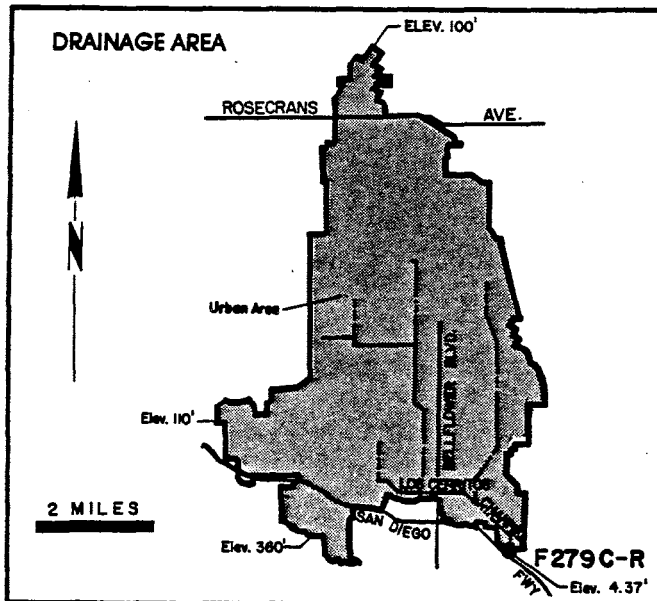
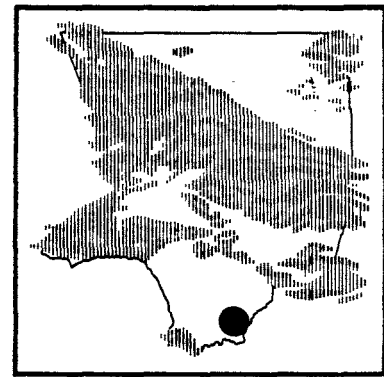
WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F274B-R

DRAINAGE AREA : 35.95 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	152.0	85.1	19.0	56.1	50.6	181.0	35.0	11.8	1.9	2.4	10.8	18.1
	MAX.	192.0	303.0	395.0	327.0	588.0	1690.0	309.0	36.5	5.3	3.2	102.0	238.0
	MIN.	94.8	36.0	1.0	1.0	3.2	0.0	0.1	0.6	0.3	1.6	1.9	1.3
TOTAL AF		9320.0	5060.0	1170.0	3450.0	2810.0	11130.0	2090.0	728.0	112.0	145.0	664.0	1080.0
WATER YEAR 83-84	MEAN	15.5	14.3	23.6	1.5	0.1	97.1	106.0	111.0	93.6	1.3	2.2	2.8
	MAX.	347.0	223.0	172.0	31.3	0.3	145.0	149.0	120.0	120.0	3.2	26.8	30.5
	MIN.	1.9	0.1	0.1	0.0	0.1	30.1	6.9	103.0	1.3	0.6	0.8	0.8
TOTAL AF		951.0	852.0	1450.0	90.6	6.1	5970.0	6330.0	6800.0	5570.0	78.1	136.0	164.0
WATER YEAR 84-85	MEAN	1.4	95.9	105.0	4.1	78.7	110.0	140.0	95.4	61.1	0.8	1.8	2.4
	MAX.	11.8	322.0	239.0	36.7	202.0	190.0	200.0	184.0	160.0	1.6	3.7	13.3
	MIN.	0.3	0.3	0.4	0.6	0.1	0.1	0.3	1.3	0.8	0.2	0.8	1.0
TOTAL AF		84.1	5710.0	6430.0	254.0	4370.0	6760.0	8350.0	5870.0	3640.0	48.2	108.0	144.0
WATER YEAR 85-86	MEAN	3.6	11.8	2.5	143.0	26.7	30.9	78.0	108.0	34.8	2.1	4.5	20.8
	MAX.	44.9	154.0	13.9	242.0	209.0	312.0	128.0	242.0	67.2	7.9	9.1	496.0
	MIN.	0.6	0.6	0.4	1.3	0.3	0.3	0.4	48.5	0.4	0.1	0.3	0.1
TOTAL AF		223.0	703.0	156.0	8820.0	1480.0	1900.0	4640.0	6650.0	2070.0	129.0	280.0	1240.0
WATER YEAR 86-87	MEAN	5.2	131.0	94.2	106.0	167.0	86.1	143.0	46.2	1.2	3.8	1.3	2.9
	MAX.	77.7	241.0	160.0	347.0	228.0	200.0	214.0	249.0	5.2	10.2	9.1	11.8
	MIN.	0.1	2.3	1.6	0.1	1.6	0.6	0.8	0.1	0.1	0.0	0.1	0.1
TOTAL AF		319.0	7800.0	5790.0	6490.0	9290.0	5300.0	8480.0	2840.0	71.4	231.0	77.4	174.0

LOS CERRITOS CHANNEL at Stearns Street STATION NO. F279C-R



RECORDER- continuous water stage.
METHOD OF MEASUREMENTS- wading or from bridge.
DRAINAGE AREA- 25.6 square miles.
LOCATION- upstream of Stearns Street, Long Beach.
REGULATION- none.
CHANNEL- concrete, trapezoidal in section.
CONTROL- channel forms control.
LENGTH OF RECORD- at Station F279-R November 23, 1942 to January 1, 1949. at Station F279B-R January 1, 1949 to May 26, 1955. at Station F279C-R October 26, 1955 to date.
REMARKS- station not in service May 26, 1955 to October 26, 1955 due to channel construction.

WATER YEARS : 1980-1982
 (DISCHARGE IN SEC-FT)

STATION NO. : F279C-R

DRAINAGE AREA : 25.60 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	1.2	1.3	12.4	18.3	15.5	32.9	2.1	0.8	0.9	1.1	1.4	1.3
	MAX.	1.7	2.0	351.0	281.0	150.0	385.0	25.3	1.5	1.3	1.7	5.0	1.9
	MIN.	0.6	1.0	0.6	0.6	0.6	0.6	0.6	0.2	0.2	0.6	0.4	1.0
TOTAL AF		72.8	76.8	762.0	1120.0	861.0	2020.0	124.0	50.0	55.3	65.3	879.0	79.3
WATER YEAR 81-82	MEAN	7.3	23.4	8.0	21.6	2.4	29.5	7.8	1.7	1.1	1.3	1.6	3.6
	MAX.	159.0	345.0	234.0	230.0	34.7	351.0	132.0	23.7	2.3	3.3	12.4	39.0
	MIN.	0.6	0.4	0.2	0.6	0.2	0.4	0.2	0.4	0.8	0.8	0.6	0.4
TOTAL AF		450.0	1390.0	494.0	1327.0	134.0	1817.0	462.0	104.0	66.4	79.9	100.0	212.0

WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F279C-R

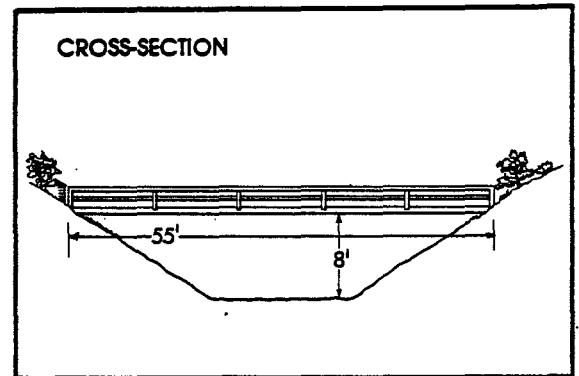
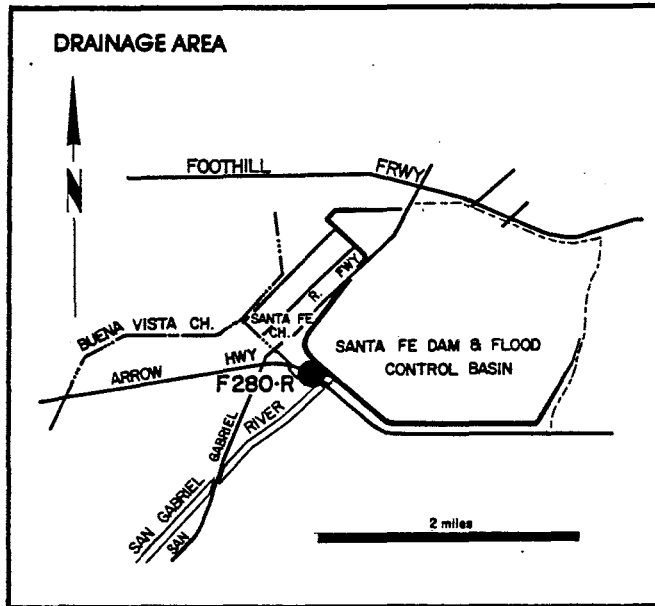
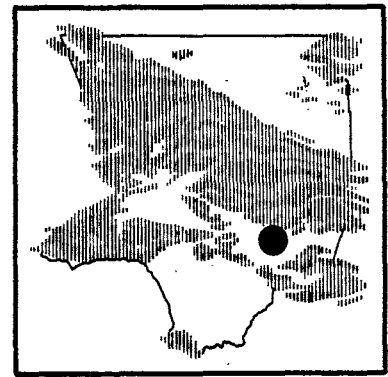
DRAINAGE AREA : 25.60 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	1.9	28.8	8.9	30.0	57.7	97.6	20.5	2.8	1.8	3.0	8.0	11.7
	MAX.	21.2	412.0	217.0	317.0	652.0	1590.0	221.0	60.5	5.9	10.2	99.5	252.0
	MIN.	0.4	0.2	0.2	0.4	0.8	0.6	0.2	0.4	0.8	1.0	1.5	0.8
TOTAL AF		114.0	1710.0	544.0	1840.0	3210.0	6000.0	1220.0	171.0	110.0	181.0	493.0	696.0
WATER YEAR 83-84	MEAN	18.0	29.5	15.2	2.9	1.0	2.4	9.5	1.9	1.8	2.3	5.2	2.6
	MAX.	367.0	230.0	150.0	59.1	5.4	27.3	201.0	2.6	3.0	17.4	110.0	27.6
	MIN.	0.8	0.4	0.4	0.6	0.4	0.8	0.8	1.3	1.3	1.3	1.1	1.0
TOTAL AF		1110.0	1760.0	937.0	177.0	57.7	147.0	567.0	118.0	108.0	142.0	319.0	157.0
WATER YEAR 84-85	MEAN	2.2	11.3	36.9	6.7	15.3	7.4	1.8	2.4	1.9	3.0	2.8	3.0
	MAX.	43.6	207.0	260.0	89.7	341.0	99.0	3.5	26.9	2.6	4.4	4.9	28.1
	MIN.	0.4	0.2	0.2	0.2	0.4	0.8	1.1	1.3	1.3	1.9	2.1	1.5
TOTAL AF		135.0	675.0	2270.0	411.0	852.0	456.0	107.0	149.0	115.0	184.0	170.0	178.0
WATER YEAR 85-86	MEAN	1.4	36.1	2.9	14.7	59.8	24.9	4.8	INC.	INC.	INC.	INC.	INC.
	MAX.	7.1	499.0	57.1	250.0	663.0	300.0	105.0	INC.	INC.	INC.	INC.	INC.
	MIN.	0.8	0.2	0.2	0.4	1.0	0.8	1.0	INC.	INC.	INC.	INC.	INC.
TOTAL AF		84.7	2150.0	176.0	906.0	3320.0	1530.0	286.0	INC.	INC.	INC.	INC.	INC.
WATER YEAR 86-87	MEAN	3.4	9.1	2.4	15.6	9.9	5.3	2.1	1.3	1.6	1.6	1.5	1.5
	MAX.	63.1	138.0	43.4	288.0	95.2	76.2	9.0	1.9	13.0	5.1	2.6	2.1
	MIN.	1.0	0.4	0.4	0.6	0.8	0.8	0.6	1.0	1.1	1.1	1.1	1.0
TOTAL AF		209.0	539.0	145.0	960.0	551.0	329.0	124.0	77.0	98.2	95.6	90.4	86.5

SANTA FE CHANNEL

below Santa Fe Dam

STATION NO. F280-R



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.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : F280-R

DRAINAGE AREA : CONTROLLED

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	0.0	186.0	54.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MAX.	0.0	370.0	331.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		0.0	11040.0	3320.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WATER YEAR 81-82	MEAN	0.0	0.0	21.9	0.0	0.0	0.0	0.0	0.0	79.9	0.0	0.0	117.0
	MAX.	0.0	0.0	170.0	0.0	0.0	0.0	0.0	0.0	268.0	0.0	0.0	268.0
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		0.0	0.0	1350.0	0.0	0.0	0.0	0.0	0.0	4750.0	0.0	0.0	6950.0

WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

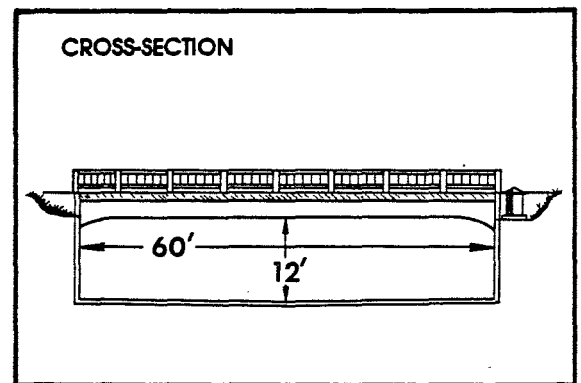
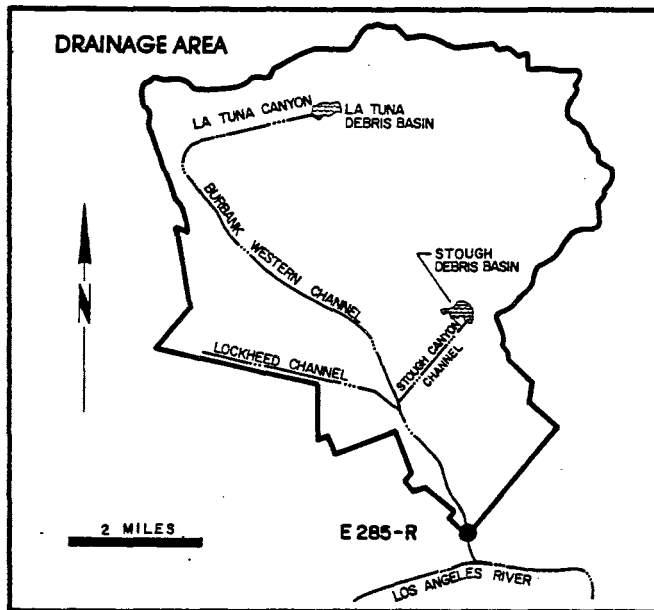
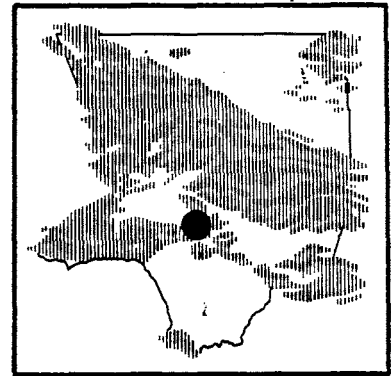
STATION NO. : F280-R

DRAINAGE AREA : CONTROLLED

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	127.0	120.0	36.7	0.1	0.1	0.0	0.0	45.1	102.0	163.0	0.0	0.0
	MAX.	198.0	197.0	136.0	0.4	0.1	0.4	0.1	356.0	160.0	365.0	0.0	0.4
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.6	0.0	0.0	0.0
TOTAL AF		7800.0	7130.0	2250.0	6.0	3.6	1.4	0.6	2770.0	6090.0	10040.0	0.0	1.4
WATER YEAR 83-84	MEAN	212.0	57.2	2.3	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MAX.	382.0	279.0	21.8	15.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		13050.0	3400.0	138.0	171.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WATER YEAR 84-85	MEAN	0.0	0.2	3.6	0.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MAX.	0.0	1.5	31.7	1.8	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		0.0	10.1	219.0	19.4	29.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WATER YEAR 85-86	MEAN	0.0	0.0	0.0	0.2	125.0	75.1	172.0	118.0	0.0	0.0	0.0	0.0
	MAX.	0.0	0.0	0.0	4.4	378.0	371.0	309.0	283.0	0.0	0.0	0.0	0.5
	MIN.	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		0.0	0.0	0.0	14.9	6970.0	4620.0	10250.0	7260.0	0.0	0.0	0.0	1.0
WATER YEAR 86-87	MEAN	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MAX.	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		0.0	115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

BURBANK-WESTERN ST. DR.

at Riverside Drive
STATION NO. E 285-R



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.

WATER YEARS : 1980-1982
 (DISCHARGE IN SEC-FT)

STATION NO. : E285-R

DRAINAGE AREA : 25.00 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER	MEAN	13.1	17.8	17.2	27.9	17.1	38.6	15.1	9.8	8.1	9.2	10.3	13.8
	YEAR	MAX.	18.5	25.8	71.3	257.0	75.8	190.0	30.3	13.1	11.9	11.9	17.1
	80-81	MIN.	10.6	10.6	13.1	9.1	6.7	5.6	10.6	4.5	5.6	6.7	9.1
TOTAL AF		806.0	1060.0	1050.0	1720.0	949.0	2380.0	896.0	602.0	484.0	566.0	635.0	819.0
WATER	MEAN	10.3	24.3	5.2	24.6	10.0	55.9	28.6	8.6	6.2	10.4	8.7	13.7
	YEAR	MAX.	25.8	200.0	15.5	314.0	62.1	425.0	389.0	17.8	9.1	14.6	127.0
	81-82	MIN.	2.2	2.2	3.9	4.5	5.0	6.7	5.6	3.9	2.2	6.7	5.6
TOTAL AF		631.0	1450.0	320.0	1510.0	588.0	3430.0	1700.0	528.0	371.0	637.0	534.0	816.0

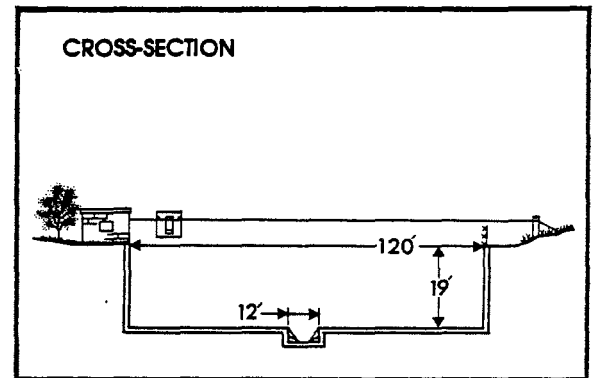
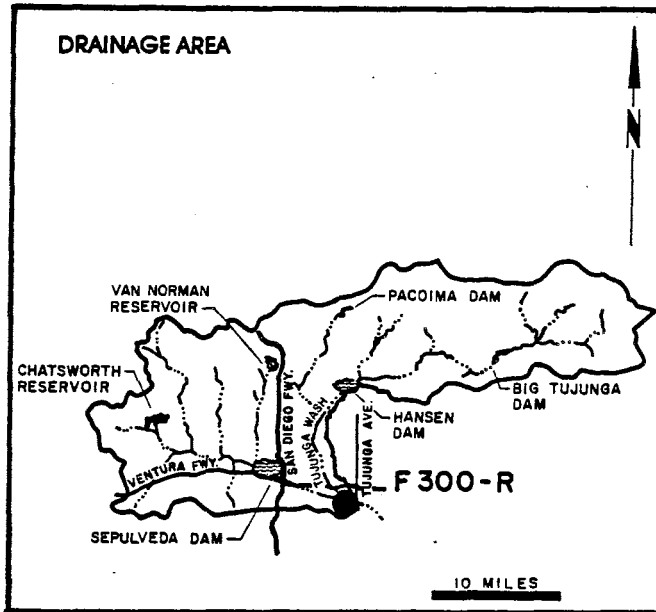
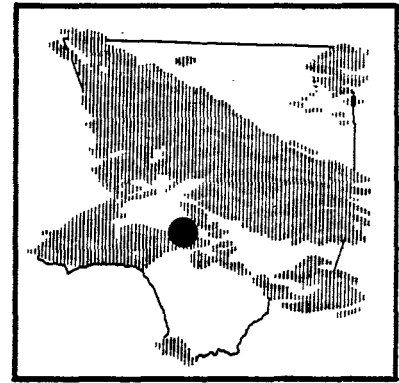
WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : E285-R

DRAINAGE AREA : 25.00 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	6.7	36.6	15.1	57.8	52.9	156.0	44.0	15.5	11.6	8.2	15.0	20.8
	MAX.	15.0	467.0	136.0	574.0	310.0	1710.0	363.0	28.0	14.6	10.6	76.3	254.0
	MIN.	4.5	9.1	5.6	9.1	11.9	14.6	10.6	13.1	9.1	6.7	6.7	7.9
TOTAL AF		410.0	2160.0	928.0	3550.0	2940.0	9590.0	2620.0	951.0	690.0	504.0	924.0	1240.0
WATER YEAR 83-84	MEAN	14.9	19.3	20.2	6.4	5.8	8.5	8.1	7.1	6.6	5.7	7.4	6.7
	MAX.	138.0	124.0	231.0	7.9	7.9	46.3	12.7	9.1	9.1	7.9	11.9	15.6
	MIN.	6.7	7.9	6.7	4.5	4.5	4.5	6.7	5.6	5.0	2.8	5.0	5.6
TOTAL AF		915.0	1150.0	1240.0	395.0	333.0	523.0	485.0	439.0	394.0	351.0	455.0	401.0
WATER YEAR 84-85	MEAN	7.6	12.6	35.8	10.0	12.5	8.9	5.9	5.7	6.7	3.3	3.7	2.9
	MAX.	9.1	97.6	363.0	58.9	111.0	43.0	14.3	8.4	11.9	5.0	5.0	9.1
	MIN.	5.6	5.0	4.5	5.0	5.6	5.0	4.5	5.0	5.0	1.1	1.1	1.1
TOTAL AF		469.0	752.0	2200.0	612.0	696.0	548.0	352.0	349.0	402.0	203.0	228.0	172.0
WATER YEAR 85-86	MEAN	9.8	20.0	6.8	27.2	32.0	28.6	13.4	6.4	5.1	5.5	3.8	10.4
	MAX.	47.7	138.0	17.1	372.0	232.0	214.0	116.0	9.1	6.7	10.6	4.5	135.0
	MIN.	5.6	5.6	5.6	5.6	5.6	5.0	6.7	5.0	2.8	2.8	3.4	2.8
TOTAL AF		600.0	1190.0	421.0	1670.0	1780.0	1760.0	795.0	394.0	303.0	340.0	233.0	619.0
WATER YEAR 86-87	MEAN	6.9	18.1	8.1	23.1	10.8	8.4	4.4	7.3	9.6	5.9	7.4	4.8
	MAX.	41.6	118.0	34.9	288.0	79.0	65.7	6.7	10.6	98.4	6.7	14.6	10.6
	MIN.	3.4	5.6	5.6	5.6	3.4	3.4	2.8	5.6	5.0	5.0	5.6	1.7
TOTAL AF		426.0	1080.0	498.0	1420.0	599.0	518.0	264.0	448.0	574.0	362.0	454.0	284.0

LOS ANGELES RIVER at Tujunga Avenue STATION NO. F300-R



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.

WATER YEARS : 1980-1982
 (DISCHARGE IN SEC-FT)

STATION NO. : F300-R

DRAINAGE AREA : 401.00 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	34.6	23.3	72.8	210.0	104.5	310.2	39.1	55.9	36.9	12.9	15.5	12.3
	MAX.	49.8	39.2	1170.0	2600.0	790.0	2350.0	278.0	78.8	48.8	15.4	22.1	26.6
	MIN.	19.6	11.7	24.9	24.4	21.3	23.8	14.2	24.9	22.2	11.1	11.3	10.0
TOTAL AF		2130.0	1380.0	4480.0	12920.0	5800.0	19070.0	2330.0	3440.0	2190.0	795.0	954.0	731.0
WATER YEAR 81-82	MEAN	18.9	118.0	29.5	166.0	33.8	245.0	171.7	35.6	16.1	11.8	11.5	12.6
	MAX.	160.0	1800.0	584.0	2940.0	503.0	3610.0	2100.0	85.0	31.5	17.5	14.7	42.0
	MIN.	5.0	7.1	6.1	10.0	8.7	8.4	5.0	5.0	11.1	10.0	10.6	6.8
TOTAL AF		1160.0	7000.0	1810.0	10180.0	1880.0	15070.0	10020.0	2190.0	956.0	728.0	708.0	747.0

WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F300-R

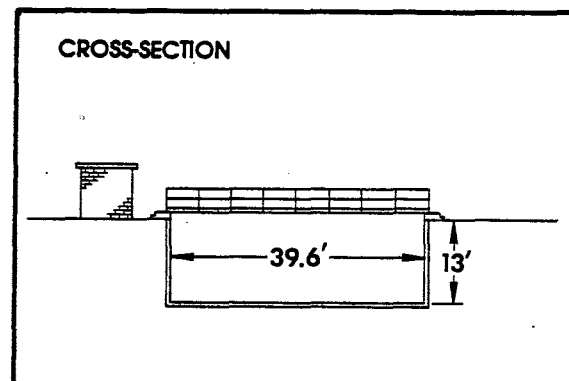
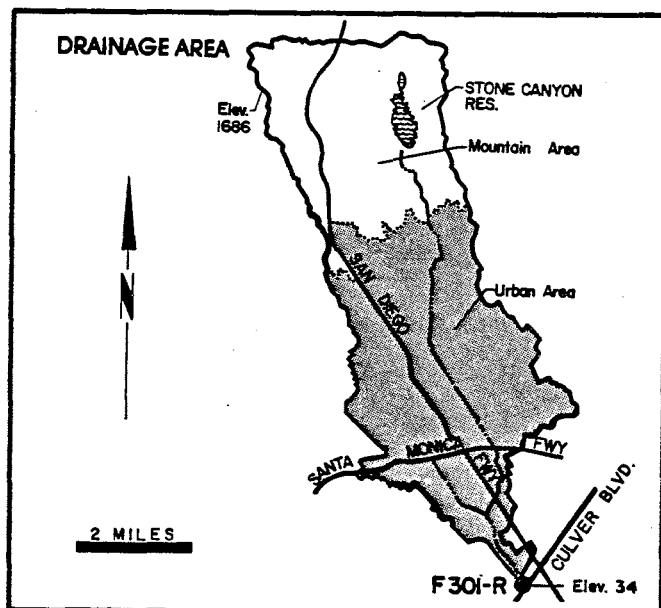
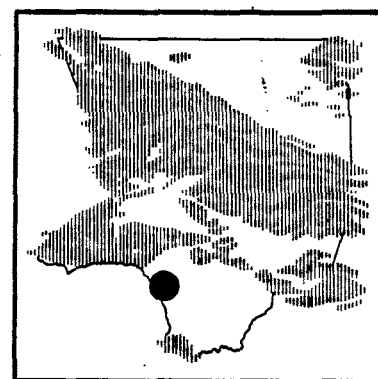
DRAINAGE AREA : 401.00 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	10.1	305.0	80.0	440.0	518.1	2560.0	499.0	261.8	54.3	36.8	102.1	121.4
	MAX.	30.2	3350.0	1640.0	4300.0	2280.0	19580.0	2000.0	690.0	122.0	44.0	760.0	1620.0
	MIN.	6.8	5.7	6.6	7.8	42.0	443.0	130.0	155.0	42.0	29.0	37.0	37.0
TOTAL AF		619.0	18150.0	4920.0	27080.0	28770.0	157410.0	29670.0	1700.0	3230.0	2260.0	6280.0	7225.0
WATER YEAR 83-84	MEAN												
	MAX.				NO	DATA	FOR	1983	THRU	1984			
	MIN.												
TOTAL AF													
WATER YEAR 84-85	MEAN	16.8	75.6	233.0	40.1	71.2	45.8	14.9	15.5	14.4	15.2	11.6	14.6
	MAX.	176.0	730.0	1820.0	373.0	1050.0	564.0	35.3	35.2	23.7	55.8	14.1	31.2
	MIN.	8.1	8.4	9.1	10.2	13.0	12.0	8.7	11.6	12.3	12.0	9.1	9.1
TOTAL AF		1040.0	4500.0	14320.0	2460.0	3960.0	2820.0	888.0	955.0	857.0	935.0	711.0	869.0
WATER YEAR 85-86	MEAN	42.4	187.0	57.4	216.0	392.0	280.0	80.3	51.1	49.9	47.8	51.8	80.3
	MAX.	201.0	1660.0	526.0	2790.0	3060.0	2370.0	664.0	58.8	55.4	59.7	60.7	739.0
	MIN.	28.3	20.0	26.2	32.6	36.2	43.2	44.1	45.0	39.8	41.9	47.4	48.0
TOTAL AF		2610.0	11100.0	3520.0	13260.0	2174.0	17210.0	4780.0	3140.0	2970.0	2940.0	3180.0	4780.0
WATER YEAR 86-87	MEAN	75.7	113.0	71.0	105.0	84.5	102.0	50.0	50.0	50.0	50.9	49.1	65.2
	MAX.	692.0	946.0	417.0	911.0	627.0	516.0	50.0	50.0	50.0	68.5	56.1	75.6
	MIN.	48.1	49.9	49.4	48.3	34.9	42.3	50.0	50.0	50.0	31.7	44.0	47.4
TOTAL AF		4660.0	6700.0	4360.0	6450.0	4690.0	6270.0	2975.0	3074.0	2975.0	3130.0	3020.0	3880.0

SAWTELLE-WESTWOOD CHANNEL

above Culver Boulevard

STATION NO. F301-R



RECORDER- 15 minute punched tape.

METHOD OF MEASUREMENTS- low flows measured by wading. High flows measured from footbridge at station.

DRAINAGE AREA- 22.96 square miles.

LOCATION- on the south channel wall, 141 feet above Culver Boulevard bridge about one and one half miles southwest of Culver City.

REGULATION- Stone Canyon Reservoir, Southern California Water Company spills flow up to 5.0 second-feet into Sawtelle-Westwood Channel above Chamock Road for short periods nearly every day.

CHANNEL- rectangular concrete channel 40 feet wide and 13 feet deep.

CONTROL- channel forms control.

LENGTH OF RECORD- see station summary.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : F301-R

DRAINAGE AREA : 22.96 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	6.9	6.1	16.1	19.6	12.9	40.4	9.4	8.7	8.9	7.0	6.3	7.3
	MAX.	12.2	7.5	335.0	237.0	108.0	505.0	50.9	11.0	11.0	8.7	9.9	15.7
	MIN.	4.7	4.7	3.6	3.1	3.1	3.6	3.6	6.4	6.4	5.2	5.2	5.2
TOTAL AF		423.0	364.0	990.0	1210.0	718.0	2480.0	562.0	537.0	531.0	433.0	390.0	433.0
WATER YEAR 81-82	MEAN	8.5	19.8	12.7	26.0	9.6	40.7	21.7	8.8	5.0	4.9	4.5	10.8
	MAX.	33.0	194.0	186.0	270.0	113.0	389.0	333.0	14.6	6.4	6.4	5.2	92.0
	MIN.	5.2	3.6	4.7	4.2	3.6	3.1	3.6	4.2	4.2	4.2	3.6	3.6
TOTAL AF		525.0	1180.0	782.0	1600.0	536.0	2500.0	1290.0	542.0	296.0	304.0	276.0	640.0

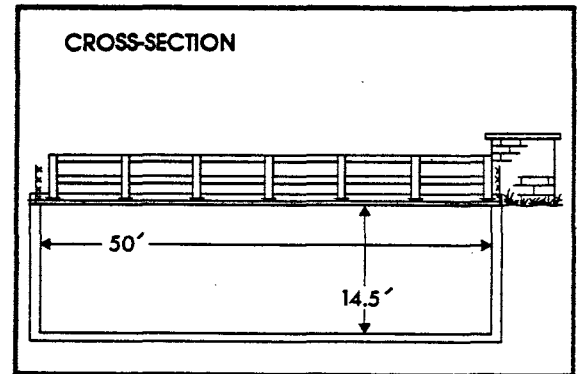
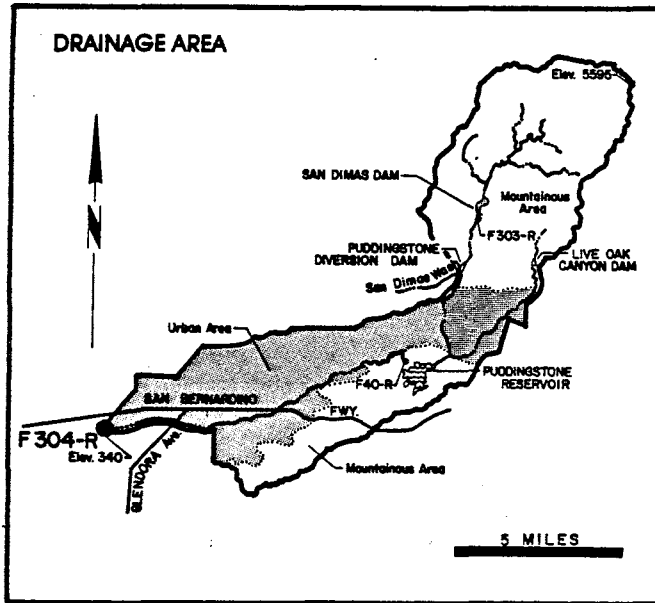
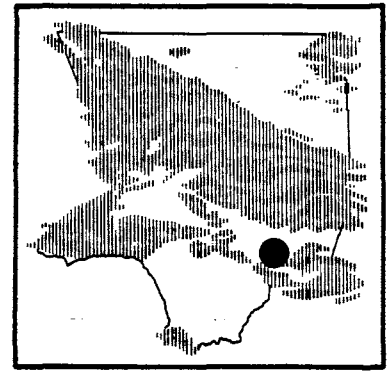
WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F301-R

DRAINAGE AREA : 22.96 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	5.4	36.8	16.7	72.7	41.4	91.6	28.9	5.6	6.8	5.4	9.7	15.9
	MAX.	17.2	529.0	367.0	717.0	357.0	1100.0	211.0	8.7	13.4	7.5	91.9	248.0
	MIN.	2.6	2.6	3.1	2.6	3.1	6.3	4.2	3.6	4.2	4.7	4.7	5.2
TOTAL AF		334.0	2190.0	1020.0	4470.0	2300.0	5630.0	1720.0	343.0	402.0	333.0	596.0	943.0
WATER YEAR 83-84	MEAN	15.9	31.4	37.6	5.8	5.7	6.1	8.2	8.3	8.6	8.5	8.6	11.9
	MAX.	184.0	275.0	475.0	15.2	8.7	32.4	93.3	9.9	12.2	12.2	9.9	29.0
	MIN.	3.6	5.2	3.6	3.1	4.7	3.6	3.6	6.4	5.2	6.4	7.5	7.5
TOTAL AF		978.0	1870.0	2310.0	354.0	329.0	374.0	486.0	512.0	511.0	521.0	532.0	688.0
WATER YEAR 84-85	MEAN	7.4	18.4	22.8	5.4	30.4	20.4	6.1	7.2	5.1	6.1	11.5	6.1
	MAX.	37.8	191.0	137.0	15.8	350.0	261.0	9.9	19.9	8.7	8.7	12.2	12.2
	MIN.	4.2	4.2	3.1	4.2	5.2	4.2	4.2	3.6	3.6	4.7	9.9	4.2
TOTAL AF		454.0	1100.0	1400.0	333.0	1690.0	1250.0	364.0	445.0	306.0	373.0	710.0	363.0
WATER YEAR 85-86	MEAN	6.8	39.5	10.2	28.1	64.4	38.4	7.7	5.3	4.6	6.5	8.2	20.3
	MAX.	60.9	309.0	58.8	370.0	818.0	382.0	40.7	12.2	6.4	8.7	12.2	426.0
	MIN.	4.2	3.6	3.6	3.6	3.1	4.2	4.2	3.6	3.6	4.7	6.4	4.7
TOTAL AF		420.0	2350.0	628.0	1730.0	3580.0	2360.0	460.0	324.0	273.0	402.0	507.0	1210.0
WATER YEAR 86-87	MEAN	6.2	11.4	7.5	14.0	15.8	14.1	4.5	5.2	INC.	INC.	INC.	INC.
	MAX.	26.7	188.0	46.5	231.0	181.0	119.0	4.7	6.4	INC.	INC.	INC.	INC.
	MIN.	3.1	4.2	4.2	4.2	3.6	4.2	4.2	4.2	INC.	INC.	INC.	INC.
TOTAL AF		379.0	678.0	462.0	859.0	878.0	866.0	271.0	319.0	INC.	INC.	INC.	INC.

WALNUT CREEK above Puente Avenue STATION NO. F304-R



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.

WATER YEARS : 1980-1982
 (DISCHARGE IN SEC-FT)

STATION NO. : F304-R

DRAINAGE AREA : 57.60 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	0.9	0.5	2.0	14.3	7.6	27.0	27.3	0.2	0.3	0.3	0.3	0.4
	MAX.	2.1	1.2	57.1	218.0	68.5	468.0	32.1	1.2	0.9	0.4	0.4	0.9
	MIN.	0.4	0.2	+	+	0.4	0.0	0.1	+	0.1	0.2	0.2	0.2
TOTAL AF		56.7	30.7	124.0	878.0	423.0	1660.0	139.0	13.5	18.0	17.1	21.4	23.6
WATER YEAR 81-82	MEAN	0.5	21.2	1.5	21.3	10.2	61.3	12.0	0.4	0.2	0.2	0.9	3.2
	MAX.	5.4	400.0	36.3	357.0	135.0	724.0	248.0	4.6	0.6	0.9	8.6	52.8
	MIN.	+	+	0.0	0.0	0.0	+	0.1	+	+	+	0.1	0.2
TOTAL AF		32.7	1260.0	92.6	1310.0	564.0	3770.0	714.0	26.6	10.1	9.7	52.8	189.0

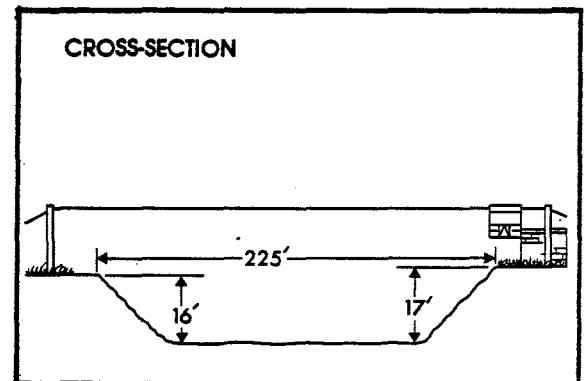
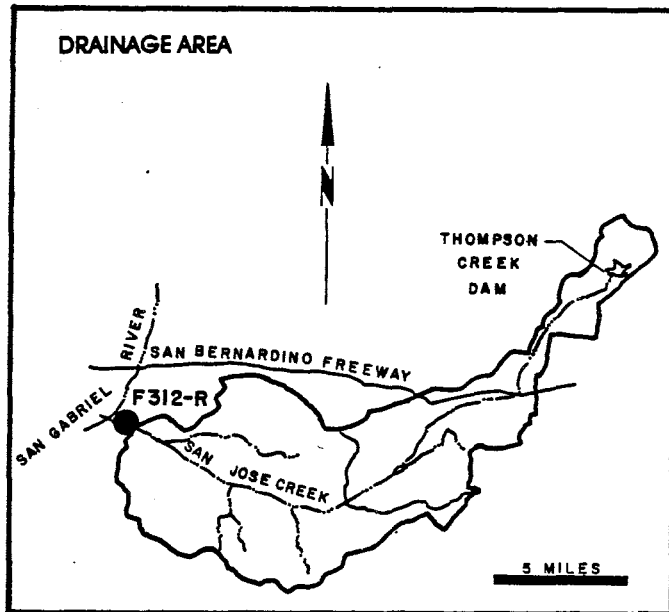
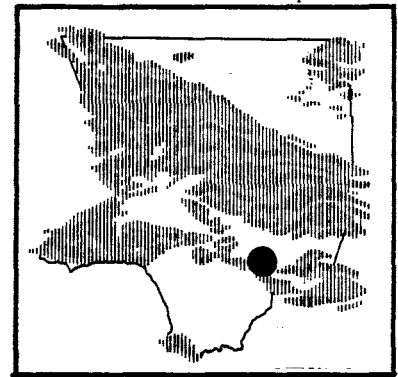
WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F304-R

DRAINAGE AREA : 57.60 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	1.0	49.7	30.4	70.0	70.8	241.0	51.4	14.2	0.8	0.9	4.9	8.2
	MAX.	30.0	768.0	327.0	355.0	788.0	1570.0	300.0	89.5	2.7	3.3	99.2	152.0
	MIN.	0.0	0.0	0.4	0.0	0.0	37.8	0.4	0.1	0.0	0.0	0.0	0.0
TOTAL AF		64.5	2960.0	1870.0	4310.0	3930.0	14800.0	3060.0	875.0	48.6	54.3	304.0	486.0
WATER YEAR 83-84	MEAN	13.8	10.7	32.7	6.3	1.1	0.6	1.2	0.2	0.6	0.2	0.0	0.3
	MAX.	424.0	232.0	345.0	52.8	24.5	13.7	16.9	2.1	2.1	0.9	0.2	7.0
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		851.0	638.0	2010.0	385.0	62.9	36.3	71.2	9.3	34.9	13.3	2.0	20.6
WATER YEAR 84-85	MEAN	1.5	17.1	40.5	12.9	11.8	4.5	1.1	3.8	1.9	0.8	0.8	1.5
	MAX.	6.8	138.0	276.0	176.0	268.0	51.7	2.7	12.6	3.3	4.8	2.1	8.3
	MIN.	0.2	1.6	0.2	0.0	0.0	0.0	0.4	1.2	1.2	0.0	0.2	0.4
TOTAL AF		91.8	1020.0	2490.0	791.0	653.0	278.0	63.7	232.0	111.0	48.6	52.2	87.5
WATER YEAR 85-86	MEAN	3.0	18.3	2.4	15.0	42.5	59.2	3.6	2.5	2.7	2.4	1.8	6.8
	MAX.	67.9	293.0	18.5	282.0	387.0	532.0	69.2	4.0	5.6	4.0	3.3	155.0
	MIN.	0.4	0.0	0.2	0.1	0.4	0.4	0.2	0.4	2.1	0.4	0.4	0.2
TOTAL AF		182.0	1090.0	147.0	922.0	2360.0	3640.0	216.0	155.0	158.0	142.0	113.0	407.0
WATER YEAR 86-87	MEAN	2.7	6.0	1.1	37.0	13.0	3.4	0.6	0.4	0.6	0.5	0.5	0.3
	MAX.	67.7	128.0	27.4	693.0	124.0	33.9	2.1	0.9	1.2	1.6	2.1	2.2
	MIN.	0.1	0.1	0.0	0.0	0.1	0.2	0.4	0.1	0.1	0.2	0.4	0.0
TOTAL AF		166.0	359.0	69.4	2270.0	723.0	208.0	38.5	22.0	33.1	32.9	33.1	16.3

SAN JOSE CHANNEL above Workman Mill Road STATION NO. F312-R



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.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : F312-R

DRAINAGE AREA : 83.40 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	122.0	74.2	25.2	59.5	58.8	73.9	48.6	143.0	120.0	142.0	162.0	121.0
	MAX.	133.0	130.0	222.0	655.0	207.0	1240.0	140.0	146.0	149.0	169.0	172.0	139.0
	MIN.	105.0	18.6	15.0	15.0	16.2	15.0	12.6	140.0	58.9	94.6	155.0	46.4
TOTAL AF		7490.0	4420.0	1550.0	3660.0	3270.0	4540.0	2890.0	8880.0	7140.0	8730.0	9970.0	7230.0
WATER YEAR 81-82	MEAN	19.7	67.9	21.7	56.3	32.3	102.0	34.4	13.5	11.9	14.2	17.4	17.0
	MAX.	122.0	1070.0	93.7	548.0	255.0	1140.0	497.0	20.4	14.2	18.6	87.3	67.1
	MIN.	13.4	12.6	12.6	13.4	12.6	12.6	11.8	12.6	9.4	12.6	13.4	8.6
TOTAL AF		1210.0	4040.0	1340.0	3460.0	1800.0	6290.0	2050.0	830.0	708.0	873.0	1070.0	1010.0

WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

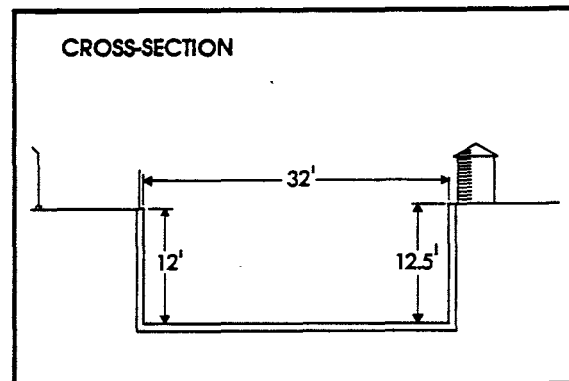
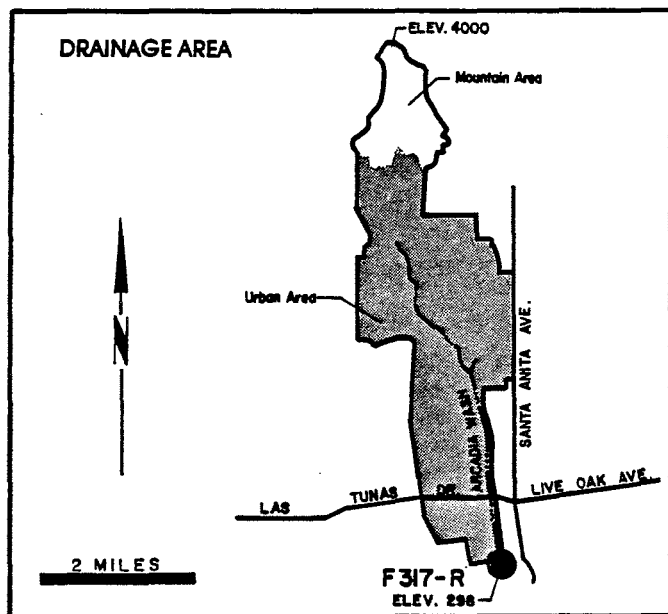
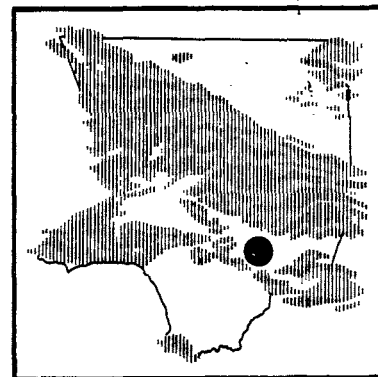
STATION NO. : F312-R

DRAINAGE AREA : 83.40 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	15.8	73.5	38.1	110.0	143.0	223.0	56.0	34.8	23.6	24.8	31.1	20.2
	MAX.	58.5	1260.0	682.0	586.0	2090.0	2720.0	392.0	52.2	28.4	31.2	244.0	132.0
	MIN.	12.6	11.8	11.8	13.4	15.0	32.6	23.4	23.4	19.4	21.0	17.4	15.0
TOTAL AF		970.0	4370.0	2340.0	6770.0	7940.0	13730.0	3330.0	2140.0	1410.0	1520.0	1910.0	1200.0
WATER YEAR 83-84	MEAN	53.3	58.2	72.9	23.4	18.5	20.5	20.5	15.4	15.1	13.1	12.9	14.9
	MAX.	1050.0	627.0	825.0	70.7	21.0	72.2	107.0	19.8	19.8	20.0	22.3	47.9
	MIN.	15.0	8.6	19.8	14.2	14.2	14.2	12.6	13.4	11.8	11.8	9.4	9.4
TOTAL AF		3270.0	3460.0	4480.0	1440.0	1070.0	1260.0	1220.0	949.0	899.0	807.0	792.0	887.0
WATER YEAR 84-85	MEAN	13.7	48.2	142.0	35.1	57.6	26.7	15.0	57.3	22.7	13.3	12.9	18.5
	MAX.	34.2	388.0	924.0	269.0	927.0	202.0	19.8	143.0	125.0	17.4	15.0	137.0
	MIN.	10.7	11.0	14.2	15.0	16.2	12.6	12.6	8.6	11.0	11.0	11.0	11.0
TOTAL AF		842.0	2870.0	8760.0	2160.0	3200.0	1640.0	893.0	3520.0	1350.0	815.0	791.0	1100.0
WATER YEAR 85-86	MEAN	22.9	103.0	19.6	58.3	159.0	142.0	33.1	18.6	13.6	13.0	13.3	33.8
	MAX.	165.0	1370.0	99.8	816.0	1850.0	1240.0	258.0	24.6	16.2	17.4	15.9	544.0
	MIN.	11.0	13.4	13.4	11.8	19.8	23.4	22.2	14.2	11.8	10.2	10.2	11.4
TOTAL AF		1410.0	6120.0	1200.0	3580.0	8850.0	8710.0	1970.0	1150.0	807.0	802.0	817.0	206.0
WATER YEAR 86-87	MEAN	18.1	30.1	20.0	83.9	34.3	26.0	12.0	11.4	9.8	25.0	71.3	119.0
	MAX.	39.9	367.0	130.0	1900.0	342.0	165.0	27.2	15.0	22.5	120.0	120.0	145.0
	MIN.	11.7	12.6	13.4	10.2	10.2	9.4	8.6	8.6	7.8	7.8	9.4	982.0
TOTAL AF		1111.0	1790.0	1230.0	5160.0	1900.0	1600.0	712.0	699.0	584.0	1540.0	4380.0	7080.0

ARCADIA WASH

below Grand Avenue
STATION NO. F 317-R



RECORDER- 15 minute punched tape.

METHOD OF MEASUREMENTS- low flows measured by wading. High flows measured from upstream side of Grand Avenue bridge.

DRAINAGE AREA- 8.5 square miles.

LOCATION- on the west wall of Arcadia Wash about 75 feet downstream from centerline of Grand Avenue.

REGULATION- several debris basins located upstream.

CHANNEL- rectangular concrete.

LENGTH OF RECORD- December 12, 1955 to date.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : F317-R

DRAINAGE AREA : 8.50 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	0.9	1.0	2.0	6.4	3.8	10.0	2.2	1.1	1.1	1.3	1.4	1.7
	MAX.	2.7	1.2	36.5	86.2	29.2	104.0	27.9	1.2	1.4	1.4	2.1	7.7
	MIN.	0.7	1.9	0.5	0.4	0.4	0.4	0.5	0.9	0.7	0.9	1.2	1.2
TOTAL AF		57.3	61.3	123.0	396.0	210.0	616.0	128.0	69.0	66.0	77.6	85.3	103.0
WATER YEAR 81-82	MEAN	2.2	7.0	1.6	7.8	2.4	16.9	5.1	1.9	0.8	0.9	0.9	4.3
	MAX.	14.6	88.6	25.4	109.0	48.4	208.0	97.7	35.0	1.4	0.9	1.9	64.7
	MIN.	0.7	0.5	0.5	0.4	0.5	0.4	0.4	0.5	0.5	0.5	0.7	0.5
TOTAL AF		136.0	415.0	99.0	477.0	132.0	1040.0	304.0	116.0	47.6	52.6	58.3	259.0

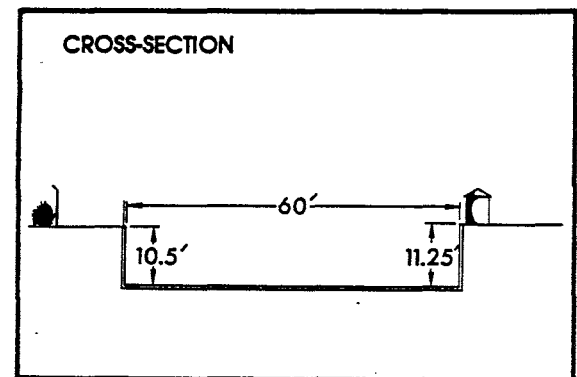
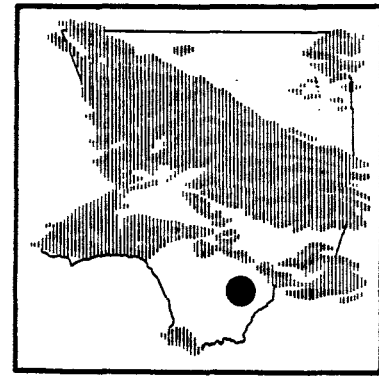
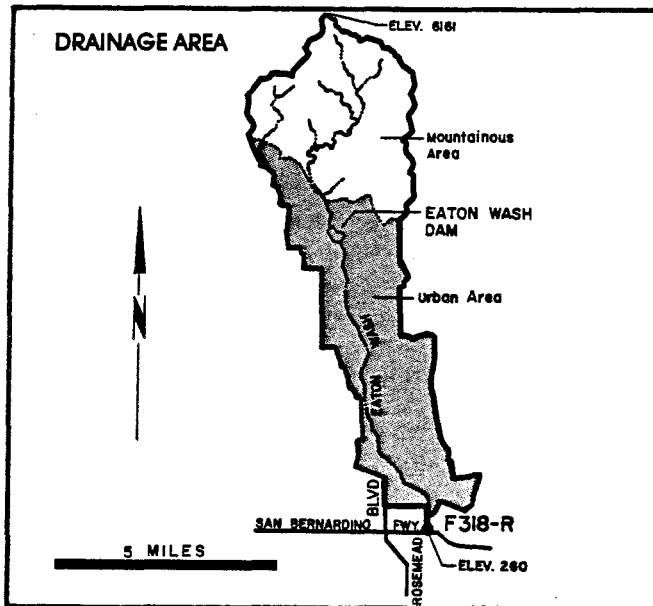
WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F317-R

DRAINAGE AREA : 8.50 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	1.4	13.3	5.1	20.3	13.5	44.4	15.3	2.9	2.2	1.8	4.5	6.1
	MAX.	11.0	171.0	133.0	200.0	128.0	455.0	133.0	8.3	4.1	2.1	41.5	98.1
	MIN.	0.7	0.7	0.5	0.4	0.7	3.1	2.1	2.1	1.8	1.4	1.4	0.9
TOTAL AF		84.7	792.0	314.0	1250.0	751.0	2730.0	910.0	176.0	128.0	109.0	274.0	362.0
WATER YEAR 83-84	MEAN	5.3	5.9	9.2	2.3	1.4	2.8	2.7	1.7	1.8	0.4	2.3	3.1
	MAX.	89.9	64.2	121.0	18.3	1.8	30.0	13.9	1.8	2.1	1.2	53.6	46.5
	MIN.	1.4	0.1	1.2	0.9	1.2	1.2	1.4	0.9	1.4	0.0	0.2	0.5
TOTAL AF		324.0	352.0	567.0	139.0	78.9	171.0	159.0	102.0	107.0	25.8	143.0	182.0
WATER YEAR 84-85	MEAN	1.6	5.3	24.3	3.9	6.5	4.1	2.3	1.6	0.7	0.9	1.3	3.8
	MAX.	12.3	51.1	137.0	58.0	88.1	40.8	4.1	19.6	0.9	1.2	1.8	20.1
	MIN.	0.7	0.1	0.4	0.4	0.0	0.7	0.9	0.5	0.4	0.5	0.7	1.2
TOTAL AF		97.8	316.0	1490.0	240.0	359.0	255.0	138.0	97.8	41.7	55.3	77.8	228.0
WATER YEAR 85-86	MEAN	8.4	16.1	2.5	12.3	21.0	20.7	2.0	2.4	2.8	4.6	0.5	9.1
	MAX.	55.4	151.0	50.1	211.0	135.0	173.0	17.5	3.6	3.1	14.2	1.2	189.0
	MIN.	0.9	0.7	0.4	0.4	0.4	0.7	0.1	2.1	2.1	0.2	0.0	0.2
TOTAL AF		514.0	960.0	151.0	756.0	1170.0	1270.0	120.0	147.0	167.0	283.0	33.7	543.0
WATER YEAR 86-87	MEAN	4.2	4.1	3.4	9.8	10.9	5.0	0.8	1.2	1.7	0.5	0.3	0.5
	MAX.	64.1	59.1	64.4	172.0	84.5	60.1	5.7	7.3	33.1	8.4	2.4	5.5
	MIN.	1.4	0.1	0.9	1.2	1.4	0.1	0.4	0.7	0.3	0.1	0.1	0.2
TOTAL AF		260.0	247.0	211.0	600.0	604.0	307.0	44.8	73.0	104.0	30.3	18.8	29.8

EATON WASH at Loftus Drive STATION NO. F318-R



RECORDER- 15 minute punched tape.

METHOD OF MEASUREMENTS- low flows measured by wading. High flows measured from upstream side of East Loftus Drive bridge.

DRAINAGE- 22.8 square miles.

LOCATION- on the west wall of the channel 52 feet above the centerline of East Loftus Drive bridge, 1.3 miles west of El Monte.

REGULATION- partly regulated by Eaton Dam.

DIVERSIONS- the Pasadena Water Department diverts some water just above the mouth of Eaton Canyon. The Flood Control District diverts water to spreading grounds below Eaton Dam and below Huntington Drive.

CHANNEL- rectangular concrete, 60 feet wide, 11.3 feet.

CONTROL- channel forms control.

LENGTH OF RECORD- 1956 to date.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : F318-R

DRAINAGE AREA : 22.80 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	5.8	3.1	4.5	12.9	6.5	20.8	3.2	1.2	1.8	1.5	1.7	1.9
	MAX.	17.9	11.7	88.8	153.0	49.4	203.0	47.8	3.0	3.0	2.4	2.4	13.1
	MIN.	2.7	1.5	0.3	0.9	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.6
TOTAL AF		359.0	184.0	279.0	792.0	359.0	1280.0	190.0	70.5	108.0	94.8	107.0	113.0
WATER YEAR 81-82	MEAN	2.3	13.0	2.8	13.3	4.4	29.5	12.0	2.3	0.7	1.4	1.7	6.7
	MAX.	46.7	175.0	58.1	154.0	107.0	377.0	231.0	47.8	2.1	3.0	3.1	109.0
	MIN.	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5
TOTAL AF		140.0	774.0	171.0	820.0	247.0	1810.0	716.0	143.0	44.6	87.9	108.0	402.0

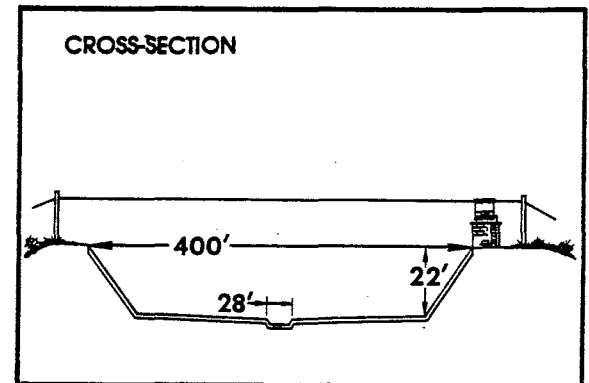
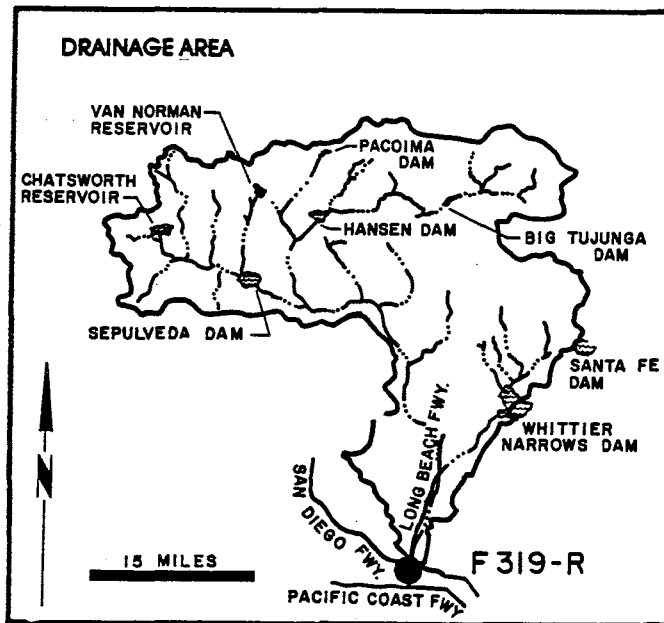
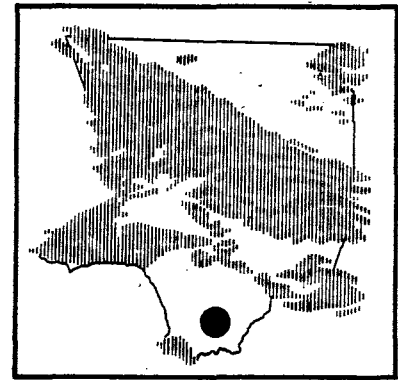
WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F318-R

DRAINAGE AREA : 22.80 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	2.0	28.7	11.4	53.2	54.6	212.0	60.0	11.9	4.9	2.0	11.4	13.3
	MAX.	26.3	318.0	278.0	429.0	325.0	1570.0	345.0	31.6	37.0	12.9	89.7	219.0
	MIN.	0.5	0.5	0.5	0.5	0.9	0.5	0.5	0.5	0.5	0.5	1.5	0.5
TOTAL AF		125.0	1710.0	703.0	3270.0	3030.0	13030.0	3570.0	730.0	294.0	125.0	701.0	792.0
WATER YEAR 83-84	MEAN	7.1	11.4	15.3	2.4	1.1	2.1	1.5	1.2	1.1	2.2	5.0	4.1
	MAX.	161.0	123.0	191.0	30.8	11.5	40.6	13.4	4.4	3.0	4.3	102.0	36.4
	MIN.	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.9	0.5	0.5
TOTAL AF		438.0	679.0	944.0	145.0	60.7	127.0	90.4	74.8	65.5	133.0	306.0	24.3
WATER YEAR 84-85	MEAN	1.0	9.5	30.2	3.9	7.9	4.5	2.3	2.7	1.7	2.2	1.9	2.9
	MAX.	6.0	121.0	199.0	59.6	145.0	69.8	5.3	28.5	2.7	3.5	2.7	23.9
	MIN.	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.6	1.2	1.2	0.9	0.5
TOTAL AF		62.1	563.0	1860.0	240.0	438.0	277.0	135.0	164.0	100.0	132.0	118.0	171.0
WATER YEAR 85-86	MEAN	3.0	19.2	1.4	16.1	25.0	1.2	3.0	0.7	0.5	0.7	0.6	10.6
	MAX.	67.6	175.0	25.7	313.0	183.0	1.2	53.9	1.2	1.2	4.3	1.5	273.0
	MIN.	0.5	0.4	0.5	0.5	0.6	1.2	0.6	0.4	0.4	0.4	0.5	0.4
TOTAL AF		187.0	1140.0	86.3	987.0	1390.0	73.8	181.0	45.0	29.4	41.3	36.3	630.0
WATER YEAR 86-87	MEAN	1.8	5.4	1.4	7.0	8.4	3.4	0.3	0.4	0.9	0.5	0.3	0.3
	MAX.	48.3	86.2	32.7	178.0	94.2	34.6	1.6	2.8	13.0	7.0	0.5	1.6
	MIN.	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1
TOTAL AF		113.0	320.0	86.9	429.0	466.0	208.0	19.0	23.0	51.6	30.1	19.0	15.7

LOS ANGELES RIVER below Wardlow Road STATION NO. F319-R



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 P458-R.
DIVERSIONS- 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.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : F319-R

DRAINAGE AREA : 815.00 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	67.3	57.9	155.0	404.0	236.0	746.0	91.4	84.8	81.9	50.2	52.8	51.3
	MAX.	85.0	74.0	2840.0	3950.0	2300.0	6550.0	366.0	163.0	88.8	68.0	62.4	68.0
	MIN.	54.0	51.4	44.9	37.0	39.0	54.0	52.7	48.8	68.0	32.0	41.0	31.0
TOTAL AF		4140.0	3450.0	9530.0	24860.0	13130.0	45870.0	5440.0	5210.0	4870.0	3090.0	3250.0	3050.0
WATER YEAR 81-82	MEAN	88.3	347.0	96.8	389.0	139.0	915.0	580.0	105.0	75.2	62.2	43.7	107.0
	MAX.	749.0	6270.0	1260.0	5070.0	1250.0	11400.0	6510.0	266.0	96.4	98.3	73.9	1030.0
	MIN.	38.0	39.0	36.0	44.9	50.1	51.4	96.4	43.6	50.1	34.0	34.0	32.0
TOTAL AF		5430.6	20620.0	5950.0	23890.0	7720.0	56270.0	34540.0	6460.0	4470.0	3820.0	2690.0	6360.0

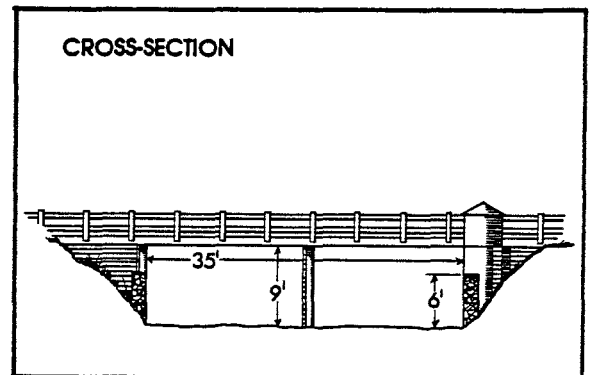
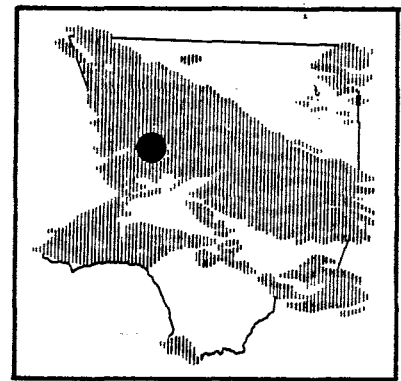
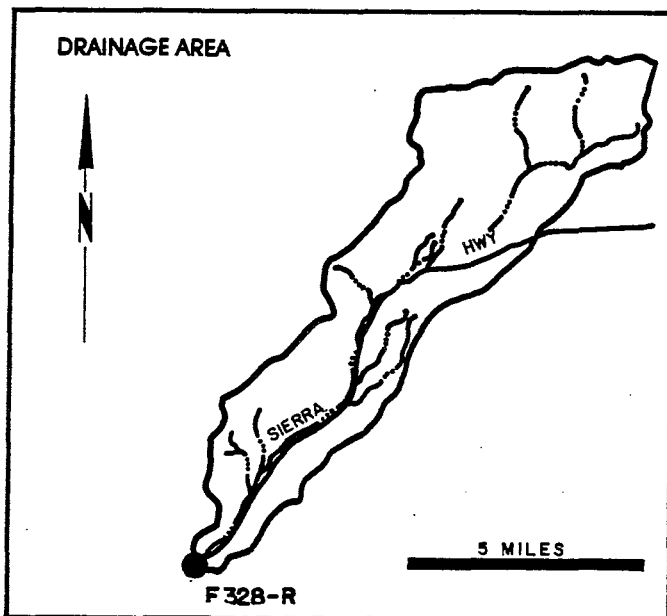
WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F319-R

DRAINAGE AREA : 815.00 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	65.8	905.0	273.0	1390.0	1290.0	6190.0	1200.0	669.0	87.9	64.3	186.0	220.0
	MAX.	245.0	12800.0	3750.0	12400.0	11100.0	52000.0	5530.0	2780.0	310.0	73.1	1310.0	3030.0
	MIN.	38.0	39.0	42.3	42.3	79.9	518.0	324.0	310.0	65.2	55.4	55.4	50.1
TOTAL AF		4040.0	53870.0	16770.0	85540.0	71650.0	380500.0	71250.0	41120.0	5230.0	3950.0	11460.0	13070.0
WATER YEAR 83-84	MEAN	365.0	456.0	470.0	101.0	83.3	90.0	99.5	63.5	65.2	60.3	74.6	62.6
	MAX.	6530.0	2340.0	6450.0	551.0	106.0	520.0	676.0	95.6	78.2	73.1	686.0	106.0
	MIN.	59.6	102.0	79.9	62.4	74.8	65.2	47.5	55.4	51.4	50.1	41.0	44.9
TOTAL AF		22470.0	27110.0	28880.0	6230.0	4790.0	5530.0	5920.0	3900.0	3880.0	3710.0	4590.0	3720.0
WATER YEAR 84-85	MEAN	68.9	223.0	704.0	135.0	322.0	142.0	69.3	54.0	64.9	62.7	61.4	63.1
	MAX.	275.0	1770.0	6370.0	863.0	6250.0	1560.0	125.0	263.0	76.5	95.2	76.5	110.0
	MIN.	46.2	41.0	43.6	48.8	61.0	63.8	59.6	34.0	58.2	54.0	48.8	47.5
TOTAL AF		4240.0	13260.0	43270.0	8320.0	17910.0	8760.0	4120.0	3320.0	3860.0	3860.0	3770.0	3750.0
WATER YEAR 85-86	MEAN	117.0	482.0	118.0	490.0	1140.0	904.0	187.0	106.0	102.0	112.0	110.0	259.0
	MAX.	517.0	4890.0	814.0	6850.0	13600.0	8920.0	1490.0	122.0	116.0	326.0	126.0	2790.0
	MIN.	76.5	51.4	56.8	83.3	79.9	98.3	68.0	73.1	90.7	90.7	96.4	86.9
TOTAL AF		7210.0	28660.0	7250.0	30160.0	63120.0	55580.0	11130.0	6510.0	6080.0	6870.0	6740.0	15430.0
WATER YEAR 86-87	MEAN	166.0	235.0	143.0	286.0	218.0	219.0	112.0	109.0	120.0	120.0	120.0	120.0
	MAX.	1140.0	3280.0	623.0	4050.0	1250.0	1290.0	175.0	149.0	120.0	120.0	120.0	120.0
	MIN.	102.0	100.0	110.0	100.0	92.6	102.0	96.4	92.6	120.0	120.0	120.0	120.0
TOTAL AF		10180.0	13970.0	8780.0	17600.0	12130.0	13460.0	6670.0	6680.0	7140.0	7380.0	7380.0	7140.0

MINT CANYON CREEK at Finch Avenue STATION NO. F328-R



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 Finch 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.

WATER YEARS : 1980-1982
 (DISCHARGE IN SEC-FT)

STATION NO. : F328-R

DRAINAGE AREA : 26.90 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	0.1	0.3	0.4	0.9	0.3	0.3	0.2	0.2	0.6	0.3	0.1	0.2
	MAX.	0.2	0.5	0.5	8.2	1.1	4.1	0.8	0.8	1.1	0.7	0.3	0.6
	MIN.	+	0.2	0.3	0.3	0.1	0.2	0.1	+	0.3	+	+	0.1
TOTAL AF		5.16	18.2	24.4	53.2	17.3	19.2	9.9	14.5	36.9	19.6	4.4	2.4
WATER YEAR 81-82	MEAN	0.1	0.44	0.1	0.61	2.08	4.85	0.28	0.1	+	0.0	0.0	0.0
	MAX.	0.1	0.7	0.35	3.33	5.42	22.6	5.38	0.1	0.1	0.0	0.0	0.0
	MIN.	0.1	0.4	0.0	0.14	0.2	0.0	0.1	0.1	0.0	0.0	0.0	0.0
TOTAL AF		6.1	26.3	5.55	37.4	128.0	298.0	16.4	6.0	2.2	0.0	0.0	0.0

WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F328-R

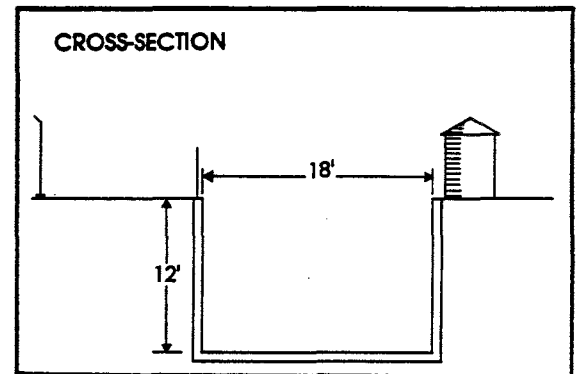
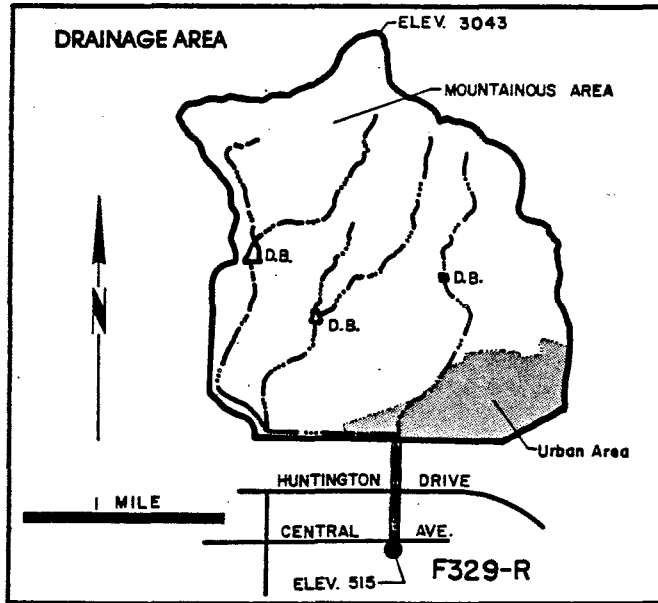
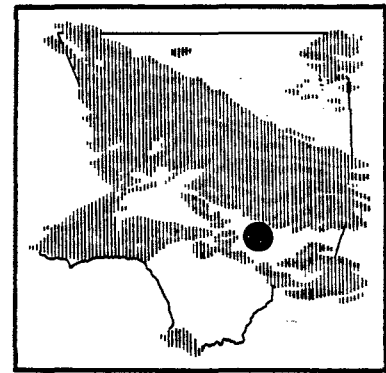
DRAINAGE AREA : 26.90 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	0.0	0.0	0.1	1.4	1.4	24.7	0.9	1.2	0.1	0.2	0.5	0.2
	MAX.	0.0	0.0	2.8	12.2	22.0	392.0	2.8	6.2	0.5	0.4	4.1	1.5
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	+	+	+	0.2	+
TOTAL AF		0.0	0.0	5.5	87.5	76.1	1519.0	51.6	75.6	3.8	11.3	29.4	13.7
WATER YEAR 83-84	MEAN	0.3	0.4	0.6	0.5	0.5	0.4	0.4	0.2	0.1	+	+	+
	MAX.	1.6	0.7	1.8	0.9	0.8	0.4	0.5	0.3	0.1	+	+	+
	MIN.	+	+	+	0.2	0.3	0.3	0.2	+	+	0.0	0.0	0.0
TOTAL AF		15.9	26.8	34.5	32.9	30.3	23.6	22.4	10.7	5.0	+	+	+
WATER YEAR 84-85	MEAN	0.0	+	1.0	+	+	+	0.0	0.0	0.0	0.0	0.0	0.0
	MAX.	0.0	0.9	16.1	+	+	+	0.0	0.0	0.0	0.0	0.0	0.0
	MIN.	0.0	0.0	0.0	+	+	+	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		0.0	1.8	63.1	+	+	+	0.0	0.0	0.0	0.0	0.0	0.0
WATER YEAR 85-86	MEAN	+	+	+	0.2	1.1	3.7	0.0	0.0	0.0	0.0	0.0	0.0
	MAX.	+	+	+	3.9	15.0	59.7	0.0	0.0	0.0	0.0	0.0	0.0
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		+	+	+	10.1	61.7	230.0	0.0	0.0	0.0	0.0	0.0	0.0
WATER YEAR 86-87	MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MAX.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

BRADBURY CHANNEL

below Central Avenue

STATION NO. F329-R



RECORDER- 15 minute punched tape.

METHOD OF MEASUREMENT- low flows measured by wading. High flows measured from footbridge four feet downstream from recorder.

DRAINAGE AREA- 3.3 square miles.

LOCATION- on the east wall of Bradbury Channel, 200 feet downstream from the centerline of Central Avenue, one mile east of Duarte.

REGULATION- two debris basins located upstream.

CHANNEL- rectangular concrete, 18 feet wide, 12 feet deep.

CONTROL- channel forms control.

LENGTH OF RECORD- June 14, 1957 to present.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : F329-R

DRAINAGE AREA : 3.30 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER	MEAN	0.1	0.1	0.5	7.1	0.5	1.8	0.2	0.2	0.6	0.6	0.7	0.4
	YEAR	0.3	0.1	2.1	90.4	3.1	29.7	0.6	1.0	2.8	2.1	1.5	1.0
80-81	MIN.	0.1	0.1	0.1	+	+	+	0.1	0.1	0.1	0.1	0.1	0.1
TOTAL AF		6.5	6.0	28.2	436.0	25.2	113.0	14.9	14.3	34.5	35.5	42.6	24.2
WATER	MEAN	0.0	2.5	0.3	1.3	0.4	3.8	1.4	1.1	1.4	1.2	0.2	0.8
	YEAR	0.1	20.5	1.5	18.4	7.8	41.2	26.0	2.2	3.5	3.9	0.8	10.7
81-82	MIN.	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.3	0.3	0.1	0.0	0.1
TOTAL AF		1.4	151.0	19.2	77.6	24.8	231.0	81.7	66.2	83.1	71.6	13.1	49.4

WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F329-R

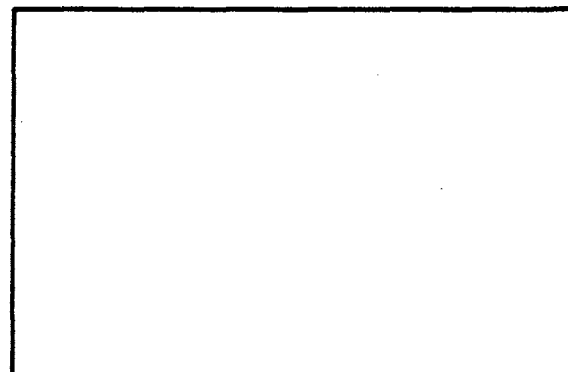
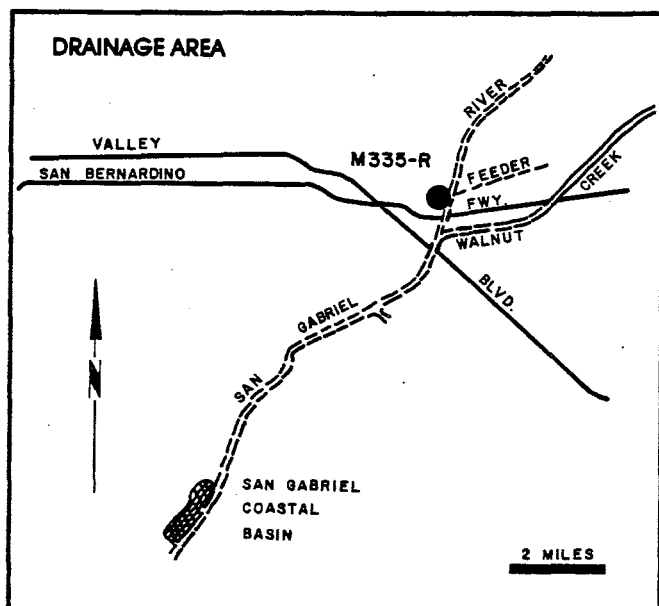
DRAINAGE AREA : 3.30 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	0.2	3.0	0.5	2.3	2.0	11.2	4.1	0.5	1.7	0.8	0.6	1.4
	MAX.	1.7	39.1	14.1	21.1	29.4	111.0	24.1	1.5	13.5	5.7	3.1	23.4
	MIN.	0.0	0.0	0.0	0.0	0.0	0.1	0.6	0.1	0.0	0.1	0.1	0.1
TOTAL AF		13.7	177.0	29.8	142.0	112.0	690.0	246.0	28.0	101.0	52.0	38.9	85.7
WATER YEAR 83-84	MEAN	0.9	1.8	2.0	0.4	0.4	2.0	0.2	0.4	0.2	0.3	0.2	0.1
	MAX.	21.7	19.0	20.1	6.1	5.3	20.5	1.0	2.1	0.3	1.5	2.1	0.6
	MIN.	0.1	0.1	0.1	0.1	+	+	0.1	+	0.1	+	+	+
TOTAL AF		57.5	107.0	122.0	27.4	24.4	121.0	14.3	25.4	9.1	18.0	14.5	8.1
WATER YEAR 84-85	MEAN	0.0	0.6	2.8	0.1	0.6	1.3	4.5	0.1	0.1	+	0.8	0.3
	MAX.	0.1	8.1	24.4	2.0	10.1	12.1	11.6	3.1	0.6	+	3.8	2.5
	MIN.	+	+	+	+	0.1	0.1	0.6	0.0	0.0	+	0.0	0.0
TOTAL AF		1.2	33.5	172.0	5.0	33.1	82.7	265.0	7.7	3.2	+	52.0	16.1
WATER YEAR 85-86	MEAN	0.4	0.7	0.1	1.7	1.9	2.3	0.4	0.0	0.0	0.0	0.0	2.1
	MAX.	6.1	7.0	0.6	27.9	17.1	22.5	2.3	0.0	0.0	0.0	0.0	34.8
	MIN.	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1
TOTAL AF		27.6	39.1	7.9	107.0	106.0	143.0	25.6	0.0	0.0	0.0	0.0	125.0
WATER YEAR 86-87	MEAN	0.1	0.4	0.1	0.8	0.4	0.6	0.4	0.7	0.2	0.3	0.3	1.8
	MAX.	0.3	5.7	0.6	25.0	4.9	5.5	1.5	2.1	1.5	1.5	1.5	11.6
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	+	+	0.1	0.0
TOTAL AF		4.6	24.4	3.8	51.6	20.8	37.3	24.6	41.9	12.9	15.9	18.6	105.0

SAN GABRIEL-MWD OUTLET

below Ramona Boulevard

STATION NO. M335-R



RECORDER- a weekly Venturi recorder.

LOCATION- latitude 34° 04' 34", longitude 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.

METHOD OF MEASUREMENTS- all flows measured by orifice meter with totalizer beginning December 21, 1960.

LENGTH OF RECORD- at Station F 335-R November 30, 1957 to April 13, 1960. at Station M335-R December 17, 1960 to present.

REMARKS- 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.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : M335-R

DRAINAGE AREA : N/A

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MAX.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WATER YEAR 81-82	MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0
	MAX.	0.0	0.0	0.0	0.0	0.0	0.0	7.6	0.0	0.0	0.0	0.0	0.0
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		0.0	0.0	0.0	0.0	0.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0

WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : M335-R

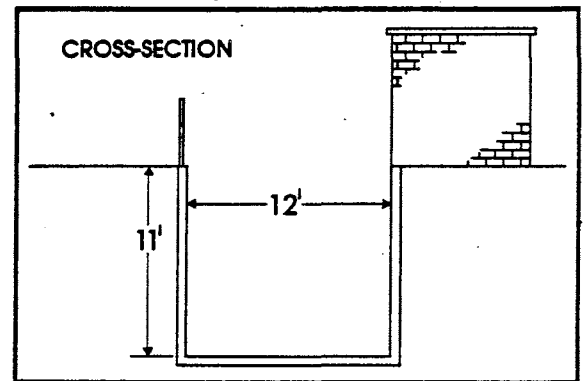
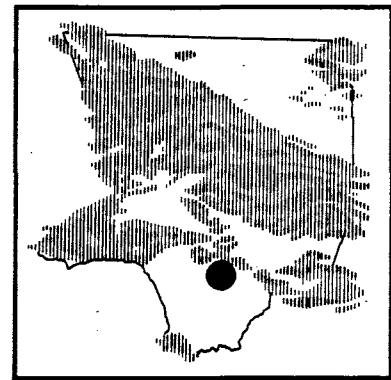
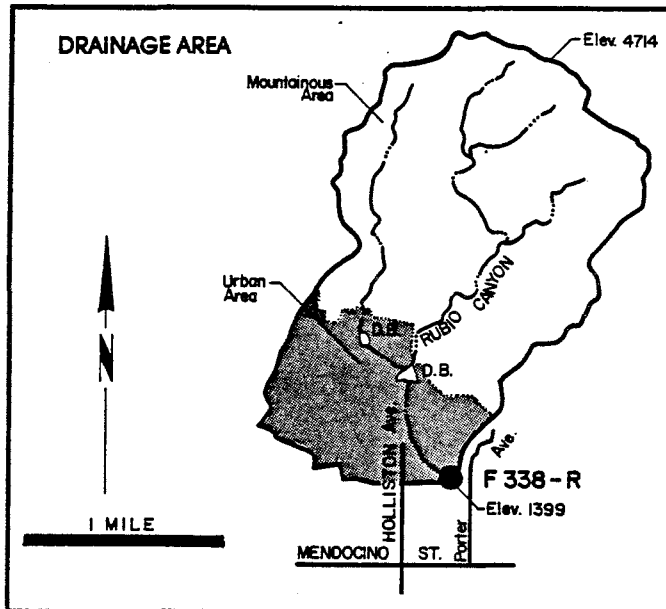
DRAINAGE AREA : N/A

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	1.3	3.8	1.8	1.9	2.9	12.7	6.7	1.8	1.7	1.2	1.2	2.4
	MAX.	7.5	37.2	5.7	6.6	5.5	150.0	14.1	3.6	3.6	1.8	1.8	13.8
	MIN.	0.2	0.0	0.8	0.6	1.0	1.2	1.6	1.2	0.8	0.6	0.8	1.2
TOTAL AF		81.5	226.0	112.0	117.0	159.0	781.0	401.0	113.0	103.0	73.4	76.2	144.0
WATER YEAR 83-84	MEAN												
	MAX.				NO	DATA	FOR	1983	THRU	1984			
	MIN.												
TOTAL AF													
WATER YEAR 84-85	MEAN												
	MAX.				NO	DATA	FOR	1984	THRU	1985			
	MIN.												
TOTAL AF													
WATER YEAR 85-86	MEAN												
	MAX.				NO	DATA	FOR	1985	THRU	1986			
	MIN.												
TOTAL AF													
WATER YEAR 86-87	MEAN												
	MAX.				NO	DATA	FOR	1986	THRU	1987			
	MIN.												
TOTAL AF													

RUBIO DIVERSION CHANNEL

below Goosebury Inlet

STATION NO. F338-R



RECORDER- 15 minute punched tape.

METHOD OF MEASUREMENTS- low flows measured by wading. High flows measured from steel footbridge 27 feet above station.

DRAINAGE AREA- 2.1 square miles.

LOCATION- on the north bank, 375 feet upstream of Crest Drive, three and one-half miles northeast of Pasadena.

REGULATION- flow partially regulated by Rubio and Gooseberry Debris Basins.

DIVERSIONS- Rubio Canyon Land and Water Association diverts low flows in Rubio Canyon.

CHANNEL- rectangular concrete, 12 feet wide and 11 feet deep.

CONTROL- channel forms control.

LENGTH OF RECORD- December 16, 1959 to date.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : F338-R

DRAINAGE AREA : 2.10 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	3.9	4.3	4.6	3.8	3.7	6.0	5.0	6.0	3.9	0.8	0.6	0.5
	MAX.	5.1	5.9	12.0	13.3	6.7	12.0	9.0	13.1	6.7	0.8	0.8	0.8
	MIN.	2.8	3.6	2.8	2.0	2.0	4.3	2.0	5.1	2.0	0.6	0.4	0.4
TOTAL AF		240.0	254.0	280.0	234.0	205.0	369.0	298.0	369.0	233.0	48.0	35.7	29.8
WATER YEAR 81-82	MEAN	0.9	1.3	1.1	0.7	0.7	5.9	8.4	2.9	0.8	0.6	0.3	1.6
	MAX.	2.0	7.5	2.8	6.9	1.0	20.7	19.6	6.7	1.2	0.8	0.4	11.6
	MIN.	0.6	0.6	0.2	0.2	0.4	0.8	4.3	1.0	0.6	0.0	0.2	0.2
TOTAL AF		57.5	75.6	69.0	45.8	40.1	362.0	503.0	177.0	46.0	34.1	15.9	92.8

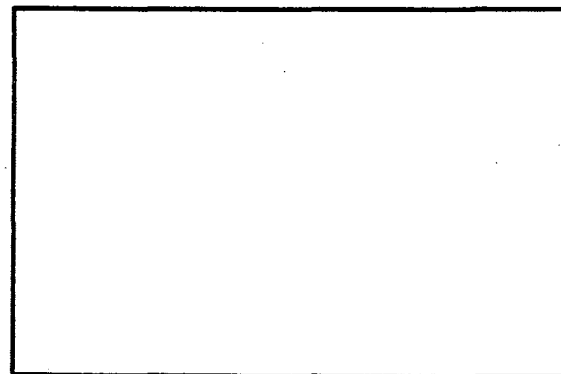
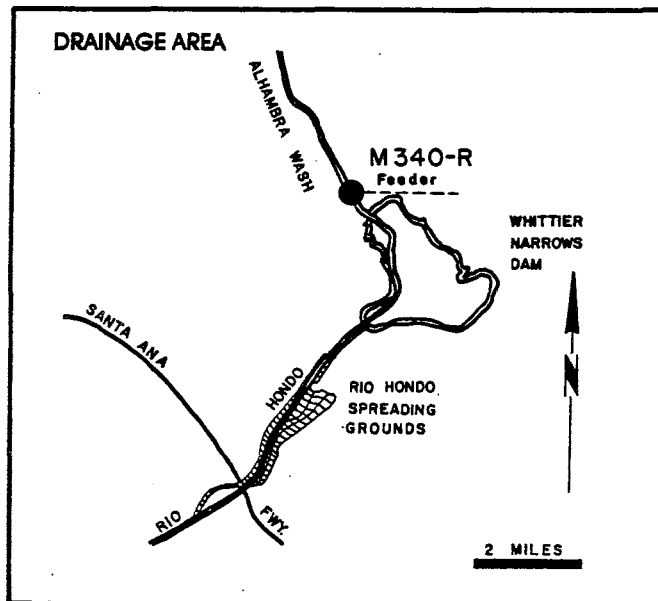
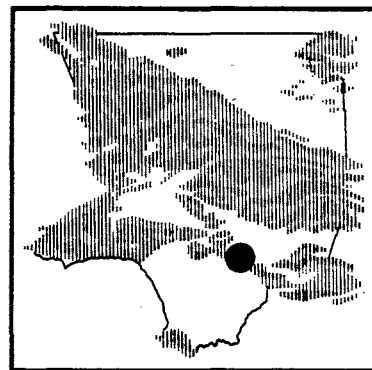
WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F338-R

DRAINAGE AREA : 2.10 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	1.3	3.8	1.8	1.9	2.9	12.7	6.7	1.8	1.7	1.2	1.2	2.4
	MAX.	7.5	37.2	5.7	6.6	5.5	150.0	14.1	3.6	3.6	1.8	1.8	13.8
	MIN.	0.2	0.0	0.8	0.6	1.0	1.2	1.6	1.2	0.8	0.6	0.8	1.2
TOTAL AF		81.5	226.0	112.0	117.0	159.0	781.0	401.0	113.0	103.0	73.4	76.2	144.0
WATER YEAR 83-84	MEAN	2.2	2.3	2.5	1.5	0.9	1.1	0.9	0.4	0.2	0.1	0.1	0.1
	MAX.	5.1	9.8	16.5	2.0	1.4	1.6	1.4	1.2	0.8	0.2	0.6	1.4
	MIN.	1.4	1.6	1.4	0.8	0.4	0.8	0.4	0.0	0.0	0.0	0.0	0.0
TOTAL AF		132.0	135.0	156.0	91.6	50.4	66.2	54.0	26.6	9.1	4.0	6.0	8.7
WATER YEAR 84-85	MEAN	0.2	0.4	1.4	1.6	0.5	0.4	0.2	0.3	0.2	+	0.0	0.2
	MAX.	0.6	3.7	7.4	9.8	1.8	2.0	0.6	1.0	1.4	+	0.0	0.8
	MIN.	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	+	0.0	0.0
TOTAL AF		10.3	26.6	89.1	98.6	30.5	23.8	9.1	20.2	13.9	+	0.0	9.7
WATER YEAR 85-86	MEAN	0.3	0.4	0.2	0.6	2.1	2.7	1.0	0.2	0.1	0.0	0.1	0.1
	MAX.	2.1	3.6	1.4	8.2	7.5	8.2	3.6	0.8	0.4	0.2	0.8	0.2
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		18.6	25.6	11.1	35.3	116.0	168.0	57.1	13.9	3.6	0.8	8.3	4.0
WATER YEAR 86-87	MEAN												
	MAX.				NO	DATA	FOR	1986	THRU	1987			
	MIN.												
TOTAL AF													

ALHAMBRA WASH near Rush Street STATION NO. M340-R



RECORDER- continuous totalizing recorder with Venturi control.

LOCATION- latitude 34° 03' 06", longitude 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.

REGULATION AND DIVERSION- regulation entirely regulated by a gated outlet on The Metropolitan Water District middle feeder.

LENGTH OF RECORD- March 28, 1958 to date.

REMARKS- 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.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : M340-R

DRAINAGE AREA : N/A

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MAX.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WATER YEAR 81-82	MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MAX.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : M340-R

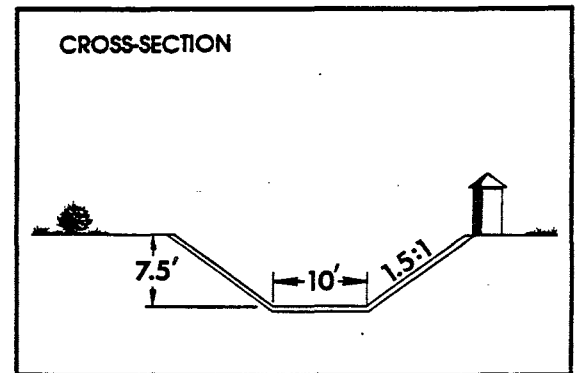
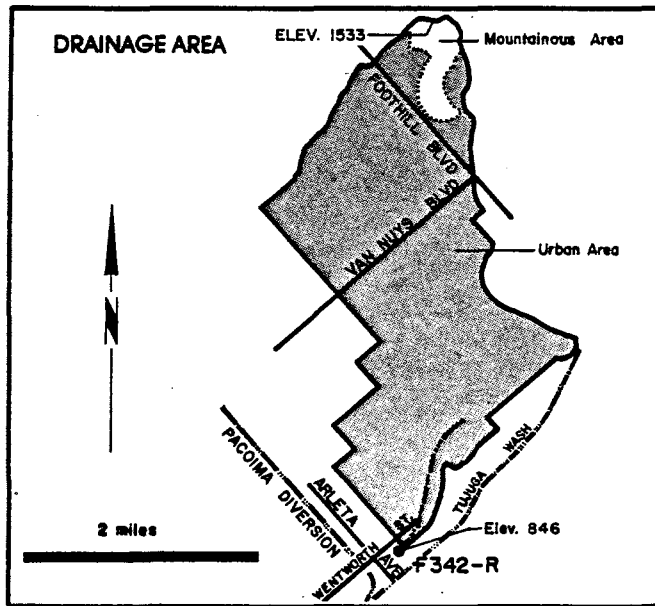
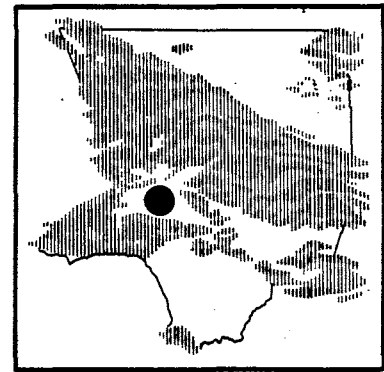
DRAINAGE AREA : N/A

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN												
	MAX. MIN.				NO	DATA	FOR	1982	THRU	1983			
TOTAL AF													
WATER YEAR 83-84	MEAN												
	MAX. MIN.				NO	DATA	FOR	1983	THRU	1984			
TOTAL AF													
WATER YEAR 84-85	MEAN												
	MAX. MIN.				NO	DATA	FOR	1984	THRU	1985			
TOTAL AF													
WATER YEAR 85-86	MEAN												
	MAX. MIN.				NO	DATA	FOR	1985	THRU	1986			
TOTAL AF													
WATER YEAR 86-87	MEAN												
	MAX. MIN.				NO	DATA	FOR	1986	THRU	1987			
TOTAL AF													

BRANFORD STREET CHANNEL

below Sharp Avenue

STATION NO. F342-R



RECORDER- 15 minute punched tape.

METHOD OF MEASUREMENTS- low flows measured by wading. High flows measured by floats.

DRAINAGE AREA- 5.01 square miles.

LOCATION- on the south bank of channel, 125 feet downstream from Sharp Avenue, about 3.6 miles south of San Fernando.

REGULATION- flow from Lopez Creek is diverted to Hansen Dam at the mouth of Lopez Canyon.

CHANNEL- trapezoidal, 10 feet wide at bottom and 7.5 feet deep with 1.5 to 1 side slopes.

CONTROL- channel forms control.

LENGTH OF RECORD- January 12, 1962 to date.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : F342-R

DRAINAGE AREA : 5.01 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	0.1	0.0	0.5	2.9	0.9	3.0	0.4	0.0	0.0	0.0	0.0	0.0
	MAX.	0.2	0.2	13.4	45.6	9.2	29.4	9.1	0.3	0.1	0.5	0.2	0.2
	MIN.	+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		4.4	0.8	28.4	177.0	50.2	181.0	24.6	0.0	1.0	0.0	1.0	2.4
WATER YEAR 81-82	MEAN	0.2	1.1	0.3	1.7	0.4	5.2	2.1	0.0	0.0	0.0	0.0	0.5
	MAX.	2.8	18.3	8.3	28.7	10.2	67.8	42.8	0.0	0.0	0.0	0.0	6.1
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		10.7	62.9	16.5	104.0	20.6	319.0	125.0	0.0	0.0	0.0	0.0	27.0

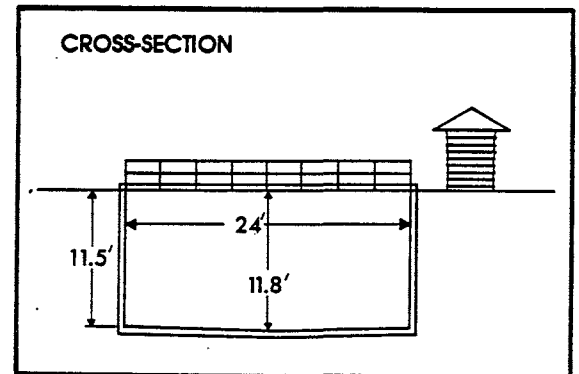
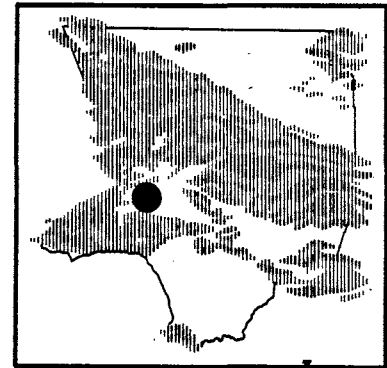
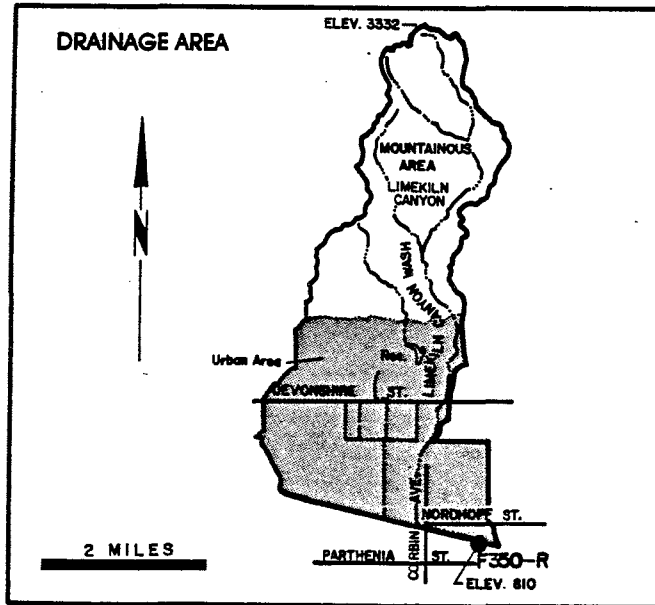
WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F342-R

DRAINAGE AREA : 5.01 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	0.1	4.2	0.9	6.8	5.5	11.6	2.8	0.1	0.0	0.0	1.8	1.7
	MAX.	1.2	59.3	25.8	65.1	42.5	230.0	31.5	2.2	0.0	0.1	31.9	31.5
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		4.2	252.0	52.6	420.0	306.0	715.0	164.0	4.4	0.0	0.2	112.0	102.0
WATER YEAR 83-84	MEAN	1.0	1.7	2.2	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.2
	MAX.	20.4	21.6	34.2	+	0.1	7.0	2.3	0.0	0.0	0.0	0.1	2.5
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		59.9	98.4	133.0	0.0	0.2	14.5	5.4	0.0	0.0	0.0	0.2	14.3
WATER YEAR 84-85	MEAN	0.2	1.2	4.0	0.2	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0
	MAX.	2.6	12.8	53.3	8.3	11.9	10.5	0.0	0.0	0.0	0.0	0.0	0.0
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		11.1	73.4	248.0	13.3	47.8	29.4	0.0	0.0	0.0	0.0	0.0	0.0
WATER YEAR 85-86	MEAN	0.3	1.9	0.3	3.1	3.2	3.3	0.4	0.0	0.0	0.0	0.0	0.4
	MAX.	8.2	18.6	8.5	43.1	30.2	26.8	11.5	0.0	0.0	0.1	0.0	11.3
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		16.3	111.0	16.9	188.0	177.0	200.0	26.0	0.0	0.0	0.2	0.0	23.8
WATER YEAR 86-87	MEAN	0.1	0.8	0.1	0.7	0.3	0.4	0.0	0.0	INC.	INC.	INC.	INC.
	MAX.	3.5	20.7	1.8	16.2	8.0	7.8	1.1	0.4	INC.	INC.	INC.	INC.
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	INC.	INC.	INC.	INC.
TOTAL AF		7.1	45.2	3.6	41.9	19.2	23.8	2.4	0.8	INC.	INC.	INC.	INC.

LIMEKILN CREEK above Aliso Creek STATION NO. F350-R



RECORDER- 15 minute punched tape.

METHOD OF MEASUREMENTS- low flows measured by wading. High flows measured from a steel footbridge 10 feet above the gage.

DRAINAGE AREA- 10.3 square miles.

LOCATION- on the south bank, 1,600 feet above Aliso Creek and one mile west of Northridge.

REGULATION- flow partly regulated by Limekiln Debris Basin.

CHANNEL- rectangular concrete.

LENGTH OF RECORD- see station summary.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : F350-R

DRAINAGE AREA : 10.30 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	0.8	1.0	3.1	8.5	5.0	9.3	2.2	0.5	0.9	0.8	1.3	1.3
	MAX.	1.7	2.0	66.5	103.0	36.2	88.2	20.6	1.0	2.0	1.7	2.0	4.3
	MIN.	0.5	0.4	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.2	0.6	0.6
TOTAL AF		47.2	56.7	190.0	522.0	276.0	574.0	133.0	33.1	53.8	49.6	81.1	80.1
WATER YEAR 81-82	MEAN	0.9	8.9	2.9	6.9	1.9	14.4	5.8	1.1	0.5	0.9	1.8	2.3
	MAX.	8.1	180.0	75.0	70.0	39.3	164.0	80.6	20.2	0.6	2.4	3.8	31.7
	MIN.	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.4	0.4	0.5	0.5	0.4
TOTAL AF		52.8	528.0	180.0	425.0	104.0	884.0	344.0	69.0	30.5	52.4	111.0	140.0

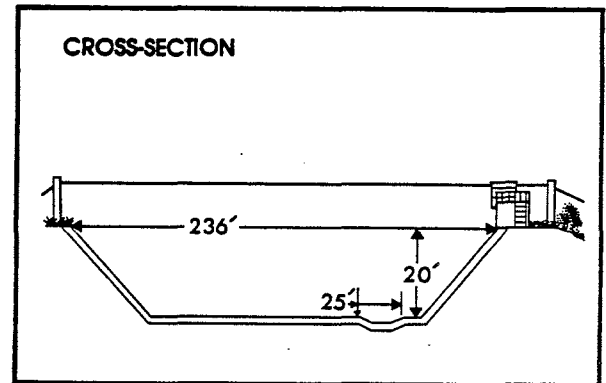
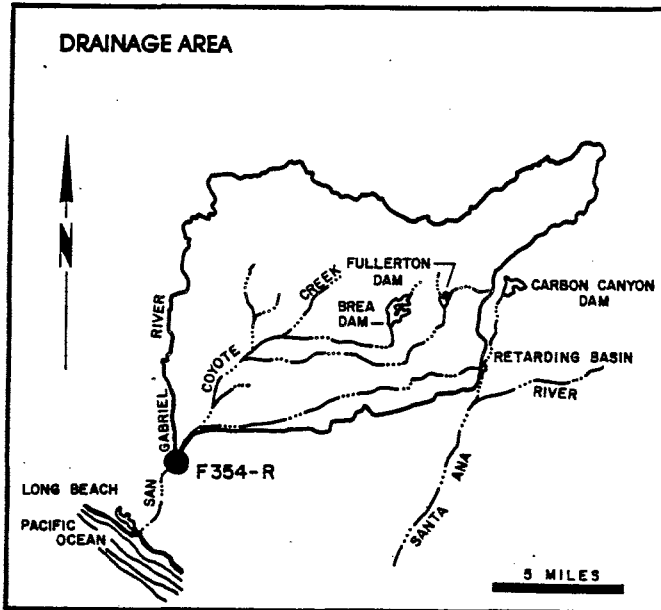
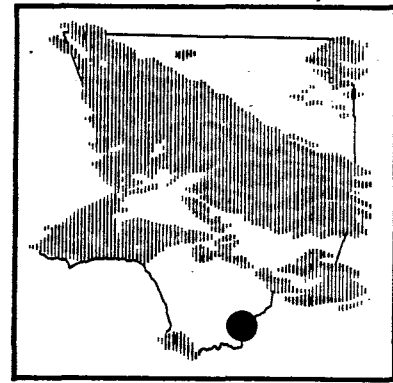
WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F350-R

DRAINAGE AREA : 10.30 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	1.0	17.3	8.1	18.0	20.1	45.5	8.9	2.0	1.3	0.7	4.2	4.3
	MAX.	9.1	210.0	165.0	155.0	142.0	615.0	62.0	13.9	2.8	1.0	41.6	82.0
	MIN.	0.4	0.4	0.4	0.4	0.6	2.4	1.0	1.0	0.6	0.5	0.4	0.5
TOTAL AF		58.5	1030.0	501.0	1100.0	1110.0	2800.0	529.0	121.0	76.0	42.2	257.0	256.0
WATER YEAR 83-84	MEAN	3.7	2.7	8.3	0.7	0.6	0.7	0.8	0.4	0.4	0.4	0.5	0.8
	MAX.	56.7	36.9	126.0	1.3	1.0	7.7	9.9	1.3	0.5	0.5	3.5	7.8
	MIN.	0.4	0.6	0.4	0.4	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3
TOTAL AF		228.0	159.0	508.0	44.6	32.5	45.2	50.0	26.2	23.8	24.6	32.3	49.4
WATER YEAR 84-85	MEAN	0.8	5.2	12.0	1.6	1.4	3.3	0.5	0.6	0.4	0.6	0.4	0.4
	MAX.	9.7	47.9	116.0	27.8	16.6	56.2	2.0	1.7	0.4	5.0	0.5	0.5
	MIN.	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.4	0.3	0.2
TOTAL AF		47.4	307.0	738.0	100.0	75.6	200.0	30.9	34.9	23.0	36.5	24.8	21.6
WATER YEAR 85-86	MEAN	0.9	10.5	1.6	6.7	19.7	10.1	2.0	0.4	0.4	0.4	0.4	3.0
	MAX.	9.3	105.0	36.2	111.0	230.0	132.0	42.4	0.5	0.6	0.6	0.5	76.3
	MIN.	0.3	0.3	0.4	0.3	0.4	0.5	0.3	0.3	0.4	0.4	0.4	0.4
TOTAL AF		52.4	625.0	95.6	414.0	1090.0	622.0	117.0	24.0	25.6	26.6	25.8	180.0
WATER YEAR 86-87	MEAN	1.2	3.8	1.3	3.0	2.6	2.6	INC.	INC.	INC.	INC.	INC.	INC.
	MAX.	24.0	81.5	24.8	55.7	46.8	26.9	INC.	INC.	INC.	INC.	INC.	INC.
	MIN.	0.4	0.4	0.4	0.3	0.3	0.4	INC.	INC.	INC.	INC.	INC.	INC.
TOTAL AF		73.6	227.0	80.5	184.0	145.0	162.0	INC.	INC.	INC.	INC.	INC.	INC.

COYOTE CREEK below Spring Street STATION NO. F354-R



RECORDER- continuous water stage.

METHOD OF MEASUREMENTS- wading or from cable car.

DRAINAGE AREA- 185.0 square miles.

LOCATION- 241.0 feet below Spring Street, 7.5 miles northeast of Long Beach.

REGULATION- partially regulated by Fullerton Dam, Brea Dam, and Carbon Canyon Dam.

CHANNEL- concrete, trapezoidal in section.

CONTROL- channel forms control.

LENGTH OF RECORD - December 17, 1963 to Date.

REMARKS- previous gaging stations for record correlation: Station F41 - S December 1, 1928 to January 14, 1930. Station F41 - R January 14, 1930 to October 30, 1936. Station F41B - R October 30, 1936 to February 17, 1937. Station F41C - R February 18, 1937 to February 8, 1956. Station F320 - R February 9, 1956 to July 2, 1965.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : F354-R

DRAINAGE AREA : 185.00 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	11.7	9.6	9.4	90.1	67.2	136.0	26.7	10.5	13.8	11.1	10.1	9.4
	MAX.	21.2	16.5	11.3	1110.0	825.0	2030.0	207.0	26.7	28.2	14.6	12.0	13.3
	MIN.	8.1	8.7	6.1	6.1	4.9	6.1	7.4	8.1	8.1	8.7	8.7	7.4
TOTAL AF		722.0	571.0	575.0	5540.0	3730.0	8340.0	1590.0	643.0	819.0	685.0	621.0	557.0
WATER YEAR 81-82	MEAN	15.4	231.0	23.5	99.3	20.4	192.0	19.6	8.0	17.6	11.9	14.5	21.6
	MAX.	80.1	4020.0	492.0	1010.0	238.0	2250.0	202.0	30.6	35.2	49.2	28.5	211.0
	MIN.	4.6	4.6	4.9	4.9	6.8	7.4	6.8	6.1	7.4	6.1	9.4	5.5
TOTAL AF		947.0	13740.0	1450.0	6100.0	1140.0	11830.0	1170.0	494.0	1050.0	729.0	893.0	1280.0

WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F354-R

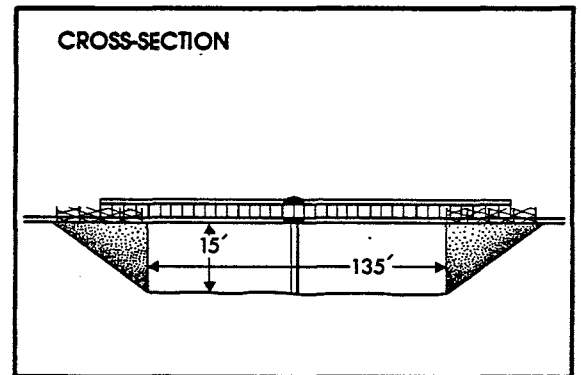
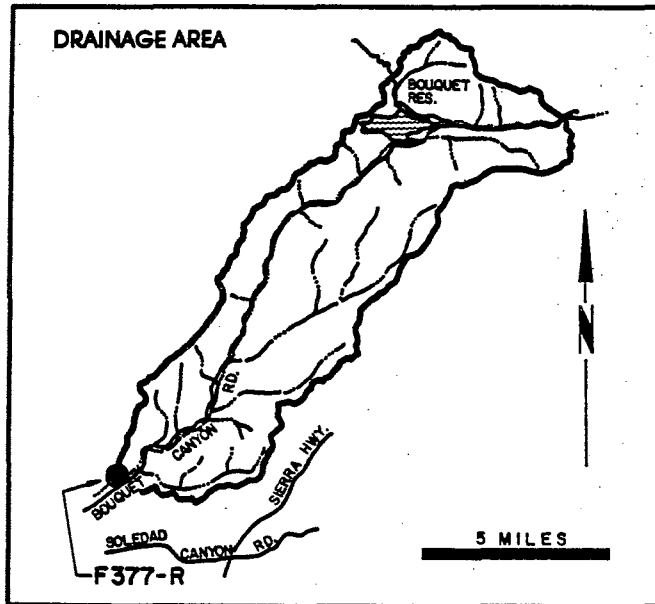
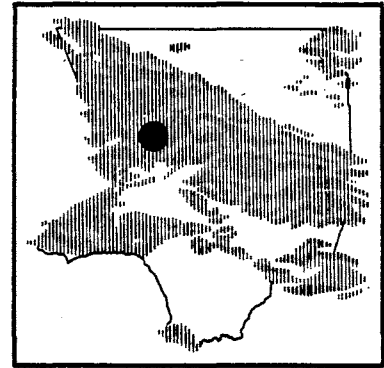
DRAINAGE AREA : 185.00 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	17.9	147.0	57.8	165.0	292.0	453.0	135.0	35.9	64.7	50.2	23.1	47.5
	MAX.	129.0	2120.0	1090.0	1520.0	2930.0	5100.0	1370.0	159.0	101.0	111.0	109.0	974.0
	MIN.	3.4	4.6	6.1	8.1	20.6	13.3	13.3	14.6	42.0	8.7	3.7	5.2
TOTAL AF		1100.0	8760.0	3550.0	10120.0	16220.0	27870.0	8010.0	2210.0	3850.0	3090.0	1420.0	2820.0
WATER YEAR 83-84	MEAN	132.0	78.0	87.1	41.2	45.2	25.3	30.7	14.6	19.0	21.5	16.3	17.6
	MAX.	2670.0	1210.0	1080.0	283.0	79.9	184.0	222.0	32.8	23.9	48.7	139.0	71.1
	MIN.	7.4	6.1	8.7	10.7	16.0	9.4	5.2	6.1	10.0	8.1	6.8	6.1
TOTAL AF		8130.0	4640.0	5360.0	2530.0	2600.0	1550.0	1820.0	901.0	1130.0	1320.0	1000.0	1050.0
WATER YEAR 84-85	MEAN	21.6	132.0	1420.0	36.9	85.9	45.3	11.3	16.0	13.8	11.7	11.6	INC.
	MAX.	77.5	975.0	4040.0	499.0	1700.0	592.0	19.9	63.6	26.7	16.0	16.0	INC.
	MIN.	5.5	6.8	3.1	2.5	8.7	8.1	5.5	5.5	8.1	10.0	8.7	INC.
TOTAL AF		1330.0	7840.0	87140.0	2270.0	4770.0	2780.0	675.0	984.0	822.0	716.0	713.0	INC.
WATER YEAR 85-86	MEAN	INC.	INC.	13.7	79.0	290.0	182.0	INC.	15.8	15.5	15.5	12.9	64.0
	MAX.	INC.	INC.	182.0	1150.0	3500.0	1930.0	INC.	19.9	22.6	49.1	18.6	1050.0
	MIN.	INC.	INC.	5.5	6.8	6.1	10.7	INC.	12.0	10.0	7.4	9.4	9.4
TOTAL AF		INC.	INC.	845.0	4860.0	16090.0	11220.0	INC.	972.0	921.0	955.0	796.0	3810.0
WATER YEAR 86-87	MEAN	24.2	35.5	18.2	149.0	47.7	40.2	42.1	10.8	11.2	11.4	9.4	9.9
	MAX.	108.0	623.0	177.0	2980.0	418.0	478.0	96.0	18.6	18.6	18.6	39.9	17.3
	MIN.	10.0	6.1	8.1	7.4	10.0	8.1	8.7	7.4	9.4	7.4	4.9	6.8
TOTAL AF		1490.0	2110.0	1120.0	9130.0	2650.0	2470.0	2500.0	662.0	664.0	701.0	577.0	591.0

BOUQUET CANYON CREEK

at Urbandale Avenue

STATION NO. F377-R



RECORDER- continuous water stage.
METHOD OF MEASUREMENTS- wading or from bridge.
DRAINAGE AREA- 51.9 square miles.
LOCATION- Bouquet Canyon Creek at Urbandale Avenue, 3.5 miles northeast of Saugus.
REGULATION- Bouquet Reservoir.
CHANNEL- concrete sides with natural bottom, trapezoidal in section.
CONTROL- concrete stabilizer.
LENGTH OF RECORD- October 11, 1967 to date.

WATER YEARS : 1980-1982
 (DISCHARGE IN SEC-FT)

STATION NO. : F377-R

DRAINAGE AREA : 51.90 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	0.2	0.2	0.1	2.0	0.7	2.4	3.2	2.4	0.0	0.0	0.0	0.0
	MAX.	0.2	0.6	1.8	44.1	1.3	6.9	5.5	4.4	0.0	0.0	0.0	0.0
	MIN.	0.2	+	+	+	+	1.7	2.0	0.2	0.0	0.0	0.0	0.0
TOTAL AF		12.3	9.3	4.9	122.0	37.1	150.0	191.0	148.0	0.0	0.0	0.0	-0.0
WATER YEAR 81-82	MEAN	0.0	0.9	0.0	0.4	0.1	1.9	INC.	INC.	INC.	INC.	INC.	INC.
	MAX.	0.0	13.4	0.0	4.8	2.2	36.3	INC.	INC.	INC.	INC.	INC.	INC.
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	INC.	INC.	INC.	INC.	INC.	INC.
TOTAL AF		0.0	51.8	0.0	27.2	6.7	117.0	INC.	INC.	INC.	INC.	INC.	INC.

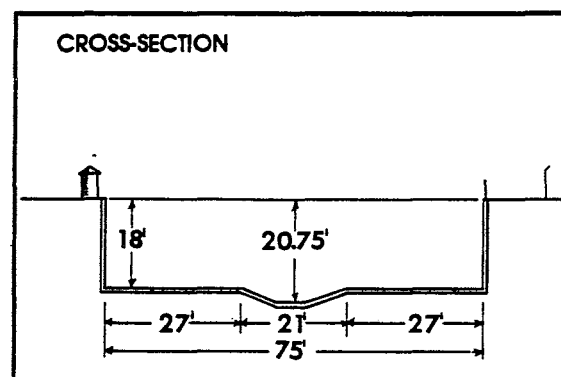
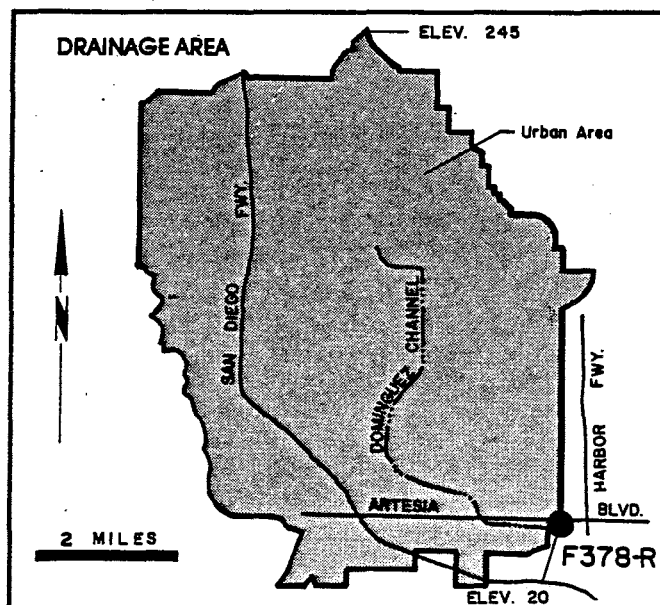
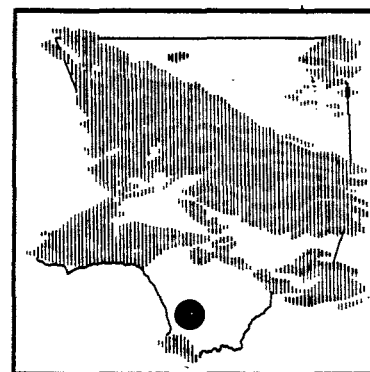
WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F377-R

DRAINAGE AREA : 51.90 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	0.0	0.1	+	0.9	5.0	26.9	4.3	6.2	4.1	1.6	0.7	0.6
	MAX.	0.0	1.2	0.6	7.6	15.0	235.0	6.0	8.1	6.0	2.5	1.0	1.0
	MIN.	0.0	0.0	0.0	0.0	2.0	6.0	1.1	2.8	2.6	1.0	0.5	0.2
TOTAL AF		0.0	5.4	1.4	56.5	307.0	1654.0	256.0	379.0	242.0	102.0	41.0	36.3
WATER YEAR 83-84	MEAN	0.1	0.2	1.5	+	0.6	+	INC.	INC.	INC.	INC.	INC.	INC.
	MAX.	0.8	2.3	1.1	1.0	0.8	0.6	INC.	INC.	INC.	INC.	INC.	INC.
	MIN.	+	0.0	+	+	0.2	0.0	INC.	INC.	INC.	INC.	INC.	INC.
TOTAL AF		8.5	13.5	92.4	39.4	31.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0
WATER YEAR 84-85	MEAN	0.0	+	2.6	0.5	0.3	0.3	+	+	+	0.1	+	+
	MAX.	0.0	+	43.8	0.5	2.0	2.0	+	+	+	0.1	+	+
	MIN.	0.0	0.0	0.0	0.4	0.0	0.0	+	+	+	+	+	+
TOTAL AF		0.0	+	160.0	30.3	16.9	15.9	+	+	+	4.8	+	+
WATER YEAR 85-86	MEAN	0.2	1.1	0.1	0.9	3.2	6.9	0.5	0.5	0.2	0.02	0.78	0.8
	MAX.	4.2	12.7	2.1	8.6	39.1	140.0	0.5	0.5	0.5	0.2	1.6	2.8
	MIN.	+	+	+	+	0.0	0.0	0.5	0.5	+	+	0.1	0.5
TOTAL AF		13.1	62.7	4.2	55.3	779.0	422.0	30.0	30.7	15.1	1.4	47.8	50.6
WATER YEAR 86-87	MEAN	+	0.29	0.13	+	+	0.1	0.0	+	0.03	+	0.04	+
	MAX.	+	7.7	4.0	2.2	+	2.1	0.0	+	0.1	+	0.1	+
	MIN.	+	0.0	0.0	0.0	0.0	0.0	0.0	+	+	+	+	0.0
TOTAL AF		+	17.3	8.0	4.4	+	8.3	0.0	+	1.6	+	2.97	+

DOMINGUEZ CHANNEL at Vermont Avenue STATION NO. F378-R



RECORDER- continuous water stage.

METHOD OF MEASUREMENTS-low flows measured by wading. High flows measured from Vermont Avenue bridge.

DRAINAGE AREA- 37.1 square miles.

LOCATION- on the south bank, 93 feet above Vermont Avenue, about one mile south of Gardena.

REGULATION- none

CHANNEL- rectangular concrete with trapezoidal low flow channel at center.

LENGTH OF RECORD- November 23, 1966 to date.

REMARKS- gage is affected by tides greater than 4.0 feet above mean lower low water.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : F378-R

DRAINAGE AREA : 37.10 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	2.8	INC.	23.8	23.2	27.9	49.3	5.8	2.5	2.4	3.2	3.2	2.9
	MAX.	5.3	INC.	684.0	382.0	240.0	446.0	60.5	4.1	5.8	5.0	4.1	4.3
	MIN.	1.7	INC.	+	1.0	1.1	1.0	1.3	1.7	1.3	1.7	2.3	1.8
TOTAL AF		170.2	INC.	1462.2	1426.7	1550.0	3031.0	343.9	155.9	140.0	195.4	193.8	173.2
WATER YEAR 81-82	MEAN	5.6	28.2	21.8	32.9	7.4	46.1	19.3	2.8	2.5	2.6	2.4	7.9
	MAX.	107.0	386.0	619.0	330.0	137.0	457.0	289.0	4.6	2.5	5.6	4.1	99.7
	MIN.	1.0	1.3	0.7	1.2	1.3	1.7	1.3	2.1	2.5	1.8	1.7	1.4
TOTAL AF		345.9	1675.0	1340.0	2019.9	409.0	2830.0	1145.0	174.0	149.0	157.0	150.0	472.0

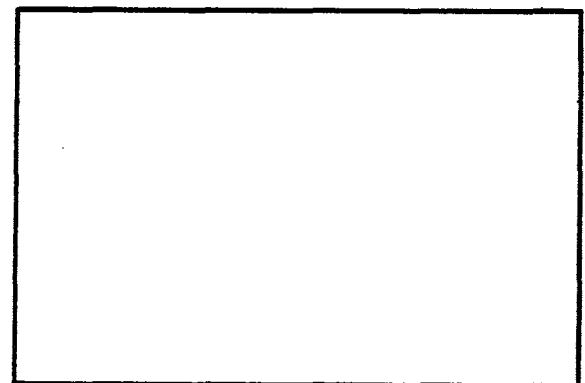
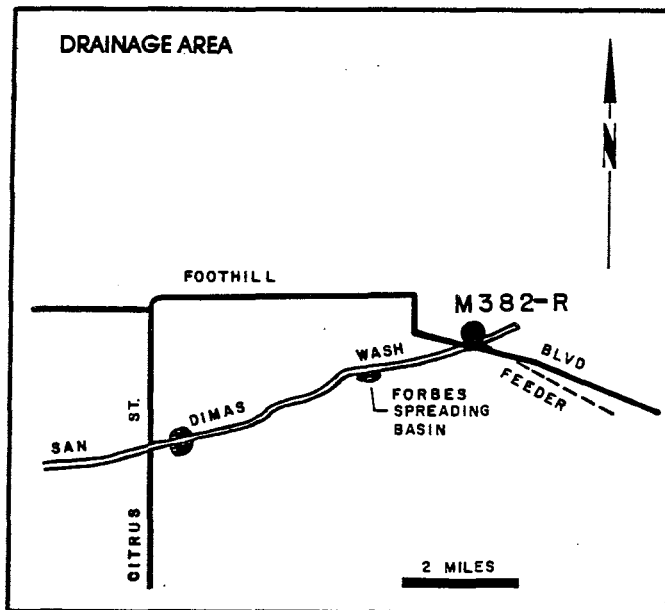
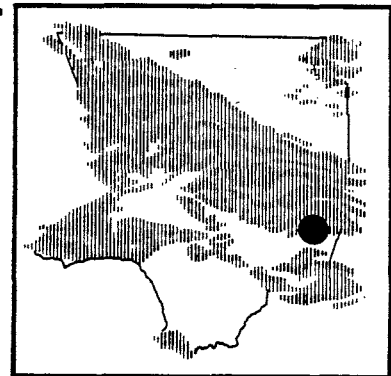
WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

STATION NO. : F378-R

DRAINAGE AREA : 37.10 SQ. MI.

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	5.3	52.2	10.6	105.4	103.0	180.0	70.9	INC.	INC.	INC.	INC.	INC.
	MAX.	59.5	680.0	253.0	901.0	1126.0	2548.0	631.0	INC.	INC.	INC.	INC.	INC.
	MIN.	1.3	1.1	1.0	1.5	1.7	1.9	2.3	INC.	INC.	INC.	INC.	INC.
TOTAL AF		325.0	3110.0	655.0	6480.0	5710.0	11100.0	4220.0	INC.	INC.	INC.	INC.	INC.
WATER YEAR 83-84	MEAN				NO	DATA	FOR	1983	THRU	1984			
	MAX.												
	MIN.												
TOTAL AF													
WATER YEAR 84-85	MEAN	6.5	17.7	55.6	11.3	36.5	10.6	33.3	6.8	3.7	4.6	4.7	5.8
	MAX.	112.0	342.0	609.0	153.0	685.0	102.0	5.8	35.0	5.3	6.7	10.3	46.5
	MIN.	1.5	1.4	1.9	2.1	2.1	2.2	2.7	2.1	2.9	3.2	2.7	2.0
TOTAL AF		398.0	1050.0	3420.0	692.0	2025.0	650.0	198.0	416.0	218.0	281.5	290.0	347.0
WATER YEAR 85-86	MEAN				NO	DATA	FOR	1985	THRU	1986			
	MAX.												
	MIN.												
TOTAL AF													
WATER YEAR 86-87	MEAN				NO	DATA	FOR	1986	THRU	1987			
	MAX.												
	MIN.												
TOTAL AF													

SAN DIMAS WASH-MWD OUTLET above Foothill Boulevard STATION NO. M382-R



RECORDER- continuous totalizing recorder with Venturi control.

LOCATION latitude 34° 07' 34", longitude 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.

REGULATION- entirely regulated by gated outlet on The Metropolitan Water District upper feeder.

LENGTH OF RECORD- October 29, 1968 to present.

REMARKS- located, constructed and operated by The Metropolitan Water District in cooperation with the Los Angeles County Flood Control District.

WATER YEARS : 1980-1982
(DISCHARGE IN SEC-FT)

STATION NO. : M382-R

DRAINAGE AREA : N/A

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 80-81	MEAN	0.0	0.45	31.1	79.8	17.3	5.1	77.7	0.0	0.0	0.0	0.0	0.0
	MAX.	0.0	13.6	101.0	124.0	126.0	100.0	150.0	0.0	0.0	0.0	0.0	0.0
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		0.0	27.0	1910.0	4900.0	960.0	313.0	4620.0	0.0	0.0	0.0	0.0	0.0
WATER YEAR 81-82	MEAN	56.8	40.4	67.6	42.7	75.7	1.28	36.0	1.04	17.4	3.95	0.0	53.9
	MAX.	152.7	152.1	150.0	150.0	150.0	39.6	150.0	32.2	95.8	77.2	0.0	125.4
	MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		3493.0	2406.0	4156.0	2628.0	4204.0	78.5	2145.0	63.9	1036.0	243.0	0.0	3210.0

WATER YEARS : 1982-1987
(DISCHARGE IN SEC-FT)

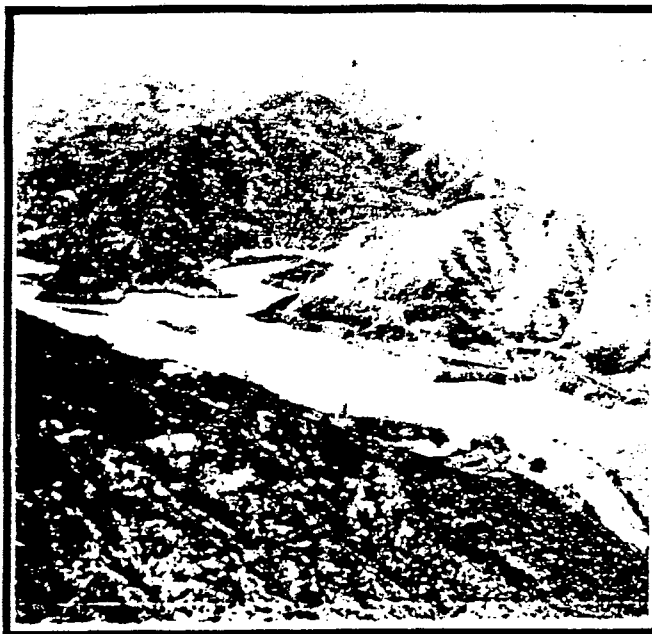
STATION NO.: M382-R

DRAINAGE AREA : N/A

		OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
WATER YEAR 82-83	MEAN	83.6	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MAX.	100.0	63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MIN.	75.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL AF		5139.4	781.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WATER YEAR 83-84	MEAN	0.0	0.0	11.6	0.0	0.0	61.3	76.7	75.5	72.3	0.0	0.0	0.0
	MAX.	0.0	0.0	80.0	0.0	0.0	63.0	85.0	85.0	80.0	0.0	0.0	0.0
	MIN.	0.0	0.0	51.5	0.0	0.0	29.4	0.0	73.3	34.5	0.0	0.0	0.0
TOTAL AF		0.0	0.0	713.5	0.0	0.0	3766.4	4566.2	4639.9	4303.1	0.0	0.0	0.0
WATER YEAR 84-85	MEAN												
	MAX.				NO	DATA	FOR	1984	THRU	1985			
	MIN.												
TOTAL AF													
WATER YEAR 85-86	MEAN												
	MAX.				NO	DATA	FOR	1985	THRU	1986			
	MIN.												
TOTAL AF													
WATER YEAR 86-87	MEAN												
	MAX.				NO	DATA	FOR	1986	THRU	1987			
	MIN.												
TOTAL AF													

RESERVOIRS





RESERVOIRS

Following the damaging floods of 1913-14, and 1915-16, Los Angeles County initiated a program of flood control and water conservation including the construction of 14 dams. These dams were operated by the Department during the seasons covered by this report. In addition, five Corps of Engineers' dams and Morris Dam owned by The Metropolitan Water District were utilized to achieve flood control and water conservation. The Corps of Engineer's dams are: Hansen Dam on Tujunga Wash, Sepulveda Dam on the Los Angeles River, Santa Fe Dam on the San Gabriel River, Whittier Narrows Dam servicing both the Rio Hondo and San Gabriel River, and San Antonio Dam on San Antonio Creek.

OPERATION

The reservoirs are operated to control flood waters during storm periods. Post storm releases are made, when feasible, in amounts which can be conserved in spreading grounds and by channel percolation. Following the storm season, water is stored to provide streamflow during the dry summer months for recreation and water supply purposes.

RECORDS

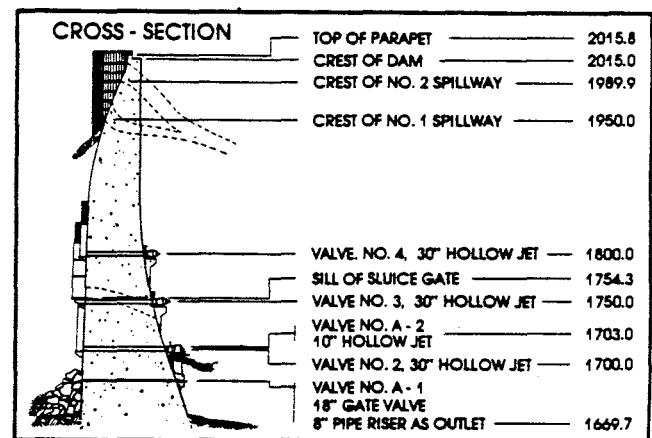
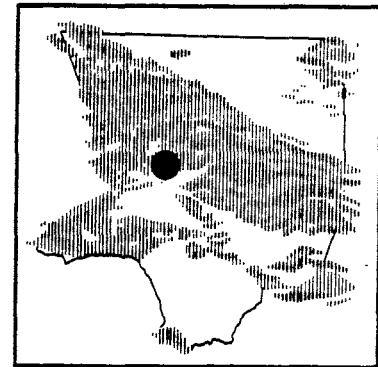
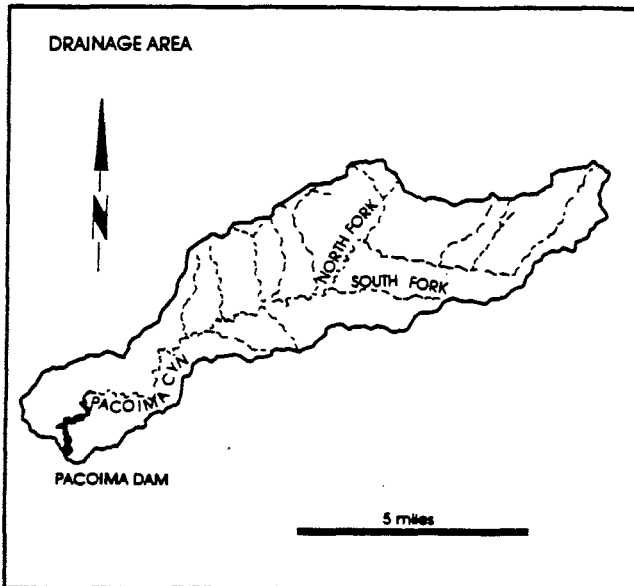
The storage and flow records at 14 of the Department reservoirs are summarized on the Dam Operation Record Sheets. The sheets show:

1. Reservoir water surface elevations based on the spillway datum. Elevations are obtained from water stage recorder graphs or interpolation from staff gage readings and recorded as of midnight of each day. Only maximum and minimum water surface elevations for each year are shown.
2. Storage in acre-feet based on the most recent topographic surveys. Annual storage volumes are shown.

3. Inflow in cubic feet per second. This is usually calculated from storage change and known outflow. When outflow is not known, the inflow may be determined from gaging station records or interpolated between measurements. Only the maximum and minimum of the daily flow rates for the year and the instantaneous peak flow rate are shown.
4. Outflow in cubic feet per second. These values are determined from gaging station records, known valve openings and rating curves, or from storage change and known inflow. Only the maximum and minimum of the daily outflow rates for the year and the instantaneous peak outflow rate are shown.
5. Discrepancies between outflow and storage losses at certain dams are attributable to percolation and/or evaporation losses. Total monthly evaporation losses are determined from the 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 the physical change in reservoirs.

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

PACOIMA DAM AND RESERVOIR



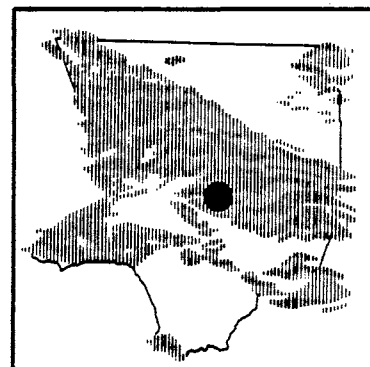
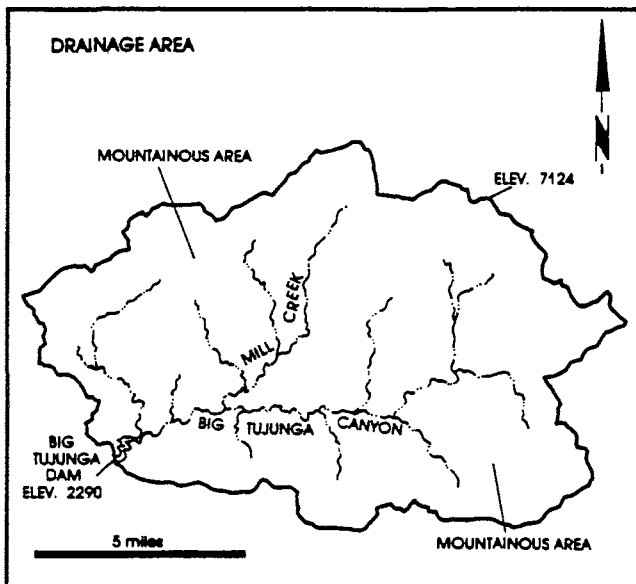
PURPOSE - Flood Control and Conservation.
DATE CONSTRUCTED - Started March 1925. Completed February 1929.
LOCATION - Pacoima Canyon, 4.0 miles northeast of San Fernando.
DRAINAGE AREA - 28.2 square miles.
CAPACITY - 3,929 acre - feet.
SPILLWAY ELEVATION - 1,950.0 feet.

WATER YEAR	1980-81	1981-82	1982-83	1983-84
TOTAL ANNUAL INFLOW (AF)	2731.00	5978.50	43335.80	3520.60
TOTAL ANNUAL OUTFLOW (AF)	3439.50	4866.80	44566.20	1385.80
MAX. MEAN DAILY INFLOW (CFS)	65.80	225.50	2359.00	88.00
TOTAL ANNUAL LOSSES (AF)	175.10	175.50	120.40	217.00
MIN. MEAN DAILY INFLOW (CFS)	0.00	0.30	0.50	0.20
MAX. PEAK INFLOW (CFS): DATE/FROM - TO	01/29/81 @ 1600-1700 166.62	03/17/82 @ 1500-1600 589.83	03/01/83 @ 1900-2000 4671.16	12/25/83 @ 1500-1600 153.39
MAX. PEAK OUTFLOW (CFS): DATE/FROM - TO	02/05/81 @ 1142-1242 134.00	03/26/82 @ 0918-1018 135.00	03/01/83 @ 1920-2020 3941.00	01/30/84 @ 1300-1315 300.00
ANNUAL STORAGE CHANGE (AF)	-883.60	936.20	-1350.80	1917.80
MAX. W.S. ELEVATION (FT)	1917.00 ON 03/24/81	1942.20 ON 04/06/82	1980.60 ON 03/02/83	1914.10 ON 01/24/84
MAXIMUM STORAGE (AF)	1689.00	2853.00	5444.00	2091.40
MIN. W.S. ELEVATION (FT)	1859.12 ON 05/01/81	1864.28 ON 10/01/81	1751.00 - DRY	1751.00 - DRY
MINIMUM STORAGE (AF)	363.57	417.72	0.00	0.00

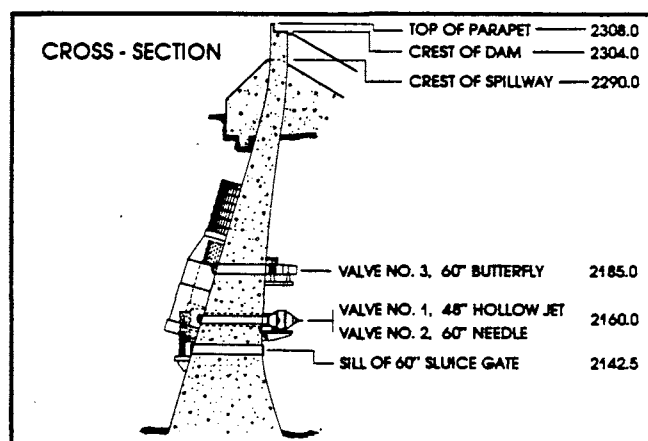
PACOIMA
DAM & RESERVOIR

WATER YEAR	1984-85	1985-86	1986-87
TOTAL ANNUAL INFLOW (AF)	2852.80	7886.20	638.20
TOTAL ANNUAL OUTFLOW (AF)	3650.50	7015.10	223.70
MAX. MEAN DAILY INFLOW (CFS)	79.30	279.00	6.70
TOTAL ANNUAL LOSSES (AF)	162.20	177.10	181.80
MIN. MEAN DAILY INFLOW (CFS)	0.00	0.00	0.00
MAX. PEAK INFLOW (CFS): DATE/FROM - TO	103.82 12/20/84 @ 0300-0400	160.92 02/15/86 @ 0800-0900	9.00 01/04/87 @ 1100-1200
MAX. PEAK OUTFLOW (CFS): DATE/FROM - TO	231.40 01/14/85 @ 1530-1645	245.00 05/27/86 @ 0742-0754	305.00 02/24/87 @ 1030-1100
ANNUAL STORAGE CHANGE (AF)	-959.90	694.00	232.70
MAX. W.S. ELEVATION (FT)	1910.10 ON 11/21/84	1938.32 ON 03/24/86	1893.20 - VARIOUS DAYS
MAXIMUM STORAGE (AF)	1945.20	3148.00	1417.00
MIN. W.S. ELEVATION (FT)	1860.95 ON 04/21/85	1873.75 ON 10/01/85	1882.30 ON 02/27/87
MINIMUM STORAGE (AF)	715.47	957.12	1144.10

BIG TUJUNGA DAM AND RESERVOIR



PURPOSE - Flood Control 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.

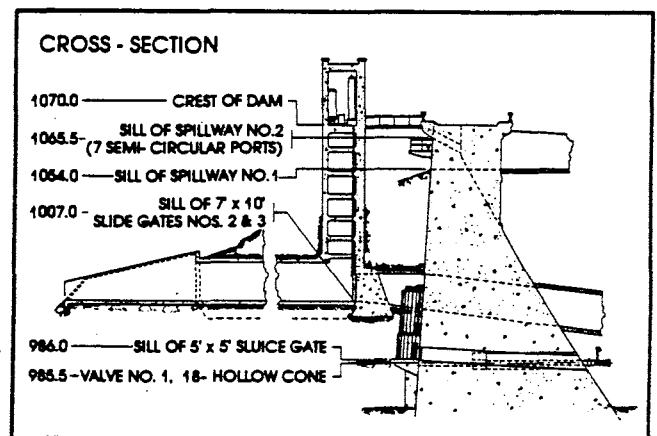
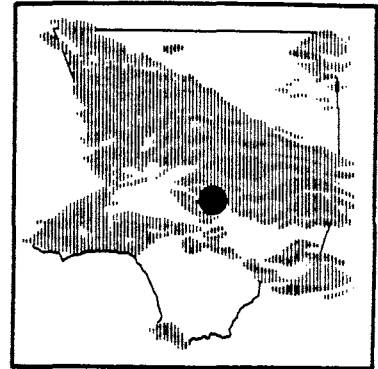
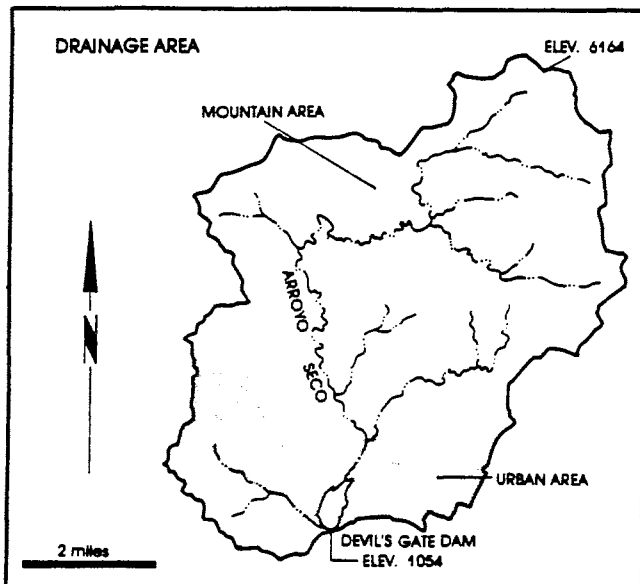


WATER YEAR	1980-81	1981-82	1982-83	1983-84
TOTAL ANNUAL INFLOW (AF)	10926.50	16578.30	95294.00	10861.00
TOTAL ANNUAL OUTFLOW (AF)	11470.20	16557.20	93879.50	11313.80
MAX. MEAN DAILY INFLOW (CFS)	225.70	568.80	7065.20	336.60
TOTAL ANNUAL LOSSES (AF)	69.40	21.80	175.40	204.10
MIN. MEAN DAILY INFLOW (CFS)	3.00	3.80	3.80	0.00
MAX. PEAK INFLOW (CFS): DATE/FROM - TO	496.45 01/29/81 @ 1400-1500	1498.50 03/17/82 @ 1500-1600	10006.60 03/01/83 @ 2100-2200	807.78 12/25/83 @ 0700-0800
MAX. PEAK OUTFLOW (CFS): DATE/FROM - TO	500.00 05/04/81 @ 0700-0800	470.00 03/18/82 @ 0000-1500	9900.00 03/01/83 @ 2100-2200	360.00 12/25/83 @ 1030-1045
ANNUAL STORAGE CHANGE (AF)	-613.10	-0.70	1239.10	-656.90
MAX. W.S. ELEVATION (FT)	2232.60 ON 03/02/81	2229.90 ON 03/17/82	2297.90 ON 03/01/83	2218.95 ON 12/25/83
MAXIMUM STORAGE (AF)	1353.00	1600.00	6926.00	1667.90
MIN. W.S. ELEVATION (FT)	2164.00 - DRY	2145.00 - DRY	2143.00 - DRY	2189.55 ON 09/30/84
MINIMUM STORAGE (AF)	0.00	0.00	0.00	741.65

BIG TUJUNGA
DAM & RESERVOIR

WATER YEAR	1984-85	1985-86	1986-87
TOTAL ANNUAL INFLOW (AF)	7361.80	12369.50	2942.90
TOTAL ANNUAL OUTFLOW (AF)	6951.70	11756.50	2842.50
MAX. MEAN DAILY INFLOW (CFS)	199.50	529.10	27.50
TOTAL ANNUAL LOSSES (AF)	165.70	192.50	164.80
MIN. MEAN DAILY INFLOW (CFS)	0.70	0.40	0.00
MAX. PEAK INFLOW (CFS): DATE/FROM - TO	361.28 12/19/84 @ 1800-1900	968.70 01/30/86 @ 1100-1200	52.68 01/04/87 @ 1400-1500
MAX. PEAK OUTFLOW (CFS): DATE/FROM - TO	253.00 12/19/84 @ 2049-2104	475.00 02/15/86 @ 0915-0930	219.00 03/05/87 @ 1031-1046
ANNUAL STORAGE CHANGE (AF)	244.40	420.50	-64.40
MAX. W.S. ELEVATION (FT)	2220.00 ON 02/26/85	2220.85 ON 02/15/86	2213.14 ON 03/09/87
MAXIMUM STORAGE (AF)	1708.00	1741.96	1277.60
MIN. W.S. ELEVATION (FT)	2181.78 ON 10/10/84	2197.90 ON 10/01/85	2204.72 ON 01/12/87
MINIMUM STORAGE (AF)	559.86	965.20	1045.72

DEVIL'S GATE DAM AND RESERVOIR



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.

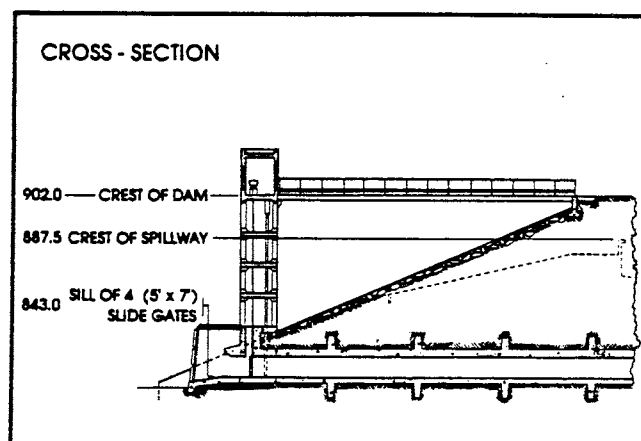
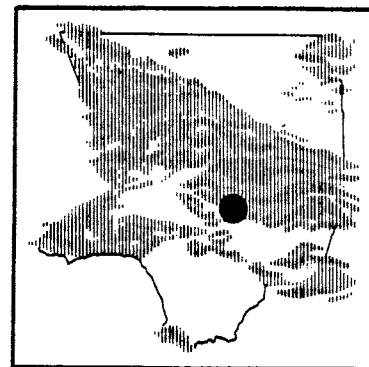
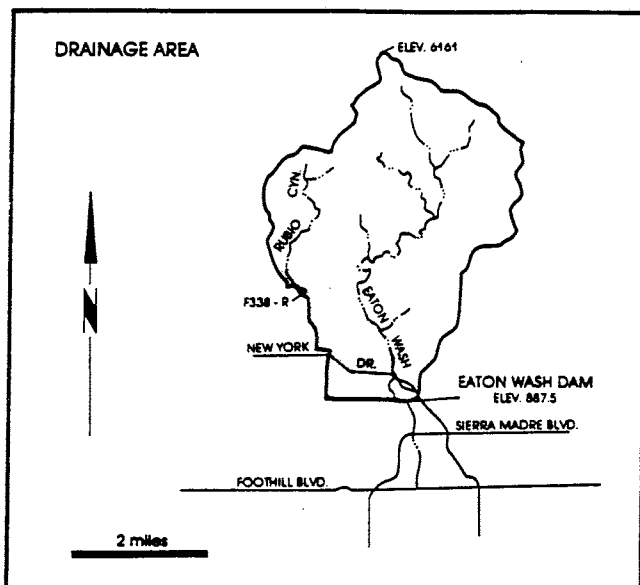
WATER YEAR	1980-81 **	1981-82 **	1982-83 **	1983-84 **
TOTAL ANNUAL INFLOW (AF)	1856.72	6574.20	26491.03	937.00
TOTAL ANNUAL OUTFLOW (AF)	2337.32	6568.66	26338.30	1074.45
MAX. MEAN DAILY INFLOW (CFS)	84.00	199.40	2571.10	100.00
TOTAL ANNUAL LOSSES (AF)	N.D.	N.D.	N.D.	N.D.
MIN. MEAN DAILY INFLOW (CFS)	0.00	0.00	0.00	0.00
MAX. PEAK INFLOW (CFS): DATE/FROM - TO	01/29/81 ● 1200-1300 802.00	03/17/82 ● 0800-1000 272.20	03/02/83 ● 1530-1600 3419.00	10/01/83 ● 0630-0730 105.30
MAX. PEAK OUTFLOW (CFS): DATE/FROM - TO	03/24/81 ● 1015-1030 418.00	03/18/82 ● 1415-1430 1280.00	03/02/83 ● 1715-1730 3260.00	12/01/83 ● 1145-1230 526.00
ANNUAL STORAGE CHANGE (AF)	N.D.	N.D.	N.D.	N.D.
MAX. W.S. ELEVATION (FT)	1025.20 ON 10/25/81	1035.18 ON 03/18/82	1051.75 ON 03/04/82	1026.00 ON 10/01/83
MAXIMUM STORAGE (AF)	267.40	795.30	2539.00	293.00
MIN. W.S. ELEVATION (FT)	992.00 - DRY	992.00 - DRY	992.00 - DRY	998.00 - DRY
MINIMUM STORAGE (AF)	0.00	0.00	0.00	0.00

DEVIL'S GATE
DAM & RESERVOIR

WATER YEAR	1984-85 **	1985-86 **	1986-87 **
TOTAL ANNUAL INFLOW (AF)	1320.40	2877.40	N.D.
TOTAL ANNUAL OUTFLOW (AF)	1320.00	2876.60	N.D.
MAX. MEAN DAILY INFLOW (CFS)	129.10	166.30	N.D.
TOTAL ANNUAL LOSSES (AF)	N.D.	N.D.	N.D.
MIN. MEAN DAILY INFLOW (CFS)	0.00	0.00	0.00
MAX. PEAK INFLOW (CFS): DATE/FROM - TO	480.00 12/19/84 @ 1500-1508	281.60 02/15/86 @ 0100-0200	201.90 01/04/87 @ 0830-0900
MAX. PEAK OUTFLOW (CFS): DATE/FROM - TO	873.00 12/21/84 @ 0830-0845	507.00 01/30/86 @ 1115-1130	250.00 01/07/87 @ 0905-1008
ANNUAL STORAGE CHANGE (AF)	N.D.	N.D.	N.D.
MAX. W.S. ELEVATION (FT)	1025.55 ON 12/20/84	1025.66 ON 02/01/86	1003.24 ON 01/07/87
MAXIMUM STORAGE (AF)	276.50	280.60	5.96
MIN. W.S. ELEVATION (FT)	998.00 - DRY	998.00 - DRY	998.00 - DRY
MINIMUM STORAGE (AF)	0.00	0.00	0.00

N.D. = NOT DETERMINED ** = ESTIMATED DUE TO INCOMPLETE RECORDS

EATON WASH DAM AND RESERVOIR



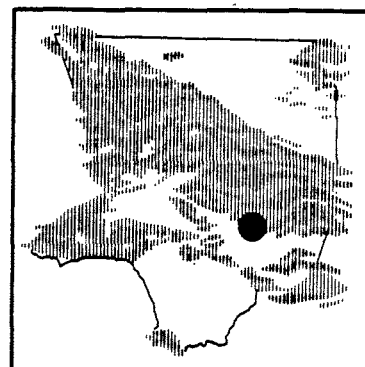
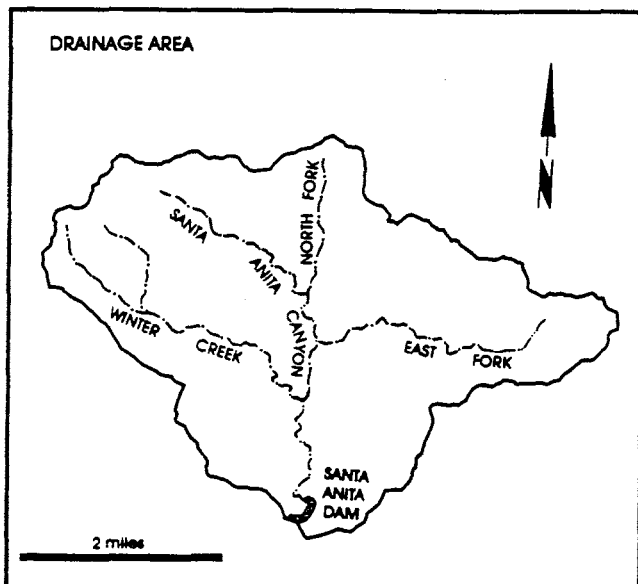
PURPOSE - Debris Storage and Conservation.
DATE CONSTRUCTED - Started January 1936 . Completed February 1937.
LOCATION - Eaton Wash, northeast of Pasadena.
DRAINAGE AREA - 12.4 square miles.
CAPACITY - 879 acre - feet.
SPILLWAY ELEVATION - 887.5 feet.

WATER YEAR	1980-81	1981-82	1982-83	1983-84
TOTAL ANNUAL INFLOW (AF)	577.80	1676.00	19049.80	1917.50
TOTAL ANNUAL OUTFLOW (AF)	587.00	1529.90	18940.60	1929.00
MAX. MEAN DAILY INFLOW (CFS)	44.90	120.80	732.00	61.10
TOTAL ANNUAL LOSSES (AF)	0.00	4.30	0.70	6.00
MIN. MEAN DAILY INFLOW (CFS)	0.00	0.00	0.00	0.00
MAX. PEAK INFLOW (CFS): DATE/FROM - TO	194.51 03/01/81 ● 0500-0600	199.57 03/17/82 ● 1300-1400	1981.78 03/02/83 ● 1400-1500	187.89 12/25/83 ● 0600-0700
MAX. PEAK OUTFLOW (CFS): DATE/FROM - TO	13.00 04/29/81 ● 0900	112.00 04/05/82 ● 1215-1315	1210.00 03/02/83 ● 1830-1930	42.80 10/20/83 ● 1615-1715
ANNUAL STORAGE CHANGE (AF)	-9.20	141.80	108.50	-17.50
MAX. W.S. ELEVATION (FT)	867.48 ON 03/21/81	880.70 ON 04/05/82	887.83 ON 03/13/83	871.67 ON 12/27/83
MAXIMUM STORAGE (AF)	282.30	612.80	894.28	243.50
MIN. W.S. ELEVATION (FT)	842.00 - DRY	842.00 - DRY	843.00 - DRY	845.00 - DRY
MINIMUM STORAGE (AF)	0.00	0.00	0.00	0.00

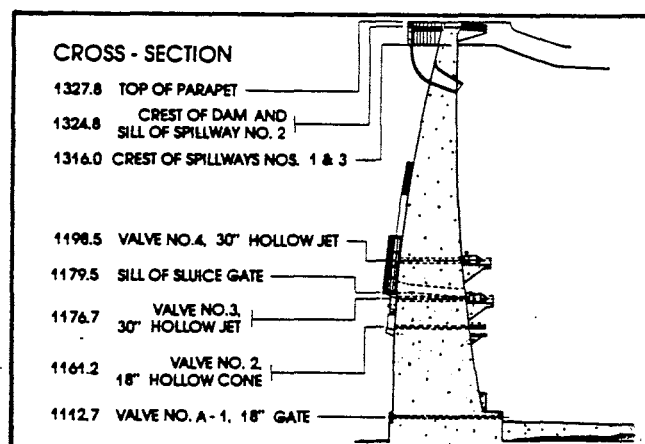
EATON WASH
DAM & RESERVOIR

WATER YEAR	1984-85	1985-86	1986-87
TOTAL ANNUAL INFLOW (AF)	701.20	1937.40	INC.
TOTAL ANNUAL OUTFLOW (AF)	697.80	1932.60	INC.
MAX. MEAN DAILY INFLOW (CFS)	23.00	55.60	27.30
TOTAL ANNUAL LOSSES (AF)	3.40	4.70	INC.
MIN. MEAN DAILY INFLOW (CFS)	0.00	0.00	0.00
MAX. PEAK INFLOW (CFS): DATE/FROM - TO	22.65 12/19/84 @ 2200-2400	223.07 01/30/86 @ 0700-0800	22.63 01/04/87 @ 1200-1300
MAX. PEAK OUTFLOW (CFS): DATE/FROM - TO	17.50 01/05/85 @ 0645-0745	58.80 02/15/86 @ 1700-1800	INC.
ANNUAL STORAGE CHANGE (AF)	0.00	0.10	INC.
MAX. W.S. ELEVATION (FT)	868.30 ON 12/29/84	870.29 ON 02/16/86	851.73 ON 03/21/87
MAXIMUM STORAGE (AF)	193.90	221.28	32.12
MIN. W.S. ELEVATION (FT)	845.00 - DRY	845.00 - DRY	845.00 - DRY
MINIMUM STORAGE (AF)	0.00	0.00	0.00

SANTA ANITA DAM AND RESERVOIR



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.

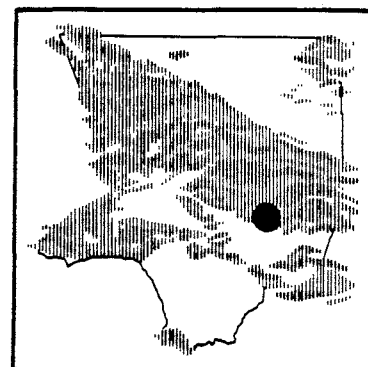
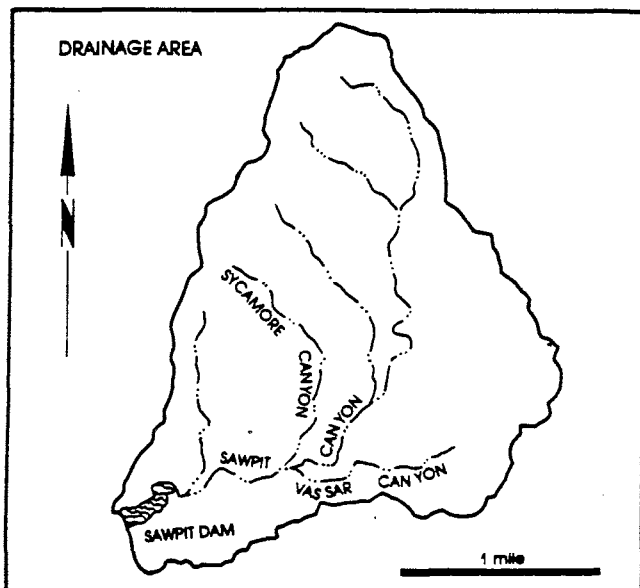


WATER YEAR	1980-81	1981-82	1982-83	1983-84
TOTAL ANNUAL INFLOW (AF)	2220.90	3714.00	21245.60	3603.30
TOTAL ANNUAL OUTFLOW (AF)*	2210.40	3651.90	21325.30	3586.00
MAX. MEAN DAILY INFLOW (CFS)	27.20	127.10	882.40	56.50
TOTAL ANNUAL LOSSES (AF)	43.00	29.40	16.10	28.40
MIN. MEAN DAILY INFLOW (CFS)	0.60	0.60	0.00	0.30
MAX. PEAK INFLOW (CFS): DATE/FROM - TO	146.60 01/29/81 ● 1300-1400	213.38 03/17/82 ● 1500-1600	1196.77 03/02/83 ● 1600-1700	141.65 12/25/83 ● 0700-0800
MAX. PEAK OUTFLOW (CFS): DATE/FROM - TO	24.20 06/15/81 ● 1000-1100	141.00 03/17/82 ● 2300-2400	1189.00 03/02/83 ● 1530-1630	94.30 03/22/84 ● 1450-1500
ANNUAL STORAGE CHANGE (AF)	-32.50	32.70	-95.80	-11.10
MAX. W.S. ELEVATION (FT)	1274.05 ON 04/13/81	1286.70 ON 03/17/82	1319.20 ON 03/02/83	1286.90 ON 12/27/83
MAXIMUM STORAGE (AF)	323.92	428.10	821.70	509.40
MIN. W.S. ELEVATION (FT)	1244.00 ON 06/19/81	1246.30 ON 01/15/82	1184.00 - DRY	1237.30 ON 09/13/84
MINIMUM STORAGE (AF)	139.90	141.80	0.00	150.60

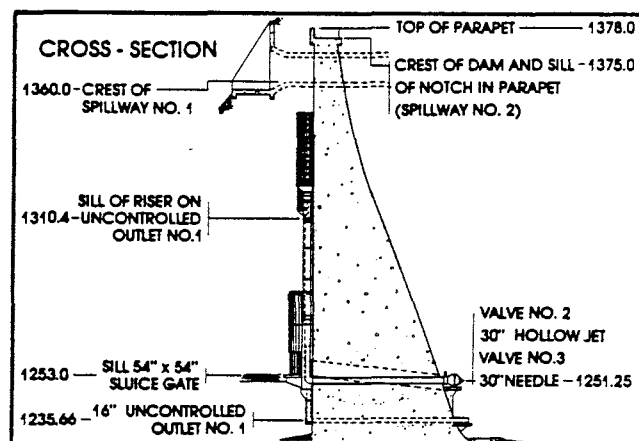
SANTA ANITA
DAM & RESERVOIR

WATER YEAR	1984-85	1985-86	1986-87
TOTAL ANNUAL INFLOW (AF)	2362.90	4734.60	1041.40
TOTAL ANNUAL OUTFLOW (AF)	2272.00	4612.40	1173.80
MAX. MEAN DAILY INFLOW (CFS)	47.70	76.90	7.60
TOTAL ANNUAL LOSSES (AF)	25.60	24.00	26.10
MIN. MEAN DAILY INFLOW (CFS)	0.00	0.40	0.00
MAX. PEAK INFLOW (CFS): DATE/FROM - TO	102.31 12/19/84 @ 1700-1800	89.26 01/30/86 @ 1100-1200	11.42 01/05/87 @ 0600-0700
MAX. PEAK OUTFLOW (CFS): DATE/FROM - TO	28.90 ; 02/12/85 @ 0900: TO 02/14/85 @ 1500	218.00 07/21/86 @ 0824-0830	30.00 12/29/86 @ 0900-1500
ANNUAL STORAGE CHANGE (AF)	65.30	98.20	-158.50
MAX. W.S. ELEVATION (FT)	1271.70 ON 12/20/84	1279.11 ON 02/21/86	1271.00 ON 10/06/86
MAXIMUM STORAGE (AF)	368.90	433.79	363.10
MIN. W.S. ELEVATION (FT)	1236.50 ON 06/14/85	1237.40 ON 10/11/85	1237.90 ON 07/31/87
MINIMUM STORAGE (AF)	146.70	151.00	153.50

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.



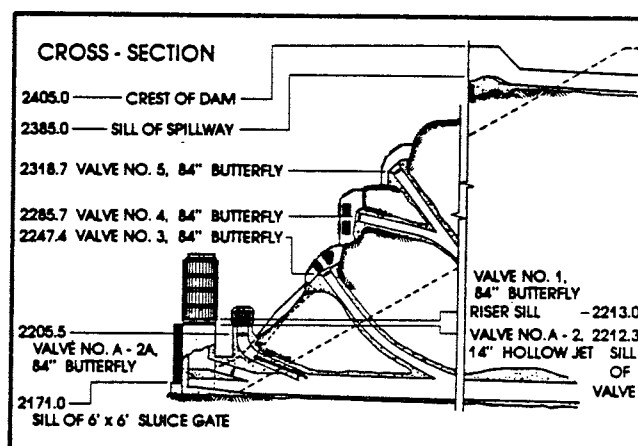
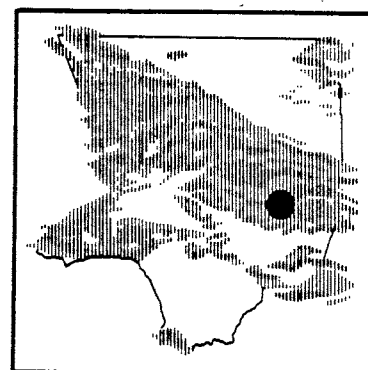
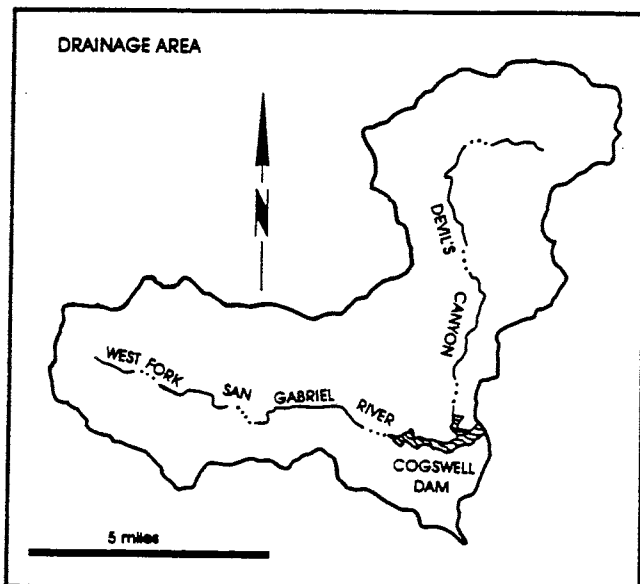
WATER YEAR	1980-81	1981-82	1982-83	1983-84
TOTAL ANNUAL INFLOW (AF)	1045.20	1244.10	4586.80	1267.90
TOTAL ANNUAL OUTFLOW (AF)	1045.40	1306.60	4490.30	1268.30
MAX. MEAN DAILY INFLOW (CFS)	7.20	39.10	142.00	9.30
TOTAL ANNUAL LOSSES (AF)	0.00	0.00	0.00	0.00
MIN. MEAN DAILY INFLOW (CFS)	0.40	0.00	0.00	0.00
MAX. PEAK INFLOW (CFS): DATE/FROM - TO	30.26 01/29/81 @ 1200-1300	48.21 03/17/82 @ 1500-1600	299.65 03/02/83 @ 2300-2400	25.71 12/25/83 @ 0600-0700
MAX. PEAK OUTFLOW (CFS): DATE/FROM - TO	9.40 03/19/81 @ 1845-1945	72.00 04/25/82 @ 0715-0815	269.00 03/01/83 @ 1600-1700	63.00 05/07/84 @ 0830-0845
ANNUAL STORAGE CHANGE (AF)	-0.20	-62.50	96.50	-0.40
MAX. W.S. ELEVATION (FT)	1310.93 ON 01/29/81	1311.17 ON 04/01/82	1340.26 ON 03/03/83	1311.00 ON 12/25/83
MAXIMUM STORAGE (AF)	65.88	64.29	248.90	98.50
MIN. W.S. ELEVATION (FT)	1291.08 ON 01/11/81	1269.00 - DRY	1260.30 ON 11/09/82	1264.98 - VARIOUS DAYS
MINIMUM STORAGE (AF)	22.84	0.00	1.58	1.75

SAMPIT
DAM & RESERVOIR

WATER YEAR	1984-85	1985-86	1986-87 **
TOTAL ANNUAL INFLOW (AF)	928.60	1203.50	INC.
TOTAL ANNUAL OUTFLOW (AF)	927.60	1203.30	INC.
MAX. MEAN DAILY INFLOW (CFS)	6.70	10.20	4.20
TOTAL ANNUAL LOSSES (AF)	0.90	0.00	INC.
MIN. MEAN DAILY INFLOW (CFS)	0.50	0.00	0.00
MAX. PEAK INFLOW (CFS): DATE/FROM - TO	25.29 12/19/84 @ 1800-1900	16.31 03/16/86 @ 0900-1000	1.50 01/06/87 @ 0700-0800
MAX. PEAK OUTFLOW (CFS): DATE/FROM - TO	14.40 12/19/84 @ 1845-1900	16.00 12/11/85 @ 0800-0815	12.80 03/18/87 @ 0830-0845
ANNUAL STORAGE CHANGE (AF)	0.10	0.20	INC.
MAX. W.S. ELEVATION (FT)	1310.94 ON 12/19/84	1310.80 ON 02/15/86	1310.47 ON 01/04/87
MAXIMUM STORAGE (AF)	98.20	97.70	96.55
MIN. W.S. ELEVATION (FT)	1310.10 ON 04/17/85	1310.10 ON 01/15/86	1310.20 - VARIOUS DAYS
MINIMUM STORAGE (AF)	95.20	95.20	95.60

** = ESTIMATED DUE TO INCOMPLETE RECORDS

COGSWELL DAM AND RESERVOIR



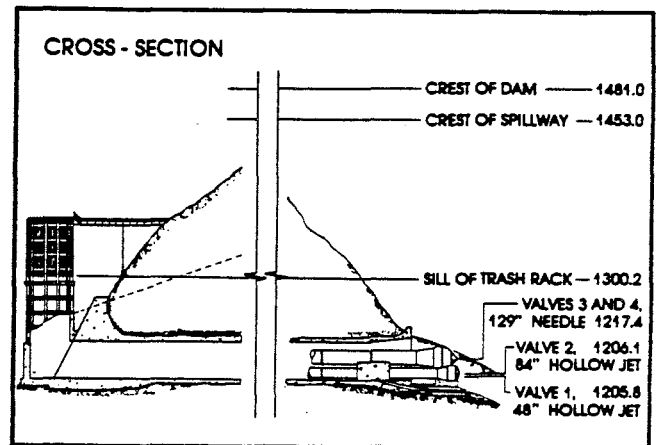
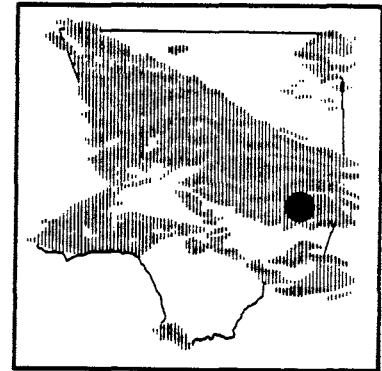
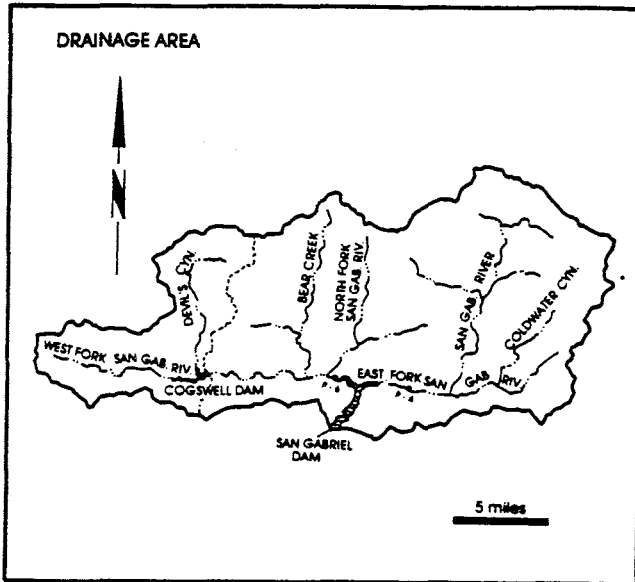
PURPOSE - Flood Control, Conservation, and Recreation.
 DATE CONSTRUCTED - Started March 1932. Completed April 1934.
 LOCATION - 22.0 miles north of Azusa.
 DRAINAGE AREA - 39.2 square miles.
 CAPACITY - 9,339 acre - feet.
 SPILLWAY ELEVATION - 2,385.0 feet.

WATER YEAR	1980-81	1981-82	1982-83	1983-84
TOTAL ANNUAL INFLOW (AF)	5298.90	14257.80	77774.70	9560.90
TOTAL ANNUAL OUTFLOW (AF)	7751.80	9058.50	78445.60	12495.40
MAX. MEAN DAILY INFLOW (CFS)	127.30	605.30	3965.70	271.90
TOTAL ANNUAL LOSSES (AF)	57.20	333.30	491.70	135.80
MIN. MEAN DAILY INFLOW (CFS)	0.00	0.40	1.40	2.80
MAX. PEAK INFLOW (CFS): DATE/FROM - TO	511.20 01/29/81 @ 1500-1600	1237.92 03/17/82 @ 1500-1600	5897.75 03/02/83 @ 0200-0300	789.71 12/25/83 @ 0600-0700
MAX. PEAK OUTFLOW (CFS): DATE/FROM - TO	1330.00 04/13/81 @ 0930	3910.00 03/23/82 @ 1115	4680.00 03/02/83 @ 1615	190.00 12/28/83 @ 1200
ANNUAL STORAGE CHANGE (AF)	-2510.10	4866.00	-1162.60	-3070.30
MAX. W.S. ELEVATION (FT)	2323.17 ON 03/18/81	2370.16 - VARIOUS DAYS	2389.60 ON 03/02/83	2337.59 ON 10/01/83
MAXIMUM STORAGE (AF)	2524.17	7084.43	9764.00	3544.16
MIN. W.S. ELEVATION (FT)	2212.00 - DRY	2171.00 - DRY	2282.75 ON 01/30/83	2261.11 ON 09/30/84
MINIMUM STORAGE (AF)	0.00	0.00	1015.34	440.87

COGSWELL
DAM & RESERVOIR

WATER YEAR	1984-85	1985-86	1986-87
TOTAL ANNUAL INFLOW (AF)	7167.10	15584.30	2193.90
TOTAL ANNUAL OUTFLOW (AF)	6383.00	15313.90	2669.40
MAX. MEAN DAILY INFLOW (CFS)	284.20	559.60	35.40
TOTAL ANNUAL LOSSES (AF)	193.70	222.30	126.10
MIN. MEAN DAILY INFLOW (CFS)	0.00	0.60	0.10
MAX. PEAK INFLOW (CFS): DATE/FROM - TO	530.92 12/19/84 @ 1800-1900	915.80 02/15/86 @ 0200-0300	62.85 01/04/87 @ 1225-1240
MAX. PEAK OUTFLOW (CFS): DATE/FROM - TO	102.00 ; 01/09/85 @ 0815 TO 01/11/85 @ 1100	1140.00 ; 1115 TO 1130 ON 03/19/86	619.00 11/12/86 @ 1240
ANNUAL STORAGE CHANGE (AF)	590.40	48.10	-601.60
MAX. W.S. ELEVATION (FT)	2323.21 ON 12/30/84	2333.05 ON 02/18/86	2298.44 ON 04/13/87
MAXIMUM STORAGE (AF)	2537.62	3274.73	1363.50
MIN. W.S. ELEVATION (FT)	2254.78 ON 11/20/84	2279.59 ON 11/10/85	2265.66 ON 09/30/87
MINIMUM STORAGE (AF)	339.81	817.52	526.74

SAN GABRIEL DAM AND RESERVOIR



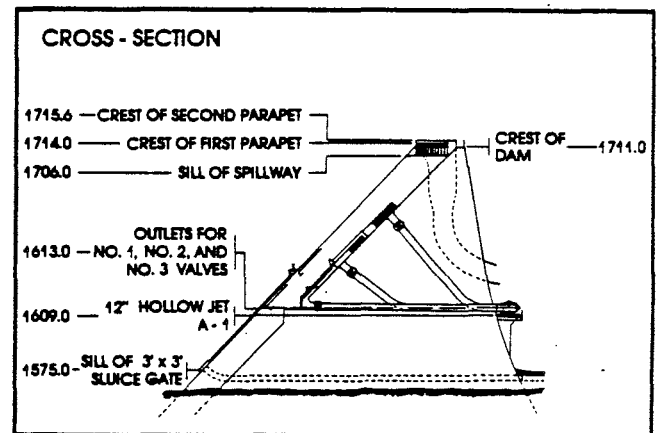
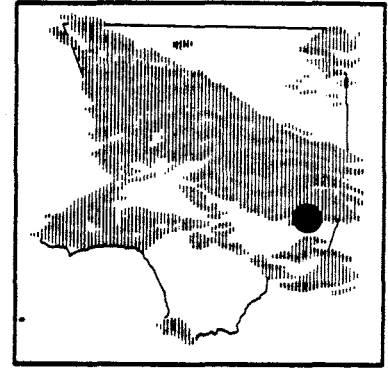
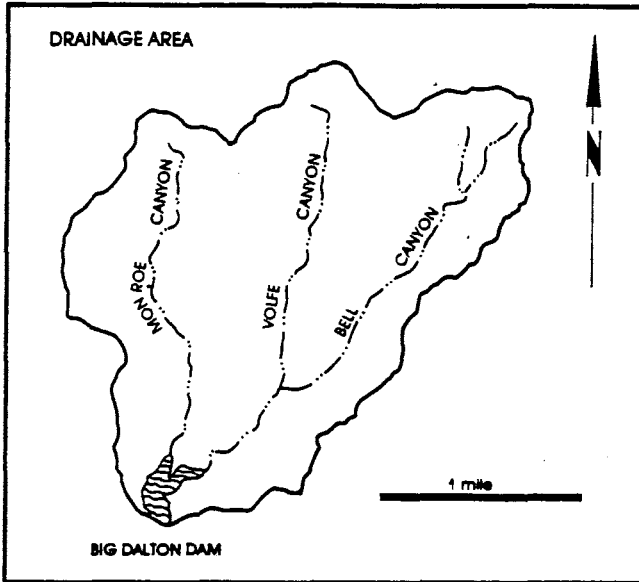
PURPOSE - Flood Control and Conservation.
DATE CONSTRUCTED - Started December 1932. Completed July 1939.
LOCATION - San Gabriel Canyon, 7.5 miles north of Azusa.
DRAINAGE AREA - 163.5 square miles (uncontrolled)
 39.2 square miles (controlled)
 Total 202.7 square miles
 (Includes Cogswell drainage)
CAPACITY - 41,549 acre - feet.
SPILLWAY ELEVATION - 1,453 feet.

WATER YEAR	1980-81	1981-82	1982-83	1983-84
TOTAL ANNUAL INFLOW (AF)	42882.10	95224.60	404331.60	61068.80
TOTAL ANNUAL OUTFLOW (AF)	40116.10	79833.30	402734.00	75283.60
MAX. MEAN DAILY INFLOW (CFS)	281.30	1590.60	14584.70	983.10
TOTAL ANNUAL LOSSES (AF)	1202.50	1826.40	1793.60	1204.10
MIN. MEAN DAILY INFLOW (CFS)	14.60	18.50	33.30	13.00
MAX. PEAK INFLOW (CFS): DATE/FROM - TO	783.79 01/29/81 ● 1500-1600	2869.19 03/17/82 ● 1200-1300	17080.30 03/01/83 ● 1300-1400	1567.59 12/25/83 ● 1000-1100
MAX. PEAK OUTFLOW (CFS): DATE/FROM - TO	135.00 10/16/80 ● 1100-1600	691.70 05/16/82 ● 0800-1600	13365.50 03/02/83 ● 1900-2000	581.90 10/24/83 ● 0800-1500
ANNUAL STORAGE CHANGE (AF)	1563.50	13564.90	-196.00	-15418.90
MAX. W.S. ELEVATION (FT)	1365.85 ON 05/09/81	1451.75 ON 05/04/82	1453.40 ON 04/29/83	1399.00 ON 10/07/83
MAXIMUM STORAGE (AF)	10413.81	45137.72	46028.00	20621.00
MIN. W.S. ELEVATION (FT)	1319.03 ON 11/05/80	1328.13 ON 01/19/82	1339.99 ON 11/09/83	1324.87 ON 09/21/84
MINIMUM STORAGE (AF)	1911.10	3096.77	5243.79	2323.29

SAN GABRIEL
DAM & RESERVOIR

WATER YEAR	1984-85	1985-86	1986-87
TOTAL ANNUAL INFLOW (AF)	46633.30	103558.10	22846.70
TOTAL ANNUAL OUTFLOW (AF)	46100.60	100925.50	22918.90
MAX. MEAN DAILY INFLOW (CFS)	617.00	1251.80	149.20
TOTAL ANNUAL LOSSES (AF)	735.70	1180.10	856.00
MIN. MEAN DAILY INFLOW (CFS)	8.50	13.80	3.00
MAX. PEAK INFLOW (CFS): DATE/FROM - TO	742.24 12/19/84 @ 0700-0800	1911.06 01/30/86 @ 1100-1200	259.33 01/05/87 @ 2300-2400
MAX. PEAK OUTFLOW (CFS): DATE/FROM - TO	578.90 ; 01/10/85 @ 1500 TO 01/13/85 @ 1500	1153.00 ; 02/24/86 @ 1600 TO 02/25/86 @ 0800	90.90 05/14/87 @ 1000-1115
ANNUAL STORAGE CHANGE (AF)	-203.00	1452.50	-928.20
MAX. W.S. ELEVATION (FT)	1373.62 ON 01/07/85	1402.72 ON 04/08/86	1344.10 ON 05/14/87
MAXIMUM STORAGE (AF)	12561.66	21909.94	5339.00
MIN. W.S. ELEVATION (FT)	1298.95 ON 06/09/85	1325.44 ON 10/03/85	1327.51 ON 09/09/87
MINIMUM STORAGE (AF)	278.62	2383.27	2674.23

BIG DALTON DAM AND RESERVOIR



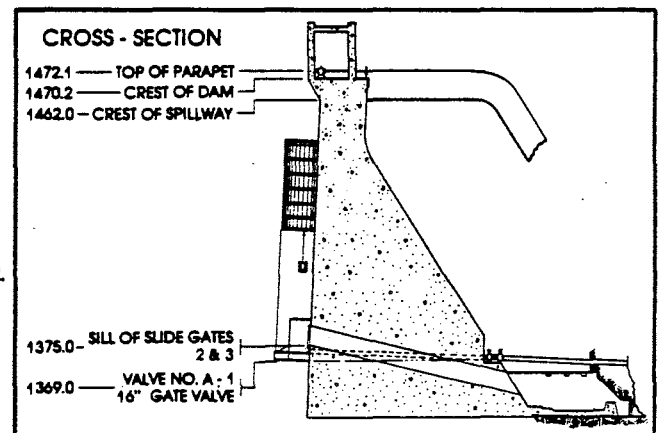
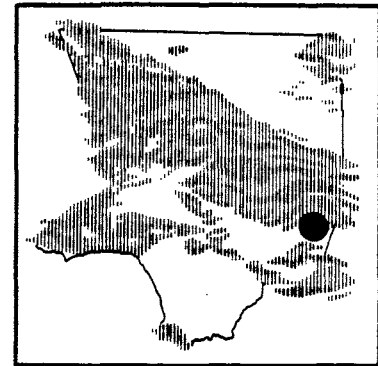
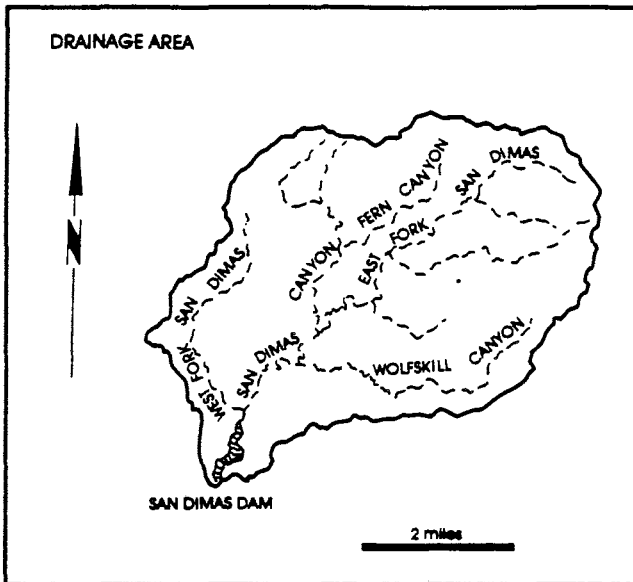
PURPOSE - Flood Control and Conservation.
DATE CONSTRUCTED - Started December 1927. Completed August 1929.
LOCATION - Big Dalton Canyon, 4.0 miles northeast of Glendora.
DRAINAGE AREA - 4.5 square miles.
CAPACITY - 963 acre - feet.
SPILLWAY ELEVATION - 1,706.0 feet.

WATER YEAR	1980-81	1981-82	1982-83	1983-84
TOTAL ANNUAL INFLOW (AF)	348.50	1018.00	5562.00	703.00
TOTAL ANNUAL OUTFLOW (AF)	364.20	922.60	5531.90	703.80
MAX. MEAN DAILY INFLOW (CFS)	5.40	50.30	240.20	7.50
TOTAL ANNUAL LOSSES (AF)	7.30	17.50	15.80	21.40
MIN. MEAN DAILY INFLOW (CFS)	0.00	0.00	0.00	0.00
MAX. PEAK INFLOW (CFS): DATE/FROM - TO	28.62 01/29/81 @ 1400-1500	52.97 03/17/82 @ 0200-0300	349.64 03/01/83 @ 1300-1400	15.55 12/25/83 @ 1000-1100
MAX. PEAK OUTFLOW (CFS): DATE/FROM - TO	22.20 01/29/81 @ 1230-1330	21.70 03/24/82 @ 2300-2400	457.00 03/01/83 @ 2030-2130	7.70 12/25/83 @ 1345-1445
ANNUAL STORAGE CHANGE (AF)	-23.00	77.90	14.30	-22.20
MAX. W.S. ELEVATION (FT)	1641.80 ON 03/02/81	1660.97 ON 03/20/82	1675.30 ON 03/01/83	1642.50 ON 10/02/83
MAXIMUM STORAGE (AF)	28.10	224.82	365.00	95.80
MIN. W.S. ELEVATION (FT)	1631.00 - DRY	1574.00 - DRY	1630.20 ON 06/21/83	1632.27 ON 02/21/84
MINIMUM STORAGE (AF)	0.00	0.00	53.20	59.00

BIG DALTON
DAM & RESERVOIR

WATER YEAR	1984-85	1985-86	1986-87
TOTAL ANNUAL INFLOW (AF)	610.80	885.90	202.60
TOTAL ANNUAL OUTFLOW (AF)	584.70	864.50	195.80
MAX. MEAN DAILY INFLOW (CFS)	9.50	20.20	4.10
TOTAL ANNUAL LOSSES (AF)	15.60	18.90	15.00
MIN. MEAN DAILY INFLOW (CFS)	0.00	0.00	0.00
MAX. PEAK INFLOW (CFS): DATE/FROM - TO	15.55 : 12/19/84 @ 1000-1100	26.30 : 03/16/86 @ 1400-1500	2.60 : 01/04/87 @ 1100-1200
MAX. PEAK OUTFLOW (CFS): DATE/FROM - TO	10.60 : 12/19/84 @ 1600-1700	17.70 : 03/19/86 @ 1430-1530	6.98 : 01/27/87 @ 0945-1045
ANNUAL STORAGE CHANGE (AF)	10.50	2.50	-8.20
MAX. W.S. ELEVATION (FT)	1639.50 ON 12/29/84	1645.36 ON 03/19/86	1639.70 ON 02/23/87
MAXIMUM STORAGE (AF)	83.50	108.80	84.30
MIN. W.S. ELEVATION (FT)	1630.36 ON 12/24/84	1632.33 ON 04/07/86	1633.29 ON 06/24/87
MINIMUM STORAGE (AF)	53.66	59.20	62.07

SAN DIMAS DAM AND RESERVOIR



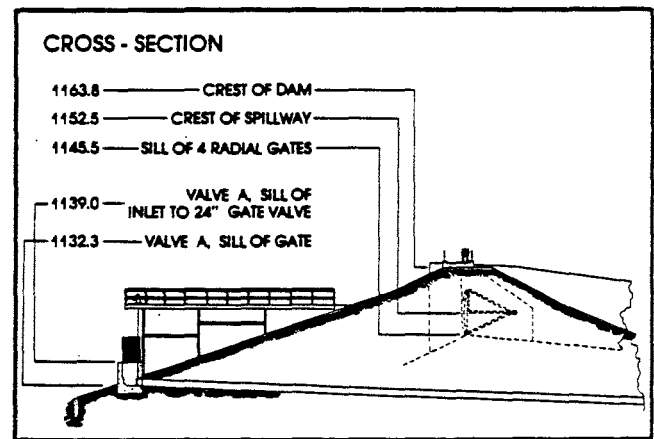
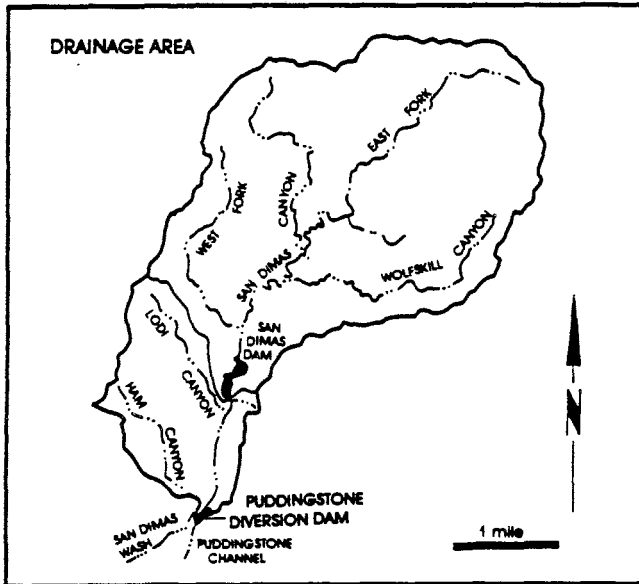
PURPOSE - Flood Control and Conservation.
DATE CONSTRUCTED - Started November 1920. Completed September 1922.
LOCATION - 3.0 miles northeast of San Dimas.
DRAINAGE AREA - 16.2 square miles.
CAPACITY - 1,515 acre-feet.
SPILLWAY ELEVATION - 1,462.0 feet.

WATER YEAR	1980-81	1981-82	1982-83	1983-84
TOTAL ANNUAL INFLOW (AF)	3015.50	3848.30	17631.80	3816.40
TOTAL ANNUAL OUTFLOW (AF)	3215.90	3699.60	17381.10	4330.00
MAX. MEAN DAILY INFLOW (CFS)	36.80	161.40	526.90	55.20
TOTAL ANNUAL LOSSES (AF)	143.70	106.70	130.30	118.90
MIN. MEAN DAILY INFLOW (CFS)	0.80	0.20	0.00	0.00
MAX. PEAK INFLOW (CFS): DATE/FROM - TO	01/29/81 @ 1400-1500 147.01	03/17/82 @ 1600-1700 295.13	03/01/83 @ 1400-1500 1558.84	12/25/83 @ 1300-1400 114.75
MAX. PEAK OUTFLOW (CFS): DATE/FROM - TO	12/01/80 @ 1330-1430 27.00	03/17/82 @ 2207-2307 201.00	03/01/83 @ 1615-1715 883.00	02/28/84 @ 0905-0920 53.20
ANNUAL STORAGE CHANGE (AF)	-344.10	42.00	120.40	-632.50
MAX. W.S. ELEVATION (FT)	1460.71 ON 11/28/80	1460.07 ON 04/05/82	1465.89 ON 03/01/83	1452.75 ON 10/04/83
MAXIMUM STORAGE (AF)	1321.36	1237.47	1421.47	960.95
MIN. W.S. ELEVATION (FT)	1434.10 ON 12/22/80	1435.85 ON 12/17/81	1437.23 ON 10/21/82	1404.72 ON 05/04/84
MINIMUM STORAGE (AF)	535.40	538.06	545.31	40.42

SAN DIMAS
DAM & RESERVOIR

WATER YEAR	1984-85	1985-86	1986-87
TOTAL ANNUAL INFLOW (AF)	2553.70	2401.40	INC.
TOTAL ANNUAL OUTFLOW (AF)	2560.40	2415.10	INC.
MAX. MEAN DAILY INFLOW (CFS)	44.80	54.80	10.14
TOTAL ANNUAL LOSSES (AF)	146.80	64.20	INC.
MIN. MEAN DAILY INFLOW (CFS)	0.60	0.00	0.10
MAX. PEAK INFLOW (CFS): DATE/FROM - TO	66.84 12/19/84 @ 2000-2100	89.38 03/16/86 @ 1600-1700	12.80 01/05/87 @ 0800-1530
MAX. PEAK OUTFLOW (CFS): DATE/FROM - TO	50.70 06/04/85 @ 1447-1502	70.40 06/23/85 @ 0725-0740	19.30 01/04/87 @ 2024-2039
ANNUAL STORAGE CHANGE (AF)	-153.50	-77.90	INC.
MAX. W.S. ELEVATION (FT)	1439.02 ON 06/04/85	1456.60 ON 03/16/86	1403.20 - VARIOUS DAYS
MAXIMUM STORAGE (AF)	587.30	1084.00	95.80
MIN. W.S. ELEVATION (FT)	1405.51 ON 07/11/85	1391.00 - DRY	1389.00 - DRY
MINIMUM STORAGE (AF)	45.16	0.00	0.00

PUDDINGSTONE DIVERSION DAM AND RESERVOIR



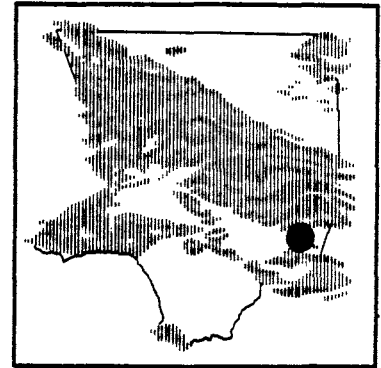
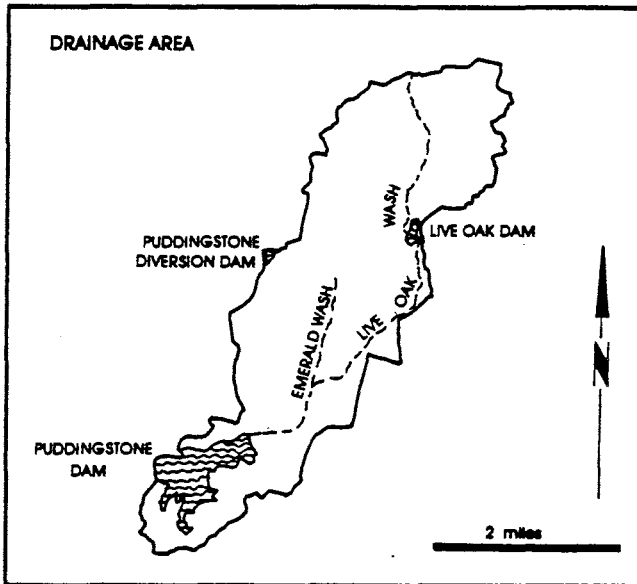
PURPOSE - Flood Control and Diversion of flow and Conservation.
DATE CONSTRUCTED - Started September 1927. Completed July 1928.
LOCATION - 2.0 miles northeast of San Dimas.
DRAINAGE AREA - 3.7 square miles (uncontrolled)
 16.2 square miles (controlled)
 Total 19.9 square miles
CAPACITY - 148 acre feet.
SPILLWAY ELEVATION - 1,152.0 feet.

WATER YEAR	1980-81	1981-82	1982-83	1983-84
TOTAL ANNUAL INFLOW (AF)	2024.60	2856.00	18257.20	3266.70
TOTAL ANNUAL OUTFLOW (AF)	1877.30	2831.30	18272.30	3258.90
MAX. MEAN DAILY INFLOW (CFS)	21.00	121.90	704.50	54.20
TOTAL ANNUAL LOSSES (AF)	143.20	20.10	7.70	19.00
MIN. MEAN DAILY INFLOW (CFS)	0.00	0.00	0.00	0.00
MAX. PEAK INFLOW (CFS): DATE/FROM - TO	44.38 01/29/81 @ 1400-1500	259.90 03/18/82 @ 0100-0200	1866.59 03/01/83 @ 2100-2200	84.43 12/25/83 @ 1200-1300
MAX. PEAK OUTFLOW (CFS): DATE/FROM - TO	24.90 02/04/81 @ 1300-1315	260.00 ; 03/17/82 @ 2330 TO 03/18/82 @ 0130	2000.00 03/01/83 @ 1700-2145	74.00 05/03/84 @ 0935-1030
ANNUAL STORAGE CHANGE (AF)	4.10	4.60	-22.80	-11.20
MAX. W.S. ELEVATION (FT)	1143.34 ON 03/16/81	1146.80 ON 03/17/82	1154.50 ON 03/01/83	1151.53 ON 04/30/84
MAXIMUM STORAGE (AF)	84.85	127.20	226.80	178.49
MIN. W.S. ELEVATION (FT)	1132.00 - DRY	1129.00 - DRY	1133.00 - DRY	1133.00 - DRY
MINIMUM STORAGE (AF)	0.00	0.00	0.00	0.00

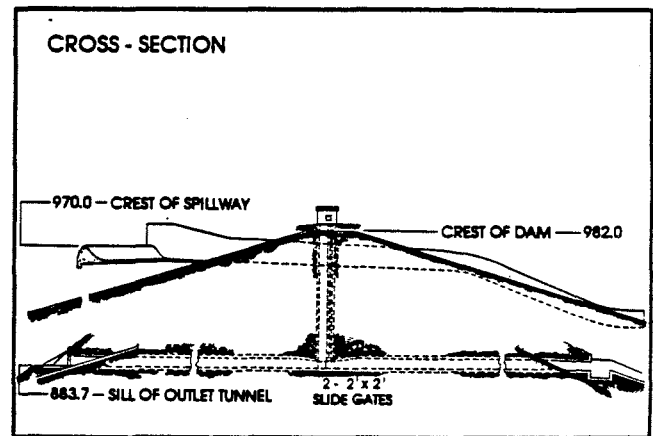
PUDDINGSTONE DIVERSION
DAM & RESERVOIR

WATER YEAR	1984-85	1985-86	1986-87
TOTAL ANNUAL INFLOW (AF)	1352.80	1323.80	686.30
TOTAL ANNUAL OUTFLOW (AF)	1294.00	1200.90	702.20
MAX. MEAN DAILY INFLOW (CFS)	36.60	98.80	18.20
TOTAL ANNUAL LOSSES (AF)	46.30	87.30	0.70
MIN. MEAN DAILY INFLOW (CFS)	0.00	0.00	0.00
MAX. PEAK INFLOW (CFS): DATE/FROM - TO	39.91 12/18/84 @ 1300-1400	104.30 03/16/86 @ 1400-1500	48.86 01/04/87 @ 1200-1300
MAX. PEAK OUTFLOW (CFS): DATE/FROM - TO	21.80 12/27/84 @ 1245-1300	80.70 03/17/86 @ 0730-1530	15.70 01/05/87 @ 1415-1430
ANNUAL STORAGE CHANGE (AF)	12.50	35.60	-16.60
MAX. W.S. ELEVATION (FT)	1151.61 ON 06/12/85	1152.32 ON 04/25/86	1141.09 ON 01/05/87
MAXIMUM STORAGE (AF)	179.86	191.75	53.87
MIN. W.S. ELEVATION (FT)	1133.00 - DRY	1133.00 - DRY	1133.00 - DRY
MINIMUM STORAGE (AF)	0.00	0.00	0.00

PUDDINGSTONE DAM AND RESERVOIR



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.

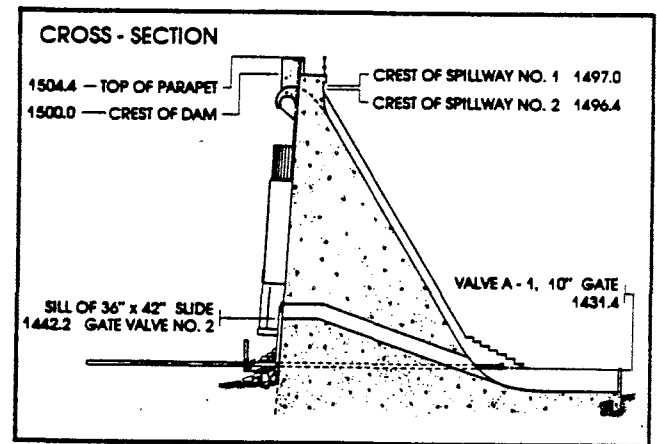
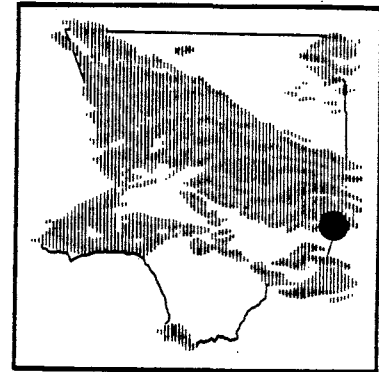
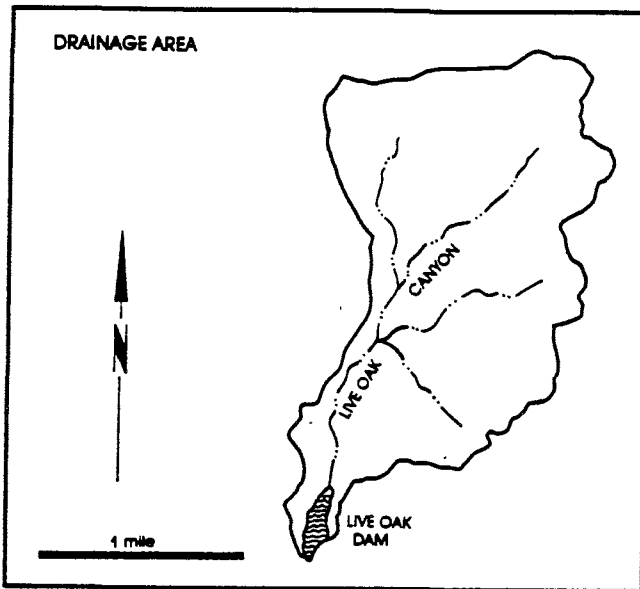


WATER YEAR	1980-81	1981-82	1982-83	1983-84
TOTAL ANNUAL INFLOW (AF)	2115.20	4731.30	15955.80	2791.00
TOTAL ANNUAL OUTFLOW (AF)	514.50	2598.40	15238.20	2048.30
MAX. MEAN DAILY INFLOW (CFS)	153.70	349.90	764.20	192.40
TOTAL ANNUAL LOSSES (AF)	1706.10	1317.40	1292.60	1393.10
MIN. MEAN DAILY INFLOW (CFS)	0.00	0.00	0.00	0.00
MAX. PEAK INFLOW (CFS): DATE/FROM - TO	1131.47 01/29/81 ● 1400-1500	809.55 03/18/82 ● 0000-0100	2569.76 03/01/83 ● 1200-1300	1159.30 12/25/83 ● 1300-1400
MAX. PEAK OUTFLOW (CFS): DATE/FROM - TO	34.20 03/01/81 ● 1300-1400	573.00 03/18/82 ● 0400-0500	622.00 03/01/83 ● 0315-0415	255.00 02/24/84 ● 1230-1245
ANNUAL STORAGE CHANGE (AF)	-105.40	815.50	-575.00	-650.40
MAX. W.S. ELEVATION (FT)	944.16 ON 03/02/81	944.75 ON 03/17/82	945.83 ON 03/03/83	942.77 ON 12/06/83
MAXIMUM STORAGE (AF)	7170.83	7327.19	7615.05	6809.90
MIN. W.S. ELEVATION (FT)	939.61 ON 09/30/81	938.96 ON 11/26/82	939.01 - VARIOUS DAYS	937.53 ON 09/16/84
MINIMUM STORAGE (AF)	6020.42	5863.23	5874.42	5525.95

PUDDINGSTONE
DAM & RESERVOIR

WATER YEAR	1984-85	1985-86	1986-87
TOTAL ANNUAL INFLOW (AF)	2688.30	4887.50	1989.40
TOTAL ANNUAL OUTFLOW (AF)	873.20	3149.90	1118.00
MAX. MEAN DAILY INFLOW (CFS)	143.10	240.70	291.30
TOTAL ANNUAL LOSSES (AF)	1337.60	1369.80	1340.40
MIN. MEAN DAILY INFLOW (CFS)	0.00	0.00	0.00
MAX. PEAK INFLOW (CFS): DATE/FROM - TO	235.52 12/18/84 @ 1300-1500	1057.62 03/16/86 @ 0900-1000	853.59 01/04/87 @ 1300-1400
MAX. PEAK OUTFLOW (CFS): DATE/FROM - TO	216.00 01/13/85 @ 0300-0315	298.00 03/16/86 @ 1100-1115	189.00 08/06/87 @ 0645-0700
ANNUAL STORAGE CHANGE (AF)	477.50	367.80	-469.00
MAX. W.S. ELEVATION (FT)	942.56 ON 01/12/85	944.72 ON 03/16/86	943.47 ON 01/10/87
MAXIMUM STORAGE (AF)	6756.34	7319.28	6943.05
MIN. W.S. ELEVATION (FT)	937.17 ON 11/08/84	938.69 ON 09/24/86	938.16 ON 09/30/87
MINIMUM STORAGE (AF)	5443.21	5798.35	5621.46

LIVE OAK DAM AND RESERVOIR



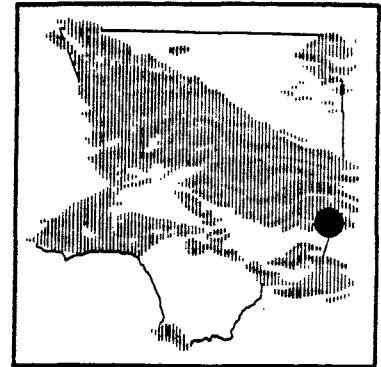
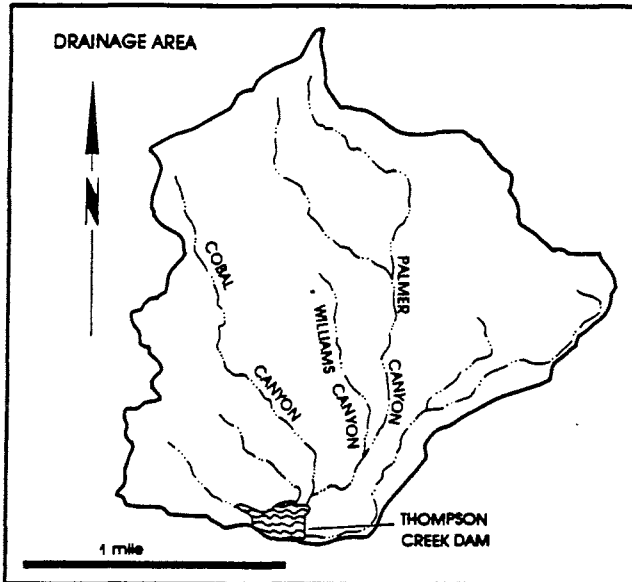
PURPOSE - Flood Control and Conservation.
DATE CONSTRUCTED - Started August 1921. Completed November 1922.
LOCATION - 2.5 miles northeast of La Verne.
DRAINAGE AREA - 2.3 square miles.
CAPACITY - 240 acre-feet.
SPILLWAY ELEVATION - 1,496.0 feet.

WATER YEAR	1980-81	1981-82	1982-83	1983-84
TOTAL ANNUAL INFLOW (AF)	239.90	421.20	1778.40	447.00
TOTAL ANNUAL OUTFLOW (AF)	237.30	421.00	1780.30	448.00
MAX. MEAN DAILY INFLOW (CFS)	2.70	18.50	71.60	11.80
TOTAL ANNUAL LOSSES (AF)	0.00	0.00	0.00	0.20
MIN. MEAN DAILY INFLOW (CFS)	0.00	0.00	0.00	0.00
MAX. PEAK INFLOW (CFS): DATE/FROM - TO	3.62 03/02/81 @ 0700-0800	31.66 03/18/82 @ 0900-0900	144.04 03/01/83 @ 1700-1800	47.26 12/25/83 @ 1200-1300
MAX. PEAK OUTFLOW (CFS): DATE/FROM - TO	3.60 03/03/81 @ 0701-0716	21.00 03/18/82 @ 1107-1207	151.00 03/01/83 @ 1730-1830	2.80 12/25/83 @ 1700-1715
ANNUAL STORAGE CHANGE (AF)	2.60	0.20	-1.90	-1.20
MAX. W.S. ELEVATION (FT)	1460.99 ON 03/02/81	1478.97 ON 04/14/82	1489.40 ON 03/01/83	1463.70 ON 12/27/83
MAXIMUM STORAGE (AF)	10.37	98.93	174.80	26.40
MIN. W.S. ELEVATION (FT)	1452.20 ON 03/24/81	1435.00 - DRY	1439.20 - VARIOUS DAYS	1440.00 - DRY
MINIMUM STORAGE (AF)	0.32	0.00	0.17	0.00

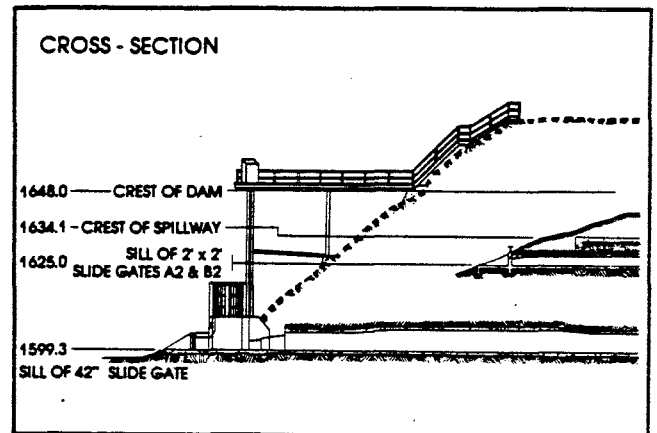
LIVE OAK
DAM & RESERVOIR

WATER YEAR	1984-85	1985-86	1986-87
TOTAL ANNUAL INFLOW (AF)	161.90	192.30	37.30
TOTAL ANNUAL OUTFLOW (AF)	162.10	192.40	37.30
MAX. MEAN DAILY INFLOW (CFS)	3.60	4.40	0.80
TOTAL ANNUAL LOSSES (AF)	0.40	0.00	0.00
MIN. MEAN DAILY INFLOW (CFS)	0.00	0.00	0.00
MAX. PEAK INFLOW (CFS): DATE/FROM - TO	4.53 12/19/84 ● 1700-1800	7.28 02/16/86 ● 0700-0800	10.30 01/04/87 ● 1300-1400
MAX. PEAK OUTFLOW (CFS): DATE/FROM - TO	5.60 12/27/84 ● 0700-0715	1.90 03/25/86 ● 1215-1230	1.20 VARIOUS DAYS
ANNUAL STORAGE CHANGE (AF)	-0.60	-0.10	0.00
MAX. W.S. ELEVATION (FT)	1455.37 ON 01/21/85	1468.60 ON 03/19/86	1451.80 ON 01/05/87
MAXIMUM STORAGE (AF)	7.56	42.90	3.56
MIN. W.S. ELEVATION (FT)	1440.00 - DRY	1440.00 - DRY	1440.00 - DRY
MINIMUM STORAGE (AF)	0.00	0.00	0.00

THOMPSON CREEK DAM AND RESERVOIR



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 feet.



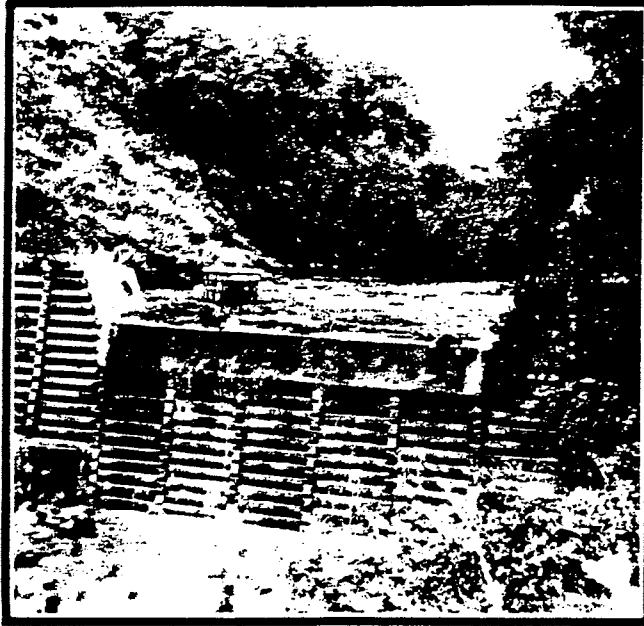
WATER YEAR	1980-81	1981-82	1982-83	1983-84
TOTAL ANNUAL INFLOW (AF)	0.00	61.50	1117.50	69.70
TOTAL ANNUAL OUTFLOW (AF)	0.00	17.70	583.10	11.30
MAX. MEAN DAILY INFLOW (CFS)	0.00	9.40	114.20	2.70
TOTAL ANNUAL LOSSES (AF)	0.00	4.80	376.10	54.20
MIN. MEAN DAILY INFLOW (CFS)	0.00	0.00	0.00	0.00
MAX. PEAK INFLOW (CFS): DATE/FROM - TO	0.00	39.64 03/17/82 @ 0400-0500	377.07 03/01/83 @ 1400-1500	4.11 12/26/83 @ 0800-0900
MAX. PEAK OUTFLOW (CFS): DATE/FROM - TO	0.00	8.30 02/18/82 @ 0915-1015	83.00 03/02/83 @ 1700-1800	11.50 12/28/83 @ 1530-1545
ANNUAL STORAGE CHANGE (AF)	0.00	39.00	158.30	4.20
MAX. W.S. ELEVATION (FT)	1600.00 - DRY	1610.90 ON 04/05/82	1629.80 ON 03/02/83	1604.9 ON 12/27/83
MAXIMUM STORAGE (AF)	0.00	101.80	441.80	23.70
MIN. W.S. ELEVATION (FT)	1600.00 - DRY	1598.00 - DRY	1601.00 - DRY	1600.00 - DRY
MINIMUM STORAGE (AF)	0.00	0.00	0.00	0.00

THOMPSON CREEK
DAM & RESERVOIR

WATER YEAR	1984-85	1985-86	1986-87
TOTAL ANNUAL INFLOW (AF)	0.00	58.40	0.00
TOTAL ANNUAL OUTFLOW (AF)	0.00	58.40	0.00
MAX. MEAN DAILY INFLOW (CFS)	0.00	9.70	0.00
TOTAL ANNUAL LOSSES (AF)	0.00	0.00	0.00
MIN. MEAN DAILY INFLOW (CFS)	0.00	0.00	0.00
MAX. PEAK INFLOW (CFS): DATE/FROM - TO	0.00	27.42 03/16/86 @ 1400-1500	0.00
MAX. PEAK OUTFLOW (CFS): DATE/FROM - TO	0.00	17.00 03/16/86 @ 1645-1700	0.00
ANNUAL STORAGE CHANGE (AF)	0.00	0.00	0.00
MAX. W.S. ELEVATION (FT)	1600.00 - DRY	1602.50 ON 03/18/86	1600.00 - DRY
MAXIMUM STORAGE (AF)	0.00	6.67	0.00
MIN. W.S. ELEVATION (FT)	1600.00 - DRY	1600.00 - DRY	1600.00 - DRY
MINIMUM STORAGE (AF)	0.00	0.00	0.00

EROSION CONTROL





EROSION CONTROL

Each year eroded material in various forms (trees, rock, sand, etc.) flows out of the mountain watersheds of Los Angeles County. In an effort to control this potentially disruptive force, the Department 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 canyon and let the relatively desilted water pass into flood control channels for transportation to a safe location.

From 1981 to 1987, the number of debris basins increased from 96 to 129, yielding a total maximum capacity of 7,643,540 cubic yards.

Records of sediment inflow and excavation at individual debris basins are available in the Hydraulic/Water Conservation Division.

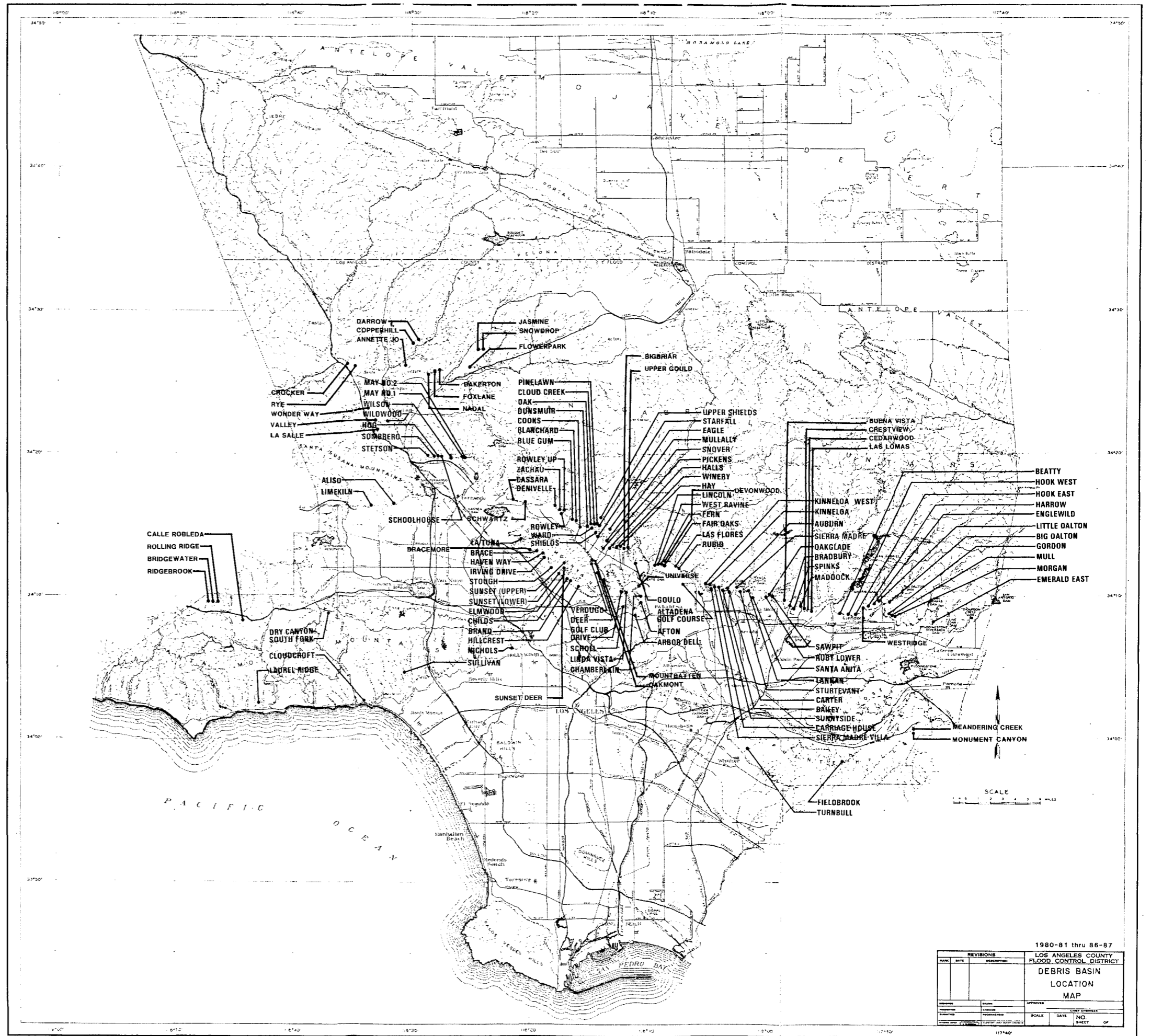
STABILIZATION STRUCTURES

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 Department maintains 225 stabilization structures in 47 major watersheds. No structures have been constructed since the 1973-74 water year.

EMERGENCY STRUCTURES

Emergency structures (rail and timber, and crib type) are constructed to entrap the debris inflow from burned watersheds. They serve to protect the existing structures (road, channel, residence, etc.) located immediately downstream of the watersheds. The Department now has 38 emergency structures with a total maximum capacity of 341,600 cubic yards.



REVISIONS		1980-81 thru 86-87	
NO.	DATE	DESCRIPTION	BY

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT	
DEBRIS BASIN LOCATION MAP	
SCALE	NO. SHEET OF
DATE	NO. SHEET OF

DEBRIS BASIN — DEBRIS PRODUCTION HISTORY THROUGH SEPTEMBER 30, 1987

DEBRIS BASIN	FIRST DEBRIS SEASON	NUMBER OF SEASONS	TOTAL DEBRIS DEPOSITED CU. YDS. (1)	MAX. DEB. CAP. CU. YDS.	MAXIMUM SEASONAL DEBRIS PRODUCTION	
					CU. YDS.	SEASON
Afton	1974 - 75	13	1,030	7,200	800	1974-75
Alliso	1970 - 71	17	131,723	41,700 (5)	30,700	1982-83
Aita Dena Golf Course (10)	1945 - 46	(10)	31,000 (10)	12,400	3,800 (10)	1958-59
Annette Jo	1977 - 78	10	255	200	100	1977-78
Arbor Dell	1971 - 72	16	1,397	12,800	800	1979-80
Auburn	1954 - 55	33	87,386	33,700	20,100	1961-62
Bailey	1945 - 46	42	237,471	135,000	91,000	1979-80
Bakerton	1970 - 71	17	759	2,700	700	1979-80
Barcotta (12)	1970 - 71	(12)	100 (12)	2,000	50 (12)	1982-83
Beatty	1970 - 71	17	13,297	43,000	7,600	1979-80
Bigbriar	1971 - 72	16	1,381	3,100	450	1984-85
Big Dalton	1959 - 60	28	833,003	534,400	296,700	1968-69
Blanchard	1968 - 69	19	67,632	75,300	36,600	1977-78
Blue Gum	1968 - 69	19	37,572	39,600	19,100	1977-78
Brace	1971 - 72	16	35,459	27,500	12,000	1977-78
Bracemare	1971 - 72	16	680 (7)	700	(6)	(6)
Bradbury	1954 - 55	33	267,430	90,500	70,200	1968-69
Brand	1935 - 36	52	248,895	170,700	53,100	1977-78
Bridgewater	(8)	(8)	(8)	(8)	(6)	(6)
Buena Vista	1985 - 86	2	0	25,500	(6)	(6)
Calie Robleda	1982 - 83	5	2,025	7,100	2,000	1982-83
Carriage House	1970 - 71	17	4,742	10,400	3,400	1979-80
Carter	1954 - 55	33	36,890	18,700	12,600	1979-80
Cassara	1976 - 77	11	24,099	35,100	16,800	1977-78
Cedarwood	1983 - 84	4	0	900	(6)	(6)
Chamberlain	1974 - 75	13	556	6,600	300	1974-75
Childs	1963 - 64	24	45,220	49,500	10,700	1980-81
Cloud Creek	1972 - 73	15	3,262	14,800	1,800	1977-78
Cloudcroft	1973 - 74	14	12,290	31,800	6,100	1973-74
Cooks	1951 - 52	36	165,947 (3)	46,900	61,200	1977-78
Copper Hill	1979 - 80	8	1,148	7,900	1,100	1981-82
Coronel (11)	1969 - 70	(11)	(6) (11)	300	(6)	(6)
Crestview	1983 - 84	4	0	5,900	(6)	(6)
Crocker	1983 - 84	4	0	39,200	(6)	(6)
Darrow	1979 - 80	8	412	9,200	400	1982-83
Deer	1954 - 55	33	156,256	56,600	44,200	1968-69
Denivelle	1976 - 77	11	8,660	8,200	5,500	1977-78
Devonwood	1981 - 82	6	132	6,400	100	1982-83
Dry Canyon-South Fork	1978 - 79	9	6,003	7,900	5,300	1979-80
Dunsmuir	1935 - 36	52	346,425	110,900	86,200	1977-78
Eagle	1936 - 37	51	199,315	55,800	41,700	1937-38
El Selinda	(8)	(8)	(8)	1,500	(8)	(8)
Elmwood	1964 - 65	23	49,458	61,900	16,100	1980-81
Emerald-East	1964 - 65	23	8,959	13,200	1,800	1985-86
Englewild	1961 - 62	26	85,119 (2)	50,400	60,200 (2)	1968-69
Fair Oaks	1935 - 36	52	109,020	25,200	15,700	1935-36
Fern	1935 - 36	52	159,554	30,600	23,900	1968-69
Fieldbrook	1974 - 75	13	1,338	2,800	500	1977-78
Flowerpark	1972 - 73	15	1,305	1,300	900	1982-83
Foxlane	1979 - 80	8	719	13,900	700	1979-80
Golf Club Drive	1970 - 71	17	29,191	14,700	11,600	1979-80
Gordon	1973 - 74	14	4,485	16,800	3,800	1977-78
Gould	1947 - 48	40	113,964	49,600	18,000	1965-66
Gould (Upper)	1976 - 77	11	21,628	52,000	10,100	1977-78
Haines (9)	1935 - 36	(9)	204,800 (9)	150,500	51,500 (9)	1937-38
Halls	1935 - 36	52	568,007	89,400	102,100	1937-38
Harrow	1958 - 59	29	78,297 (2)	68,000	63,400 (2)	1968-69
Hart, W. S.	1983 - 84	4	1,329	2,800	1,000	1983-84
Haven Way (10)	1971 - 72	(10)	14,300 (10)	18,800	11,800 (10)	1980-81
Hay	1936 - 37	51	67,164	34,400	18,200	1937-38
Hillicrest	1962 - 63	25	48,589	54,400	11,700	1964-65
Hog	1969 - 70	18	6,434	39,600	3,900	1977-78
Hook East	1968 - 69	19	45,709 (2)	30,700	40,200 (2)	1968-69
Hook West	1970 - 71	17	6,537	39,600	3,600	1979-80
Inverness	1982 - 83	5	252	3,200	300	1982-83
Irving Drive	1974 - 75	13	1,109	2,100	600	1980-81
Jasmine	1976 - 77	11	2,641	5,500	1,100	1982-83
Kinne loa	1964 - 65	23	48,929 (2)	17,200	17,600 (2)	1968-69
Kinne loa-west	1966 - 67	21	58,201 (2)	23,600	22,200 (2)	1968-69
Lannan	1954 - 55	33	84,067	44,600	18,200	1969-70

DEBRIS BASIN	FIRST DEBRIS SEASON	NUMBER OF SEASONS	TOTAL DEBRIS DEPOSITED CU. YDS. (1)	MAX. DEB. CAP. CU. YDS.	MAXIMUM SEASONAL DEBRIS PRODUCTION	
					CU. YDS.	SEASON
La Salle	1979 - 80	8	1,454	14,900	1,200	1982-83
La Tuna	1955 - 56	32	595,914	482,300	172,100	1977-78
Las Flores	1935 - 36	52	213,893	57,600	36,000	1937-38
Las Lomas	1983 - 84	4	35	9,300	(6)	(6)
Las Virgenes	(8)	(8)	(8)	4,000	(8)	(8)
La Tuna	1955 - 56	32	595,914	482,300	172,100	1977-78
Laurel Ridge	1977 - 78	10	997	1,700	400	1985-86
Limekiln	1963 - 64	24	270,549	171,300	42,300	1965-66
Lincoln	1935 - 36	52	126,104	38,400	28,400	1968-69
Linda Vista	1970 - 71	17	10,180	3,200	3,400	1977-78
Little Dalton	1959 - 60	28	905,170	656,500	337,800	1968-69
Maddock	1954 - 55	33	56,244	45,900	16,200	1980-81
May No. 1	1953 - 54	34	202,773	64,000	45,800	1968-69
May No. 2	1953 - 54	34	27,314	10,000	6,200	1966-67
Meandering Creek	1973 - 74	14	1,654	2,500	900	1973-74
Monument Canyon	1981 - 82	6	2,855	6,700	2,600	1981-82
Morgan	1964 - 65	23	30,292	51,100	12,900	1968-69
Mountbatten	1983 - 84	4	0	1,400	(6)	(6)
Mull	1973 - 74	14	1,970	16,000	1,100	1979-80
Mullally	1974 - 75	13	51,721 (4)	12,000	24,400 (4)	1977-78
Nadal	1969 - 70	18	476	1,100	400	1979-80
Nichols	1937 - 38	50	124,862	13,100	21,800	1951-52
Oak	1975 - 76	12	13,258	8,700	6,900	1977-78
Oakglade	1974 - 75	13	1,455	12,300	1,200	1977-78
Oakmount	1984 - 85	3	0	3,400	(6)	(6)
Pickens	1935 - 36	52	713,818	131,400	140,600	1977-78
Pine lawn	1973 - 74	14	5,113	5,800	1,200	1976-77
Ridgebrook	(8)	(8)	(8)	(8)	(6)	(6)
Rolling Ridge	(8)	(8)	(8)	(8)	(6)	(6)
Rowley	1953 - 54	34	75,231 (4)	37,700	16,700 (4)	1977-78
Rowley (Upper)	1976 - 77	11	48,662 (4)	28,800	31,900 (4)	1977-78
Rubio	1943 - 44	44	271,322	127,200	133,000	1979-80
Ruby (Lower)	1955 - 56	32	20,448	28,600	8,300	1968-69
Rye	1981 - 82	6	10,419	19,100	10,000	1981-82
Santa Anita	1959 - 60	28	689,384 (2,3)	393,900	132,000 (2,3)	1961-62
Sawpit	1954 - 55	33	678,599 (2,3)	644,500	233,800 (2,3)	1968-69
Scholl	1945 - 46	42	16,794	11,100	3,500	1968-69
Schoolhouse	1962 - 63	25	33,550	66,700	21,600	1962-63
Schwartz	1976 - 77	11	44,916	45,400	23,400	1977-78
Shields	1937 - 38	50	171,485 (3)	34,800	35,100	1937-38
Sierra Madre	1927 - 28	60	363,695 (2)	133,600	95,200 (2)	1968-69
Sierra Madre Villa	1957 - 58	30	499,733	402,700	118,600	1961-62
Snover	1936 - 37	51	104,294	23,400	21,100	1938-39
Snow Drop	1976 - 77	11	1,700	4,100	1,000	1979-80
Sombrero	1969 - 70	18	5,862	87,900	3,300	1977-78
Spinks	1958 - 59	29	67,086	62,900	16,400	1968-69
Starfall	1973 - 74	14	26,989	18,400	14,200	1977-78
Stetson	1969 - 70	18	5,035	39,000	1,500	1977-78
Stough	1940 - 41	47	159,143	181,200	44,100	1964-65
Sturtevant	1967 - 68	20	1,296	2,300	500	1977-78
Sullivan	1970 - 71	17	89,957	51,000	35,300	1979-80
Sunnyside	1970 - 71	17	1,782	4,300	800	1978-79
Sunset Canyon-Deer	1982 - 83	5	3,678	6,400	3,200	1982-83
Sunset (Lower)	1963 - 64	24	142,169	160,600	29,200	1980-81
Sunset (Upper)	1928 - 29	59	142,392	15,900	27,000	1964-65
Turnbull	1952 - 53	35	50,390 (2)	20,300	15,900 (2)	1968-69
Upper Shields	1976 - 77	11	39,692 (4)	5,700	16,900	1977-78
Valley	1986 - 87	(8)	(8)	4,000	(6)	(6)
Verdugo	1935 - 36	52	806,212	131,000	105,400	1937-38
Ward	1956 - 57	31	51,668	12,400	17,800	1977-78
West Ravine	1935 - 36	52	148,333	46,800	29,900	1937-38
Westridge	1974 - 75	13	200	1,400	(6)	(6)
Wildwood	1967 - 68	20	67,450	22,500	16,700	1977-78
Wilson	1962 - 63	25	217,968	316,900	55,500	1968-69
Winery	1968 - 69	19	22,353	29,200	9,400	1968-69
Wonder Way	1975 - 76	12	35	1,700	NEGL.	1975-76
Zachau	1956 - 57	31	106,174 (4)	38,600	48,100 (4)	1977-78

No. of Active Basins : 129

NOTES:

- (1) VOLUME OF DEBRIS DEPOSITED IN BASINS DOES NOT INCLUDE DEBRIS SLICED THROUGH OPEN PORTS OR NOTCH.
- (2) VOLUME OF DEBRIS DEPOSITED DOES NOT INCLUDE DEBRIS WHICH PASSED OVER SPILLWAY DURING THE STORMS IN 1968-69 SEASON.
- (3) INCLUDING DEBRIS FROM UPSTREAM BASIN OR DAM.
- (4) VOLUME OF DEBRIS DEPOSITED DOES NOT INCLUDE DEBRIS WHICH PASSED OVER SPILLWAY DURING THE STORMS IN 1977-78 SEASON.
- (5) DEBRIS CAPACITY AVAILABLE WITHIN RIGHT OF WAY LIMITS.
- (6) NO SIGNIFICANT MAXIMUM DEBRIS INFLOWS RECORDED.
- (7) NO RECORDS OF DEBRIS DEPOSITION EXIST FOR THE FIRST 9 SEASONS.
- (8) INFORMATION UNAVAILABLE.
- (9) OWNED AND MAINTAINED BY THE CORPS OF ENGINEERS.
- (10) LAST DEBRIS SEASON : 1981-82.
- (11) LAST DEBRIS SEASON : 1982-83.
- (12) LAST DEBRIS SEASON : 1985-86.

WATER QUALITY





WATER QUALITY

Since its conception, the Flood Control District (now Department of Public Works) has actively engaged in operations which have proven indispensable in preserving the integrity of our water resources, both quantity and quality, and has aided in the establishment of regulations or controlling criteria by those agencies so empowered.

Prior to March 1986, monitoring activities in the field of water quality control were conducted by the Water Quality Section of Hydraulic/Water Conservation Division. In March 1986, the responsibilities of conducting such activities were transferred to Waste Management Division as a result of the consolidation. These activities include, among others, the collection of water quality samples, their analyses and the interpretation and reporting of the resulting data.

Areas of involvement include the monitoring of all groundwater basins through the sampling of numerous wells, the monitoring of storm and low water flows at various strategic locations on the major streams or channels, and an assumed or obligated responsibility to monitor the quality effects and subsurface travel of applied storm, imported and reclaimed water at this Department's groundwater recharge areas, specifically the Whittiers Narrows Spreading Grounds area.

The Water Quality Section, together with personnel of other Departmental divisions, also conducts investigations into pollutional problems relative to our facilities, particularly those from industrial discharges, vehicle accidents, ruptured pipelines, or the indiscriminate dumping of various waste products.

The principal objective of these investigations is to determine the degree and apparent source or origin of the pollution and to take the necessary action that will immediately abate the existing problem and possibly provide a means to prevent or limit recurrence.

SURFACE WATER QUALITY

The Surface Water Quality Monitoring Program involves the sampling of dry weather flows of a number of the principal water conveyance systems within the County. Prior to July 1984, samples were collected at 31 stations located on the Los Angeles River, San Gabriel River, Santa Clara River, Rio Hondo Channel, Coyote Creek, Dominguez Channel, Ballona Creek, Centinela Creek, San Jose Creek, Topanga Canyon Channel, Malibu Creek, and Kenter Avenue Drain. Samples were collected monthly at each station and analyzed by the Department's Water Quality Laboratory for major minerals, total dissolved solids (TDS), total hardness, specific conductance, pH, dissolved oxygen demand, coliform, fecal coliform, and enterococci. In addition to these constituents, residual chlorine, total organic carbon (TOC), and chlorinated pesticides, were also determined at selective locations as well as an annual analysis for trace metals such as barium, copper chromium, lead, mercury, nickel, selenium, silver, zinc, iron, and manganese.

In July 1984, the monitoring program was reduced in terms of sampling location and monitoring frequency as well as number of constituents analyzed. The modified program involves collection of monthly/quarterly samples from 21 monitoring stations for pH, total dissolved solids, specific conductance, and dissolved oxygen analyses. In addition, an annual sample is collected from each of the 21 stations for more extensive analyses. Since July 1984, this Department closed its' laboratory and has utilized a contract laboratory to perform all the above analyses.

A selective list of total dissolved solids is shown for some of the sampling locations on the streams and channels monitored under the Surface Water Quality Program. For a conception of the analysis performed on surface flows, a yearly compilation of constituent determination is shown for one (Los Angeles River at Wardlow) of the sampling stations in the program.

This program has been expanded, effective January 1, 1988, to approximate the pre-1984 monthly program with the addition of various organic constituents.

STORM WATER QUALITY

The annual Storm Water Quality Program is a comprehensive sampling of major storm flows at many locations throughout the County. The samples are analyzed for major minerals, specific conductance, suspended solids, pH, dissolved oxygen, biochemical oxygen demand, total coliform, fecal coliform, enterococci, pesticides, herbicides, trace metals, oil and grease, chemical oxygen demand, total organic carbon, and nutrients levels.

In 1984, the number of sampling stations for this program was reduced to 15 including San Gabriel and Rio Hondo Spreading Grounds where samples were collected up to four times annually for extensive analyses including purgeable and non-purgeable organics.

In addition, storm samples are taken at various gaging stations and spreading grounds. The flow data is recorded at the time each sample is taken and these samples are analyzed for specific conductance.

GROUNDWATER QUALITY

The annual sampling of water wells, under a selected scheduling, in five major basins in Los Angeles County comprise the Groundwater Quality Program. The program, initiated in 1970, is coordinated with the State of California Department of Water Resources and the City of Los Angeles Department of Water and Power.

These agencies participate in the obtainment and analysis of samples. All the water wells sampled are active production wells used either for municipal supply irrigation, or for industrial purposes and are selected to represent a general portrayal of basin water quality conditions. The samples taken under this program are analyzed for major mineral, total dissolved solids, electrical conductivity, pH and, in specific cases, phosphate, iron, manganese, fluoride, or boron.

WATER QUALITY DATA ACCESSIBILITY

Data acquired from the various programs are on file in the Water Quality Section. In addition, all data is accessible to any user through STORET, an Environmental Protection Agency computer system that stores, retrieves, and manipulates data using agency code 21CALAFD.

MCC:cr/MARKO

Surface Water Quality Monitoring Selected Surface Station

Table 1 Total Dissolved Solids - Mg/L
1980-81 Season (Dry Weather Flow)

Sampling Location	Oct. '80	Nov. '80	Dec. '80	Jan. '81	Feb. '81	Mar. '81	Apr. '81	May '81	Jun. '81	Jul. '81	Aug. '81	Sep. '81	Average Value
Ballona Creek at Sawtelle Boulevard	884	830	860	860	856	-	788	-	800	-	876	872	847
Coyote Creek at Valley View Street	964 1150	1070 1300	1130 1050	1070 1160	1020 1040	-	852 824	-	972 952	-	912 872	896 872	987 1024
Dominquez Channel Above Vermont	548	432	795	-	696	784	-	988	-	792	716	700	717
L.A. River at Tujunga Avenue Warlow Road Firestone Boulevard	772 848 720	776 792 780	955 800 755	1030 780 715	650 512 504	1068 816 832	-	476 510 432	-	780 808 684	844 796 788	724 740 748	808 740 696
Malibu Creek at Cross Creek Road	1390	1385	1350	1280	1200	-	1096	-	1392	-	1380	1456	1325
Rio Hondo River at Southern Avenue	648	608	790	725	596	492	-	760	-	508	456	480	606
San Clara River at Highway 99	900	888	880	955	920	880	-	900	-	940	980	864	911
San Gabriel River at Spreading Grounds Willow Street	596 796	600 805	588 765	365 744	680 912	-	488 700	-	732 856	-	688 716	568 804	589 789
San Jose Creek at Workman Mill Road	780	920	856	865	768	-	756	-	1004	-	792	800	838

Surface Water Quality Monitoring Selected Surface Station

Table 2 Total Dissolved Solids - Mg/L
1981-82 Season (Dry Weather Flow)

Sampling Location	Oct. '81	Nov. '81	Dec. '81	Jan. '82	Feb. '82	Mar. '82	Apr. '82	May '82	Jun. '82	Jul. '82	Aug. '82	Sep. '82	Average Value
Ballona Creek at Sawtelle Boulevard	836	764	836	868	600	-	-	692	-	732	612	436	708
Coyote Creek at Valley View Street	880 792	888 776	972 996	1072 832	852 800	-	-	1044 1060	-	1048 944	1108 880	900 588	974 852
Dominquez Channel Above Vermont	880	700	428	-	792	540	576	-	568	-	508	508	611
L.A. River at Tujunga Avenue Warlow Road Firestone Boulevard	608 776 776	560 688 712	1000 684 936	- - -	816 780 736	1056 724 704	1020 684 688	-	860 852 788	-	744 864 764	708 608 676	819 740 753
Malibu Creek at Cross Creek Road	1496	1376	1304	1232	1436	-	-	1168	-	1284	1508	1344	1350
Rio Hondo River at Southern Avenue	704	696	608	-	659	532	480	-	764	-	872	484	644
San Clara River at Highway 99	832	912	1012	-	872	828	816	-	804	-	876	812	863
San Gabriel River at Spreading Grounds Willow Street	612 852	600 800	544 832	540 808	340 804	-	-	636 740	-	624 772	652 904	396 632	549 794
San Jose Creek at Workman Mill Road	924	912	1036	988	712	-	-	948	-	1132	1024	892	952

Surface Water Quality Monitoring Selected Surface Station

Table 3 Total Dissolved Solids - Mg/L
1982-83 Season (Dry Weather Flow)

Sampling Location	Oct. '82	Nov. '82	Dec. '82	Jan. '83	Feb. '83	Mar. '83	Apr. '83	May '83	Jun. '83	Jul. '83	Aug. '83	Sep. '83	Average Value
Ballona Creek at Sawtelle Boulevard	1104	872	780	-	765	448	885	860	742	755	540	855	782
Coyote Creek at Valley View Street	1328	1024	947	-	1000	836	1080	845	930	975	820	915	973
	964	848	585	-	815	533	1025	860	788	780	850	895	813
Dominquez Channel Above Vermont	768	400	258	625	660	693	768	616	965	690	586	700	644
L.A. River at Tujunga Avenue Warlow Road Firestone Boulevard	1024	808	350	864	431	403	482	442	845	872	850	800	681
	864	624	228	815	435	462	445	518	760	804	850	768	631
	944	632	268	805	350	473	535	498	775	875	836	828	652
Malibu Creek at Cross Creek Road	1416	1200	950	-	675	481	790	940	1148	1080	1260	1260	1018
Rio Hondo River at Southern Avenue	596	460	125	492	200	265	250	413	565	890	745	650	471
San Clara River at Highway 99	1108	768	818	833	645	536	632	595	810	821	725	768	755
San Gabriel River at Spreading Grounds Willow Street	692	552	473	-	565	180	515	634	655	661	630	760	574
	976	764	544	-	570	-	830	690	780	715	750	710	733
San Jose Creek at Workman Mill Road	1168	824	756	-	595	315	805	894	965	940	914	1025	836

Surface Water Quality Monitoring Selected Surface Station

Table 4 Total Dissolved Solids - Mg/L
1983-84 Season (Dry Weather Flow)

Sampling Location	Oct. '83	Nov. '83	Dec. '83	Jan. '84	Feb. '84	Mar. '84	Apr. '84	May '84	Jun. '84	Jul. '84	Aug. '84	Sep. '84	Average Value
Ballona Creek at Sawtelle Boulevard	940	800	-	780	810	710	700	-	-	-	-	-	790
Coyote Creek at Valley View Street	940 1000	1000 940	- -	910 850	840 950	860 740	850 800	-	-	-	-	-	900 880
Dominquez Channel Above Vermont	950	800	855	880	660	740	600	640	-	-	-	-	766
L.A. River at Tujunga Avenue	980	470	430	1100	830	810	740	700	-	-	-	-	758
Warlow Road	850	620	400	920	660	810	770	690	-	699	713	821	723
Firestone Boulevard	850	640	440	730	770	800	780	820	-	-	676	-	723
Malibu Creek at Cross Creek Road	1300	990	-	940	960	1000	-	-	-	-	-	-	1038
Rio Hondo River at Southern Avenue	610	440	-	970	680	710	480	640	-	-	732	-	658
San Clara River at Highway 99	730	700	650	690	680	690	700	716	-	-	-	-	695
San Gabriel River at Spreading Grounds Willow Street	650 720	590 670	- -	570 750	670 710	560 810	600 790	- -	- -	- -	- -	- -	607 742
San Jose Creek at Workman Mill Road	860	800	-	850	920	880	980	-	-	1006	-	836	902

Surface Water Quality Monitoring Selected Surface Station

Table 5 Total Dissolved Solids - Mg/L
1984-85 Season (Dry Weather Flow)

Sampling Location	Oct. '84	Nov. '84	Dec. '84	Jan. '85	Feb. '85	Mar. '85	Apr. '85	May '85	Jun. '85	Jul. '85	Aug. '85	Sep. '85	Average Value
Ballona Creek at Sawtelle Boulevard	-	-	-	-	-	-	-	-	-	760	-	-	760
Coyote Creek at Orangethorpe Ave. Spring Street	900 1032	- 904	940 790	- 1200	945 1270	- 1400	1050 1250	- 1200	1000 1100	- 990	1050 1150	- 890	981 1098
Dominquez Channel Above Vermont Ave.	-	-	-	-	-	-	-	-	-	540	-	-	540
L.A. River at Warlow Road Firestone Boulevard	706 482	740 -	300 -	510 -	715 -	600 800	790 850	770 -	790 680	540 -	680 560	690 -	653 650
Los Carritos Ch. at Stearns Street	509	470	390	500	435	350	465	540	540	620	410	360	466
Rio Hondo River at Southern Ave. Spreading Grounds	408 620	- 598	- 625	- 395	520 660	- 620	700 -	- 380	780 -	- 570	810 550	- 510	644 553
Santa Monica Cyn. Ch. at Short St.	768	764	875	905	875	920	950	550	950	760	840	910	839
San Gabriel River at Spreading Grounds Spring Street	546 760	526 -	565 590	175 -	590 745	600 -	520 770	570 -	620 680	520 -	- 650	- -	523 699
San Jose Creek at Workman Mill Road	-	-	-	850	-	860	-	630	-	500	-	860	740

Surface Water Quality Monitoring Selected Surface Station

Table 6 Total Dissolved Solids - Mg/L
1985-86 Season (Dry Weather Flow)

Sampling Location	Oct. '85	Nov. '85	Dec. '85	Jan. '86	Feb. '86	Mar. '86	Apr. '86	May '86	Jun. '86	Jul. '86	Aug. '86	Sep. '86	Average Value
Ballona Creek at Sawtelle Boulevard	-	-	-	-	-	-	-	-	-	780	-	-	780
Coyote Creek at Orangethorpe Ave. Spring Street	660 1100	- 1000	1050 1400	- 1100	900 1000	- 830	740 1450	- 1000	700 1150	- 1500	920 1150	-	828 1121
Domínguez Channel Above Vermont Ave.	-	-	-	-	-	-	-	-	-	530	-	-	530
L.A. River at Warlow Road Firestone Boulevard	600 610	550 -	580 730	670 -	620 620	160 -	700 750	710 -	620 740	590 -	630 740	630 -	588 698
Los Cerritos Ch. at Stearns Street	500	470	490	560	390	210	760	520	500	530	550	-	504
Río Hondo River at Southern Ave. Spreading Grounds	640 550	- 610	900 590	- 560	430 530	- 200	850 240	- 450	- 580	- -	800 -	- -	724 479
Santa Monica Cyn. Ch. at Short St.	850	850	950	900	940	850	860	910	850	930	860	840	883
San Gabriel River at Spreading Grounds Spring Street	- 620	- -	520 560	590 -	690 710	420 -	620 680	210 -	450 710	- -	1080 650	- -	573 655
San Jose Creek at Workman Mill Road	-	1380	-	840	-	-	-	950	-	1050	-	-	1055

Surface Water Quality Monitoring Selected Surface Station

Table 7 Total Dissolved Solids - Mg/L
1986-87 Season (Dry Weather Flow)

Sampling Location	Oct. '86	Nov. '86	Dec. '86	Jan. '87	Feb. '87	Mar. '87	Apr. '87	May '87	Jun. '87	Jul. '87	Aug. '87	Sep. '87	Average Value
Ballona Creek at Sawtelle Boulevard	-	-	-	-	-	-	-	-	-	821	-	-	821
Coyote Creek at Orangethorpe Ave. Spring Street	590 880	- 1000	890 1100	- 950	550 910	- 700	1150 1150	- 1200	980 1150	- 896	902 1050	-	844 999
Dominquez Channel Above Vermont Ave.	-	-	-	-	-	-	-	-	-	387	-	-	387
L.A. River at Warlow Road Firestone Boulevard	550 610	550 -	520 620	430 -	560 540	540 -	590 760	630 -	600 620	508 -	590 697	550 -	552 641
Los Cerritos Ch. at Stearns Street	890	380	1700	330	420	350	380	580	630	527	550	700	620
Rio Hondo River at Southern Ave. Spreading Grounds	470 -	- 330	690 510	- 140	510 530	- 210	660 540	- 620	920 500	- 466	825 530	- 530	679 446
Santa Monica Cyn. Ch. at Short St.	790	750	840	790	760	850	840	890	830	779	770	850	812
San Gabriel River at Spreading Grounds Spring Street	540 940	590 -	590 620	200 -	530 680	440 -	520 810	610 -	600 680	624 -	- 798	-	524 755
San Jose Creek at Workman Mill Road	-	850	-	790	-	880	-	990	-	926	-	580	836

Water Quality Analysis

Monthly Monitoring 1980-81 Season (Dry Weather)

Los Angeles River @ Wardlow Road

Constituent mg/l	Oct. '80	Nov. '80	Dec. '80	Jan. '81	Feb. '81	Mar. '81	Apr. '81	May '81	Jun. '81	Jul. '81	Aug. '81	Sep. '81	Average
Hardness	491	371	379	371	258	431	-	287	-	407	409	328	373
Calcium	91.1	99.5	102	144	91.9	130	-	96.0	-	137	156	118	116.6
Magnesium	63.5	29.8	30	2.9	6.9	25.6	-	11.4	-	15.6	4.9	7.9	19.9
Sodium	124	101	90	102	66	92	-	58	-	110	125	112	98
Potassium	10.0	8.4	7.3	6.8	7	7.3	-	6.1	-	14.2	13.1	9.5	9.5
Ammonium-N	0.40	0.12	0.11	0.1	1.7	0.12	-	0.23	-	0.03	0.01	0.01	0.28
Bicarbonate	206	217	214	213	152	219	-	218	-	236	240	203	212
Sulfate	201	233	214	218	146	280	-	113	-	125	285	255	207
Chloride	147	110	106	120	59	95	-	52	-	115	117	104	103
Nitrate-N	8.05	4.47	3.47	4.6	4.62	5.83	-	0.18	-	0.67	1.05	3.28	3.62
Phosphate-P	3.52	2.87	3.2	2.93	2.93	1.08	-	1.92	-	1.27	2.28	1.30	2.17
Dominquez Channel													
Total Dissolved Solids	848	792	800	780	512	816	-	510	-	808	796	740	740
DO	3.8	6.6	10.1	6.0	5.0	9.0	-	9.0	-	11.0	4.0	4.0	7.1
BOD	5.0	5.0	5.0	8.0	8.0	6.0	-	31.0	-	7.0	7.0	7.0	8.6
COD	53	40	35	37	20	21	-	127	-	58	63	63	51
Per 100ml													
Fecal Coliform	800	1.2K	200	1.6K	5.2K	700	700	11K	-	2.7K	400	3.4K	2.72K
Total Coliform	20K	48K	20K	112K	450K	76K	76K	620K	-	170K	250K	630K	239.6K
Fecal Streptococcus	2K	6.7K	4.8K	10K	<1K	<200	<200	9.8K	-	4.4K	900K	2.7K	4.13K
pH	8.0	8.2	8.4	7.8	8.0	8.0	-	8.5	-	8.4	8.3	8.0	8.2
Temperature (F)	70	56	50	46	50	56	-	61	-	79	68	64	60

K = x1000

Water Quality Analysis

Monthly Monitoring 1981-82 Season (Dry Weather)

Los Angeles River @ Wardlow Road

Constituent mg/l	Oct. '81	Nov. '81	Dec. '81	Jan. '82	Feb. '82	Mar. '82	Apr. '82	May '82	Jun. '82	Jul. '82	Aug. '82	Sep. '82	Average
Hardness	371	342	322	-	395	274	346	-	413	-	388	255	345
Calcium	128.8	100.4	91.9	-	112.8	83.8	95.1	-	121	-	117	73.6	102.7
Magnesium	11.8	22.1	22.5	-	27.3	15.6	26.4	-	27.0	-	23.5	17.4	21.5
Sodium	90.0	82.0	118	-	120	85.0	105	-	133	-	138	90.0	106.8
Potassium	8.9	8.5	8.1	-	6.2	6.6	6.1	-	7.5	-	8.8	9.5	7.8
Ammonium-N	0.06	0.17	0.64	-	0.21	3.14	2.56	-	3.32	-	3.02	3.03	1.79
Bicarbonate	245	229	216	-	230	175	205	-	237	-	227	144	212
Sulfate	188	183	183	-	225	145	203	-	221	-	208	158	190
Chloride	88	89	93	-	96	82	101	-	195	-	206	135	121
Nitrate-N	2.91	2.87	4.58	-	2.75	3.14	2.56	-	3.32	-	3.02	3.03	3.13
Phosphate-P	1.23	1.15	1.27	-	1.50	0.17	1.04	-	0.93	-	3.18	0.42	1.21
Total Dissolved Solids	776	688	684	-	780	724	684	-	852	-	864	608	740
DO	7.2	11.0	6.5	-	9.8	13.5	8.5	-	8.7	-	7.1	5.1	8.6
BOD	5.0	8.0	2.0	-	8.0	6.0	2.0	-	3.0	-	4.0	10.0	5.3
COD	30.0	41.0	32.0	-	29.0	40.0	18.0	-	57.0	-	49.0	106	44.4
Per 100ml													
Fecal Coliform	4.8K	4K	3.6K	-	1.2K	900	600	-	1.2K	-	600	210K	25.2K
Total Coliform	140K	17K	320K	-	28K	228K	60K	-	8.4K	-	6K	140K	105.3K
Fecal Streptococcus	18K	2K	6K	-	95K	4K	1.1K	-	600	-	440	11.2K	15.4K
pH	8.1	8.3	8.2	-	8.4	8.7	8.6	-	8.3	-	8.1	7.1	8.2
Temperature (F)	66	63	52	-	50	59	61	-	61	-	70	64	61

K = x1000

Water Quality Analysis

Monthly Monitoring 1982-83 Season (Dry Weather)

Los Angeles River @ Wardlow Road

Constituent mg/l	Oct. '82	Nov. '82	Dec. '82	Jan. '83	Feb. '83	Mar. '83	Apr. '83	May '83	Jun. '83	Jul. '83	Aug. '83	Sep. '83	Average
Hardness	316	323	116	338	221	234	180	184	204	164	217	228	228
Calcium	90.8	92.7	31.0	76.0	49.0	60.0	55.0	55.0	78.0	64.0	87.0	70.9	70.9
Magnesium	21.6	22.2	9.6	36.0	24.0	20.5	19.5	27.0	41.0	42.0	43.5	29.3	29.3
Sodium	83.0	90.0	21.0	78.0	36.0	32.0	46.0	50.0	77.0	92.0	111	69.0	69.0
Potassium	7.5	7.3	3.9	6.2	3.1	2.9	5.3	4.2	5.8	6.0	7.0	5.7	5.7
Ammonium-N	0.16	0.07	0.07	0.04	0.01	0.14	0.81	0.82	0.20	0.33	0.10	0.26	0.26
Bicarbonate	208	185	88	220	152	136	180	184	204	164	240	217	182
Sulfate	183	186	67	113	104	48	42	140	199	210	285	260	153
Chloride	131	128	20	101	33	75	39	34	90	120	108	92	81
Nitrate-N	2.98	2.91	1.47	1.93	1.51	1.22	2.25	1.34	2.44	3.16	0.70	0.50	1.87
Phosphate-P	2.25	1.01	0.61	0.70	0.77	0.08	2.87	1.01	0.13	1.32	0.53	1.50	1.07
Total Dissolved Solids	864	624	228	815	435	462	445	518	760	804	850	768	631
DO	5.0	8.8	8.7	11.5	9.0	8.0	23.0	11.0	12.0	10.0	11.0	12.0	10.8
BOD	9.8	<1.0	8.0	10.0	4.0	13.0	15.0	4.0	5.0	9.0	5.0	4.0	7.9
COD	72	32	76	33	33	11	22	25	50	55	42	49	42
Per 100ml													
Fecal Coliform	480	600	4K	2.8K	700	280	360	38K	3.6K	2.6K	280	240	5K
Total Coliform	2K	2.8K	100K	22K	7.6K	2.4K	2.4K	92K	60K	2.4K	1.2K	2K	25.5K
Fecal Streptococcus	200	900	55K	1.9K	30K	700	400	2.1K	700	11.5K	5.5K	2K	9.2K
pH	8.2	8.5	7.8	8.5	7.9	7.7	9.4	8.4	8.5	8.2	8.4	8.8	8.4
Temperature (F)	61	61	50	-	54	57	59	63	70	80	75	72	59

K = x1000

Water Quality Analysis

Monthly Monitoring 1983-84 Season (Dry Weather)

Los Angeles River @ Wardlow Road

Constituent mg/l	Oct. '83	Nov. '83	Dec. '83	Jan. '84	Feb. '84	Mar. '84	Apr. '84	May '84	Jun. '84	Jul. '84	Aug. '84	Sep. '84	Average
Hardness	461	346	228	427	308	438	376	339	-	-	-	-	365
Calcium	109	89.5	60.9	103	51.1	105	89.5	68.6	-	-	-	-	84.6
Magnesium	45.2	29.4	18.1	40.8	43.2	42.1	36.5	40.2	-	-	-	-	39.9
Sodium	114	79.3	44.3	170	109	115	110	110	-	-	-	-	106
Potassium	6.4	5.0	4.1	5.6	6.6	5.9	6.1	6.4	-	-	-	-	5.8
Ammonium-N	0.05	<0.01	0.03	0.07	<0.01	0.10	0.05	0.05	-	-	-	-	0.06
Bicarbonate	224	215	176	154	137	205	191	181	-	-	-	-	185
Sulfate	327	229	98	340	275	291	300	264	-	-	-	-	266
Chloride	110	64	36	224	89	101	99	104	-	-	-	-	103
Nitrate-N	1.80	1.50	1.40	1.10	0.10	1.90	4.10	0.50	-	-	-	-	1.55
Phosphate-P	0.16	0.19	0.38	0.42	0.11	0.60	0.50	0.10	-	-	-	-	0.31
Total Dissolved Solids	850	620	400	920	660	810	770	690	-	699	713	821	723
DO	15.0	12.0	13.0	25.0	22.0	20.0	19.0	15.0	-	-	-	-	17.6
BOD	5.0	3.0	4.0	3.0	24.0	10.0	5.0	5.0	-	-	-	-	7.4
COD	21	25	28	49	199	57	53	59	-	-	-	-	61
Per 100ml													
Fecal Coliform	360	280	40	<40	40	40	80	80	-	-	-	-	115
Total Coliform	8K	4K	11K	400	400	800	1.2K	10K	-	-	-	-	4.5K
Fecal Streptococcus	6.6K	<100	200	1K	100	100	200	100	-	-	-	-	1.0K
pH	8.7	8.7	8.6	9.5	10.2	9.1	9.6	9.1	-	7.3	8.5	8.8	8.9
Temperature (F)	69	-	60	58	66	64	73	76	-	80	79	79	70

K = x1000

Note: Starting July 1984, the Water Quality Monitoring Program is reduced to monthly samples for Total Dissolved Solids, DO, Specific Conductance and pH analyses, in addition to an annual sample for more extensive analyses.

Water Quality Analysis

Monthly Monitoring 1984-85 Season (Dry Weather)

Los Angeles River @ Wardlow Road

Constituent mg/l	Oct. '84	Nov. '84	Dec. '84	Jan. '85	Feb. '85	Mar. '85	Apr. '85	May '85	Jun. '85	Jul. '85	Aug. '85	Sep. '85	Average
Hardness	-	-	-	-	-	-	-	-	-	365	-	-	369
Calcium	-	-	-	-	-	-	-	-	-	89.1	-	-	89.1
Magnesium	-	-	-	-	-	-	-	-	-	35.0	-	-	35.0
Sodium	-	-	-	-	-	-	-	-	-	113	-	-	113
Potassium	-	-	-	-	-	-	-	-	-	8.6	-	-	8.6
Ammonium-N	-	-	-	-	-	-	-	-	-	0.26	-	-	0.26
Bicarbonate	-	-	-	-	-	-	-	-	-	215	-	-	215
Sulfate	-	-	-	-	-	-	-	-	-	251	-	-	251
Chloride	-	-	-	-	-	-	-	-	-	122	-	-	122
Nitrate-N	-	-	-	-	-	-	-	-	-	0.2	-	-	0.20
Phosphate-P	-	-	-	-	-	-	-	-	-	1.5	-	-	1.50
Total Dissolved Solids	706	740	300	510	715	600	790	770	790	810	680	690	810
DO	-	-	-	-	14.0	17.5	18.0	19.0	10.0	10.4	14.0	9.6	14.1
BOD	-	-	-	-	-	-	-	-	-	4.0	-	-	4.0
COD	-	-	-	-	-	-	-	-	-	-	-	-	-
Per 100ml Fecal Coliform	-	-	-	-	-	-	-	-	-	1.6K	-	-	1.6K
Total Coliform	-	-	-	-	-	-	-	-	-	>2.4K	-	-	>2.4K
Fecal Streptococcus	-	-	-	-	-	-	-	-	-	-	-	-	-
pH	8.4	8.9	8.3	7.7	8.7	9.9	8.0	9.4	7.9	8.5	8.6	7.8	8.5
Temperature (F)	68	68	58	52	52	72	74	66	66	72	70	66	65

K = x1000

Note: Starting July 1984, the Water Quality Monitoring Program is reduced to monthly samples for Total Dissolved Solids, DO, Specific Conductance and pH analyses, in addition to an annual sample for more extensive analyses.

Water Quality Analysis

Monthly Monitoring 1985-86 Season (Dry Weather)

Los Angeles River @ Wardlow Road

Constituent mg/l	Oct. '85	Nov. '85	Dec. '85	Jan. '86	Feb. '86	Mar. '86	Apr. '86	May '86	Jun. '86	Jul. '86	Aug. '86	Sep. '86	Average
Hardness	-	-	-	-	-	-	-	-	-	286	-	-	286
Calcium	-	-	-	-	-	-	-	-	-	72.4	-	-	72.4
Magnesium	-	-	-	-	-	-	-	-	-	25.2	-	-	25.2
Sodium	-	-	-	-	-	-	-	-	-	88.3	-	-	88.3
Potassium	-	-	-	-	-	-	-	-	-	8.0	-	-	8.0
Ammonium-N	-	-	-	-	-	-	-	-	-	0.21	-	-	0.21
Bicarbonate	-	-	-	-	-	-	-	-	-	140	-	-	140
Sulfate	-	-	-	-	-	-	-	-	-	194	-	-	194
Chloride	-	-	-	-	-	-	-	-	-	95	-	-	95
Nitrate-N	-	-	-	-	-	-	-	-	-	0.09	-	-	0.09
Phosphate-P	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids	600	550	580	670	620	160	700	710	620	590	630	630	588
DO	12.2	17.0	12.0	15.0	11.4	7.0	15.6	10.4	6.2	-	9.8	9.8	11.5
BOD	-	-	-	-	-	-	-	-	-	-	-	-	-
COD	-	-	-	-	-	-	-	-	-	-	-	-	-
Per 100ml													
Fecal Coliform	-	-	-	-	-	-	-	-	-	33	-	-	<2
Total Coliform	-	-	-	-	-	-	-	-	-	33	-	-	33
Fecal Streptococcus	-	-	-	-	-	-	-	-	-	-	-	-	-
pH	9.3	9.7	9.0	9.3	8.5	7.6	9.8	8.8	9.7	9.4	9.4	9.2	9.1
Temperature (F)	72	64	60	64	60	50	56	70	68	70	72	72	78

K = x1000

Note: Starting July 1984, the Water Quality Monitoring Program is reduced to monthly samples for Total Dissolved Solids, DO, Specific Conductance and pH analyses, in addition to an annual sample for more extensive analyses.

Water Quality Analysis

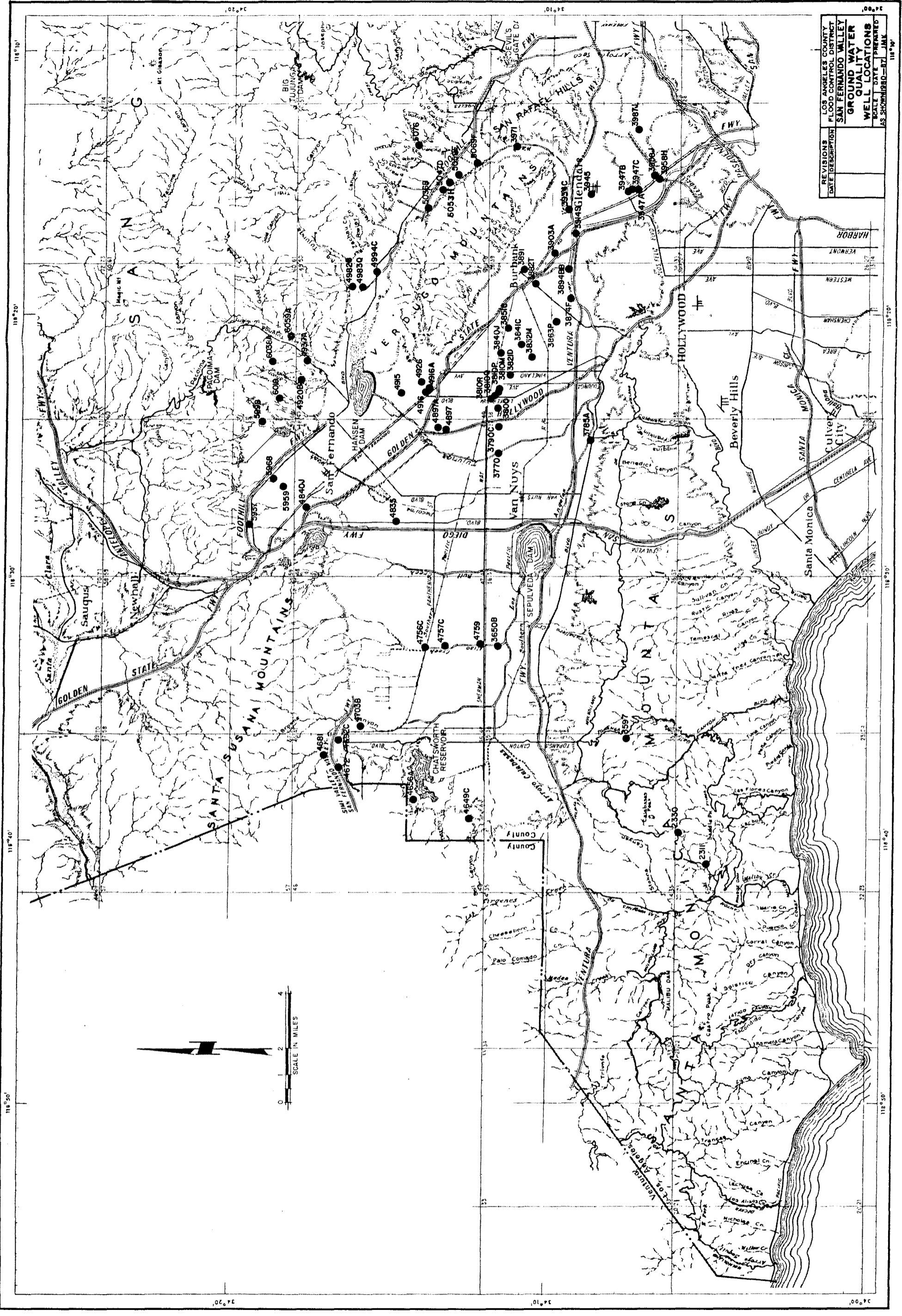
Monthly Monitoring 1986-87 Season (Dry Weather)

Los Angeles River @ Wardlow Road

Constituent mg/l	Oct. '86	Nov. '86	Dec. '86	Jan. '87	Feb. '87	Mar. '87	Apr. '87	May '87	Jun. '87	Jul. '87	Aug. '87	Sep. '87	Average
Hardness	-	-	-	-	-	-	-	-	-	221	-	-	221
Calcium	-	-	-	-	-	-	-	-	-	58.0	-	-	58.0
Magnesium	-	-	-	-	-	-	-	-	-	18.1	-	-	18.1
Sodium	-	-	-	-	-	-	-	-	-	101	-	-	101
Potassium	-	-	-	-	-	-	-	-	-	10.1	-	-	10.1
Ammonium-N	-	-	-	-	-	-	-	-	-	0.11	-	-	0.11
Bicarbonate	-	-	-	-	-	-	-	-	-	97	-	-	97
Sulfate	-	-	-	-	-	-	-	-	-	160	-	-	160
Chloride	-	-	-	-	-	-	-	-	-	86	-	-	86
Nitrate-N	-	-	-	-	-	-	-	-	-	17.0	-	-	17.0
Phosphate-P	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids	550	550	520	430	560	540	590	630	600	508	590	550	552
DO	-	-	-	-	-	-	-	-	-	12.4	-	-	12.4
BOD	-	-	-	-	-	-	-	-	-	-	-	-	-
COD	-	-	-	-	-	-	-	-	-	-	-	-	-
Per 100ml													
Fecal Coliform	-	-	-	-	-	-	-	-	-	<2	-	-	<2
Total Coliform	-	-	-	-	-	-	-	-	-	<2	-	-	<2
Fecal Streptococcus	-	-	-	-	-	-	-	-	-	-	-	-	-
pH	9.4	9.7	9.3	8.0	9.8	9.4	9.5	8.0	9.7	9.3	9.2	9.3	9.2
Temperature (F)	72	66	54	44	54	54	72	78	83	82	78	84	82

K = x1000

Note: Starting July 1984, the Water Quality Monitoring Program is reduced to monthly samples for Total Dissolved Solids, DO, Specific Conductance and pH analyses, in addition to an annual sample for more extensive analyses.

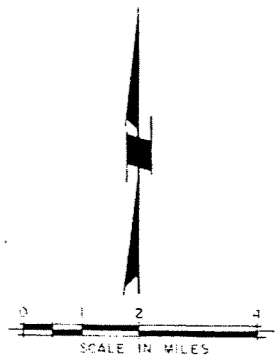
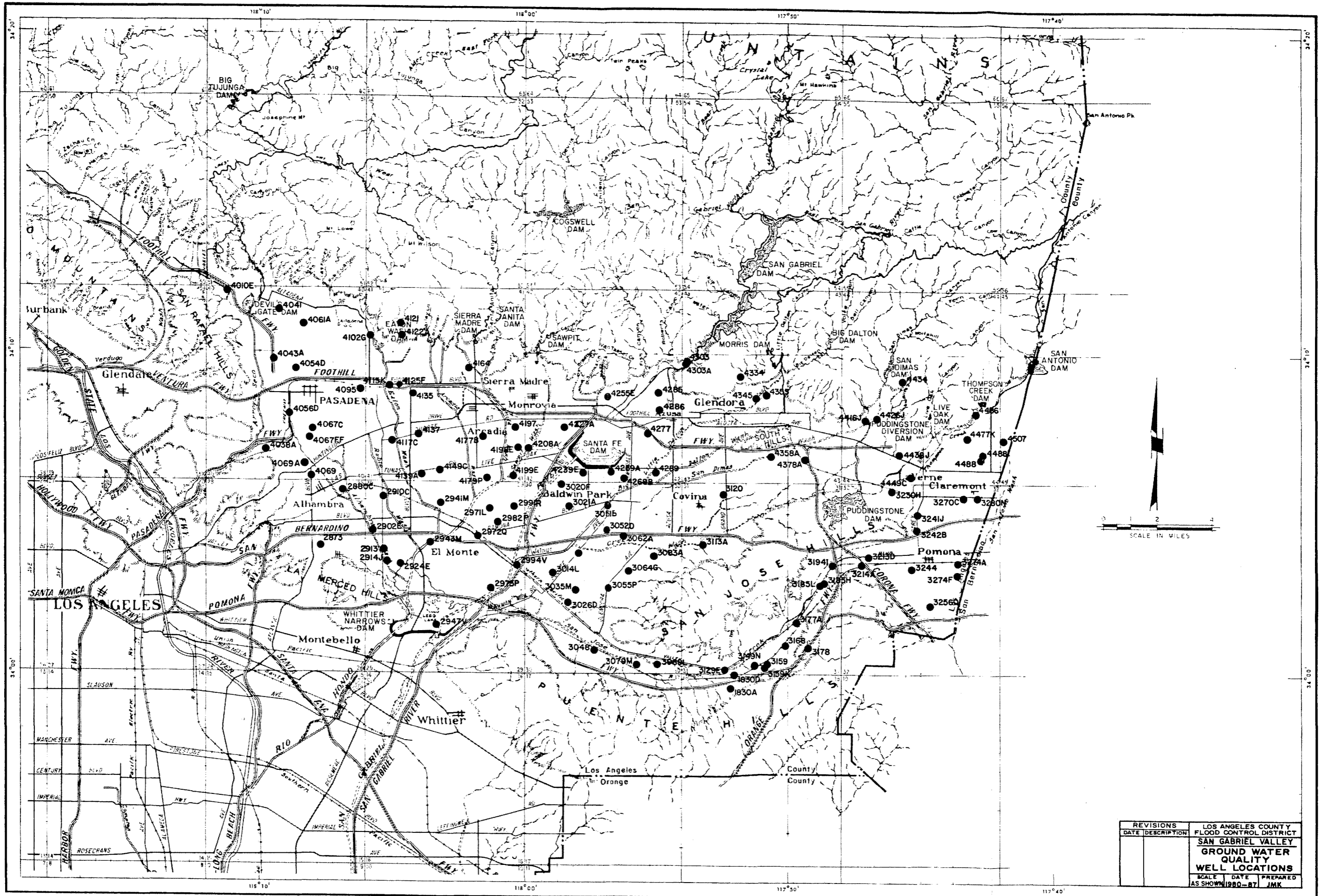


REVISIONS	LOS ANGELES COUNTY
DATE DESCRIPTION	FLOOD CONTROL DISTRICT
	SAN FERNANDO VALLEY
	GROUND WATER
	QUALITY
	WELL LOCATIONS
	SCALE DATE PREPARED
	AS SHOWN 1980-B71 JMK

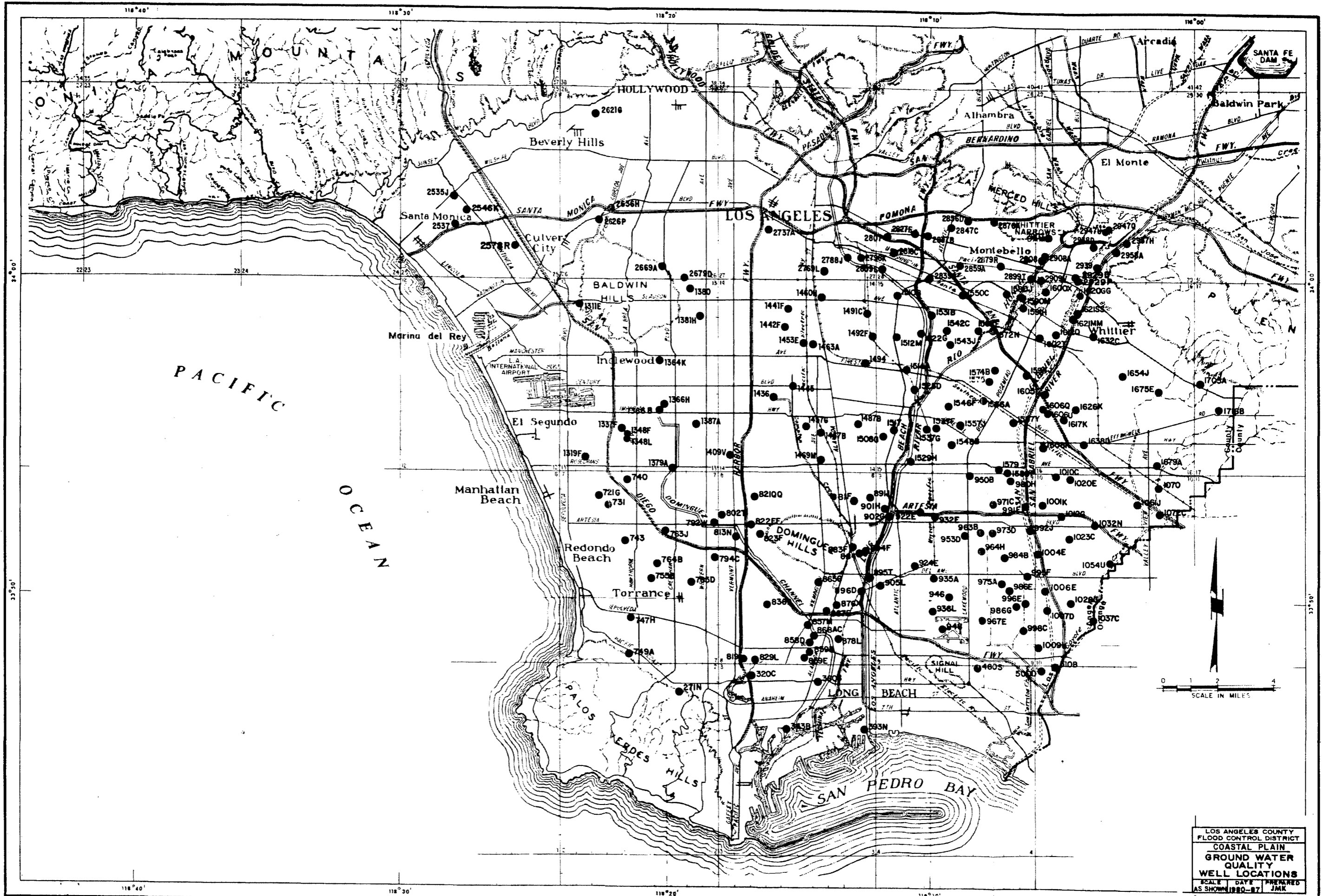


SCALE IN MILES
0 1 2 4

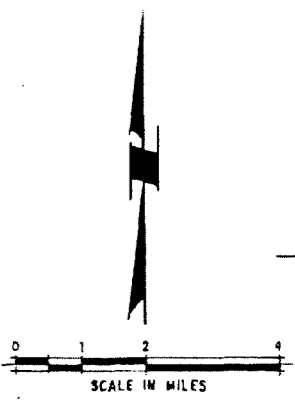
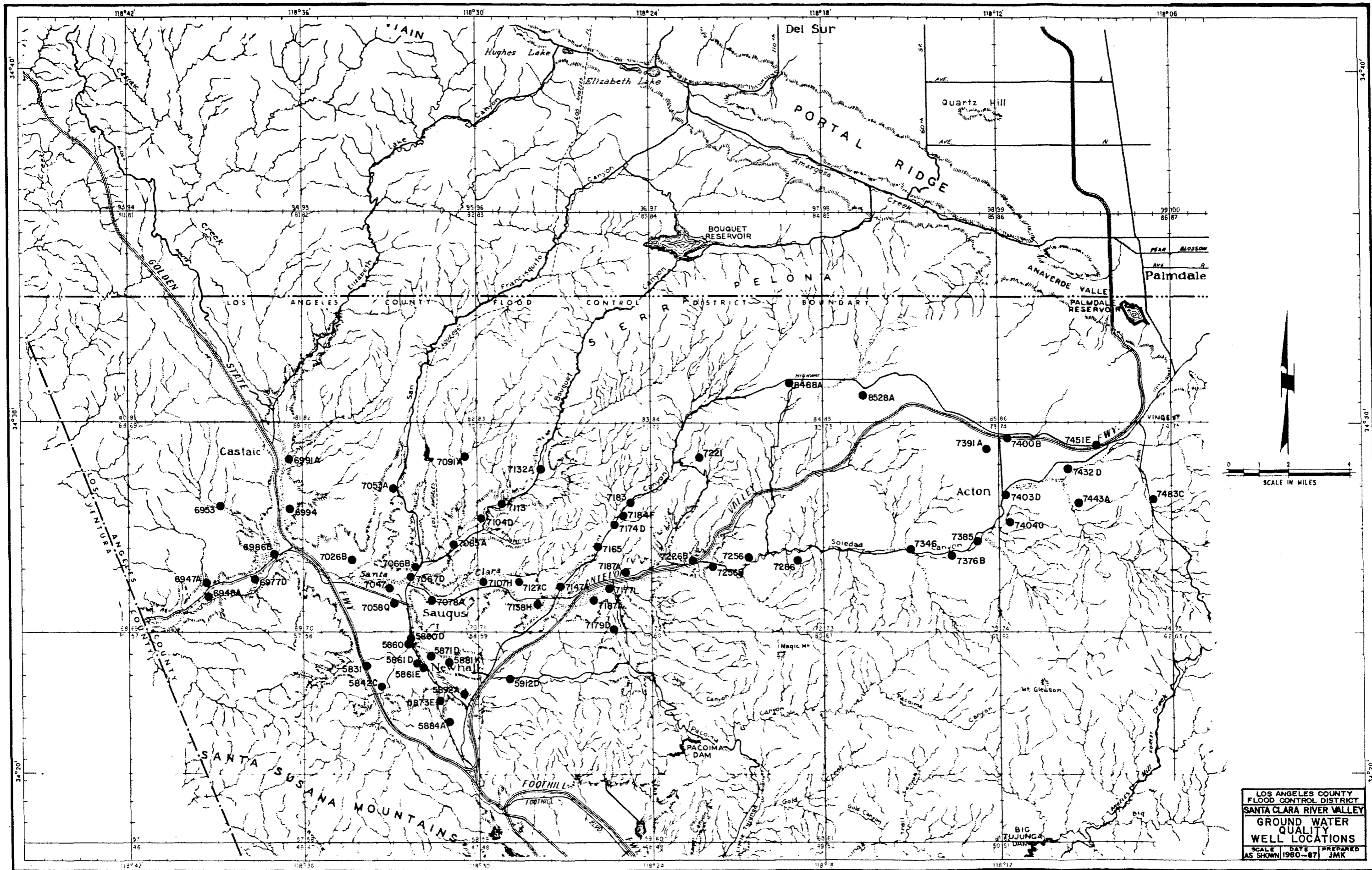
Map labels include: Golden State, Santa Susana Mountains, San Fernando, Van Nuys, Hollywood, Beverly Hills, Santa Monica, Culver City, San Gabriel Mountains, San Rafael Hills, Pacific Ocean, and various freeways (Golden State, San Diego, Hollywood, Ventura, Santa Monica). Well locations are marked with alphanumeric codes such as 4755C, 4757C, 4759, 3650B, 4649C, 4581, 4582, 4583, 4584, 4585, 4586, 4587, 4588, 4589, 4590, 4591, 4592, 4593, 4594, 4595, 4596, 4597, 4598, 4599, 4600, 4601, 4602, 4603, 4604, 4605, 4606, 4607, 4608, 4609, 4610, 4611, 4612, 4613, 4614, 4615, 4616, 4617, 4618, 4619, 4620, 4621, 4622, 4623, 4624, 4625, 4626, 4627, 4628, 4629, 4630, 4631, 4632, 4633, 4634, 4635, 4636, 4637, 4638, 4639, 4640, 4641, 4642, 4643, 4644, 4645, 4646, 4647, 4648, 4649, 4650, 4651, 4652, 4653, 4654, 4655, 4656, 4657, 4658, 4659, 4660, 4661, 4662, 4663, 4664, 4665, 4666, 4667, 4668, 4669, 4670, 4671, 4672, 4673, 4674, 4675, 4676, 4677, 4678, 4679, 4680, 4681, 4682, 4683, 4684, 4685, 4686, 4687, 4688, 4689, 4690, 4691, 4692, 4693, 4694, 4695, 4696, 4697, 4698, 4699, 4700, 4701, 4702, 4703, 4704, 4705, 4706, 4707, 4708, 4709, 4710, 4711, 4712, 4713, 4714, 4715, 4716, 4717, 4718, 4719, 4720, 4721, 4722, 4723, 4724, 4725, 4726, 4727, 4728, 4729, 4730, 4731, 4732, 4733, 4734, 4735, 4736, 4737, 4738, 4739, 4740, 4741, 4742, 4743, 4744, 4745, 4746, 4747, 4748, 4749, 4750, 4751, 4752, 4753, 4754, 4755, 4756, 4757, 4758, 4759, 4760, 4761, 4762, 4763, 4764, 4765, 4766, 4767, 4768, 4769, 4770, 4771, 4772, 4773, 4774, 4775, 4776, 4777, 4778, 4779, 4780, 4781, 4782, 4783, 4784, 4785, 4786, 4787, 4788, 4789, 4790, 4791, 4792, 4793, 4794, 4795, 4796, 4797, 4798, 4799, 4800, 4801, 4802, 4803, 4804, 4805, 4806, 4807, 4808, 4809, 4810, 4811, 4812, 4813, 4814, 4815, 4816, 4817, 4818, 4819, 4820, 4821, 4822, 4823, 4824, 4825, 4826, 4827, 4828, 4829, 4830, 4831, 4832, 4833, 4834, 4835, 4836, 4837, 4838, 4839, 4840, 4841, 4842, 4843, 4844, 4845, 4846, 4847, 4848, 4849, 4850, 4851, 4852, 4853, 4854, 4855, 4856, 4857, 4858, 4859, 4860, 4861, 4862, 4863, 4864, 4865, 4866, 4867, 4868, 4869, 4870, 4871, 4872, 4873, 4874, 4875, 4876, 4877, 4878, 4879, 4880, 4881, 4882, 4883, 4884, 4885, 4886, 4887, 4888, 4889, 4890, 4891, 4892, 4893, 4894, 4895, 4896, 4897, 4898, 4899, 4900, 4901, 4902, 4903, 4904, 4905, 4906, 4907, 4908, 4909, 4910, 4911, 4912, 4913, 4914, 4915, 4916, 4917, 4918, 4919, 4920, 4921, 4922, 4923, 4924, 4925, 4926, 4927, 4928, 4929, 4930, 4931, 4932, 4933, 4934, 4935, 4936, 4937, 4938, 4939, 4940, 4941, 4942, 4943, 4944, 4945, 4946, 4947, 4948, 4949, 4950, 4951, 4952, 4953, 4954, 4955, 4956, 4957, 4958, 4959, 4960, 4961, 4962, 4963, 4964, 4965, 4966, 4967, 4968, 4969, 4970, 4971, 4972, 4973, 4974, 4975, 4976, 4977, 4978, 4979, 4980, 4981, 4982, 4983, 4984, 4985, 4986, 4987, 4988, 4989, 4990, 4991, 4992, 4993, 4994, 4995, 4996, 4997, 4998, 4999, 5000.



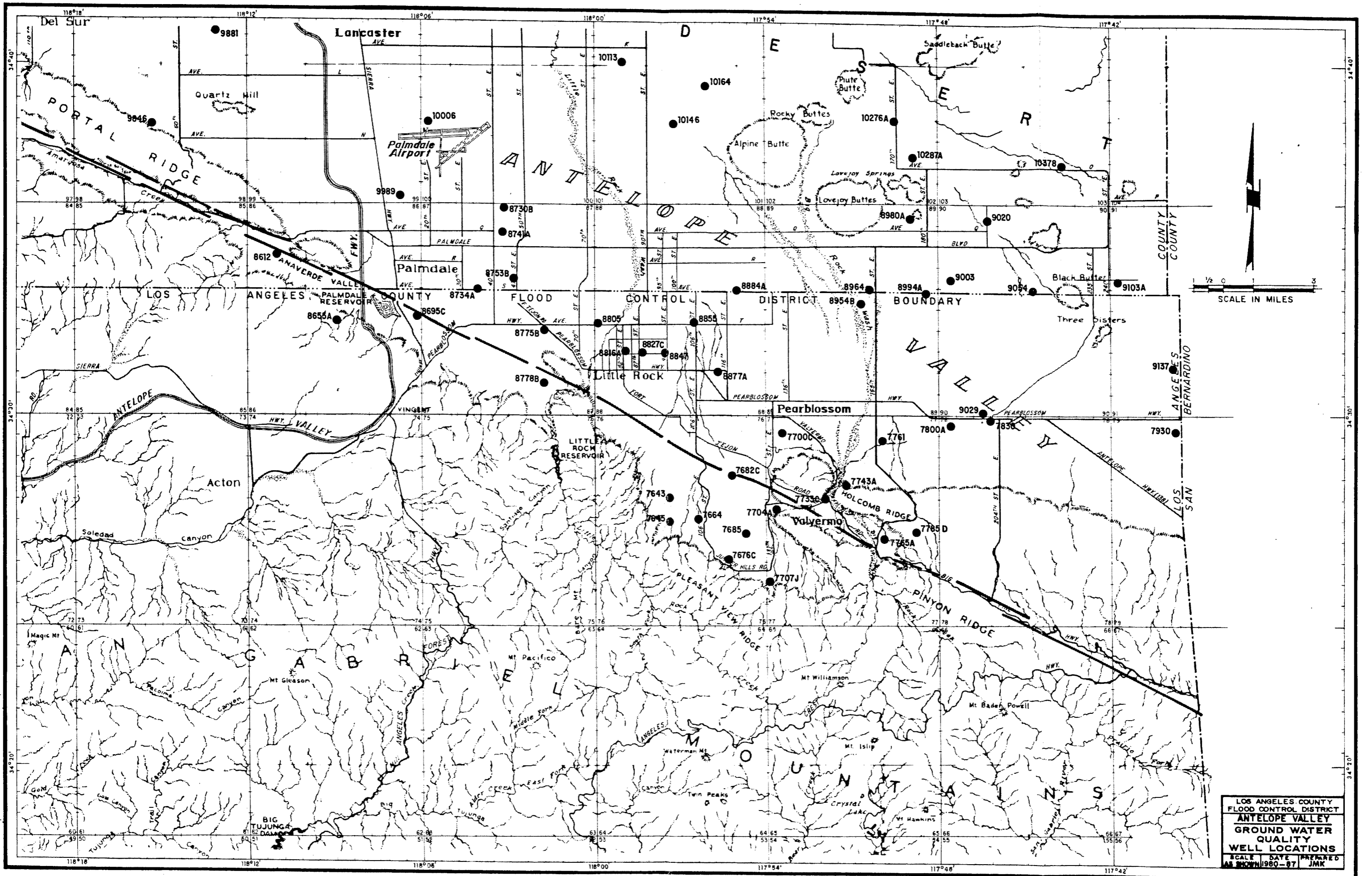
REVISIONS		LOS ANGELES COUNTY FLOOD CONTROL DISTRICT SAN GABRIEL VALLEY GROUND WATER QUALITY WELL LOCATIONS		
DATE	DESCRIPTION	SCALE	DATE	PREPARED
		AS SHOWN	1980-87	JMK



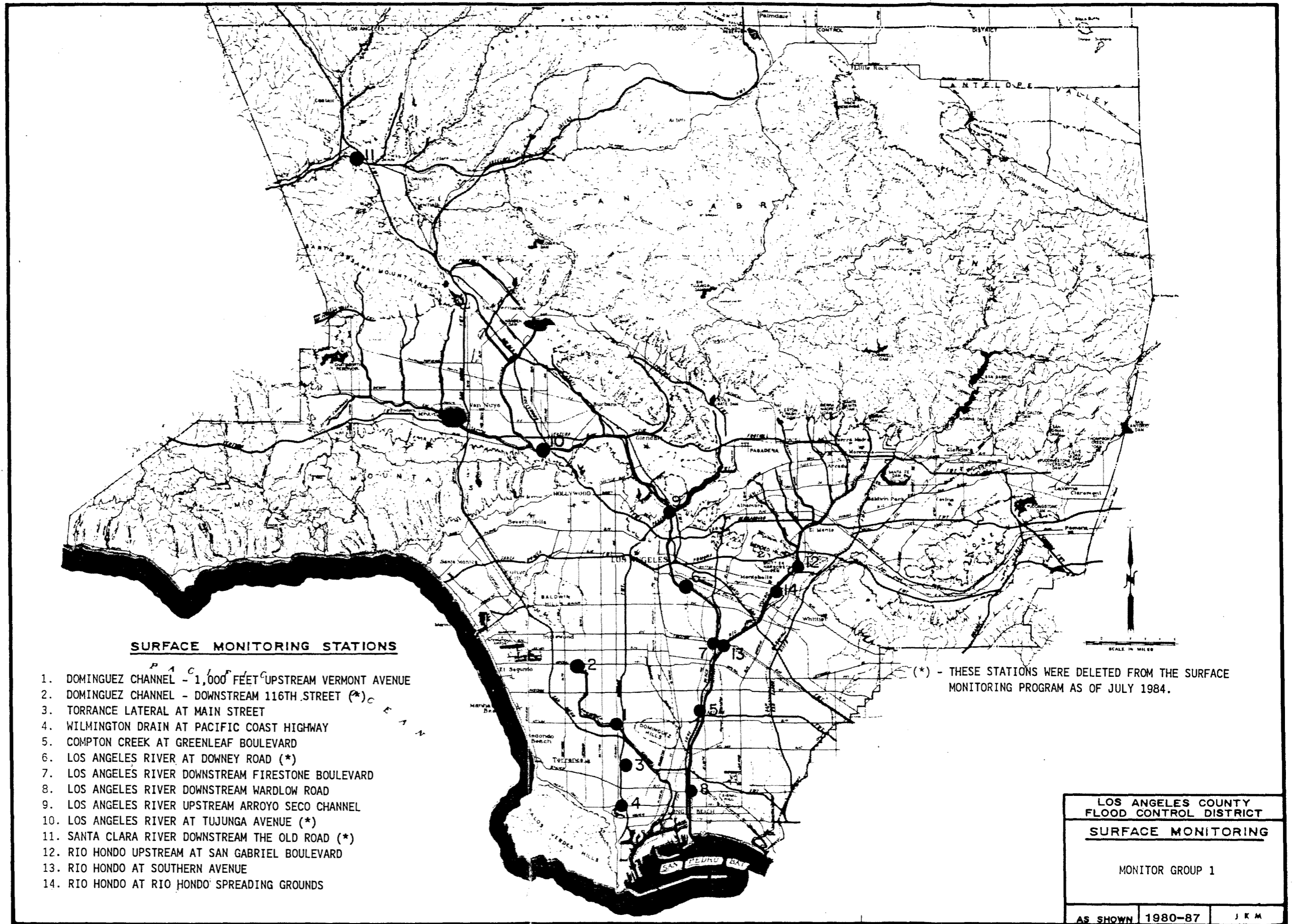
LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 COASTAL PLAIN
 GROUND WATER
 QUALITY
 WELL LOCATIONS
 SCALE DATE PREPARED
 AS SHOWN 1980-87 JMK



LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 SANTA CLARA RIVER VALLEY
 GROUND WATER
 QUALITY
 WELL LOCATIONS
 SCALE AS SHOWN 1980-87 PREPARED BY JMK



LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
ANTELOPE VALLEY
 GROUND WATER
 QUALITY
 WELL LOCATIONS
 SCALE DATE PREPARED
 AS SHOWN 1980-87 JMK

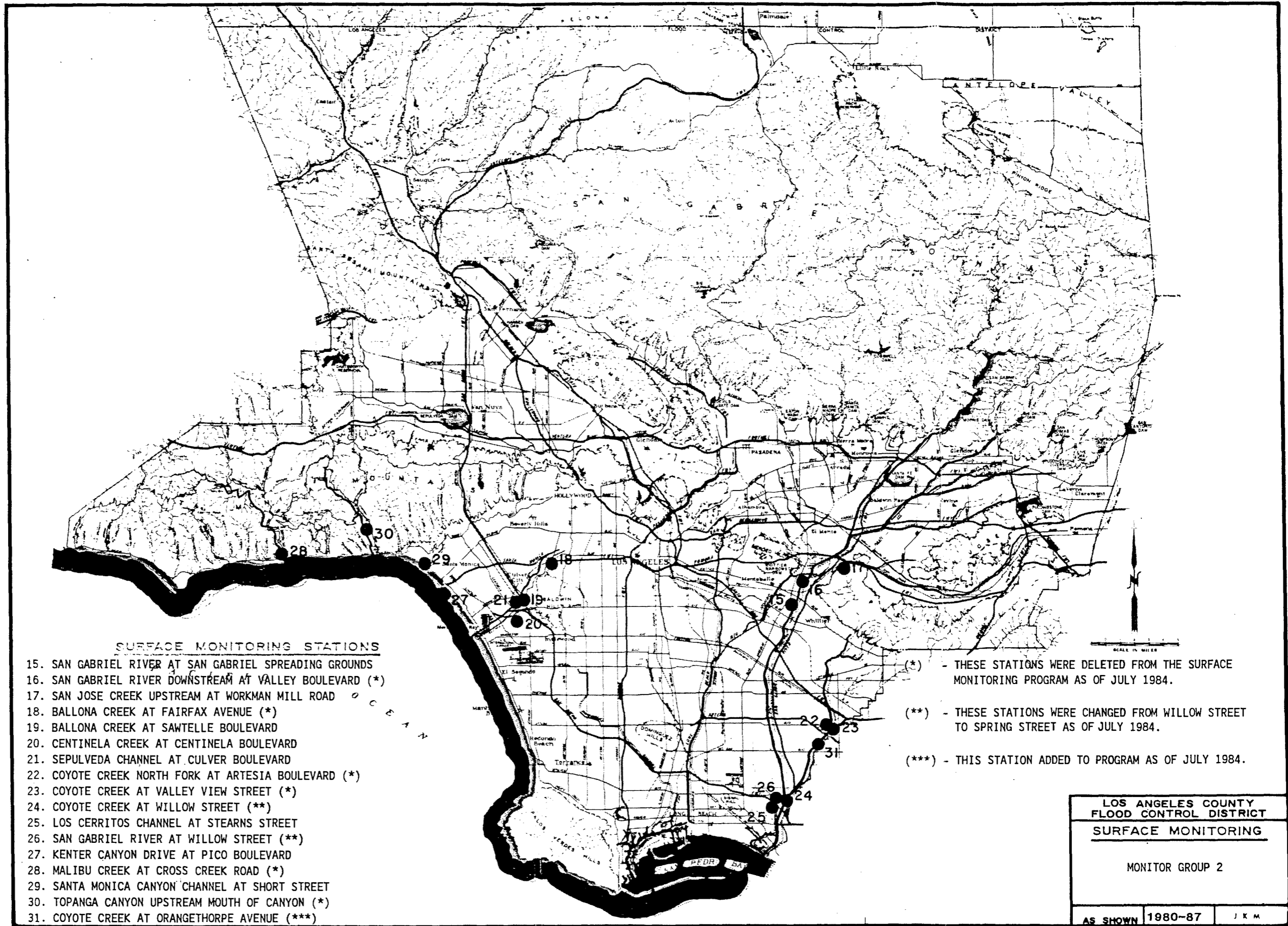


SURFACE MONITORING STATIONS

1. DOMINGUEZ CHANNEL - 1,000 FEET UPSTREAM VERMONT AVENUE
2. DOMINGUEZ CHANNEL - DOWNSTREAM 116TH STREET (*)
3. TORRANCE LATERAL AT MAIN STREET
4. WILMINGTON DRAIN AT PACIFIC COAST HIGHWAY
5. COMPTON CREEK AT GREENLEAF BOULEVARD
6. LOS ANGELES RIVER AT DOWNEY ROAD (*)
7. LOS ANGELES RIVER DOWNSTREAM FIRESTONE BOULEVARD
8. LOS ANGELES RIVER DOWNSTREAM WARDLOW ROAD
9. LOS ANGELES RIVER UPSTREAM ARROYO SECO CHANNEL
10. LOS ANGELES RIVER AT TUJUNGA AVENUE (*)
11. SANTA CLARA RIVER DOWNSTREAM THE OLD ROAD (*)
12. RIO HONDO UPSTREAM AT SAN GABRIEL BOULEVARD
13. RIO HONDO AT SOUTHERN AVENUE
14. RIO HONDO AT RIO HONDO SPREADING GROUNDS

(*) - THESE STATIONS WERE DELETED FROM THE SURFACE MONITORING PROGRAM AS OF JULY 1984.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT		
<u>SURFACE MONITORING</u>		
MONITOR GROUP 1		
AS SHOWN	1980-87	J K M



SURFACE MONITORING STATIONS

- 15. SAN GABRIEL RIVER AT SAN GABRIEL SPREADING GROUNDS
- 16. SAN GABRIEL RIVER DOWNSTREAM AT VALLEY BOULEVARD (*)
- 17. SAN JOSE CREEK UPSTREAM AT WORKMAN MILL ROAD
- 18. BALLONA CREEK AT FAIRFAX AVENUE (*)
- 19. BALLONA CREEK AT SAWTELLE BOULEVARD
- 20. CENTINELA CREEK AT CENTINELA BOULEVARD
- 21. SEPULVEDA CHANNEL AT CULVER BOULEVARD
- 22. COYOTE CREEK NORTH FORK AT ARTESIA BOULEVARD (*)
- 23. COYOTE CREEK AT VALLEY VIEW STREET (*)
- 24. COYOTE CREEK AT WILLOW STREET (**)
- 25. LOS CERRITOS CHANNEL AT STEARNS STREET
- 26. SAN GABRIEL RIVER AT WILLOW STREET (**)
- 27. KENTER CANYON DRIVE AT PICO BOULEVARD
- 28. MALIBU CREEK AT CROSS CREEK ROAD (*)
- 29. SANTA MONICA CANYON CHANNEL AT SHORT STREET
- 30. TOPANGA CANYON UPSTREAM MOUTH OF CANYON (*)
- 31. COYOTE CREEK AT ORANGETHORPE AVENUE (***)

- (*) - THESE STATIONS WERE DELETED FROM THE SURFACE MONITORING PROGRAM AS OF JULY 1984.
- (**) - THESE STATIONS WERE CHANGED FROM WILLOW STREET TO SPRING STREET AS OF JULY 1984.
- (***) - THIS STATION ADDED TO PROGRAM AS OF JULY 1984.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT		
SURFACE MONITORING		
MONITOR GROUP 2		
AS SHOWN	1980-87	J K M

WATER CONSERVATION





WATER CONSERVATION

Information presented in this section includes amounts of local, imported, and reclaimed water conserved in spreading grounds and spreading basins. Also, information on the seawater barrier projects which prevent salt water intrusion in the coastal area and information on the Department's water quality monitoring programs of surface and groundwater are included. Pertinent data are presented regarding the locations and descriptions of Department conservation facilities, as well as facilities owned by others. Also included are groundwater maps delineating elevations recorded during the report period, and hydrographs of selected key wells.

The various types of water conserved, namely local, imported, and reclaimed, are construed to have the following meanings in the section: Local water is derived from runoff due to rainfall on the mountain and valley watersheds within or tributary to the Department. Imported water is water derived outside the Department which is transported and delivered within the Department. Reclaimed water is the effluent produced by the Whittier Narrows Water Reclamation Plant, and the San Jose Creek Water Renovation Plant both operated by the Los Angeles County Sanitation Districts.

CONSERVING THE WATERS

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

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

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

SPREADING GROUNDS

The total gross area of spreading grounds owned and operated by the Department during this report period amounted to 2,369 acres. The Department 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 3,294 acres.

IMPORTED WATER

During this report period, imported Colorado River water and State Project water for spreading was obtained from the Metropolitan Water District. This water was purchased with funds provided by the Central and West Basin Water Replenishment

District and the Upper San Gabriel Valley Municipal Water District. Funds were also provided by the Water Conservation Zone I prior to its termination on June 30, 1972. The Zone was established by the Board of Supervisors in January 1952 to finance the acquisition and conservation of untreated Colorado River water in the Coastal Plain. The funds were provided by taxation at a rate of \$.05 per \$100 assessed value. The Zone had a life of five years with provisions for renewal by the Board of Supervisors. Zone I was renewed three times before its termination in 1972.

Imported water for the Coastal Plain, purchased with funds from the Central and West Basin Water Replenishment District, was spread in the Department's facilities in the Rio Hondo and San Gabriel River systems south of Whittier Narrows Dam.

Imported water for the San Gabriel Valley groundwater basin, purchased by the Upper San Gabriel Valley Municipal Water District was spread in Santa Fe Spreading Grounds and in the San Gabriel River between Morris Dam and the Spreading Grounds.

The San Gabriel Valley Municipal Water District made the first delivery of replacement water through its Devil Canyon-Azusa pipeline to the San Gabriel River on November 18, 1974. They also used the pipeline for the delivery of water for cyclic storage, as per agreement with the Wastemaster.

RECLAIMED WATER

The County Sanitation Districts' Whittier Narrows Water Reclamation Plant produced high quality effluent during the period. The effluent is purchased by the Central and West Basin Water Replenishment District and transported to the Rio Hondo and San Gabriel River Systems for groundwater replenishment.

The County Sanitation Districts' San Jose Creek Water Reclamation Plant, activated in May 1972, made its first delivery of effluent in November 1972. This effluent is also purchased by the Central and West Basin Water Replenishment District and is transported by pipeline to the San Gabriel River system for groundwater replenishment.

The maximum amount of reclaimed water allowed for spreading annually in the Montebello Forebay was increased from 32,700 acre-feet to 37,700 acre-feet in the 1986-87 water year.

SEAWATER BARRIER PROJECTS

The Department operates three barrier projects to protect the groundwater in the West Coast and Central Basins against seawater 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 7-year period, 184,519.2 acre-feet of water were injected at the West Coast Basin Barrier Project, 41,786.0 acre-feet at the Dominguez Gap Barrier Project, and 35,629.1 acre-feet at the Alamitos Barrier Project.

WEST COAST BASIN

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 fresh water to form a pressure barrier. Operations were routine during the report period.

During the 7-year report period, 184,519.2 acre-feet of fresh water were injected at the project.

DOMINGUEZ GAP

The Dominguez Gap Barrier Project was designed to prevent seawater intrusion from the San Pedro Bay into the West Coast Basin through the Dominguez Gap area. Injection operation was routine during the report period.

During this report period, 41,786.0 acre-feet of fresh water were injected at this project.

ALAMITOS

The existing operational facilities of the Alamitos Barrier Project consist of 26 injection wells and 4 extraction wells. The project facilities are designed to protect the groundwater 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. Operations were routine during this report period.

During this report period, 35,629.1 acre-feet fresh water were injected and 9,132.8 acre-feet of saline water were extracted at this project.

SEASONAL DATA AND MAPS

During this 7-year report period, monthly and semiannual measurements of groundwater levels in observation wells were made and processed.

The wells were located throughout the groundwater basins in Los Angeles County. Hydrographs of selected key wells are included in this report.

GROUNDWATER BASINS

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

SAN GABRIEL VALLEY

The San Gabriel Valley watershed covers 279 square miles and overlies 20 groundwater basins and sub-basins. The Department operates 20 spreading facilities in the San Gabriel Valley.

SAN FERNANDO VALLEY

The San Fernando Valley watershed covers 312 square miles and overlies four groundwater basins. The Department operates four spreading grounds in the San Fernando Valley.

THE COASTAL PLAIN

The Coastal Plain watershed covers 557 square miles and overlies four groundwater basins. The Department operates three spreading grounds in the Coastal Plain.

SANTA CLARITA VALLEY

The Santa Clarita Valley watershed covers 747 square miles and overlies five groundwater basins. The Department has no spreading facilities in the Santa Clarita Valley.

ANTELOPE VALLEY

The Antelope Valley watershed covers 1,100 square miles and overlies five groundwater basins. The Department has no spreading facilities in the Antelope Valley.

In general, the groundwater elevations in the groundwater basins underlying the County increased in 1982-83 due to heavy rain and extensive spreading of local water. However, during most of the period from October 1983 through September 1987, the rainfall was below the normal, which limited the availability of local water for spreading, resulting in decreasing groundwater elevations.

The groundwater elevations in the Lancaster Basin, which is the main groundwater basin underlying the Antelope Valley, has continually decreased since 1921, recording a new historic low every year.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
WATER CONSERVATION DIVISION

SUMMARY OF DATA ON SPREADING FACILITIES
OWNED AND OPERATED BY THE DISTRICT
UPDATED THROUGH SEPTEMBER 1980

SPREADING FACILITY	TYPE	SEASON FIRST USED	AREA IN ACRES		CAPACITIES				LOCATION	SOURCE OF WATER	REMARKS
			GROSS	NETTED	CHANNEL**	INTAKE	STORAGE	PERCOLATION*			
ARROYO SECO	SHALLOW BASINS	1948-49	24	13	-	75	30	18	EASTERLY SIDE OF ARROYO SECO, LOWER END 0.3 MILES 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.
BEA LONGB	SHALLOW BASINS	1958-59	24	17	-	25	23	18	BOTH NORTH AND SOUTH SIDES OF SAN BINGO WASH CHANNEL AT SOUTHWESTERLY CORNER OF INTERSECTION OF ARROYO HIGHWAY AND BARRANCA 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.
BIG DALTON	SHALLOW BASINS	1938-31	24	13	-	45	23	15	WESTERNLY SIDE OF BIG DALTON WASH. INTAKE ONE HALF MILE ABOVE SIERRA MADRE AVENUE.	CONTROLLED FLOWS FROM BIG DALTON DAM AND BIG DALTON DERRIS BASIN.	
BRANFORD	DEEP BASIN	1956-57	12	8	1,540	1,540	179	1	SOUTHWESTERLY OF ANGLETA AVENUE ABOVE CONFLUENCE OF TULUMBA WASH AND PACOIMA DIVERSION CHANNEL.	UNCONTROLLED FLOWS FROM BRANFORD STREET DRAIN.	OUTLET CAPACITY 1,540 CFS TO PACOIMA DIVERSION CHANNEL.
BUENA VISTA	DEEP BASIN	1954-55	10	6	2,900	2,900	194	8	1.8 MILE EASTERLY OF SAMPIT DAM, 0.5 MILE WESTERLY OF ARROYO HIGHWAY, BETWEEN HERIZIAN 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 FROM SANTA FE DIVERSION 120 CFS.
CITRUS	SHALLOW BASINS	1948-61	19	15	-	40	85	28	SOUTH SIDE OF BIG DALTON WASH BETWEEN CITRUS AND CERRITOS AVENUES.	CONTROLLED STORM FLOWS FROM BIG DALTON WASH.	RESUMED SPREADING OPERATIONS IN JUNE 1985.
DONIMUEZ GAP	DEEP BASINS	1957-58	54	31	-	20	254	3	SOUTH OF BEL AND 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 REBALTION WITH SOME CONSERVATION STORAGE. INTAKE CAPACITY IS 20 CFS 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.
EATON BASIN	DEEP BASIN	1958-57	16	11	9,600	600	200	10	EAST SIDE OF EATON WASH, NORTH OF DONITE ROAD, 0.4 MILE SOUTH OF HUNTINGTON DRIVE.	CONTROLLED FLOW FROM EATON WASH DAM AND UNCONTROLLED FLOWS BETWEEN DAM AND SPREADING BASIN.	
EATON WASH	DEEP & SHALLOW BASINS	1917-48	28	24	6,600	100	323	21	EASTERLY SIDE OF EATON WASH FROM BELOW EATON DAM TO FOOTHILL BOULEVARD.	CONTROLLED FLOW FROM EATON WASH DAM.	THREE DEEP BASINS COMPRISE 15 ACRES. THE SHALLOW STRIP BASINS TOTAL 13 ACRES.
FORBES	SHALLOW BASINS	1944-45	21	10	-	30	43	18	SOUTH SIDE OF SAN BINGO WASH BETWEEN LONE HILL AVENUE AND VALLEY CENTER AVENUE.	CONTROLLED RELEASES FROM PUNDMSTONE DIVERSION DAM AND LOCAL STORM RUNOFF FROM SAN BINGO WASH.	
HANSEN	SHALLOW BASINS	1944-45	156	110	22,000	600	320	250	NORTHWESTERLY SIDE OF TULUMBA WASH FROM ABOVE OLDMAN'S BOULEVARD SOUTHWESTERLY TO SAN FERNANDO ROAD.	CONTROLLED FLOW FROM HANSEN DAM AND BIG TULUMBA DAM.	
IRVINGDALE	DEEP BASIN	1958-59	17	14	20,000	450	441	30	NORTHEASTERLY OF INTERSECTION OF BIG DALTON CHANNEL AND IRVINGDALE AVENUE; CONTINUES 1,300 FEET EAST OF IRVINGDALE AVENUE.	BIG DALTON CHANNEL CONTROLLED FLOWS FROM BIG AND LITTLE DALTON DERRIS DAMS AND PUNDMSTONE DIVERSION DAM; UNCONTROLLED FLOWS.	
LITTLE DALTON	SHALLOW BASINS	1931-32	14	5	-	28	5	13	WESTERNLY OF OLDMAN HT. ROAD, FROM LITTLE DALTON DERRIS BASIN SOUTH TO EAST PALM DRIVE.	CONTROLLED FLOW FROM LITTLE DALTON DERRIS BASIN.	
LIVE OAK	SHALLOW BASINS	1961-62	5	2	-	15	2	13	WESTERNLY SIDE OF LIVE OAK WASH, NORTH OF BASE LINE ROAD (PROJECTED).	CONTROLLED FLOW FROM LIVE OAK DAM AND LIVE OAK DERRIS BASIN.	
LOPEZ	SHALLOW BASINS	1958-57	19	13	-	25	25	15	SOUTHWESTERLY SIDE OF PACOIMA WASH, NORTHWESTERLY 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.

* 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 1960

SPREADING FACILITY	SEASON FIRST USED	AREA IN ACRES		CAPACITIES				LOCATION	SOURCE OF WATER	REMARKS	
		GROSS	NETTED	CHANNEL**	INTAKE	STORAGE	PERCOLATION**				
				CFS	CFS	A.F.	CFS				
PACIFICA	SHALLOW BASINS	1922-23	169	111	17,000	600	446	125	BOTH SIDES OF OLD PACIFICA WASH CHANNEL FROM ANILETA AVENUE SOUTHWESTERLY TO GOODMAN AVENUE.	CONTROLLED FLOW FROM PACIFICA DAM, PARTIALLY CONTROLLED FLOW FROM LOPEZ FLOOD CONTROL BASIN, UNCONTROLLED FLOW FROM EAST CANYON AND PACIFICA WASH.	IN JULY 1960 LOS ANGELES CITY BEGAN DELIVERING CHENS VALLEY WATER THROUGH OLDER STREET OUTLET ON STETSON CANYON CHANNEL.
PEY COBB	DEEP BASIN	1929-30	157	85	20,100	30,100	2,347	23	CONFLUENCE OF SANPIIT AND SANTA ANITA WASHES.	ALL FLOWS IN SANPIIT AND SANTA ANITA WASHES.	
RIO HONDO COASTAL	SHALLOW BASINS	1927-28	570	455	40,000	1,700	3,000	450	EASTERLY SIDE OF RIO HONDO SOUTHERLY FROM U.P.R.R. (SOUTH OF WHITTIER BLVD.) TO SLAUSON AVENUE; WEST SIDE OF RIO HONDO CHANNEL FROM 0.2 MILE ABOVE WHITTIER BOULEVARD SOUTH TO FOSTER BRIDGE BOULEVARDS.	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 2,500 ACRE-FOOT POOL AT WHITTIER NARROWS DAM FOR RETENTION OF STORM WATERS. FLOCCULANT FACILITY ADDED AT WHITTIER NARROWS DAM IN 1947.
SAN DIMAS CANYON	SHALLOW BASINS	1945-46	22	11	-	25	22	12	SOUTHWEST SIDE OF SAN DIMAS WASH BETWEEN PLUMSTONE DIVERSION DAM, BIVERTON AND SAN DIMAS CANYON ROAD.	CONTROLLED RELEASES FROM PLUMSTONE DIVERSION DAM; UNCONTROLLED FLOW FROM SAN DIMAS WASH.	
SAN GABRIEL CANYON	DEEP & SHALLOW BASINS	1917	165	-	-	50	-	23	EASTERLY SIDE OF SAN GABRIEL RIVER, BELOW MOUTH OF SAN GABRIEL CANYON, NORTH OF THE CITY OF ALHAMBRA.	SAN GABRIEL RIVER CONTROLLED RELEASES FROM COSMELL DAM, SAN GABRIEL DAM, AND MORRIS DAM.	THE DISTRICT TOOK OVER OPERATION OF THIS FACILITY IN NOVEMBER 1949. RECEIVES SURPLUS WATER FROM THE COMMITTEE OF NINE. TWO DEEP BASINS ARE CURRENTLY BEING EXCAVATED REPLACING DITCHES AND CHECK LEVEES.
SAN GABRIEL COASTAL	SHALLOW BASINS	1928-29	128	91	-	300	350	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. CONTROLLED RELEASES FROM WHITTIER NARROWS DAM, UNCONTROLLED VALLEY RUNOFF BELOW WHITTIER NARROWS DAM VIA SAN GABRIEL RIVER; ALSO IMPORTED AND RECLAIMED WATER.	
SAN GABRIEL RIVER LOWER	TEMPORARY CHECK LEVEES	1954-55	123	123	-	-	-	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.
SAN GABRIEL RIVER UPPER	TEMPORARY CHECK LEVEES	1945-46	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.
SANTA ANITA	SHALLOW BASINS	1944-45	20	8	-	20	23	10	WESTERLY SIDE OF SANTA ANITA WASH 1.25 MILES ABOVE FOOTHILL BOULEVARD.	CONTROLLED FLOW FROM SANTA ANITA DAM AND SANTA ANITA DENNIS BASIN.	THE HEADWORKS LOCATED UPSTREAM OF THE DENNIS BASIN DIVERTS WATER TO SANTA ANITA SPREADING GROUNDS AND CITY OF SIERRA MARIE SPREADING GROUNDS.
SANTA FE	SHALLOW BASINS	1953-54	328	308	-	500	526	400	WESTERLY SIDE OF SAN GABRIEL CANYON AND SPILLWAY AREAS.	CONTROLLED FLOWS FROM SAN GABRIEL CANYON AND UNCONTROLLED FLOWS FROM BROADWAY CHANNEL AND SAN GABRIEL RIVER BELOW MORRIS RESERVOIR.	RIGHT OF WAY, HELD UNDER LICENSE FROM THE FEDERAL GOVERNMENT INCLUDES 10 ACRE IN SAN GABRIEL RIVER BED FOR EARTH DIVERSION LEVEL. CONSTRUCTION OF THE 400 FREEWAY REDUCED THE SPREADING AREA IN THE RESERVOIR AND A SUBSTITUTE AREA WAS PROVIDED DOWNSTREAM OF THE SPILLWAY FLOCCULANT FACILITY ADDED IN 1976.
SANPIIT	SHALLOW BASINS	1946-47	12	4	-	30	13	12	WESTERLY SIDE OF SANPIIT WASH BELOW MOUTH OF CANYON AT HEAD OF MONTEBENA DRIVE, MONROVIA.	CONTROLLED FLOWS FROM SANPIIT DAM AND SANPIIT DENNIS BASIN.	
WALNUT	DEEP BASIN	1962-62	16	8	8,000	90	166	5	WEST SIDE OF WALNUT WASH, NORTH OF SAN BERNARDINO FREEWAY.	CONTROLLED FLOW FROM PLUMSTONE DAM AND UNCONTROLLED FLOW FROM WALNUT WASH CHANNEL; EXCESS WATER FROM COVINA IRRIGATING COMPANY.	
TOTAL:			2,369 AC.	1,702 AC.	-	-	10,524 A.F.	1,800 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.

TOTAL WATER CONSERVED IN THE DEPARTMENT'S FACILITIES

	SPREADING FACILITY	YEAR:							ACCUMULATIVE TOTALS
		1980-1981	1981-1982	1982-1983	1983-1984	1984-1985	1985-1986	1986-1987	
SAN FERNANDO VALLEY	BRANFORD	246	351	513	173	245	290	143	1,961
	HANSEN	14,470	14,317	35,221	10,410	13,273	18,188	7,309	113,188
	LOPEZ	361	243	1,052	0	104	1,735	141	3,636
	PACOIMA	3,303	5,496	22,973	3,545	3,449	6,704	467	45,937
	SUBTOTAL	18,380	20,407	59,759	14,128	17,071	26,917	8,060	164,722
SAN GABRIEL VALLEY	ARROYO SECO	519	1,315	6,450	665	924	2,260	415	12,548
	BEN LOMOND	4,230	2,975	4,591	2,926	1,062	3,630	1,263	20,677
	BIG DALTON	256	1,036	2,980	772	312	484	45	5,885
	BUENA VISTA	235	611	1,353	990	383	829	244	4,645
	CITRUS	0	0	0	0	0	529	236	765
	EATON BASIN	731	2,033	3,481	1,394	921	2,370	791	11,721
	EATON GROUNDS	285	1,148	4,761	683	146	1,220	14	8,257
	FORBES	297	629	1,544	589	441	2,600	2,628	8,728
	IRWINDALE	612	2,833	2,845	1,441	2,115	11,787	9,099	30,732
	LITTLE DALTON	80	206	1,423	183	117	351	10	2,370
	LIVE OAK	15	200	1,660	631	497	215	140	3,358
	MORRIS TO STA. F190	10,093	28,062	25,000	10,569	18,055	12,199	23,681	127,659
	STA. F190 TO SANTA FE DAM	5,711	10,981	18,680	5,723	8,027	11,726	4,240	65,088
	PECK ROAD	4,860	7,303	50,026	7,903	3,841	6,553	1,139	81,625
	SAN DIMAS CANYON	1,565	2,265	6,049	2,404	1,170	811	703	14,967
	SAN GABRIEL CANYON	7,009	8,571	9,419	8,219	7,234	12,500	4,485	57,437
	SANTA ANITA	63	196	1,199	541	457	686	252	3,394
	SANTA FE	288	35,045	81,000	12,123	10,621	43,783	23,860	206,720
	SANTA FE RESERVOIR	1,695	7,711	37,777	2,000	1,190	8,920	0	59,293
	SANTA FE TO STA. F261	0	0	700	0	0	0	0	700
	SANTA FE DIVERSION	9,265	13,050	26,093	6,362	278	2,563	115	57,726
SANPIT	601	1,008	2,926	719	811	1,113	384	7,562	
WALNUT	1,276	1,720	2,278	2,202	794	2,042	1,720	12,032	
	SUBTOTAL	49,686	128,898	292,235	69,039	59,396	129,171	75,464	803,889
COASTAL PLAIN	DOMINGUEZ GAP	226	577	56	591	1,000	1,160	440	4,050
	RIO HONDO SYSTEM	96,821	70,434	100,063	73,245	69,796	72,059	86,438	568,856
	SAN GABRIEL SYSTEM	38,966	38,635	53,417	36,864	34,932	39,736	32,625	275,175
ANTELOPE VALLEY	SUBTOTAL	136,013	109,646	153,536	110,700	105,728	112,955	119,503	848,081
	BIG ROCK	—	—	—	733	747	3,176	343	4,999
OTHER FACILITIES	SIERRA MADRE	1,736	2,227	2,699	2,365	1,310	2,890	775	14,002
	THOMPSON CREEK	0	2	258	43	42	7	0.2	352
	SUBTOTAL	1,736	2,229	2,957	2,408	1,352	2,897	775	14,354
TOTAL WATER CONSERVED		205,815	261,180	508,487	197,008	184,294	275,116	204,145	1,836,045

SUMMARY OF WATER SPREAD IN ACRE-FEET
IN THE DEPARTMENT'S FACILITIES

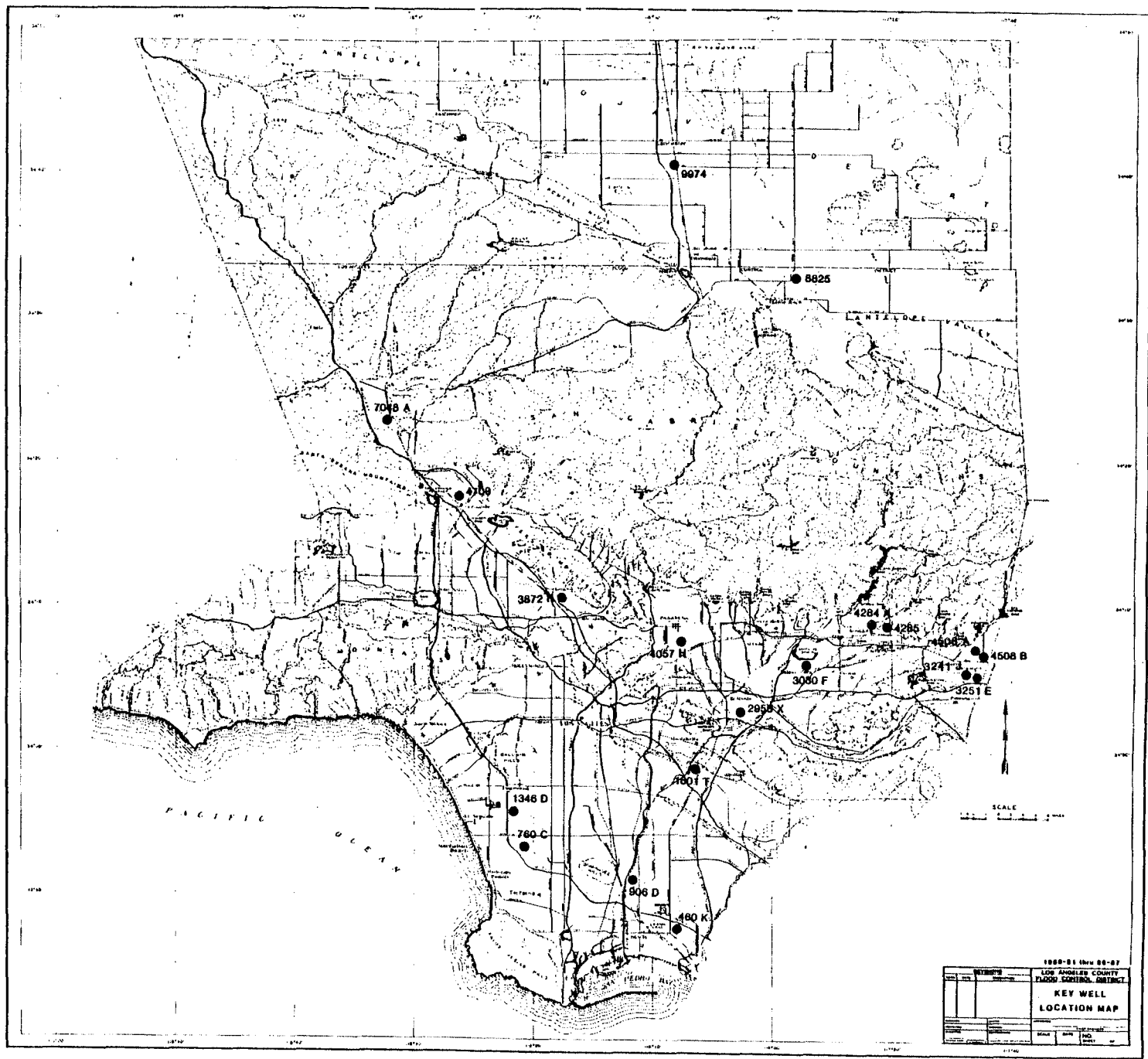
	YEAR:							TOTALS
	1980-1981	1981-1982	1982-1983	1983-1984	1984-1985	1985-1986	1986-1987	
LOCAL WATER	113,806.0	152,148.0	468,961.0	141,363.0	110,747.0	173,205.0	57,428.0	1,217,658.0
RECLAIMED WATER	26,109.0	29,432.0	17,058.0	27,785.0	26,998.0	25,314.0	35,779.0	188,475.0
IMPORTED WATER	65,900.0	79,600.0	22,468.0	27,860.0	46,549.0	76,597.0	110,938.0	429,912.0
TOTAL WATER SPREAD	205,815.0	261,180.0	508,487.0	197,008.0	184,294.0	275,116.0	204,145.0	1,836,045.0

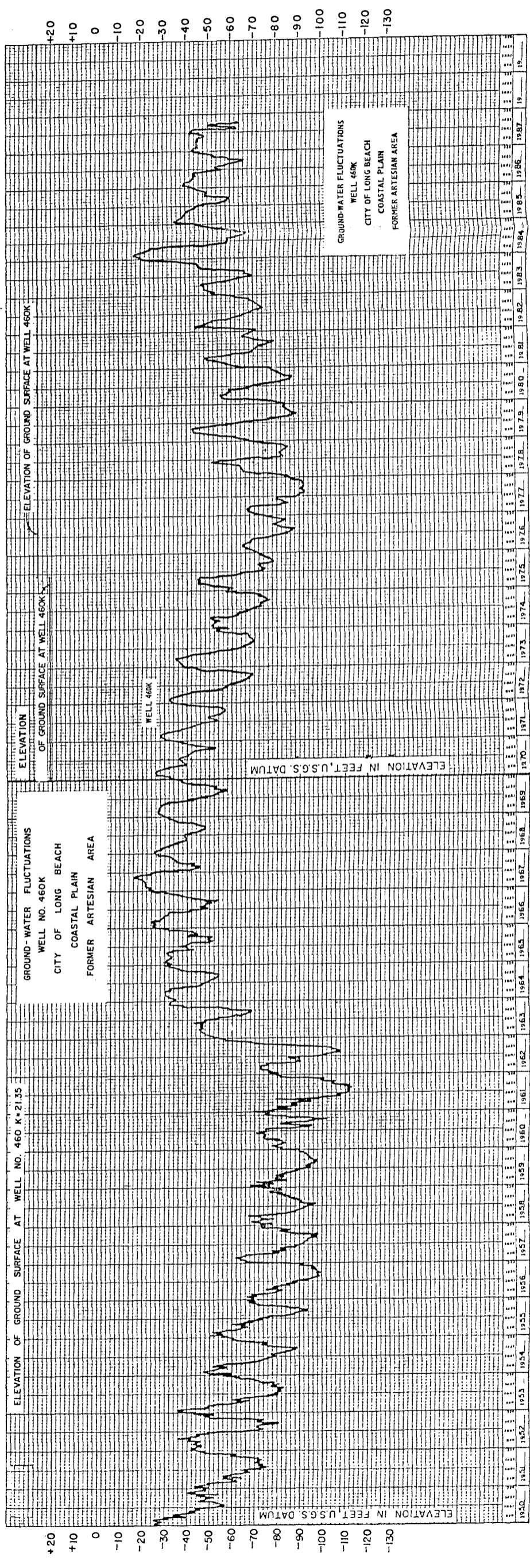
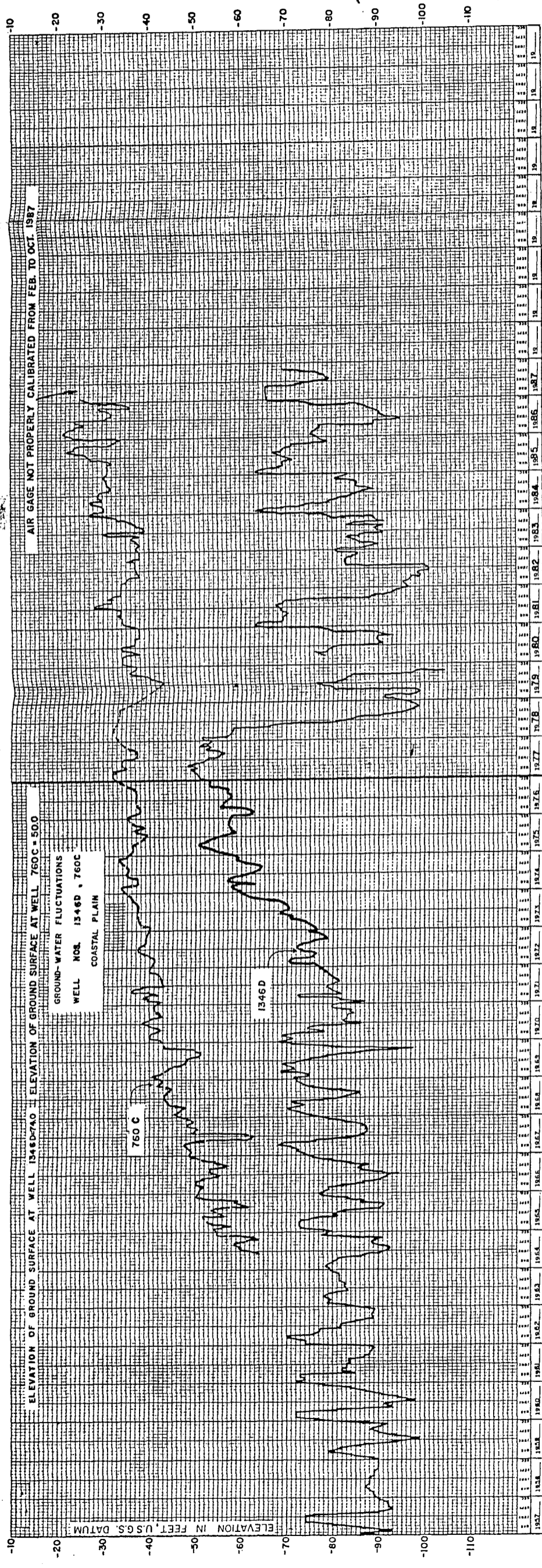
NOTE : THE ABOVE EXCLUDES WATER FROM POMONA RECLAMATION PLANT, WATER INJECTED IN THE SEAWATER BARRIERS, AND WATER PERCOLATED IN THE DEPARTMENT'S RESERVOIRS.

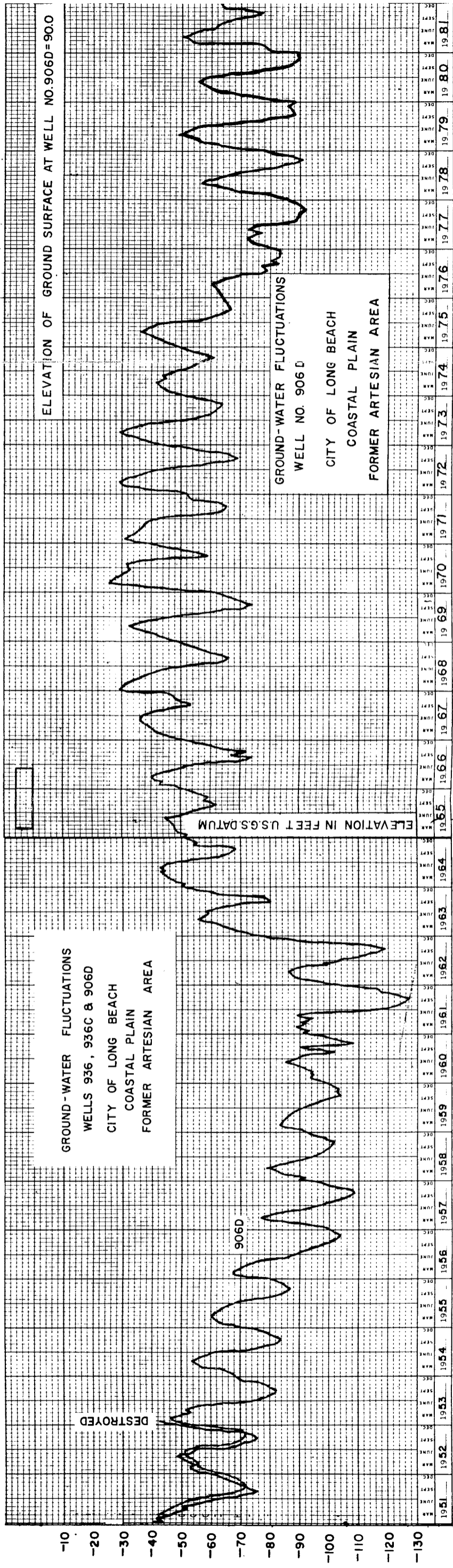
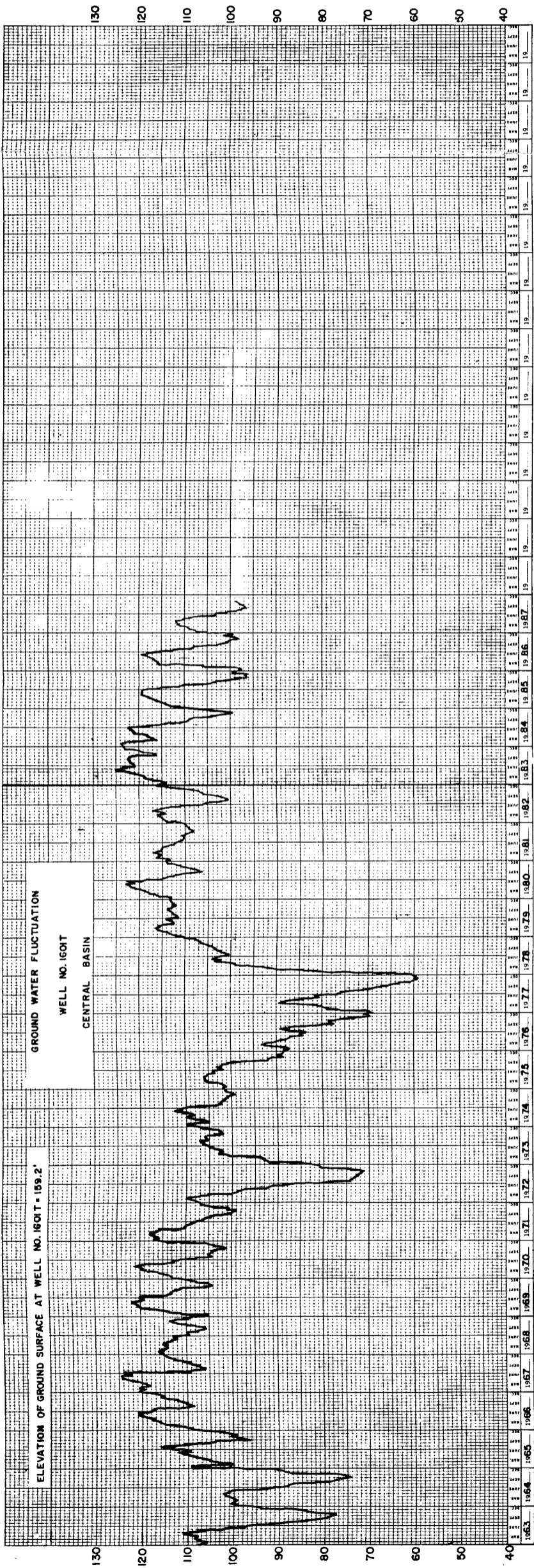
WELL HYDROGRAPHS INCLUDED IN THIS REPORT

GROUNDWATER BASIN	WELL NO.	APPROXIMATE LOCATION	PAGE NO.
WEST COAST	760C 1346D	99 FT. S.W. OF INTERSECTION OF COMPTON BLVD. & DOTY AVE., LAWDALE 11305 TRURO AVE., 250 FT. N. OF IMPERIAL HWY., COMPTON	G12
CENTRAL BASIN	460K	2,600 FT. N.E. OF THE INTERSECTION OF LAKEWOOD BLVD. & PACIFIC COAST HWY., LONG BEACH	G12
	1601T	1,000 FT. S. OF THE INTERSECTION OF WASHINGTON BLVD. & ROSEMEAD BLVD., MONTEBELLO	G13
	906D	1,300 FT. N.W. OF THE INTERSECTION OF LONG BEACH & SAN ANTONIO DR., LONG BEACH	G13
MAIN SAN GABRIEL	3030F	600 FT. N.W. OF THE INTERSECTION OF LOS ANGELES ST. & MAINE AVE., BALDWIN PARK	G14
	2955X	TYLER AVE. & CENTRAL AVE., S. EL MONTE	G15
SAN GABRIEL CANYON	4284A	5,600 FT. N.W. OF THE INTERSECTION OF SIERRA MADRE AVE & SAN GABRIEL CYN. RD., AZUSA	G15
	4285	2,700 FT. N.W. OF SAN GABRIEL CANYON RD. & SIERRA MADRE AVE.	
POMONA	3251E	2,200 FT. N. OF THE INTERSECTION OF SAN BERNARDINO FWY. & TOWNE AVE., POMONA	G16
	3241J	725 FT. S.W. OF LA VERNE AVE., 400 FT. S.E. OF N. GAREY AVE.	
CLAREMONT HEIGHTS	4508B	800 FT. S.E. OF THE INTERSECTION OF BASELINE RD. & PADUA AVE., CLAREMONT	G16
	4508A	270 FT. N.W. OF WELL 4508B	
RAYMOND	4057H	LOS ROBLES & GLENARM STREETS, PASADENA	G17
SANTA CLARA	7048A	S.E. OF THE INTERSECTION OF NEWHALL AVE. & MAGIC MOUNTAIN PKWY, SAUGUS	G17
ANTELOPE VALLEY	9974	8,976 FT. S. OF AVE K & 200 FT. W. OF SIERRA HWY., LANCASTER	G18
	8825	25 FT. N. OF AVE T & 45 FT. E. OF 90TH ST., LITTLE ROCK	
MAIN SAN FERNANDO	3872H	CLARK AVE & GRIFFITH PARK DR., BURBANK	G19
	4709	SHERMAN WAY & DEERING AVE., CANOGA PARK	G19

G 11

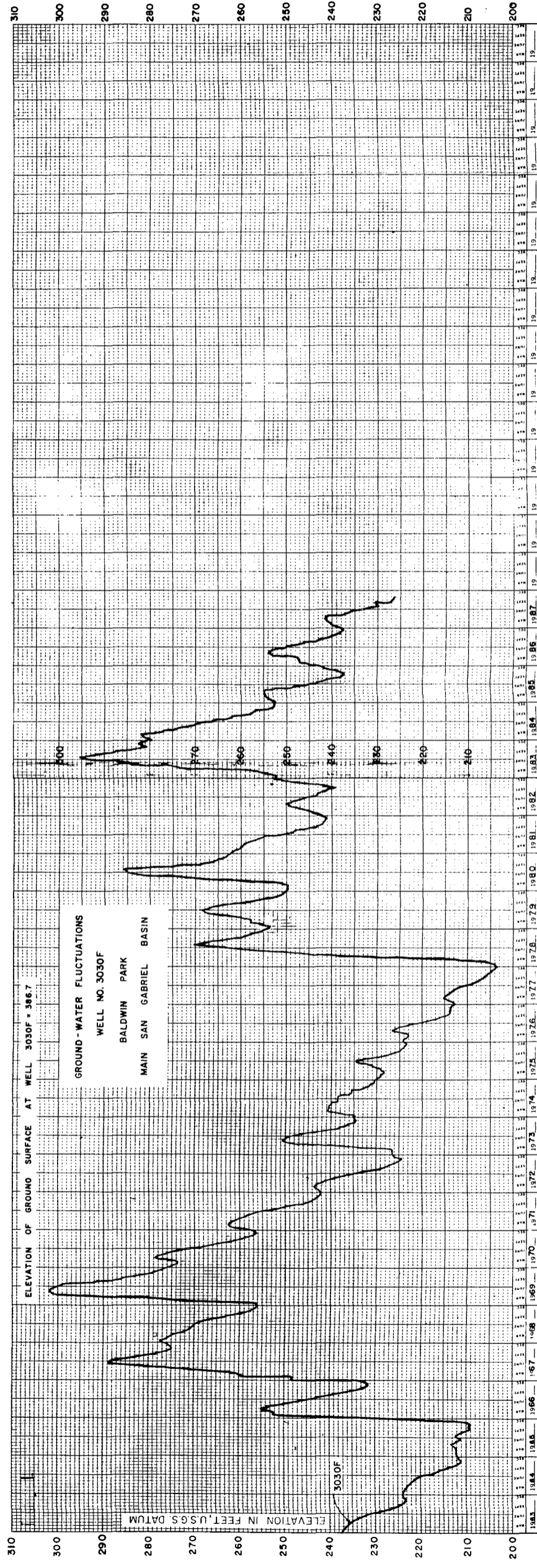
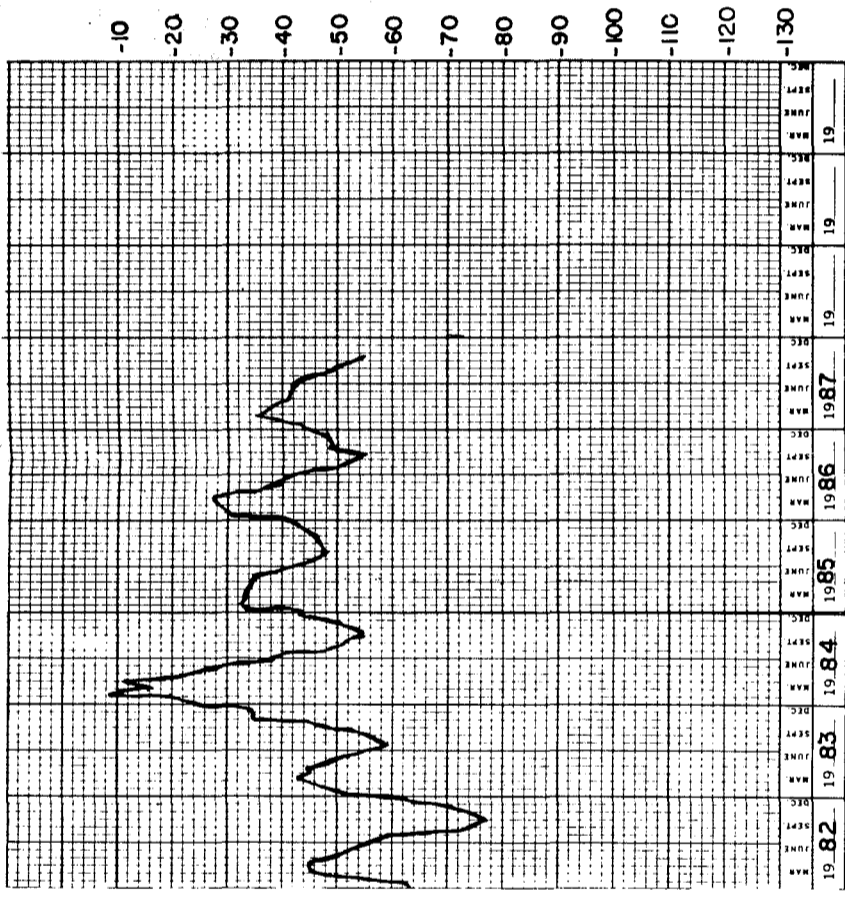


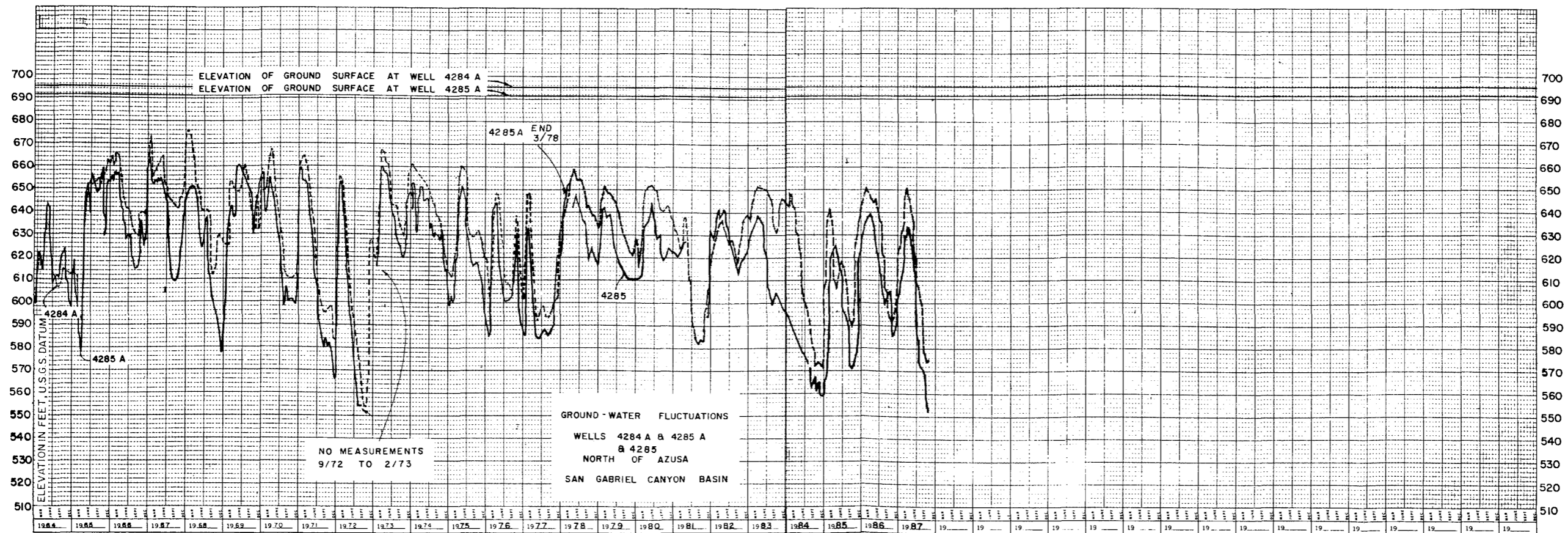
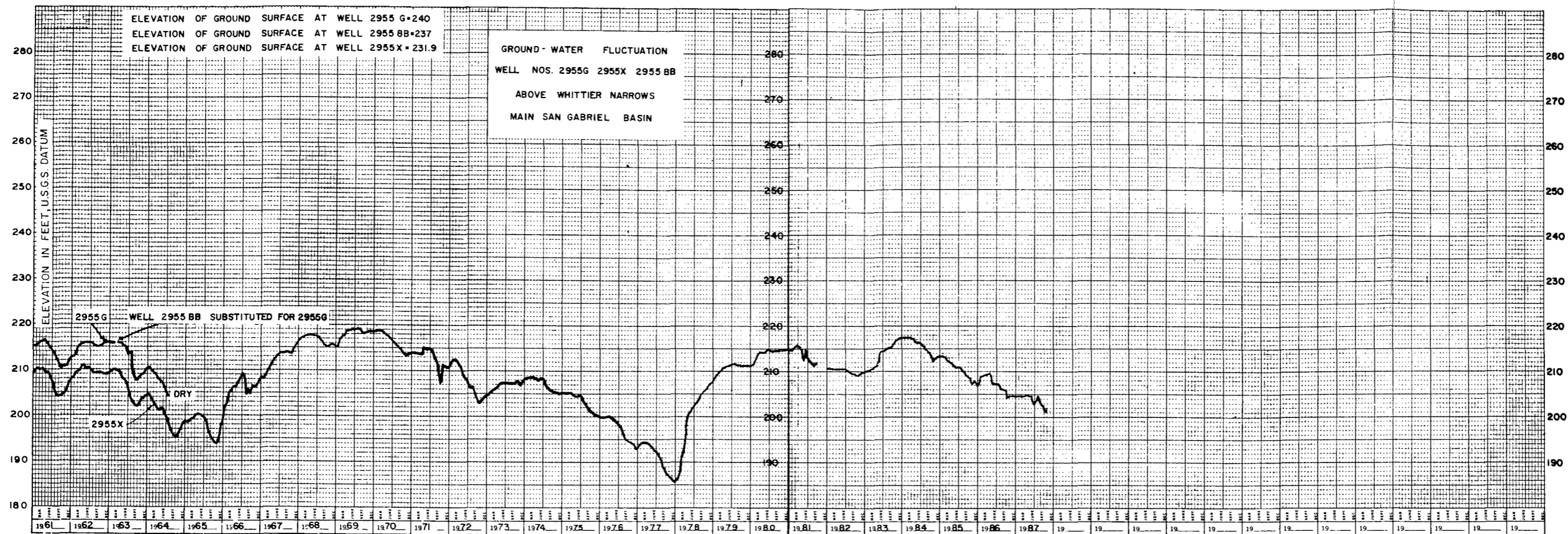


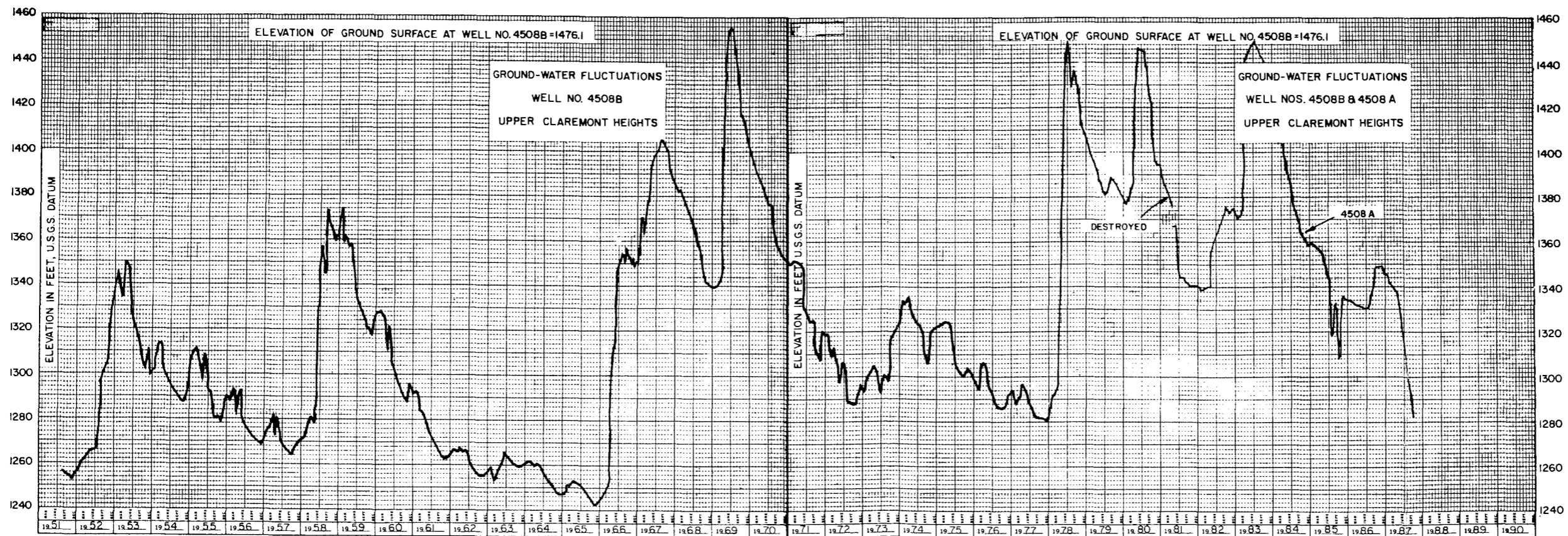
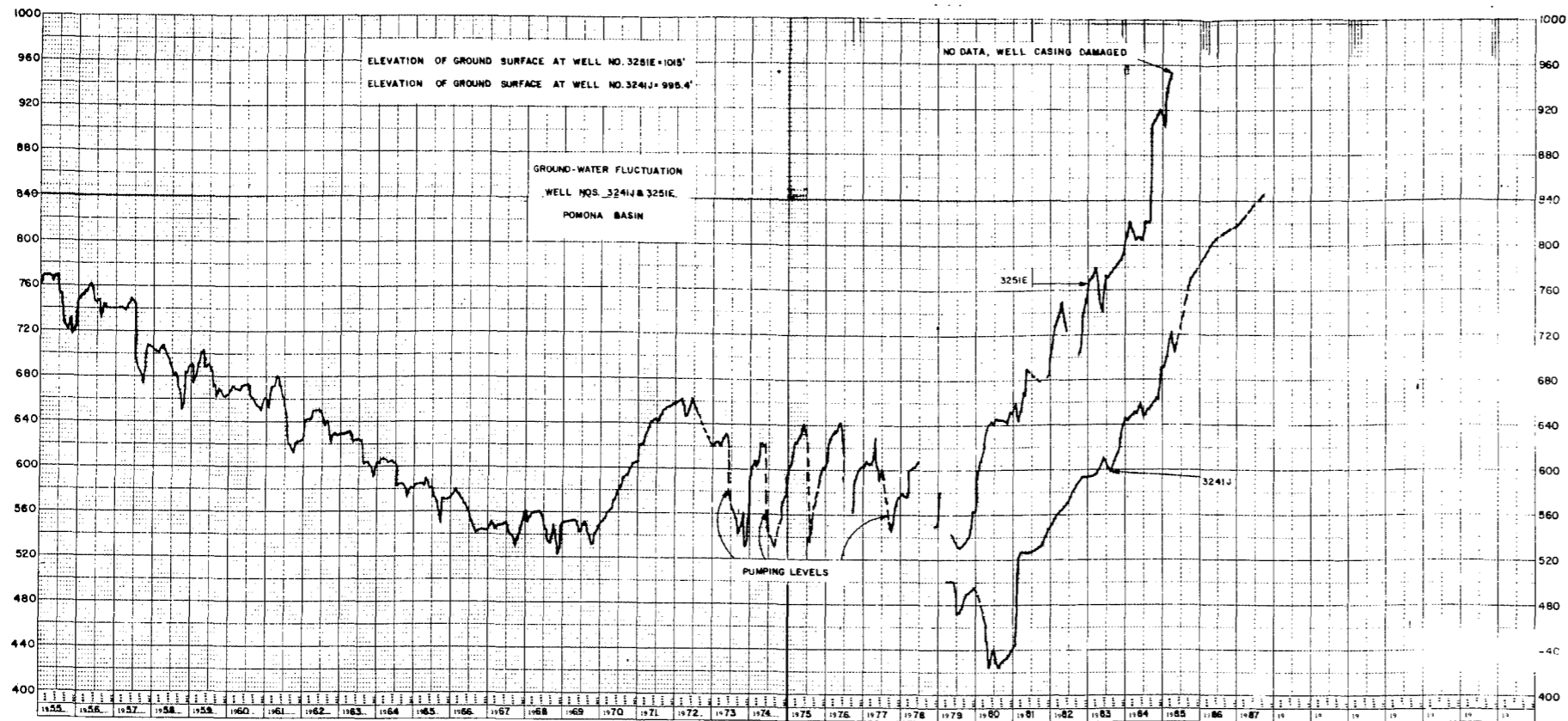


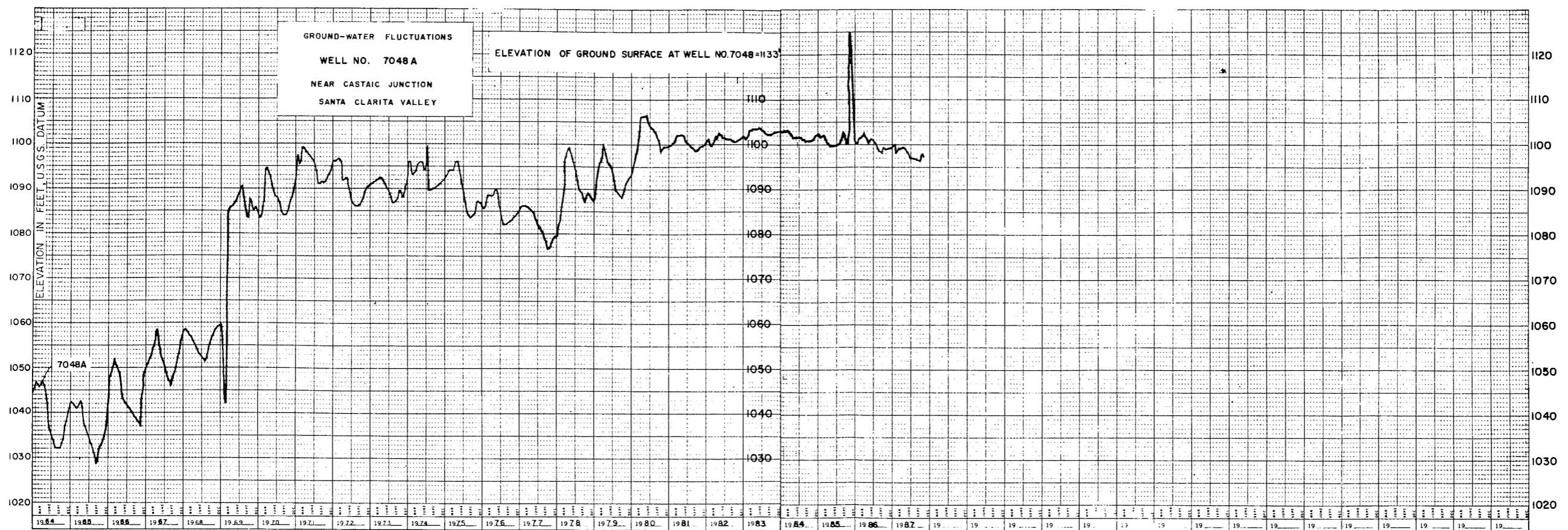
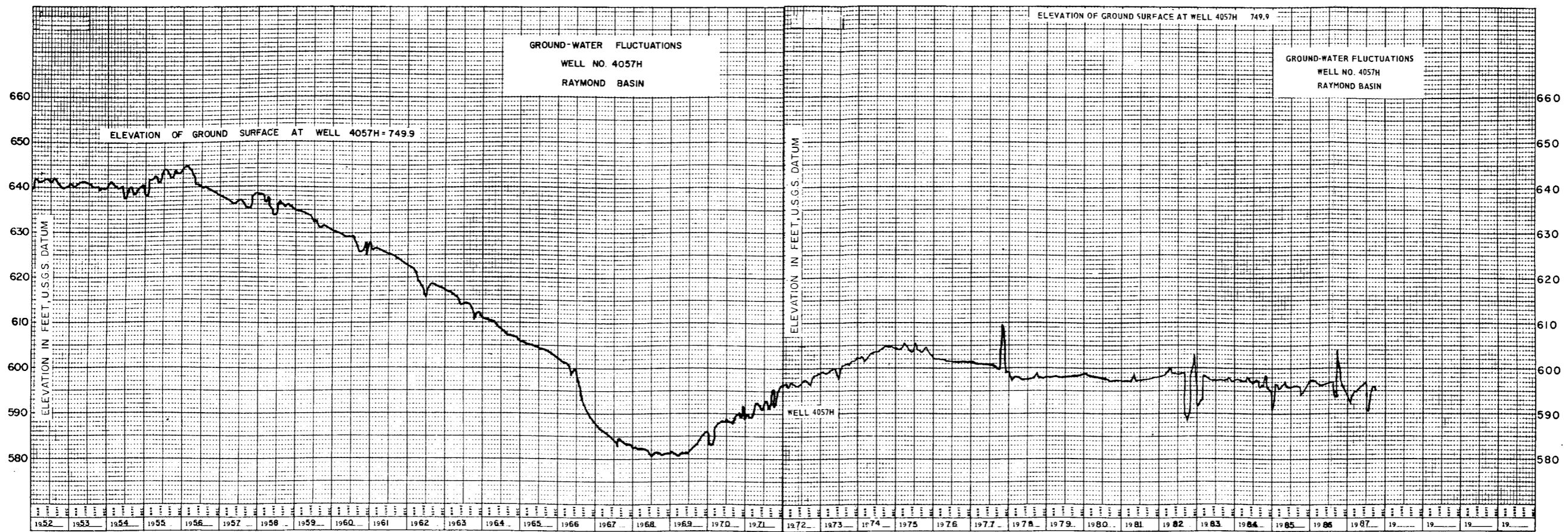
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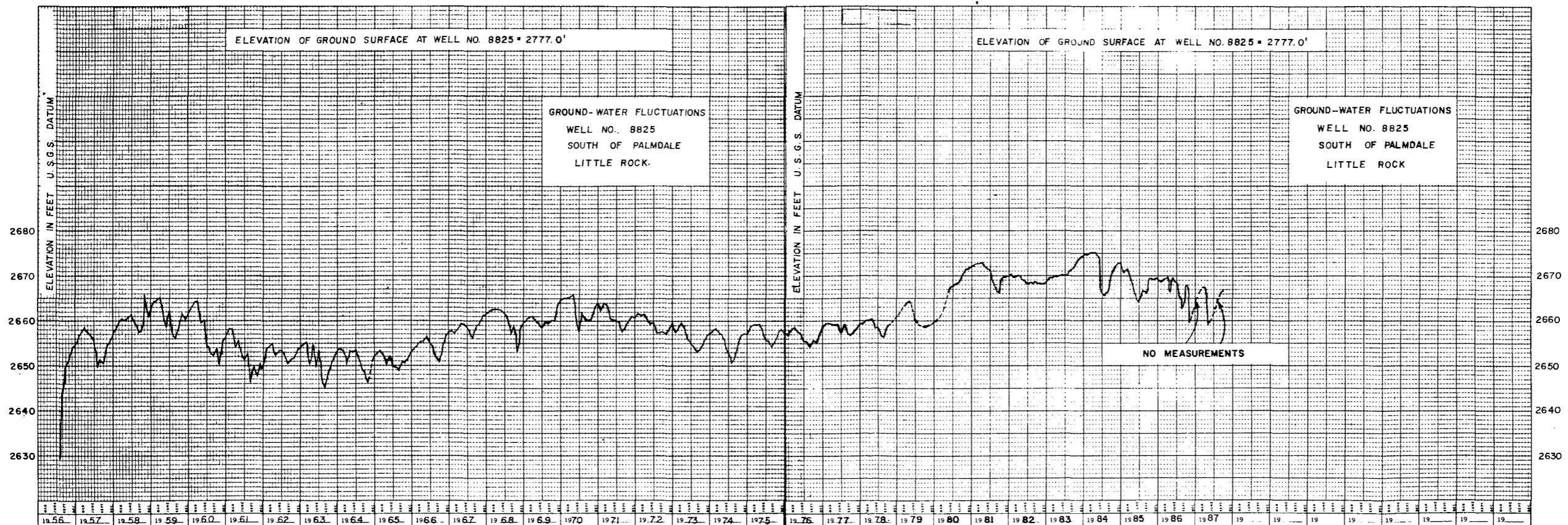
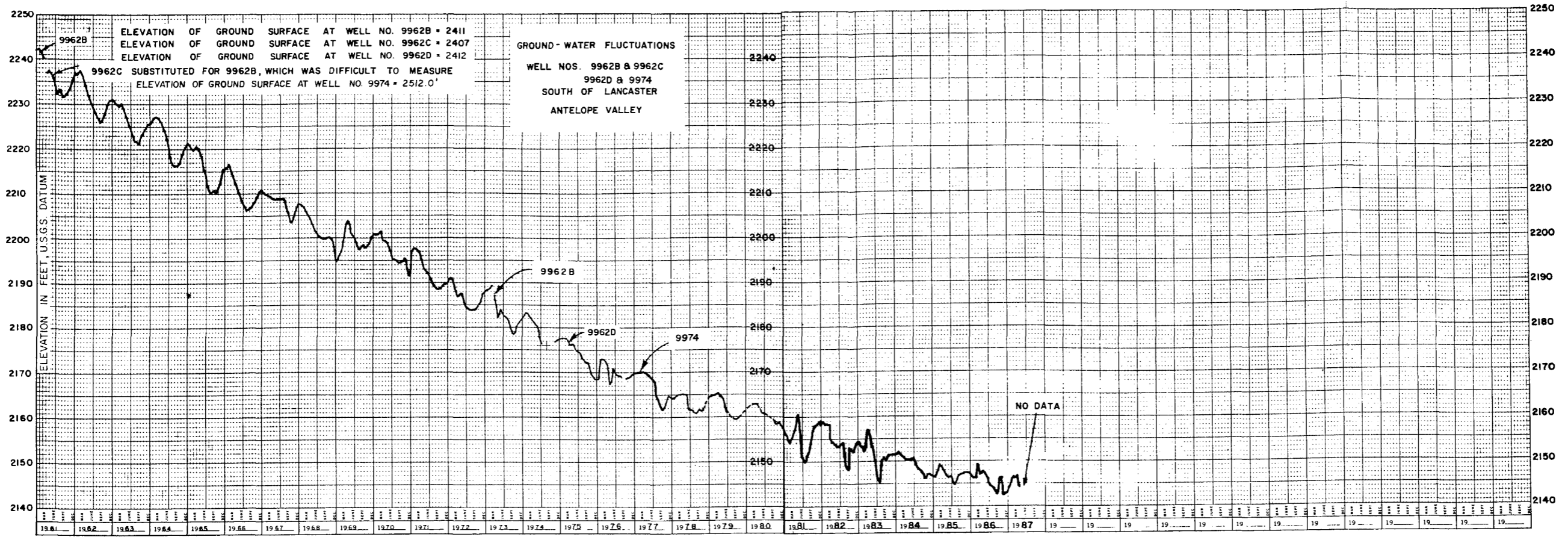
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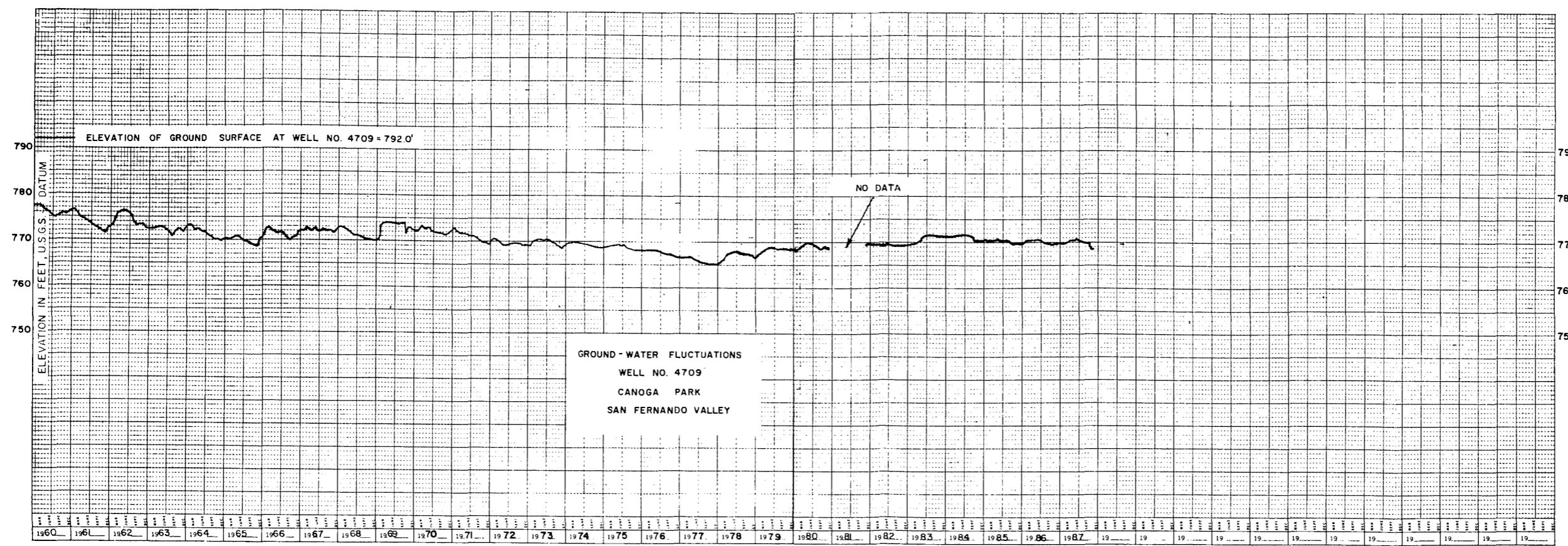
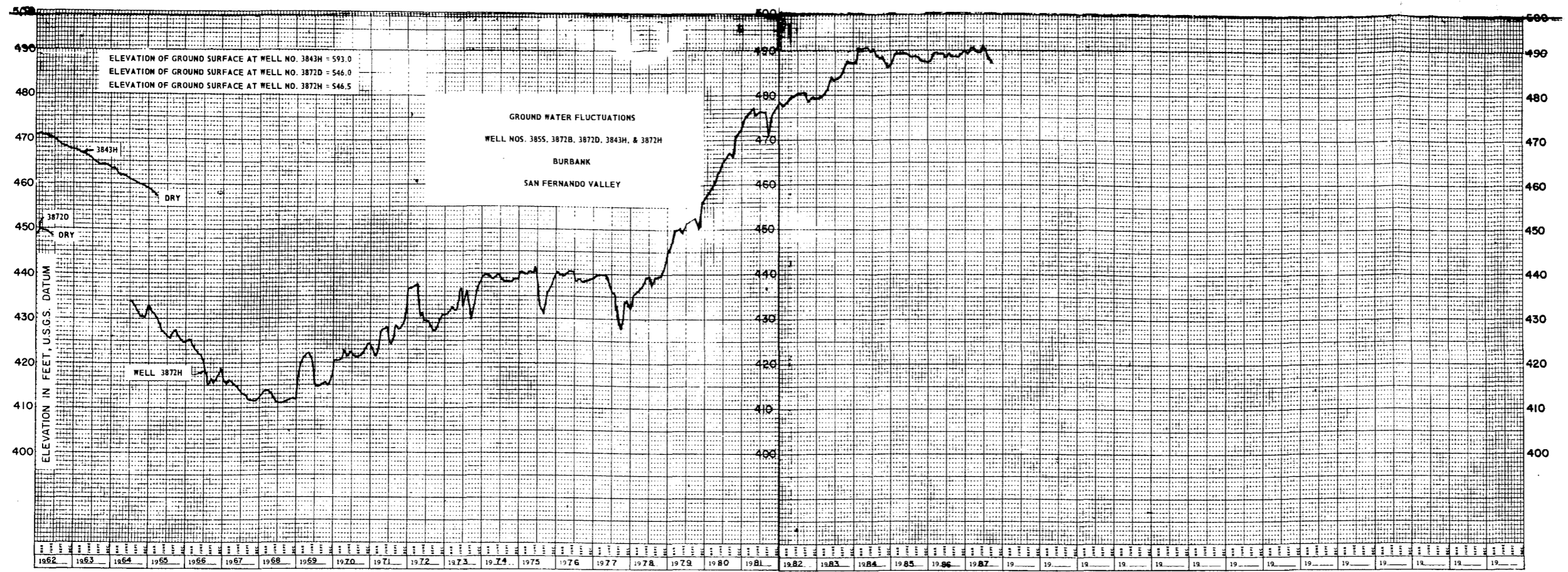












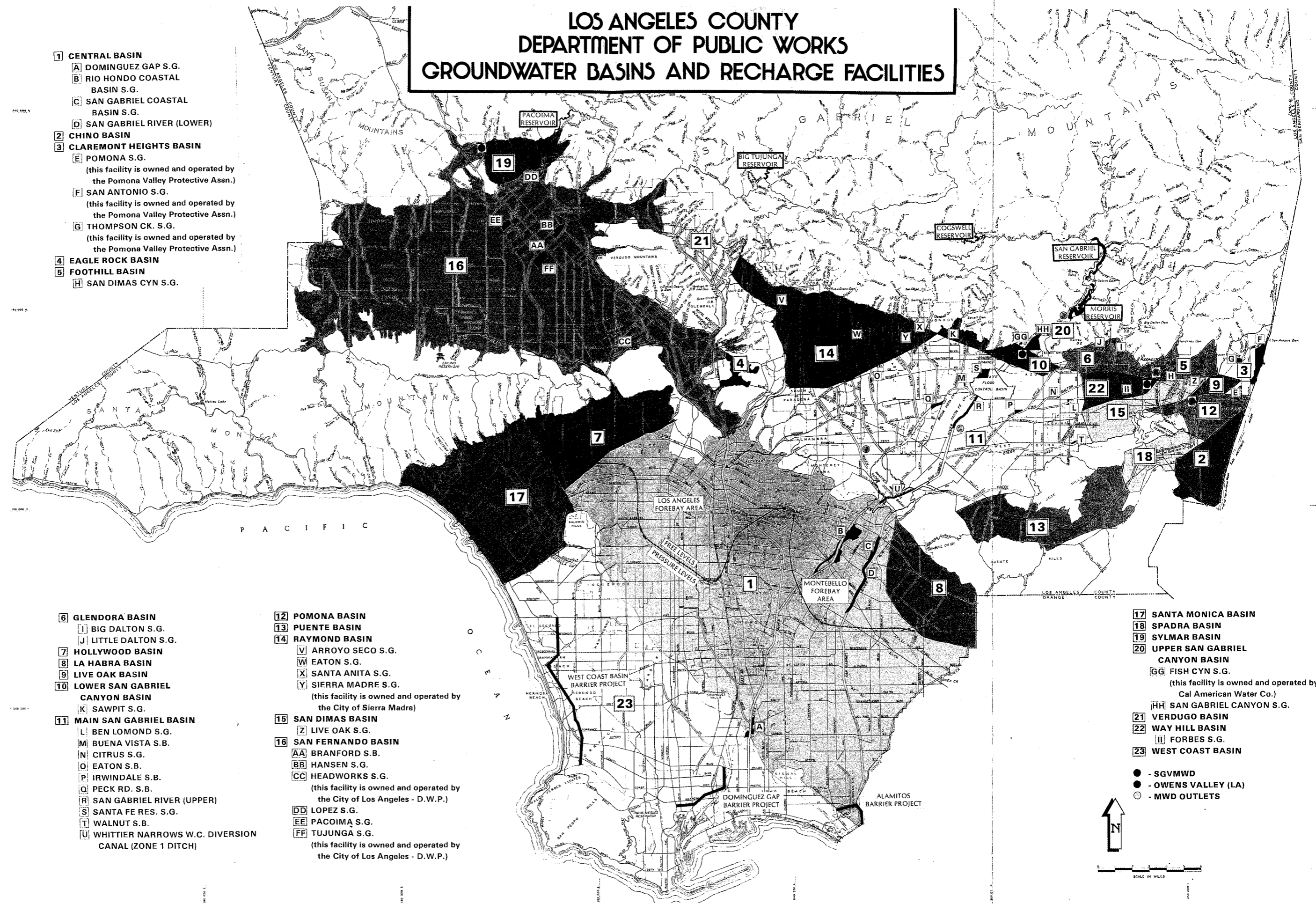
LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS GROUNDWATER BASINS AND RECHARGE FACILITIES

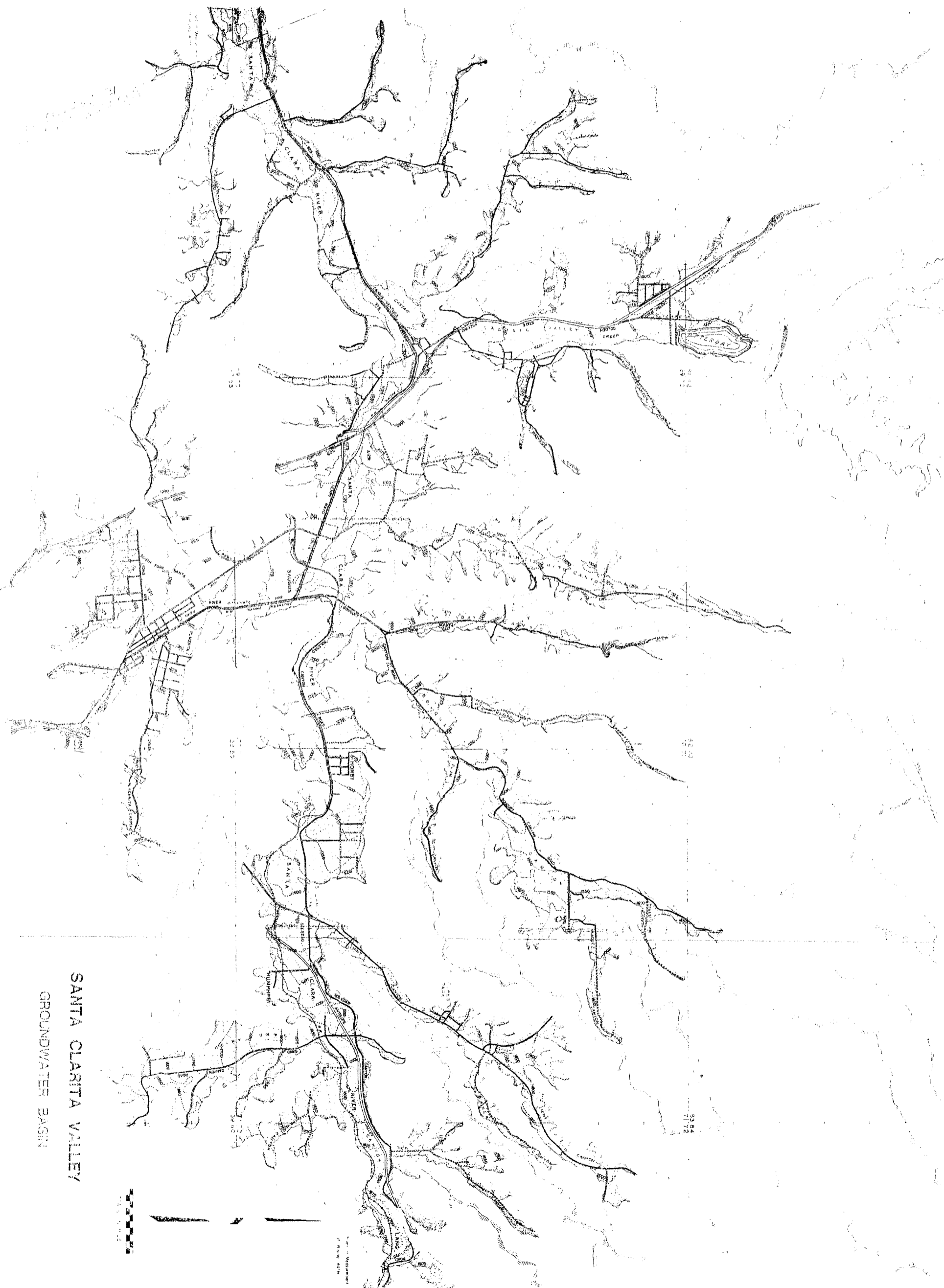
- 1 CENTRAL BASIN**
 - A DOMINGUEZ GAP S.G.
 - B RIO HONDO COASTAL BASIN S.G.
 - C SAN GABRIEL COASTAL BASIN S.G.
 - D SAN GABRIEL RIVER (LOWER)
- 2 CHINO BASIN**
- 3 CLAREMONT HEIGHTS BASIN**
 - E POMONA S.G.
(this facility is owned and operated by the Pomona Valley Protective Assn.)
 - F SAN ANTONIO S.G.
(this facility is owned and operated by the Pomona Valley Protective Assn.)
 - G THOMPSON CK. S.G.
(this facility is owned and operated by the Pomona Valley Protective Assn.)
- 4 EAGLE ROCK BASIN**
- 5 FOOTHILL BASIN**
 - H SAN DIMAS CYN S.G.

- 6 GLENDORA BASIN**
 - I BIG DALTON S.G.
 - J LITTLE DALTON S.G.
- 7 HOLLYWOOD BASIN**
- 8 LA HABRA BASIN**
- 9 LIVE OAK BASIN**
- 10 LOWER SAN GABRIEL CANYON BASIN**
 - K SAWPIT S.G.
- 11 MAIN SAN GABRIEL BASIN**
 - L BEN LOMOND S.G.
 - M BUENA VISTA S.B.
 - N CITRUS S.G.
 - O EATON S.B.
 - P IRWINDALE S.B.
 - Q PECK RD. S.B.
 - R SAN GABRIEL RIVER (UPPER)
 - S SANTA FE RES. S.G.
 - T WALNUT S.B.
 - U WHITTIER NARROWS W.C. DIVERSION CANAL (ZONE 1 DITCH)

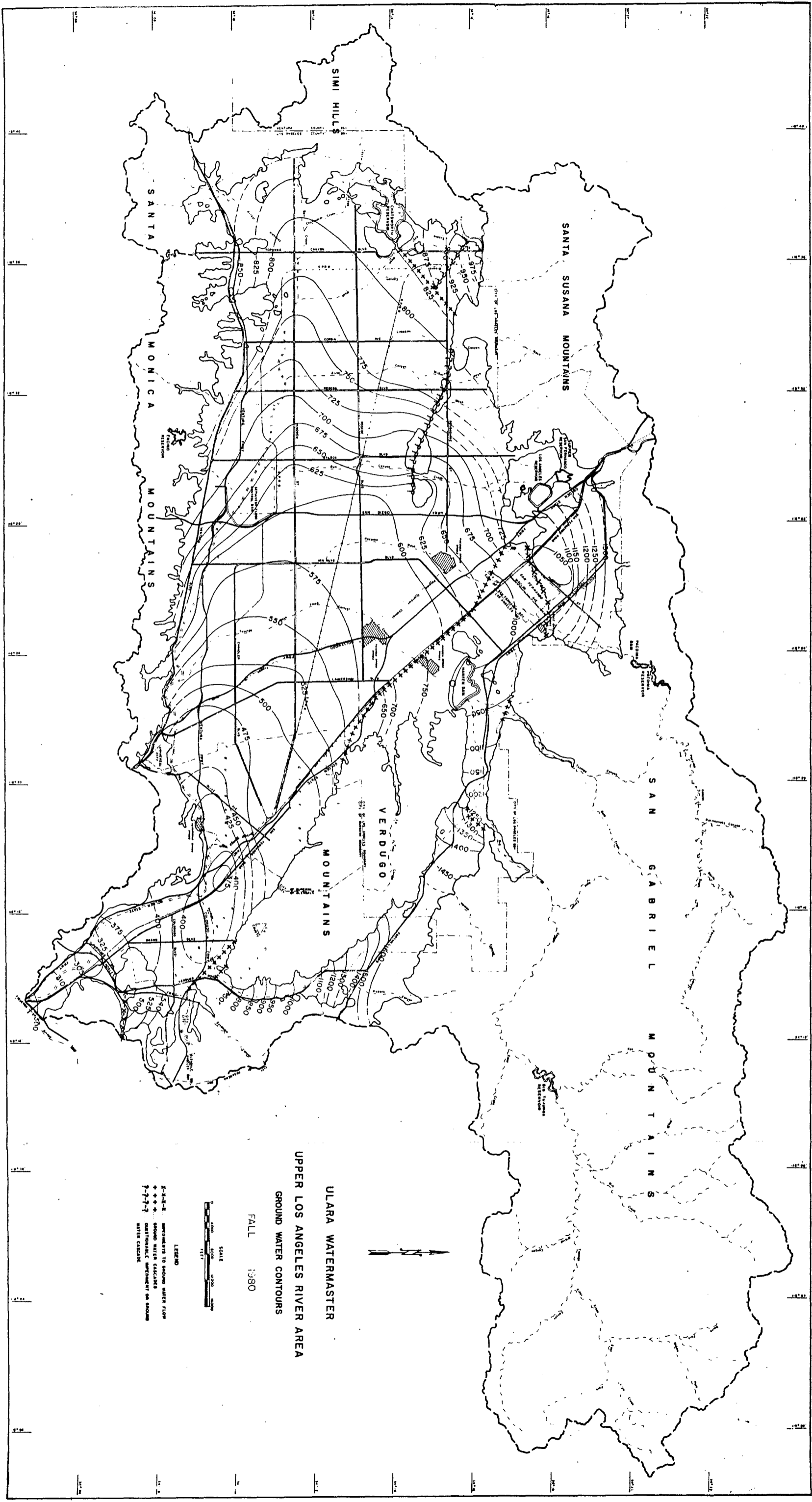
- 12 POMONA BASIN**
- 13 PUENTE BASIN**
- 14 RAYMOND BASIN**
 - V ARROYO SECO S.G.
 - W EATON S.G.
 - X SANTA ANITA S.G.
 - Y SIERRA MADRE S.G.
(this facility is owned and operated by the City of Sierra Madre)
- 15 SAN DIMAS BASIN**
 - Z LIVE OAK S.G.
- 16 SAN FERNANDO BASIN**
 - AA BRANFORD S.B.
 - BB HANSEN S.G.
 - CC HEADWORKS S.G.
(this facility is owned and operated by the City of Los Angeles - D.W.P.)
 - DD LOPEZ S.G.
 - EE PACOIMA S.G.
 - FF TUJUNGA S.G.
(this facility is owned and operated by the City of Los Angeles - D.W.P.)

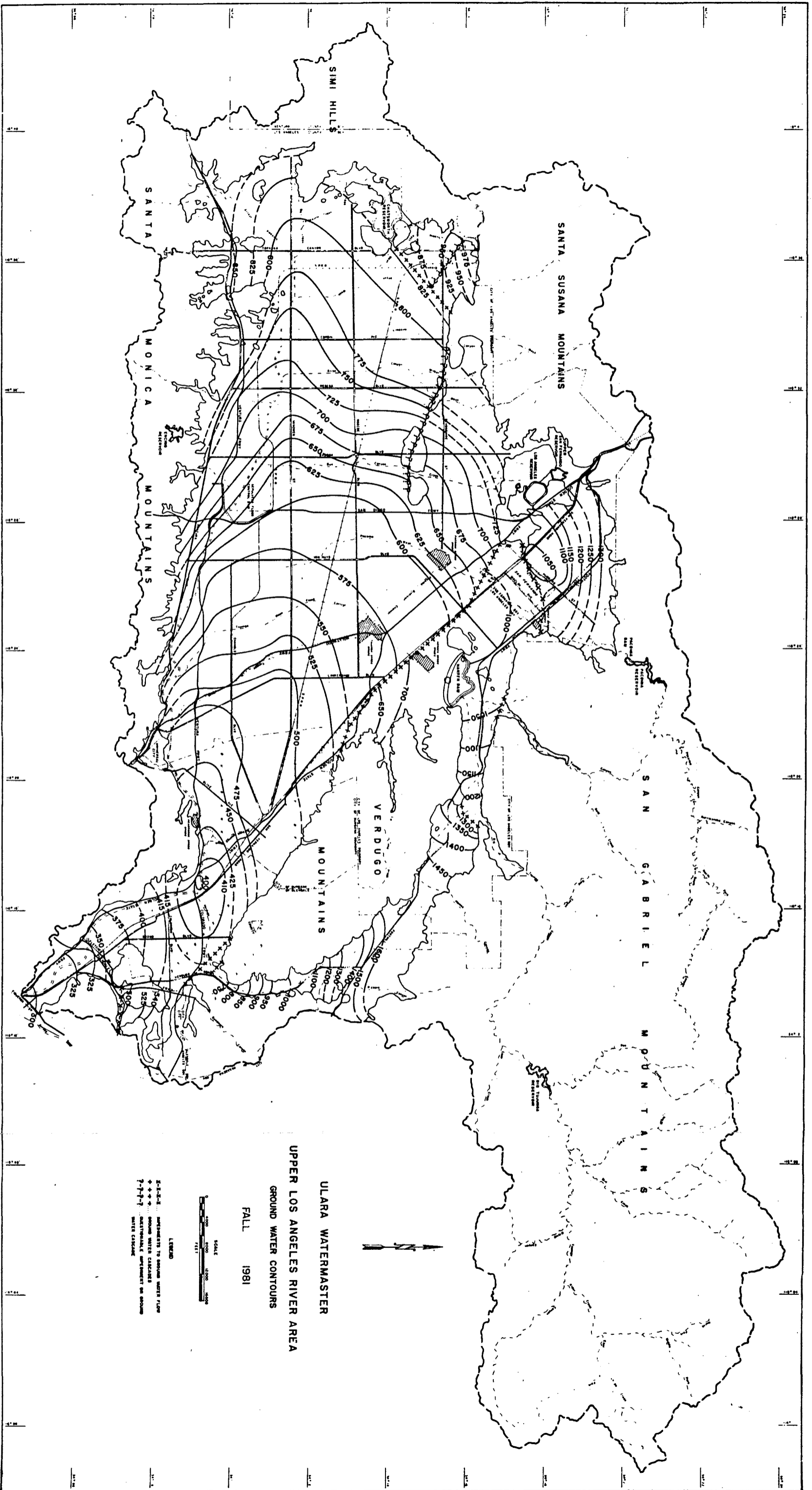
- 17 SANTA MONICA BASIN**
 - 18 SPADRA BASIN**
 - 19 SYLMAR BASIN**
 - 20 UPPER SAN GABRIEL CANYON BASIN**
 - GG FISH CYN S.G.
(this facility is owned and operated by Cal American Water Co.)
 - HH SAN GABRIEL CANYON S.G.
 - 21 VERDUGO BASIN**
 - 22 WAY HILL BASIN**
 - II FORBES S.G.
 - 23 WEST COAST BASIN**
- - SGVMWD
● - OWENS VALLEY (LA)
○ - MWD OUTLETS

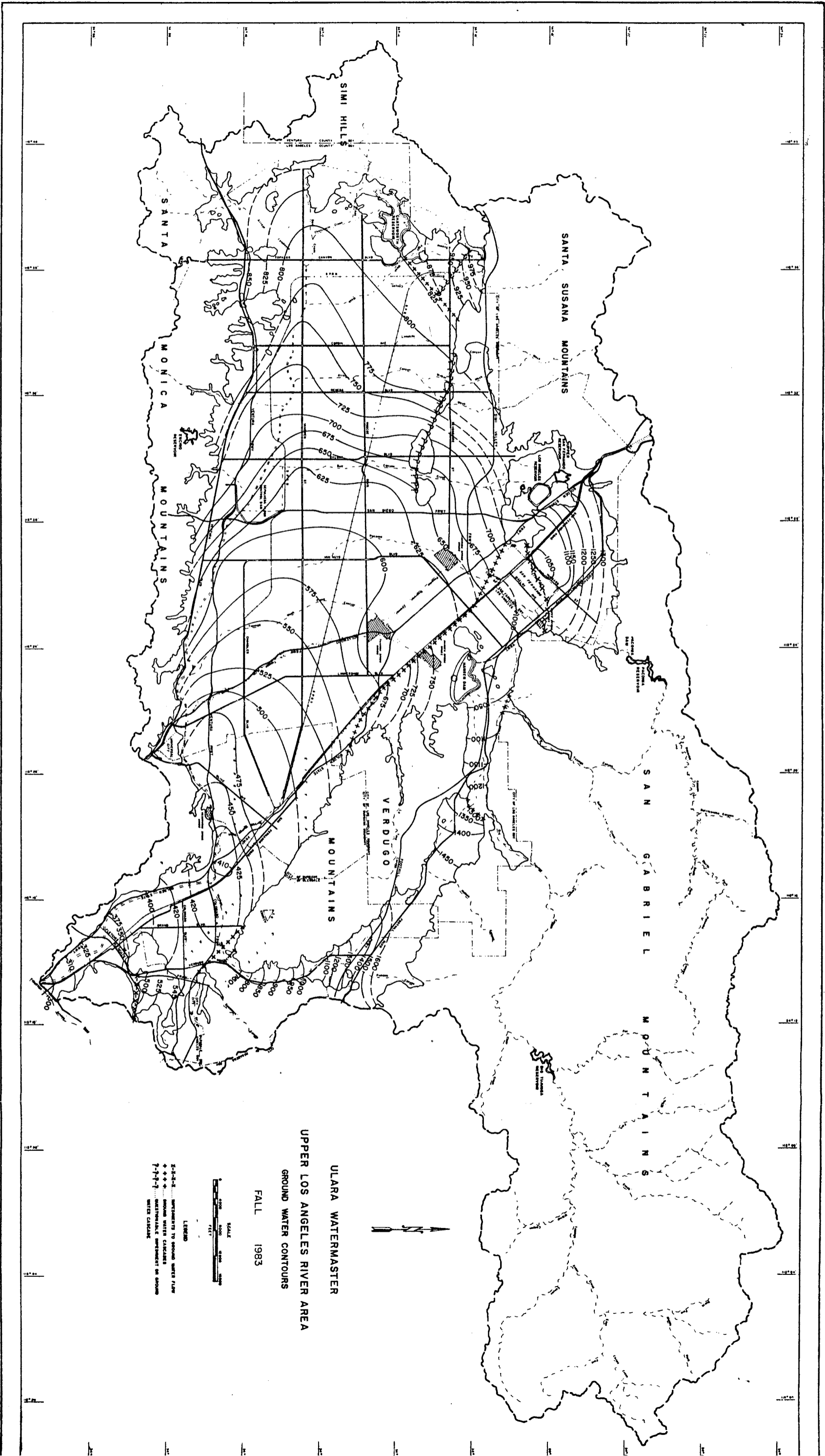




SANTA CLARITA VALLEY
GROUNDWATER BASIN



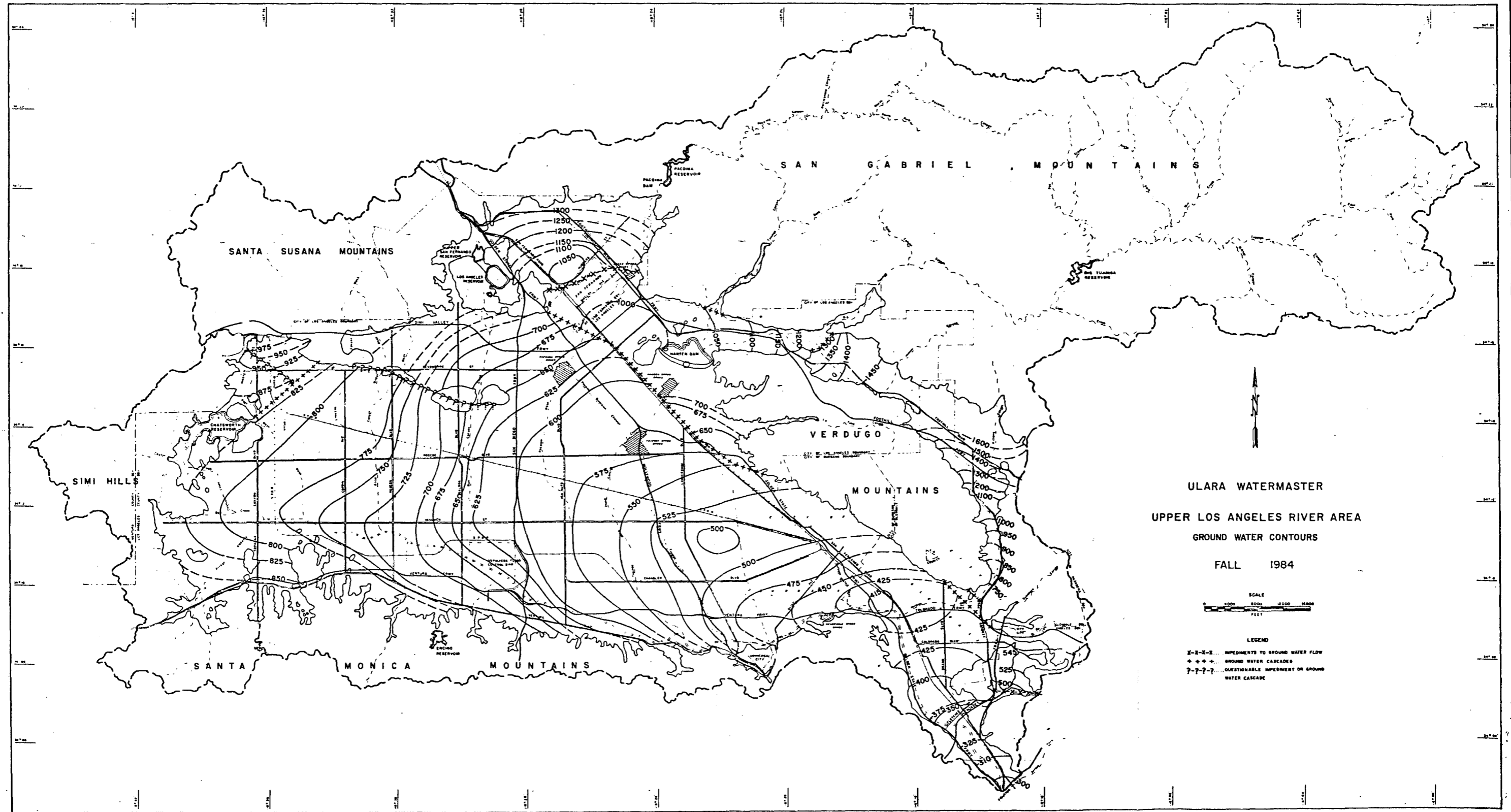




UTLARA WATERMASTER
 UPPER LOS ANGELES RIVER AREA
 GROUND WATER CONTOURS
 FALL 1983

SCALE
 0 5000 10000
 FEET

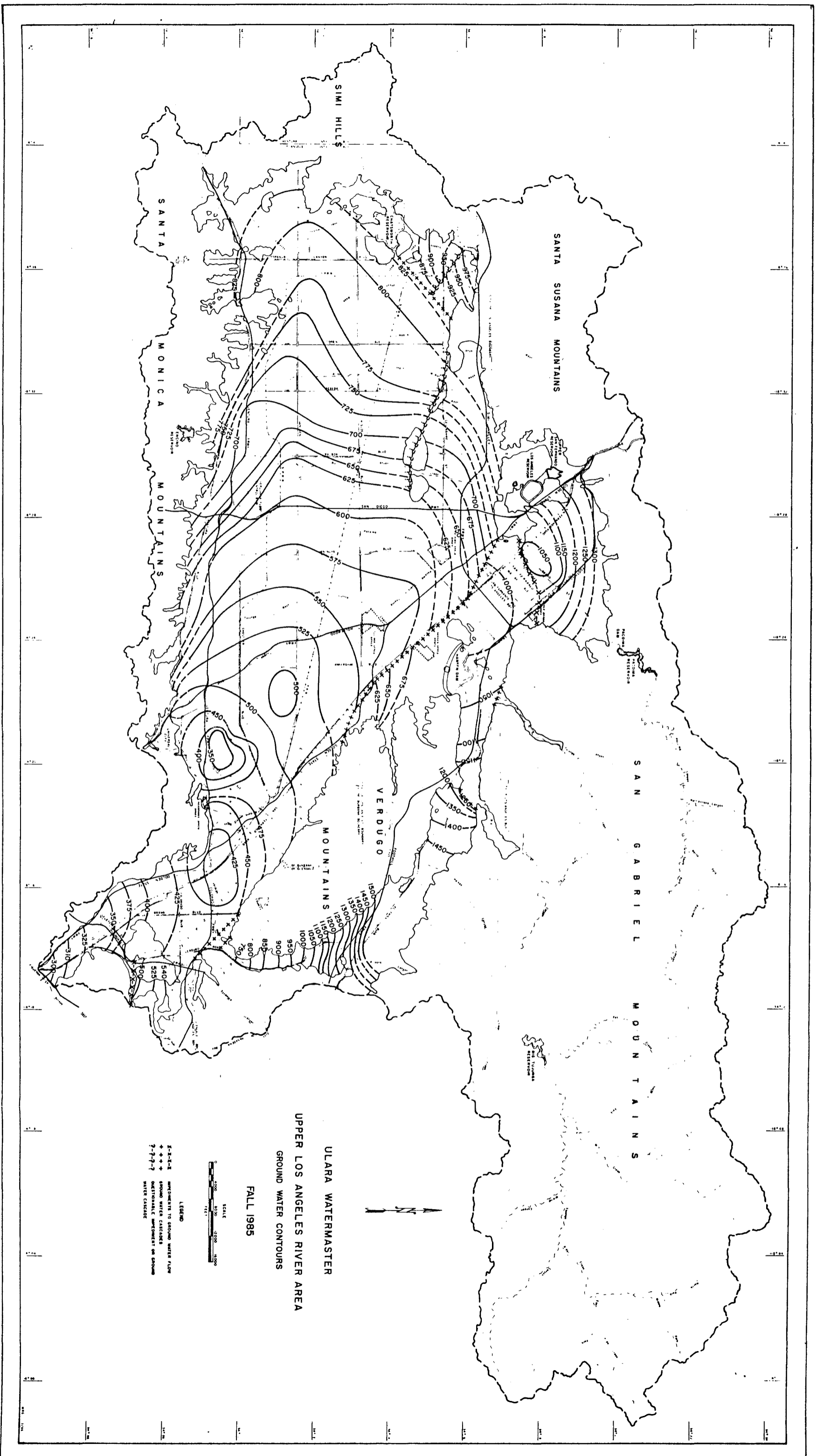
LEGEND
 - - - - - DIRECTION TO GROUND WATER FLOW
 * * * * * STREAM WATER GAUGING
 - - - - - WATER CIRCULATION
 - - - - - WATER CONDUIT



ULARA WATERMASTER
 UPPER LOS ANGELES RIVER AREA
 GROUND WATER CONTOURS
 FALL 1984

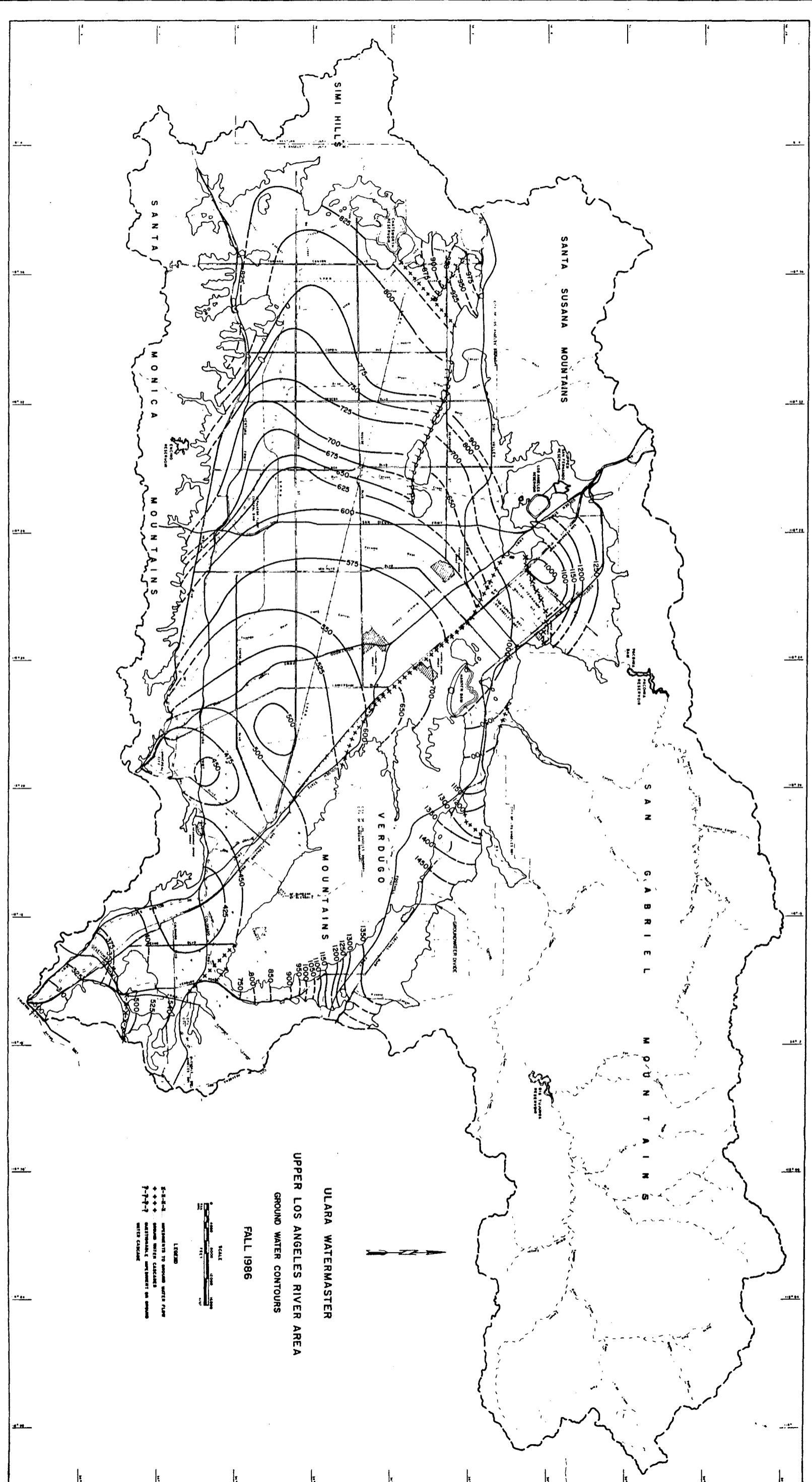


- LEGEND
- - - - - IMPEDIMENTS TO GROUND WATER FLOW
 - ♦ ♦ ♦ GROUND WATER CASCADES
 - 7-7-7 QUESTIONABLE IMPEDIMENT OR GROUND WATER CASCADE



ULARA WATERMASTER
 UPPER LOS ANGELES RIVER AREA
 GROUND WATER CONTOURS
 FALL 1985

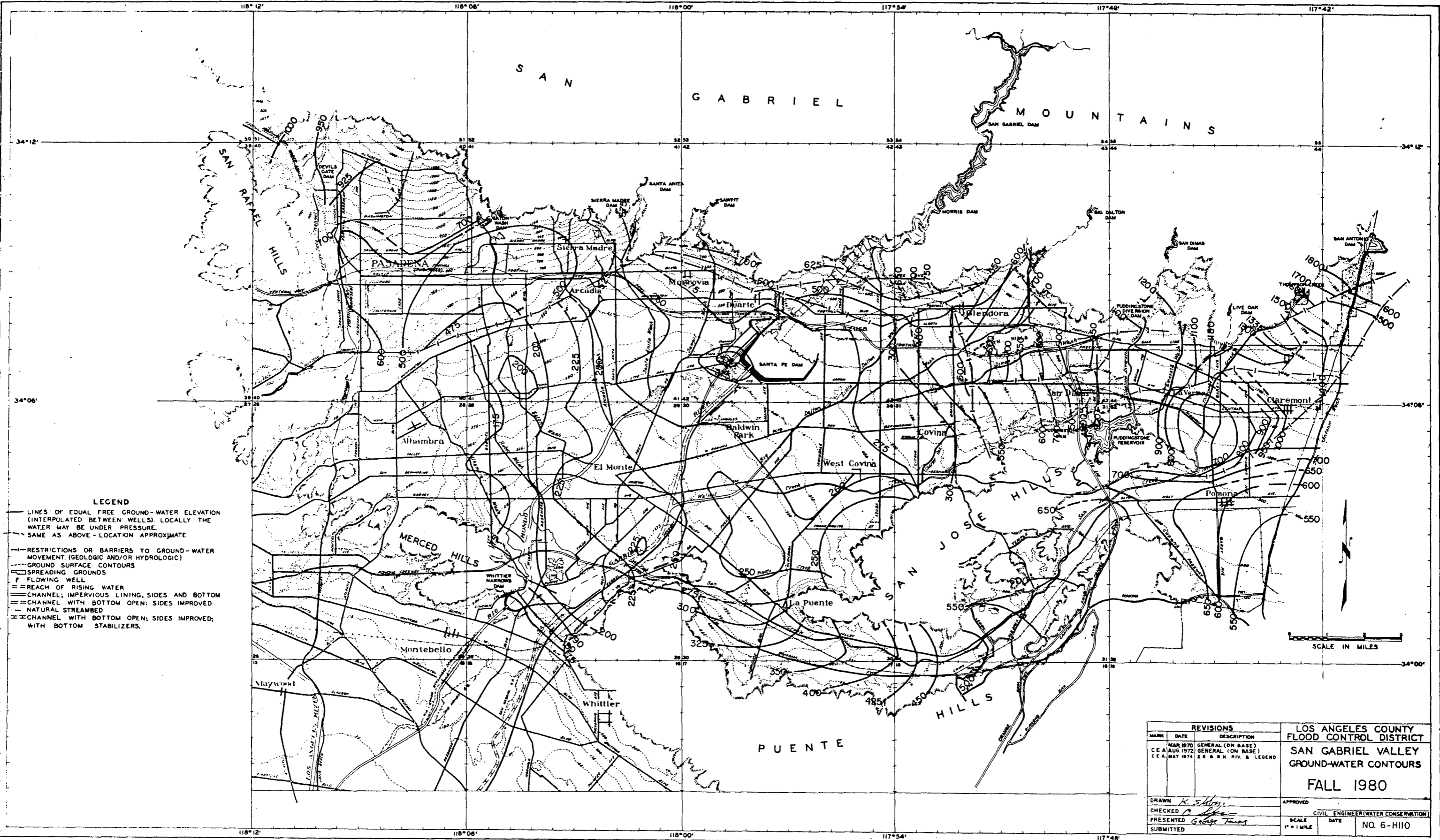
LEGEND
 - - - - - DIRECTION TO GROUND WATER FLOW
 + + + + + GROUND WATER CASINGS
 * * * * * DETAILABLE INFORMATION ON GROUND WATER CASINGS



ULARA WATERMASTER
 UPPER LOS ANGELES RIVER AREA
 GROUND WATER CONTOURS
 FALL 1986

SCALE
 0 1000 2000 3000 4000 5000
 FEET
 METERS

LEGEND
 - - - - - DIRECTION TO GROUND WATER FLOW
 + + + + + GROUND WATER CASCADES
 * * * * * METEOROLOGICAL INSTRUMENT ON GROUND WATER CASCADES



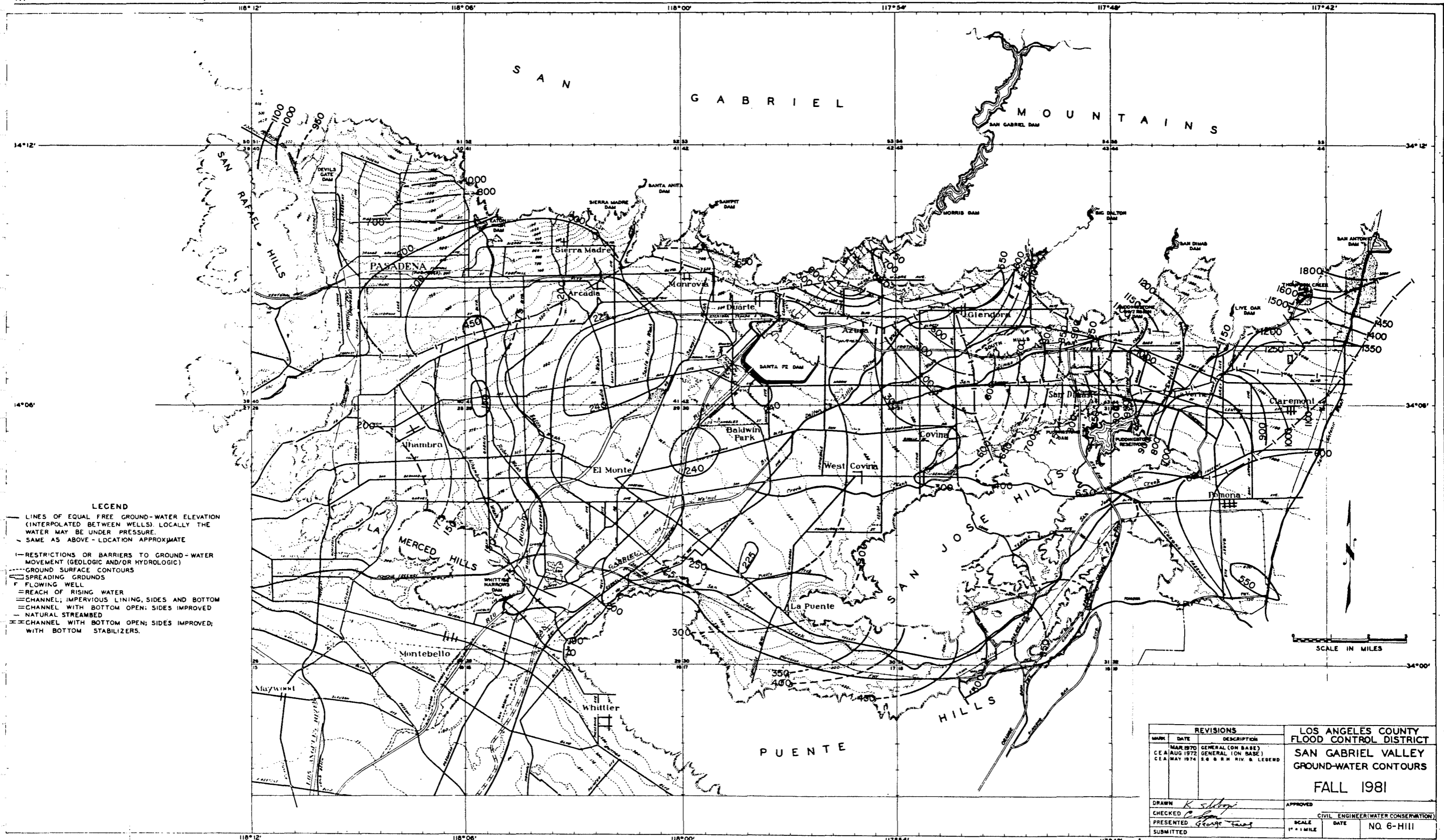
LEGEND

- LINES OF EQUAL FREE GROUND-WATER ELEVATION (INTERPOLATED BETWEEN WELLS). LOCALLY THE WATER MAY BE UNDER PRESSURE.
- - - SAME AS ABOVE - LOCATION APPROXIMATE
- RESTRICTIONS OR BARRIERS TO GROUND-WATER MOVEMENT (GEOLOGIC AND/OR HYDROLOGIC)
- - - GROUND SURFACE CONTOURS
- ▭ SPREADING GROUNDS
- ⊕ FLOWING WELL
- ≡ REACH OF RISING WATER
- ▭ CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
- ▭ CHANNEL WITH BOTTOM OPEN; SIDES IMPROVED
- - - NATURAL STREAMBED
- ▭ CHANNEL WITH BOTTOM OPEN; SIDES IMPROVED; WITH BOTTOM STABILIZERS.

SCALE IN MILES

REVISIONS			LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
MARK	DATE	DESCRIPTION	
	MAR 1970	GENERAL (ON BASE)	SAN GABRIEL VALLEY GROUND-WATER CONTOURS FALL 1980
CE A	AUG 1972	GENERAL (ON BASE)	
CE A	MAY 1974	SS & R.M. RIV. & LEGEND	
DRAWN <i>K. Shuman</i>			APPROVED
CHECKED <i>A. [Signature]</i>			CIVIL ENGINEER (WATER CONSERVATION)
PRESENTED <i>George [Signature]</i>			SCALE 1" = 1 MILE
SUBMITTED			DATE
			NO. 6-1110

01110



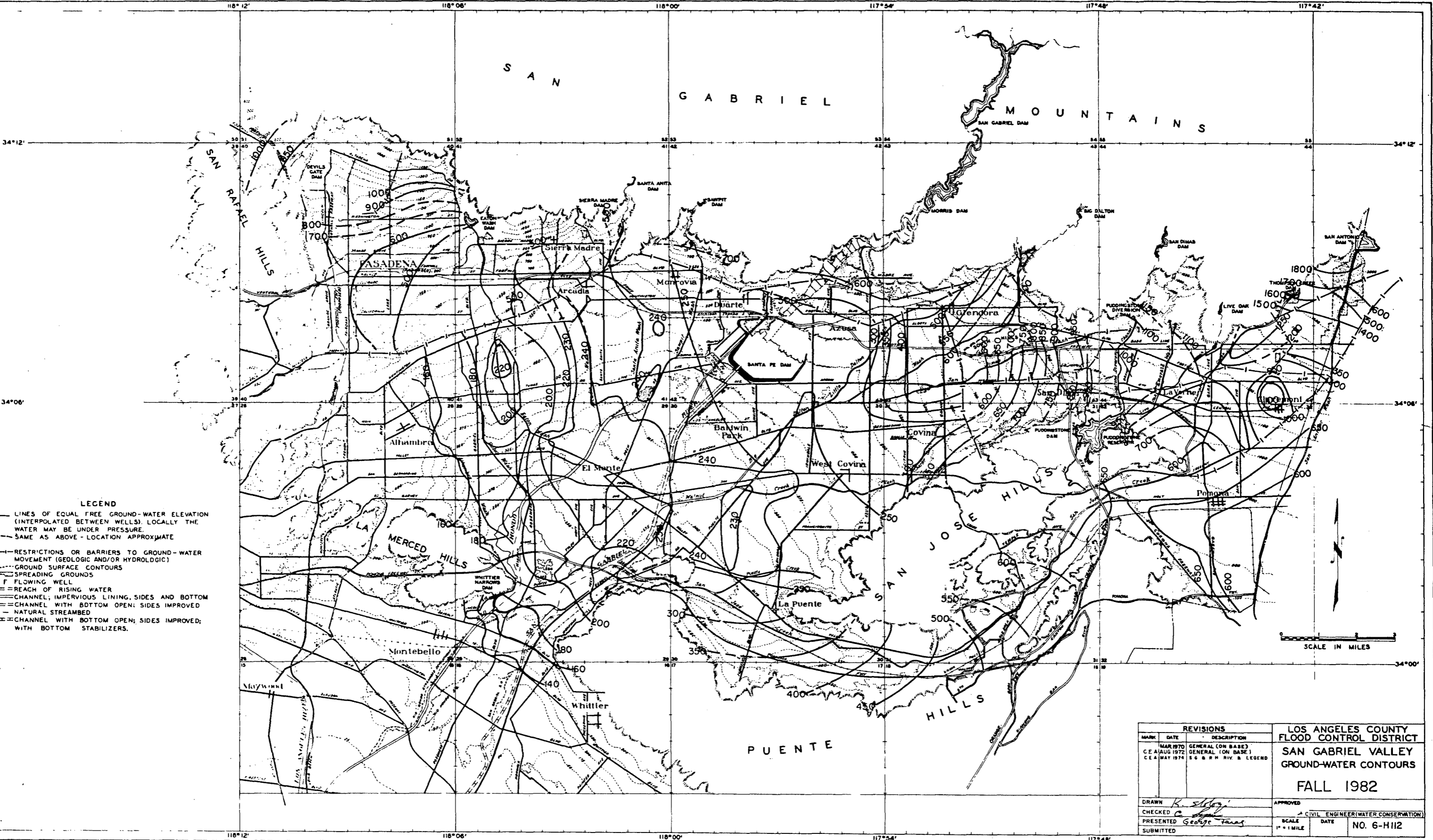
LEGEND

- LINES OF EQUAL FREE GROUND-WATER ELEVATION (INTERPOLATED BETWEEN WELLS). LOCALLY THE WATER MAY BE UNDER PRESSURE.
- - - SAME AS ABOVE - LOCATION APPROXIMATE
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- 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 STREAMBED
- CHANNEL WITH BOTTOM OPEN; SIDES IMPROVED; WITH BOTTOM STABILIZERS.

SCALE IN MILES

REVISIONS			LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
MARK	DATE	DESCRIPTION	
	MAR 1970	GENERAL (ON BASE)	SAN GABRIEL VALLEY GROUND-WATER CONTOURS FALL 1981
CE	AUG 1972	GENERAL (ON BASE)	
CE	MAY 1974	20' & 40' R.V. & LEGEND	
DRAWN <i>K. Sillig</i>			APPROVED
CHECKED <i>C. [Signature]</i>			CIVIL ENGINEER (WATER CONSERVATION)
PRESENTED <i>George [Signature]</i>			SCALE DATE
SUBMITTED			1" = 1 MILE NO. 6-HIII

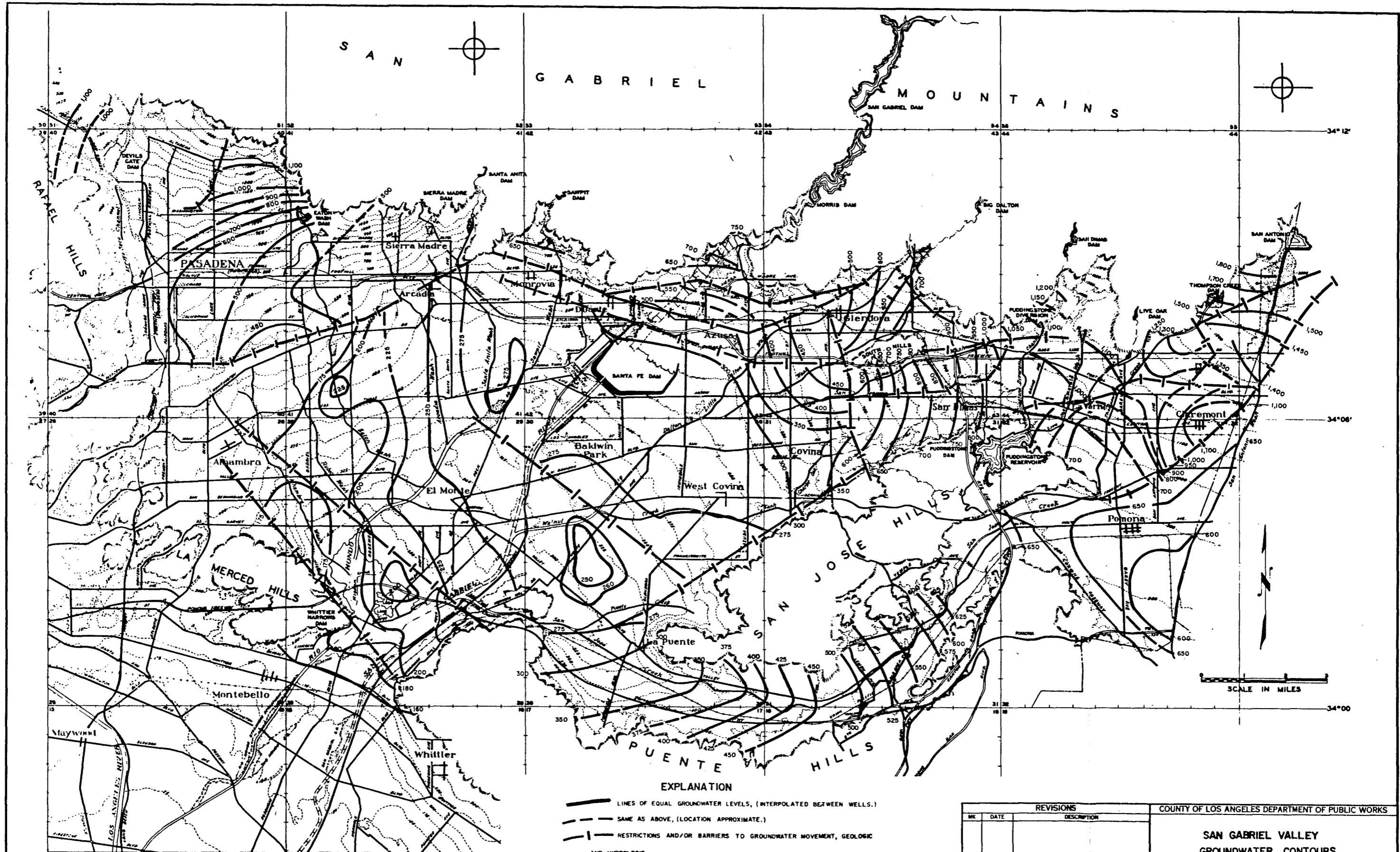
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LEGEND

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

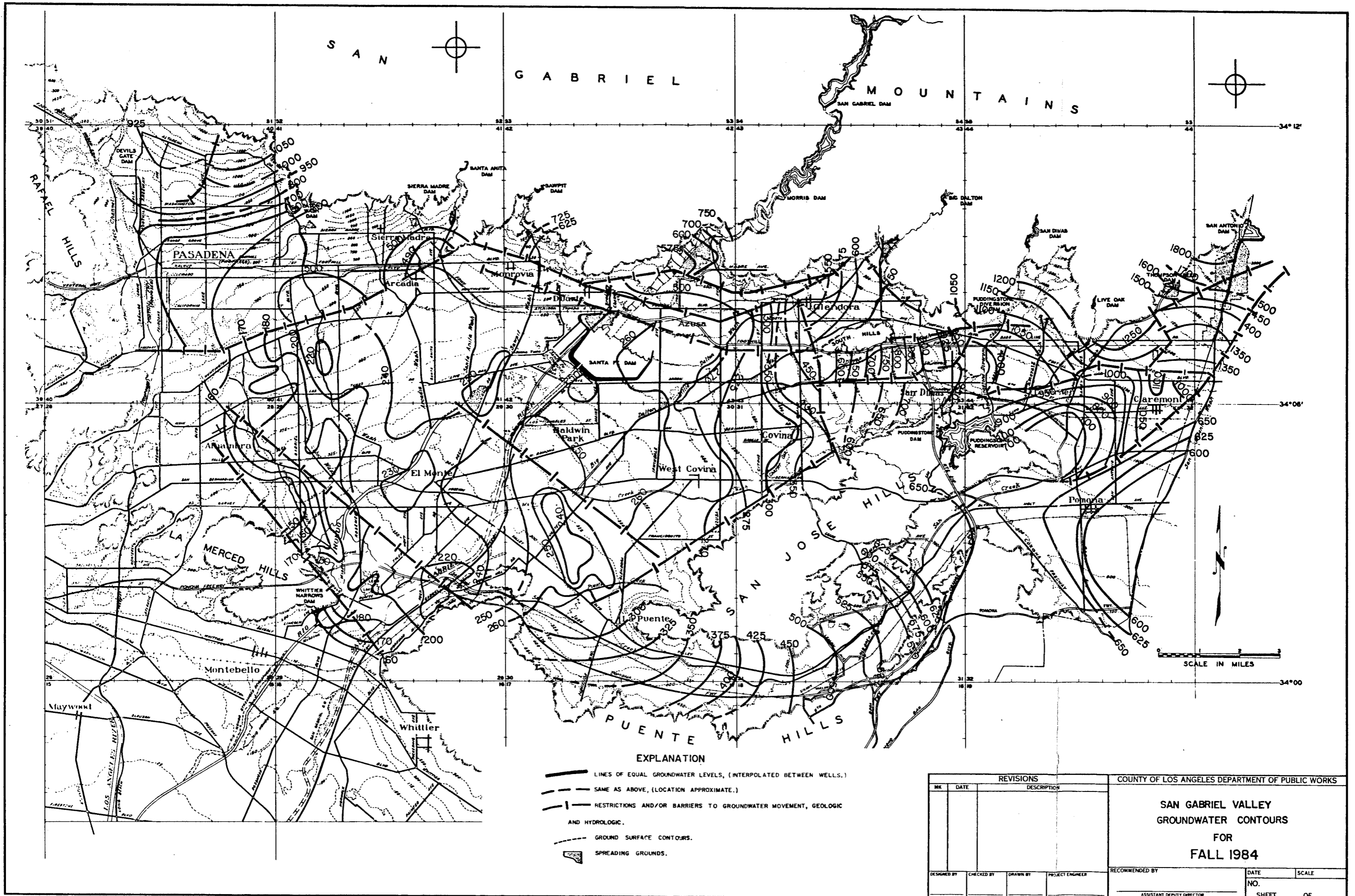
REVISIONS		LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
MARK	DATE	
	MAR 1970	GENERAL (ON BASE)
	CE AUG 1972	GENERAL (ON BASE)
	CE MAY 1974	SG & RM RIV. & LEGEND
		SAN GABRIEL VALLEY GROUND-WATER CONTOURS
		FALL 1982
DRAWN <i>K. S. [Signature]</i>		APPROVED
CHECKED <i>C. [Signature]</i>		CIVIL ENGINEER (WATER CONSERVATION)
PRESENTED <i>George [Signature]</i>		SCALE 1" = 1 MILE
SUBMITTED		DATE NO. 6-HI12








EXPLANATION

-  LINES OF EQUAL GROUNDWATER LEVELS, (INTERPOLATED BETWEEN WELLS.)
-  SAME AS ABOVE, (LOCATION APPROXIMATE.)
-  RESTRICTIONS AND/OR BARRIERS TO GROUNDWATER MOVEMENT, GEOLOGIC AND HYDROLOGIC.
-  GROUND SURFACE CONTOURS.
-  SPREADING GROUNDS.

REVISIONS				COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS			
NO.	DATE	DESCRIPTION					
				SAN GABRIEL VALLEY GROUNDWATER CONTOURS FOR FALL 1983			
DESIGNED BY	CHECKED BY	DRAWN BY	PROJECT ENGINEER				
				ASSISTANT DEPUTY DIRECTOR		NO.	SHEET OF

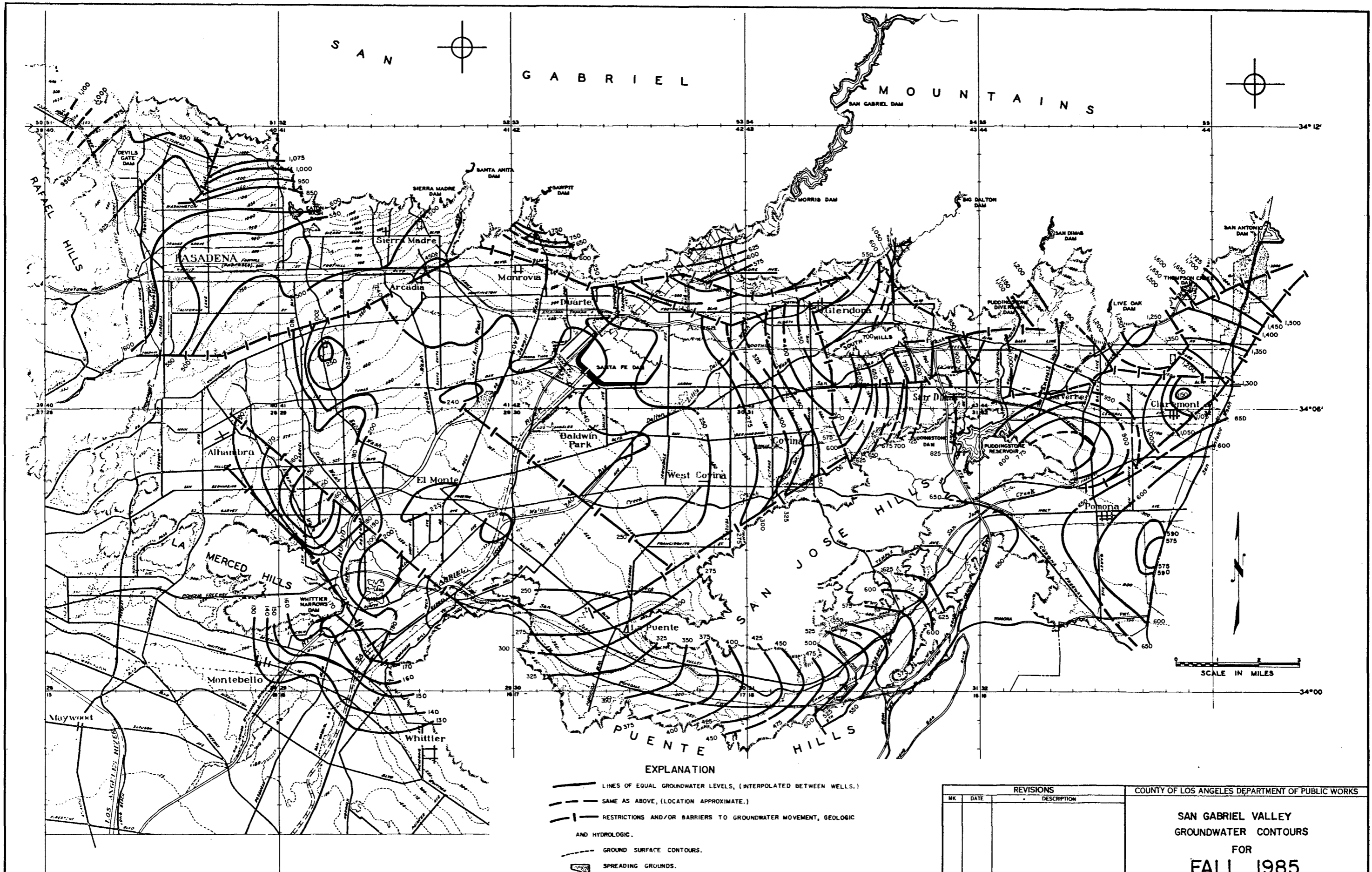


EXPLANATION

-  LINES OF EQUAL GROUNDWATER LEVELS, (INTERPOLATED BETWEEN WELLS.)
-  SAME AS ABOVE, (LOCATION APPROXIMATE.)
-  RESTRICTIONS AND/OR BARRIERS TO GROUNDWATER MOVEMENT, GEOLOGIC AND HYDROLOGIC.
-  GROUND SURFACE CONTOURS.
-  SPREADING GROUNDS.

REVISIONS			
MK	DATE	DESCRIPTION	
DESIGNED BY	CHECKED BY	DRAWN BY	PROJECT ENGINEER

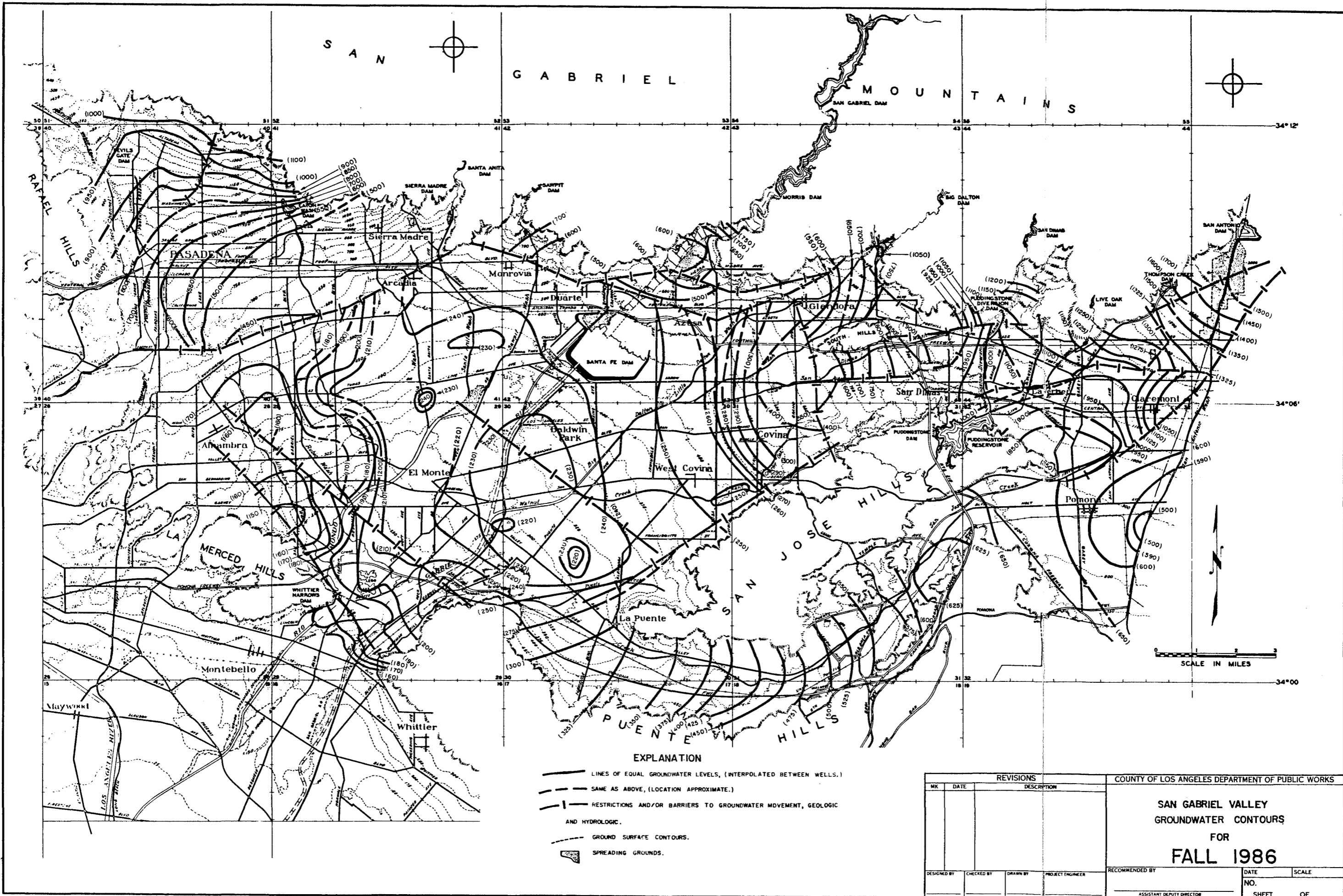
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS			
SAN GABRIEL VALLEY GROUNDWATER CONTOURS FOR FALL 1984			
RECOMMENDED BY	DATE	SCALE	
ASSISTANT DEPUTY DIRECTOR	NO.	SHEET OF	








- EXPLANATION**
- LINES OF EQUAL GROUNDWATER LEVELS, (INTERPOLATED BETWEEN WELLS.)
 - - - SAME AS ABOVE, (LOCATION APPROXIMATE.)
 - |-| RESTRICTIONS AND/OR BARRIERS TO GROUNDWATER MOVEMENT, GEOLOGIC AND HYDROLOGIC.
 - - - GROUND SURFACE CONTOURS.
 - ◻ SPREADING GROUNDS.

REVISIONS				COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS	
MK	DATE	DESCRIPTION			
DESIGNED BY				RECOMMENDED BY	
CHECKED BY				DATE	
DRAWN BY				SCALE	
PROJECT ENGINEER				NO.	
ASSISTANT DEPUTY DIRECTOR				SHEET OF	

SAN GABRIEL VALLEY
GROUNDWATER CONTOURS
 FOR
FALL 1985



EXPLANATION

-  LINES OF EQUAL GROUNDWATER LEVELS, (INTERPOLATED BETWEEN WELLS.)
-  SAME AS ABOVE, (LOCATION APPROXIMATE.)
-  RESTRICTIONS AND/OR BARRIERS TO GROUNDWATER MOVEMENT, GEOLOGIC AND HYDROLOGIC.
-  GROUND SURFACE CONTOURS.
-  SPREADING GROUNDS.

REVISIONS				COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS	
MK	DATE	DESCRIPTION			
DESIGNED BY				RECOMMENDED BY	
CHECKED BY				DATE	
DRAWN BY				SCALE	
PROJECT ENGINEER				NO.	
ASSISTANT DEPUTY DIRECTOR				SHEET OF	

**SAN GABRIEL VALLEY
GROUNDWATER CONTOURS
FOR
FALL 1986**



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, IMPROVED
- NATURAL STREAMBED
- INJECTION RECHARGE LINE
- == CHANNEL WITH BOTTOM OPEN, SIDES IMPROVED, WITH BOTTOM STABILIZERS

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.

REVISIONS			LOS ANGELES COUNTY FLOOD CONTROL DISTRICT	
NO.	DATE	DESCRIPTION		
MAR 1970	GENERAL (ON BASE)		COASTAL PLAIN GROUND-WATER CONTOURS DEEP AQUIFERS FALL 1980	
JUN 1974	S.S. & R.W. REV. & LEGEND LINES			
DRAWN	S. M. S. S.		APPROVED	
CHECKED			CIVIL ENGINEER (WATER CONSERVATION)	
PRESENTED			SCALE	DATE
SUBMITTED			1" = 1 MILE	NO 2-H249



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 1923, O.W.R. BULL. NO. 43)
- GROUND SURFACE CONTOURS
- SPREADING GROUNDS
- == REACH OF RISING WATER
- == CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
- == CHANNEL WITH BOTTOM OPEN; SIDES, IMPROVED
- NATURAL STREAMBED
- INJECTION RECHARGE LINE
- CHANNEL WITH BOTTOM OPEN; SIDES IMPROVED, WITH BOTTOM STABILIZERS

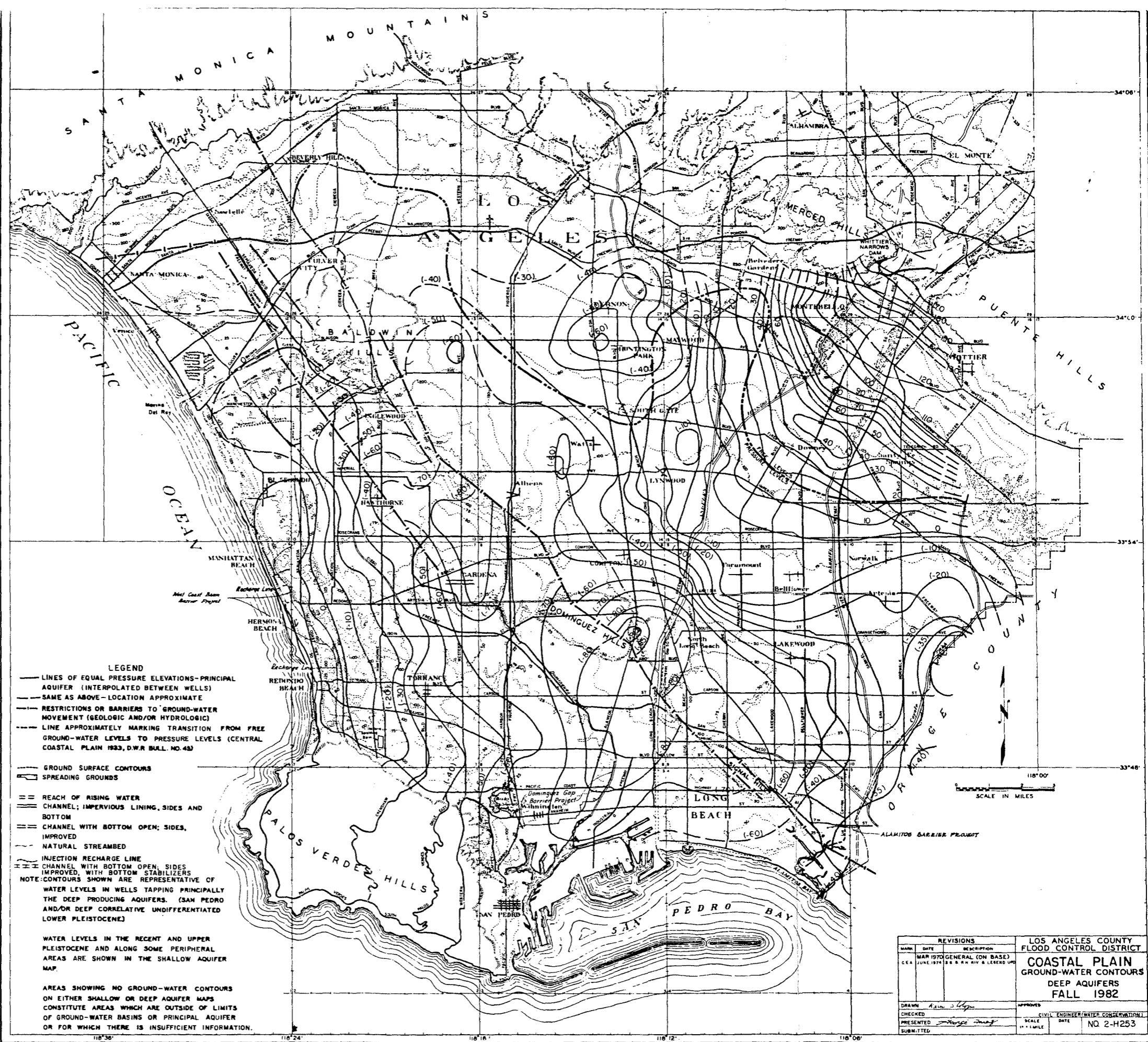
NOTE: CONTOURS SHOWN ARE REPRESENTATIVE OF WATER LEVELS IN WELLS TAPPING PRINCIPALLY THE DEEP PRODUCING AQUIFERS. (SAN PEDRO AND/OR DEEP CORRELATIVE UNDIFFERENTIATED LOWER PLEISTOCENE)

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.

REVISIONS			LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
NO.	DATE	DESCRIPTION	
1	MAR 1970	GENERAL (ON BASE)	COASTAL PLAIN GROUND-WATER CONTOURS DEEP AQUIFERS FALL 1981
2	JUNE 1974	S & B RIV & LEGEND UPD	
DRAWN <i>James S. Hagan</i>			APPROVED
CHECKED <i>George J. Hagan</i>			CIVIL ENGINEER WATER CONSERVATION
PRESENTED <i>George J. Hagan</i>			SCALE 1" = 1 MILE DATE NO 2-H251
SUBMITTED			

S-1522



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. 43)
- GROUND SURFACE CONTOURS
- ▭ SPREADING GROUNDS
- == REACH OF RISING WATER
- == CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
- == CHANNEL WITH BOTTOM OPEN; SIDES, IMPROVED
- NATURAL STREAMBED
- INJECTION RECHARGE LINE
- == CHANNEL WITH BOTTOM OPEN; SIDES IMPROVED, WITH BOTTOM STABILIZERS

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)

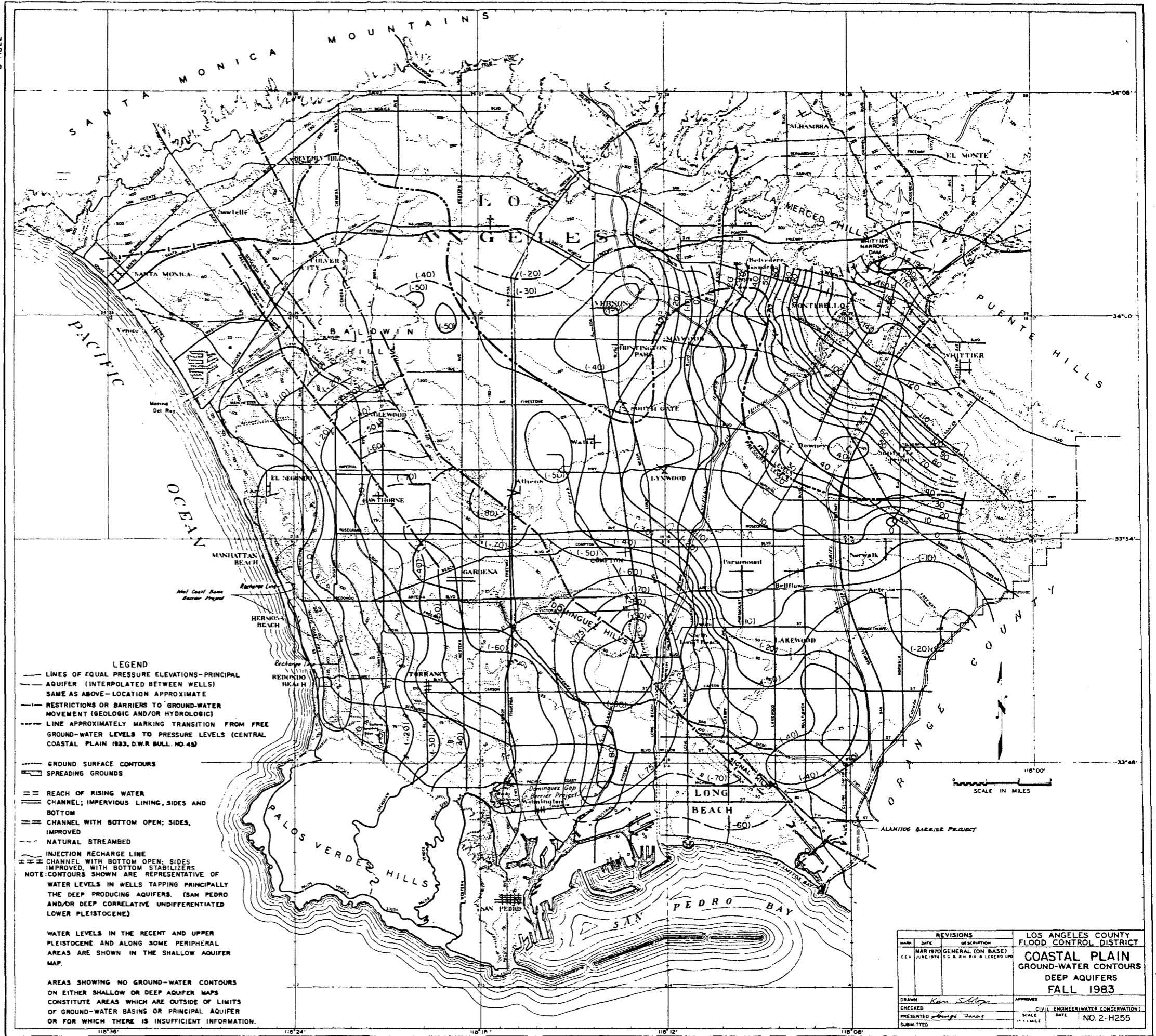
WATER LEVELS IN THE RECENT AND UPPER PLEISTOCENE AND ALONG SOME PERIPHERAL AREAS ARE SHOWN IN THE SHALLOW AQUIFER MAP.

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.

REVISIONS			LOS ANGELES COUNTY FLOOD CONTROL DISTRICT	
NO.	DATE	DESCRIPTION		
1	MAR 1970	GENERAL (ON BASE)	COASTAL PLAIN GROUND-WATER CONTOURS DEEP AQUIFERS FALL 1982	
2	JUN 1978	BY R.H. & R.H. & L.E. & D.C.		
DRAWN: <i>A. J. ...</i>			APPROVED: _____	
CHECKED: _____			SCALE: 1" = 1 MILE	
PRESENTED: _____			DATE: _____	
SUBMITTED: _____			NO. 2-H253	

NO. S-1522

S-H522



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. 43)
- GROUND SURFACE CONTOURS
- SPREADING GROUNDS
- == REACH OF RISING WATER
- == CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
- == CHANNEL WITH BOTTOM OPEN; SIDES, IMPROVED
- NATURAL STREAMBED
- INJECTION RECHARGE LINE
- == CHANNEL WITH BOTTOM OPEN; SIDES IMPROVED, WITH BOTTOM STABILIZERS

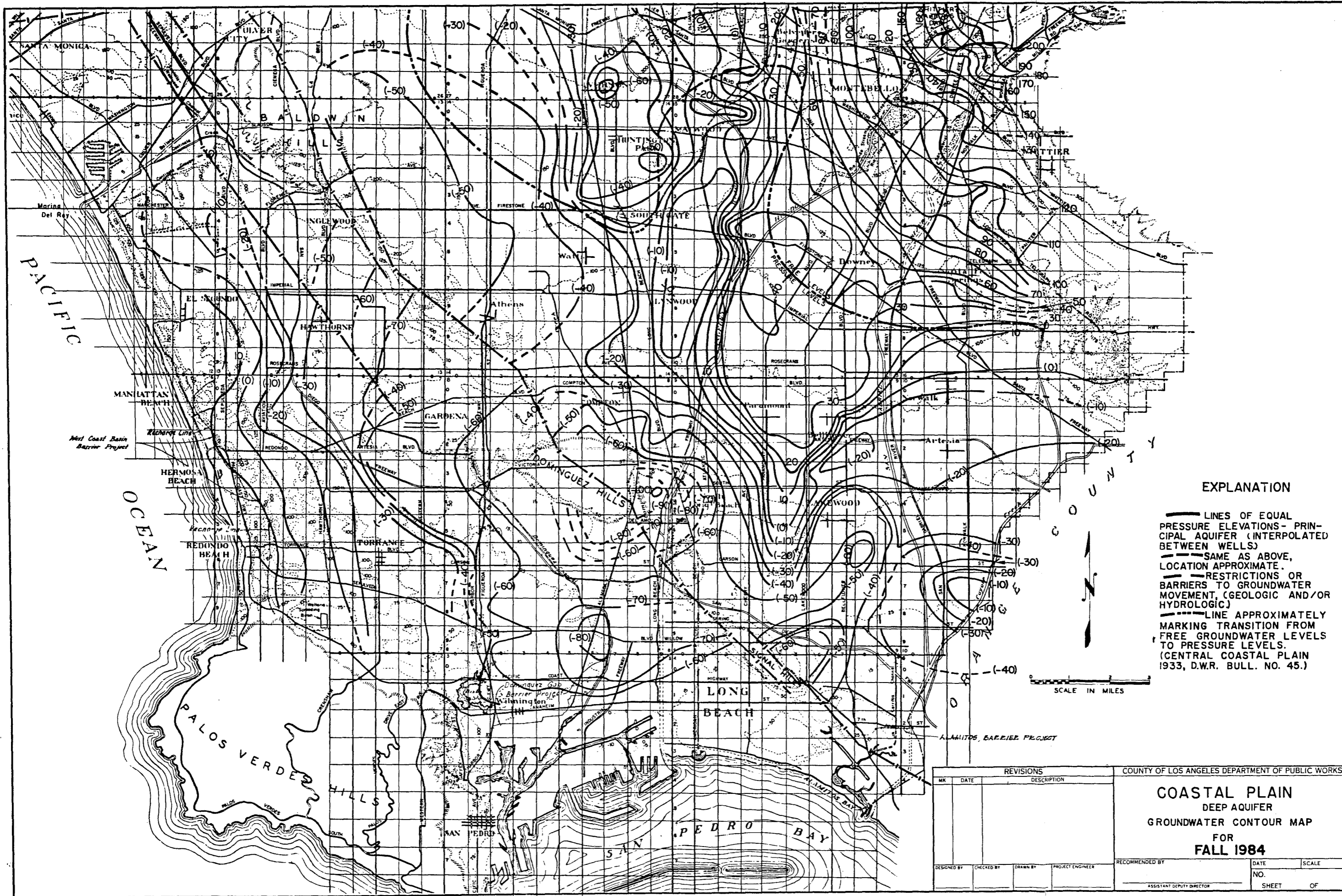
NOTE: CONTOURS SHOWN ARE REPRESENTATIVE OF WATER LEVELS IN WELLS TAPPING PRINCIPALLY THE DEEP PRODUCING AQUIFERS. (SAN PEDRO AND/OR DEEP CORRELATIVE UNDIFFERENTIATED LOWER PLEISTOCENE)

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.

REVISIONS			LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
NO.	DATE	DESCRIPTION	
1	MAR 1970	GENERAL (ON BASE)	COASTAL PLAIN GROUND-WATER CONTOURS DEEP AQUIFERS FALL 1983
2	JUNE 1974	50 & 60' RIV & LEGEND UPD	
DRAWN: <i>Kevin Sallege</i>			APPROVED: _____
CHECKED: _____			CIVIL ENGINEER (WATER CONSERVATION)
PRESENTED: <i>George Davis</i>			SCALE: 1" = 1 MILE
SUBMITTED: _____			DATE: _____
			NO. 2-H255

S-H522



EXPLANATION

- LINES OF EQUAL PRESSURE ELEVATIONS - PRINCIPAL AQUIFER (INTERPOLATED BETWEEN WELLS)
- - - SAME AS ABOVE, LOCATION APPROXIMATE.
- RESTRICTIONS OR BARRIERS TO GROUNDWATER MOVEMENT, (GEOLOGIC AND/OR HYDROLOGIC)
- - - LINE APPROXIMATELY MARKING TRANSITION FROM FREE GROUNDWATER LEVELS TO PRESSURE LEVELS. (CENTRAL COASTAL PLAIN 1933, D.W.R. BULL. NO. 45.)

SCALE IN MILES

REVISIONS				COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS	
NO.	DATE	DESCRIPTION	DESIGNED BY	CHECKED BY	PROJECT ENGINEER

COASTAL PLAIN DEEP AQUIFER GROUNDWATER CONTOUR MAP FOR FALL 1984		
RECOMMENDED BY	DATE	SCALE
ASSISTANT DEPUTY DIRECTOR	NO.	SHEET OF

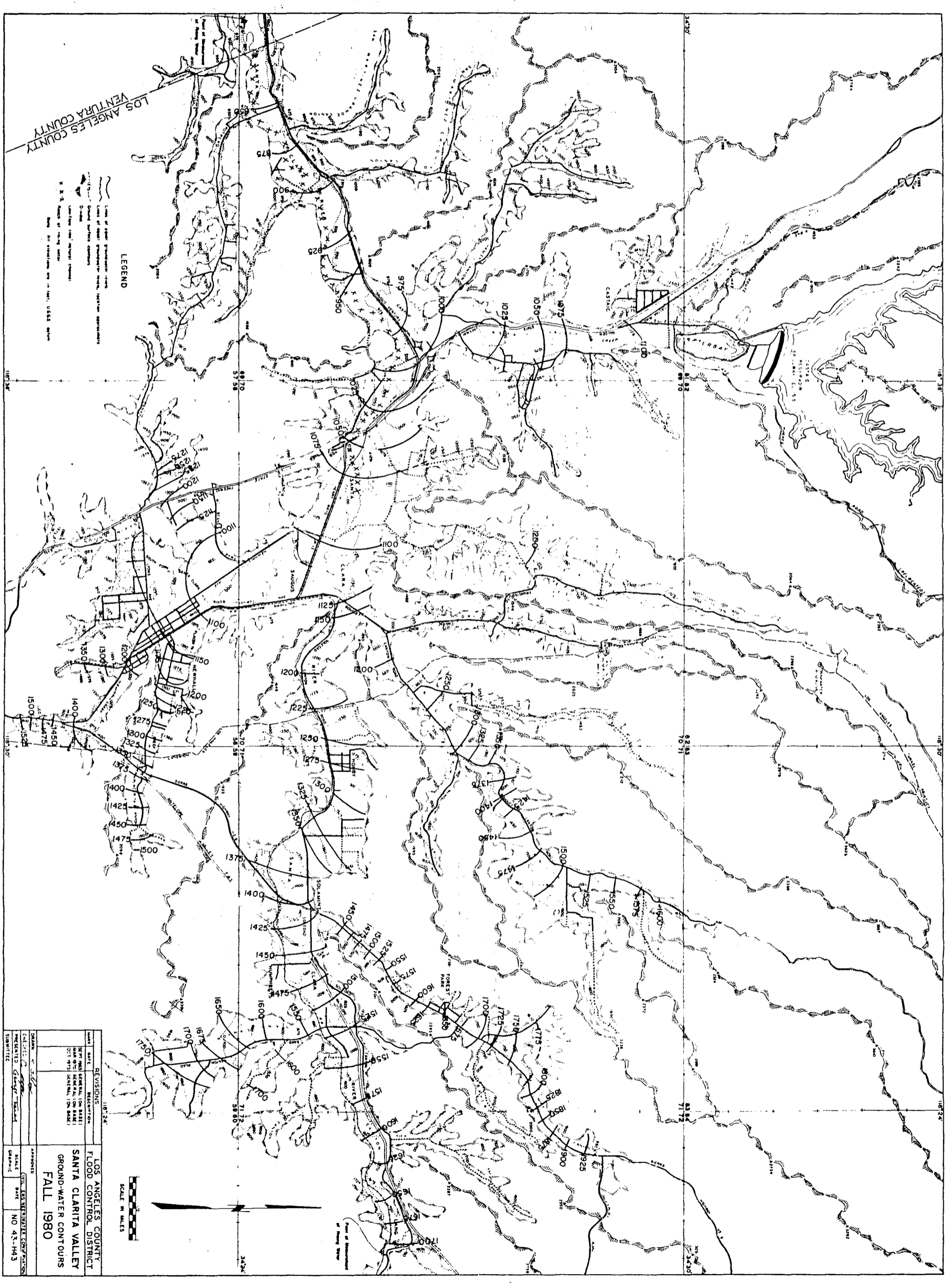


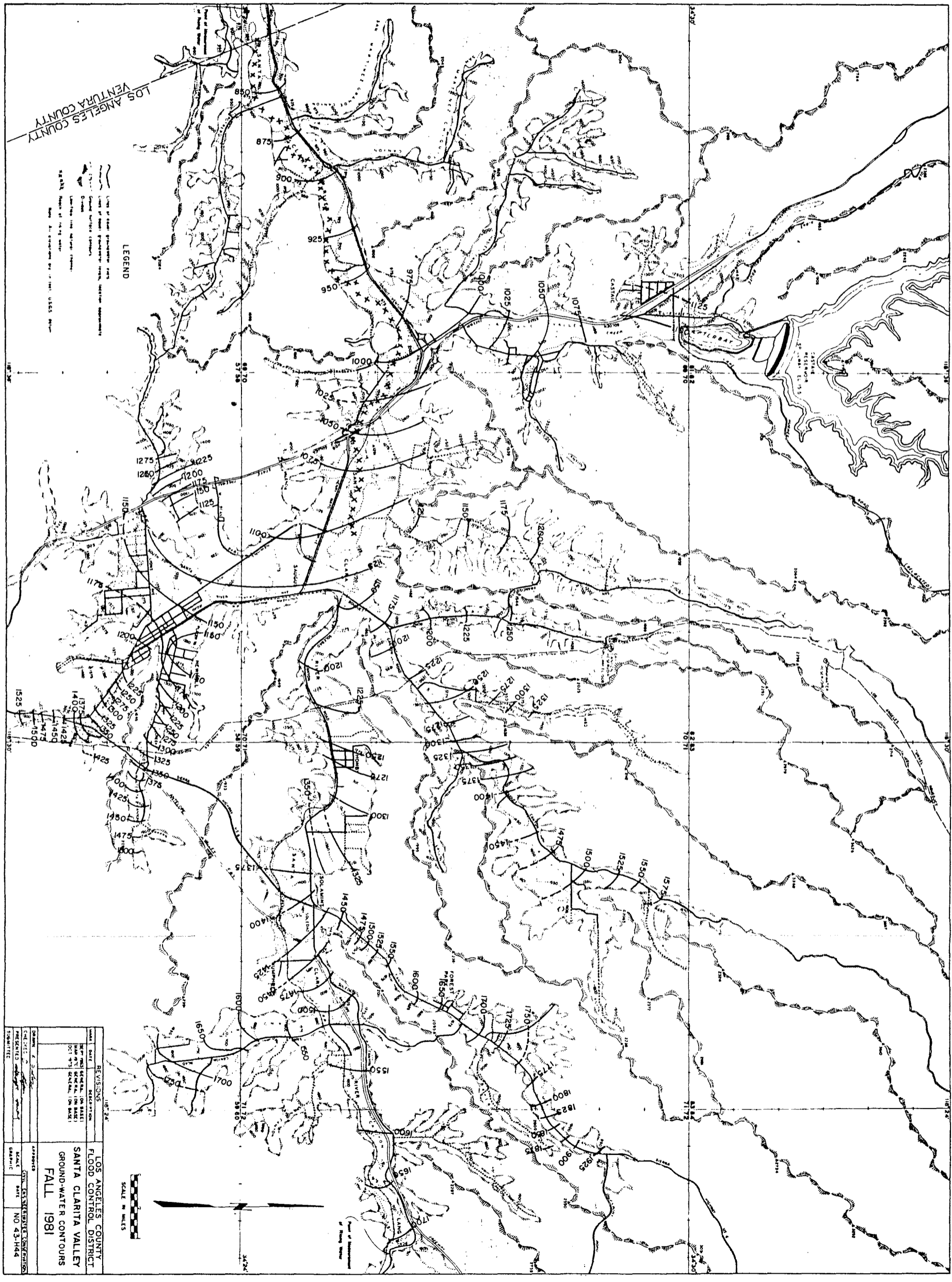
EXPLANATION

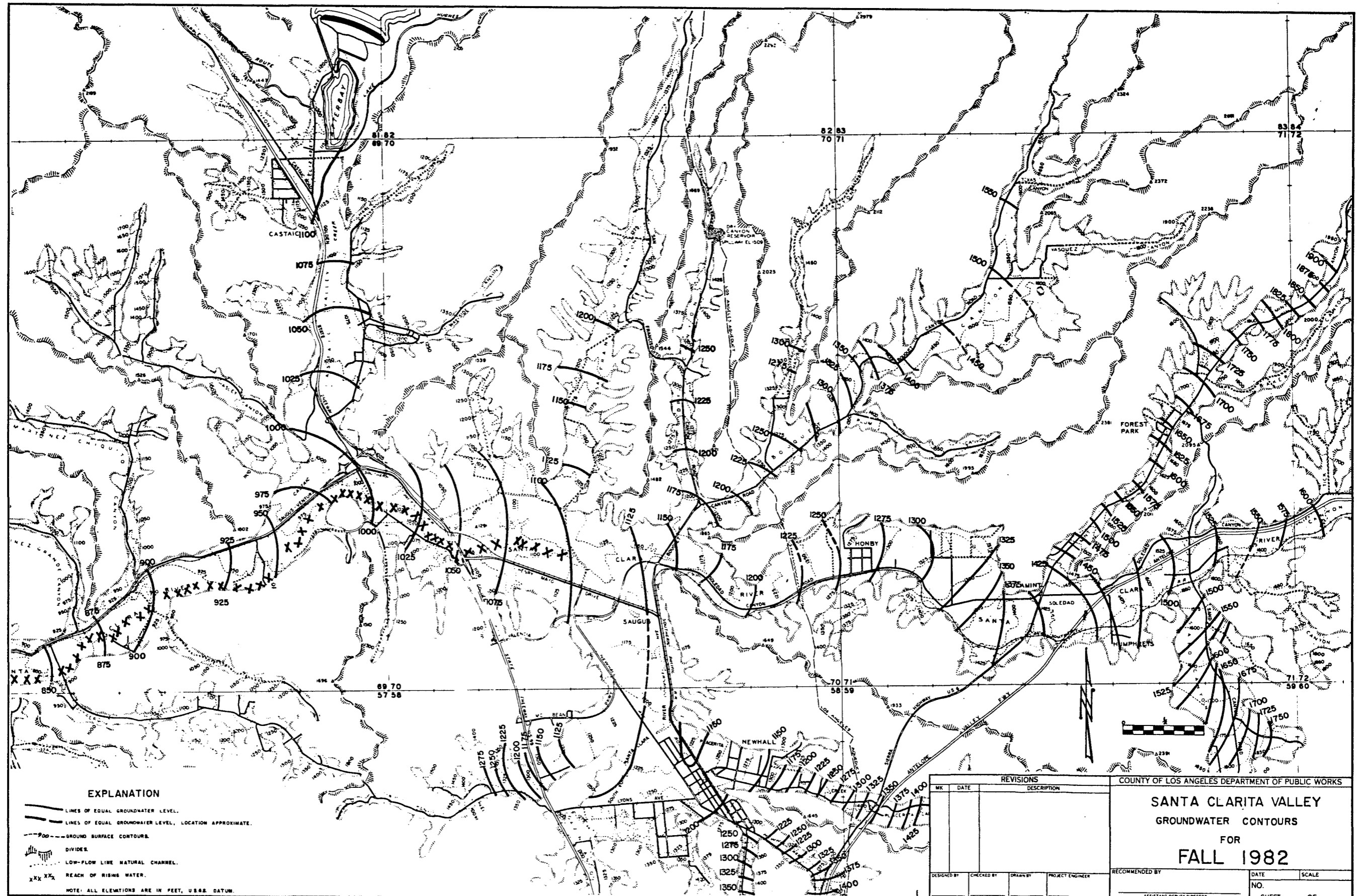
- LINES OF EQUAL PRESSURE ELEVATIONS - PRINCIPAL AQUIFER (INTERPOLATED BETWEEN WELLS)
- - - SAME AS ABOVE, LOCATION APPROXIMATE.
- RESTRICTIONS OR BARRIERS TO GROUNDWATER MOVEMENT, (GEOLOGIC AND/OR HYDROLOGIC)
- - - LINE APPROXIMATELY MARKING TRANSITION FROM FREE GROUNDWATER LEVELS TO PRESSURE LEVELS. (CENTRAL COASTAL PLAIN 1933, D.W.R. BULL. NO. 45.)

SCALE IN MILES

REVISIONS				COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS			
MK	DATE	DESCRIPTION					
				<p align="center">COASTAL PLAIN DEEP AQUIFER GROUNDWATER CONTOUR MAP FOR FALL 1986</p>			
DESIGNED BY	CHECKED BY	DRAWN BY	PROJECT ENGINEER				
				ASSISTANT DEPUTY DIRECTOR	NO.	SHEET	OF





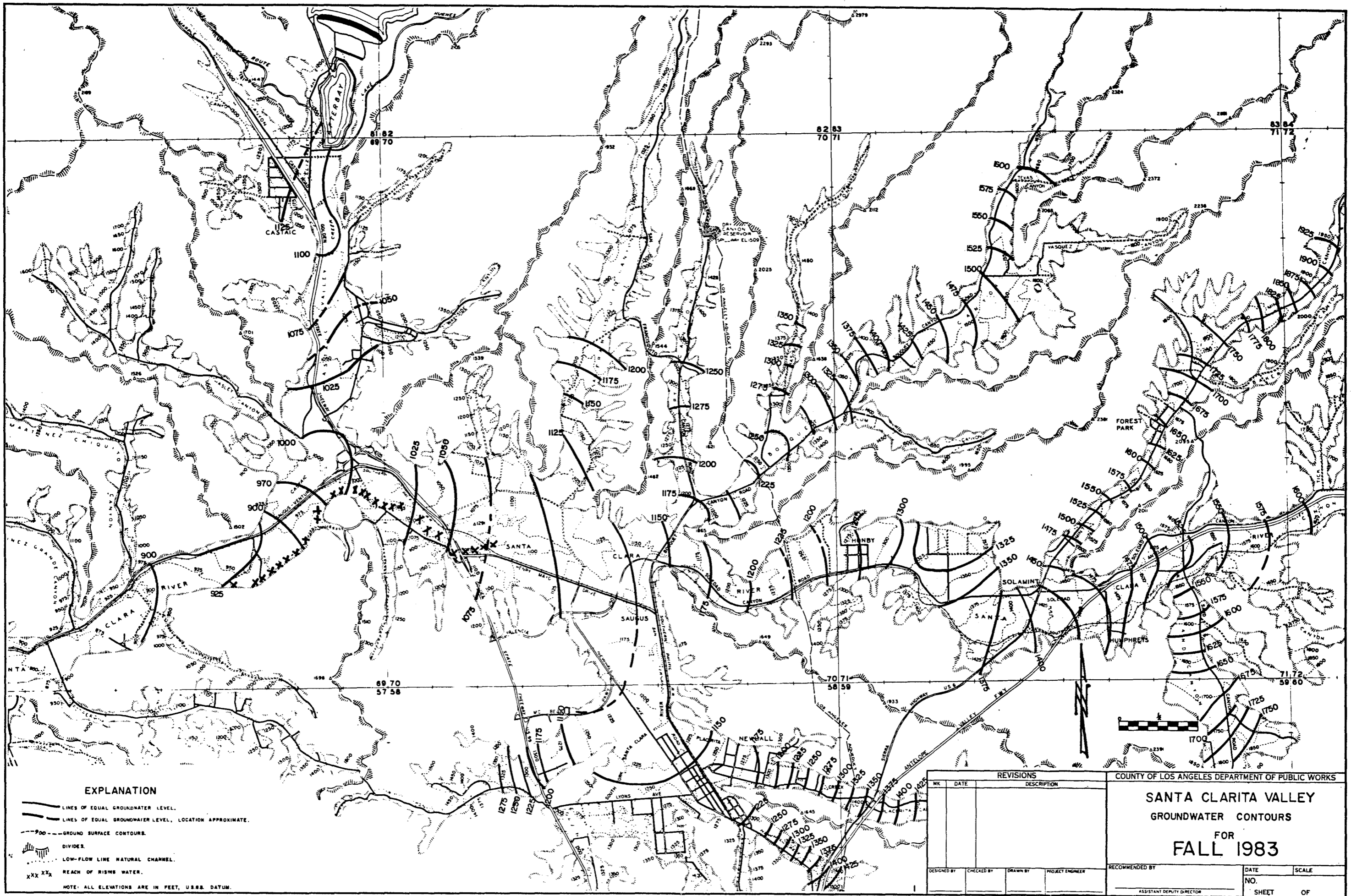


EXPLANATION

- LINES OF EQUAL GROUNDWATER LEVEL.
 - - - LINES OF EQUAL GROUNDWATER LEVEL, LOCATION APPROXIMATE.
 - - - GROUND SURFACE CONTOURS.
 - DIVIDES.
 - LOW-FLOW LINE NATURAL CHANNEL.
 - X X X REACH OF RISING WATER.
- NOTE: ALL ELEVATIONS ARE IN FEET, U.S.S. DATUM.

REVISIONS			COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS	
MK	DATE	DESCRIPTION	DESIGNED BY	PROJECT ENGINEER

SANTA CLARITA VALLEY GROUNDWATER CONTOURS FOR FALL 1982		RECOMMENDED BY _____ <small>ASSISTANT DEPUTY DIRECTOR</small>	DATE _____ SCALE _____ NO. _____ SHEET _____ OF _____
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EXPLANATION

- LINES OF EQUAL GROUNDWATER LEVEL.
- - - LINES OF EQUAL GROUNDWATER LEVEL, LOCATION APPROXIMATE.
- · · · · GROUND SURFACE CONTOUR.
- DIVIDER.
- - - - - LOW-FLOW LINE NATURAL CHANNEL.
- x x x x REACH OF RIBNS WATER.

NOTE: ALL ELEVATIONS ARE IN FEET, U.S.B. DATUM.

REVISIONS	
MK	DATE

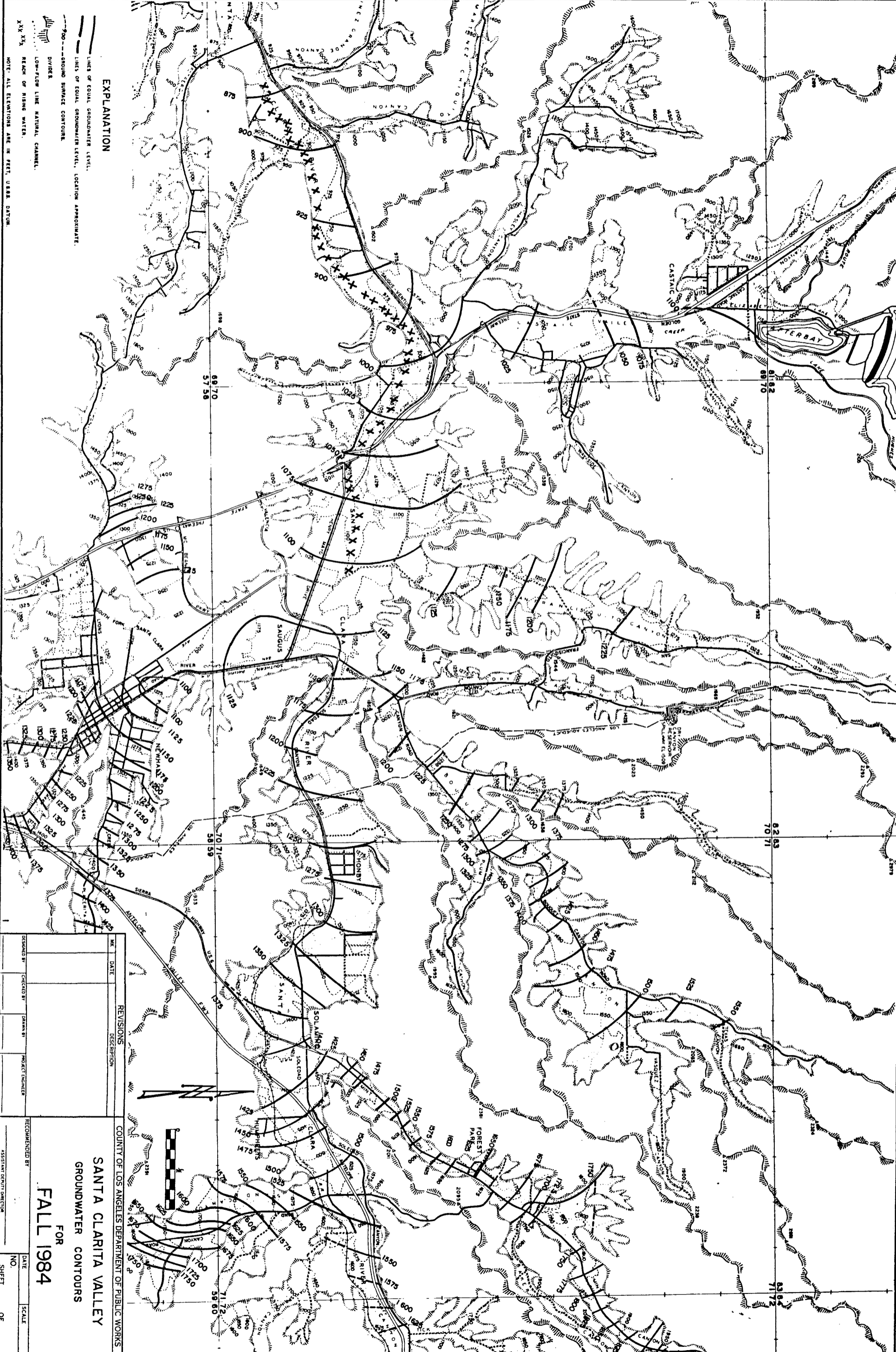
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

SANTA CLARITA VALLEY
GROUNDWATER CONTOURS
FOR
FALL 1983

DESIGNED BY	CHECKED BY	DRAWN BY	PROJECT ENGINEER

RECOMMENDED BY _____ DATE _____ SCALE _____

NO. _____ SHEET OF _____



EXPLANATION

- LINES OF EQUAL GROUNDWATER LEVEL.
- - - LINES OF EQUAL GROUNDWATER LEVEL, LOCATION APPROXIMATE.
- - - GROUND SURFACE CONTOUR.
- DIVIDER.
- LOW-FLOW LINE NATURAL CHANNEL.
- X X X X REACH OF RISING WATER.

NOTE: ALL ELEVATIONS ARE IN FEET, U.S.S. DATUM.

REVISIONS		DATE	BY
NO.	DESCRIPTION		

DESIGNED BY	CHECKED BY	DRAWN BY	PROJECT ENGINEER

RECOMMENDED BY	DATE	SCALE

ASSISTANT DIRECTOR	NO.	DATE	SCALE

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

SANTA CLARITA VALLEY

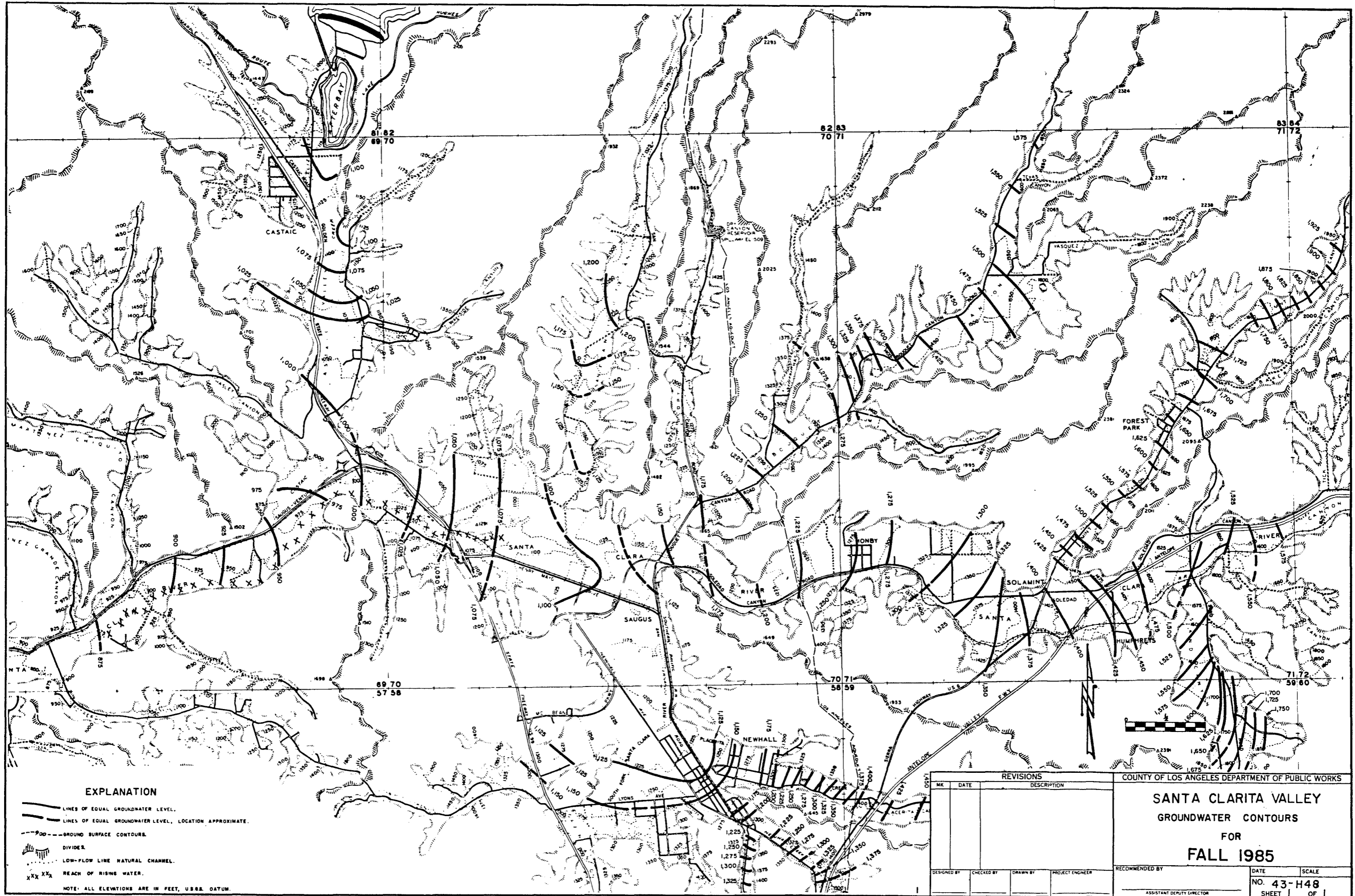
GROUNDWATER CONTOURS

FOR

FALL 1984

NO. DATE

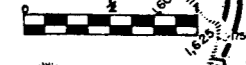
SHEET OF



EXPLANATION

- LINES OF EQUAL GROUNDWATER LEVEL.
- - - LINES OF EQUAL GROUNDWATER LEVEL, LOCATION APPROXIMATE.
- - - GROUND SURFACE CONTOUR.
- DIVIDER.
- LOW-FLOW LINE NATURAL CHANNEL.
- XX XX REACH OF RISING WATER.

NOTE: ALL ELEVATIONS ARE IN FEET, U.S.S. DATUM



REVISIONS			
NO.	DATE	DESCRIPTION	

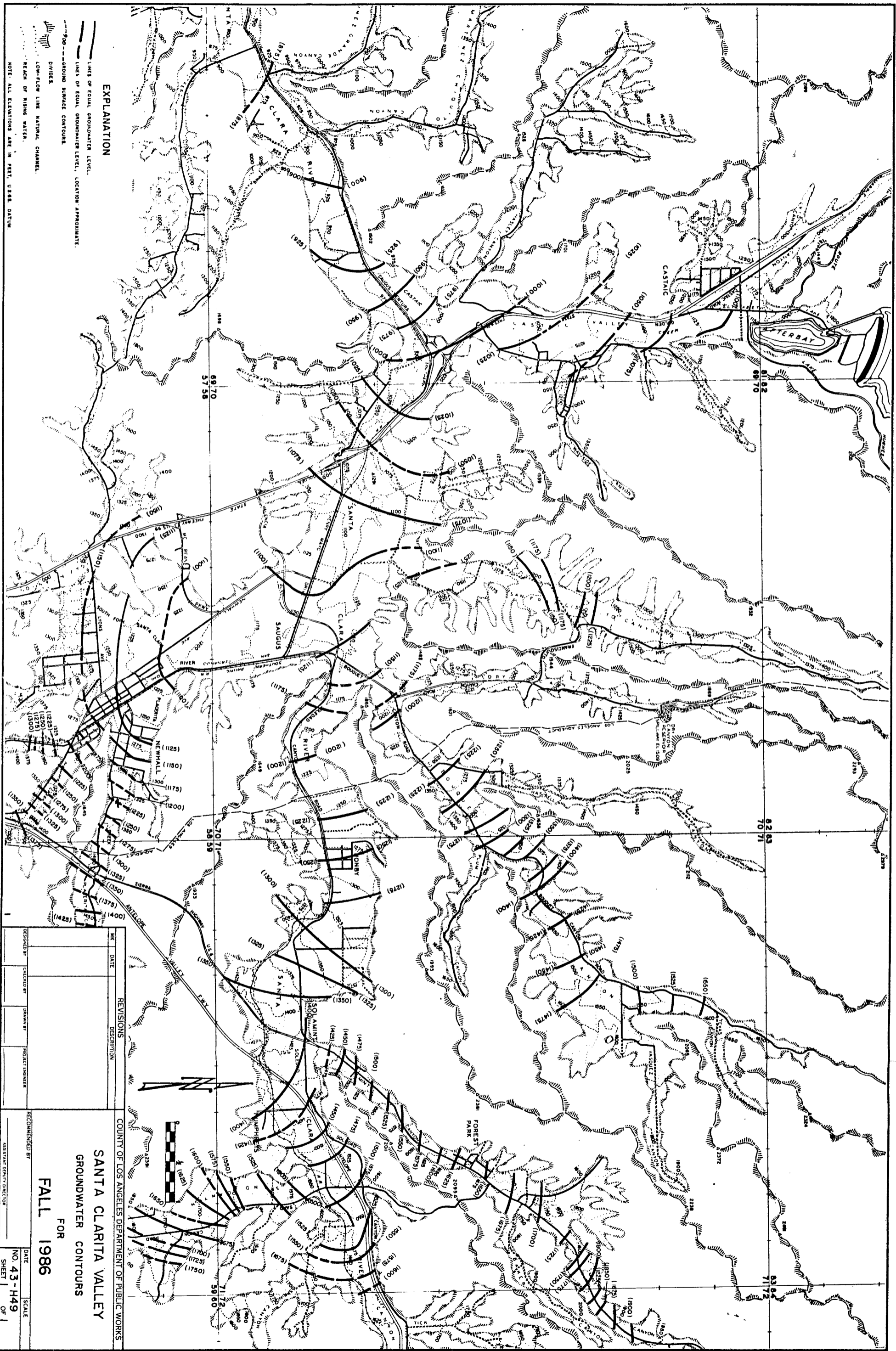
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

**SANTA CLARITA VALLEY
GROUNDWATER CONTOURS
FOR
FALL 1985**

DESIGNED BY	CHECKED BY	DRAWN BY	PROJECT ENGINEER

RECOMMENDED BY	DATE	SCALE
ASSISTANT DEPUTY DIRECTOR		

NO. 43-H48
SHEET 1 OF 1



EXPLANATION

- LINES OF EQUAL GROUNDWATER LEVEL.
- - - LINES OF EQUAL GROUND SURFACE LEVEL, LOCATION APPROXIMATE.
- DIVIDER
- LOW-FLOW LINE NATURAL CHANNEL.
- REACH OF RISING WATER.

NOTE: ALL ELEVATIONS ARE IN FEET, U.S.S. DATUM.

REVISIONS		DATE	DESCRIPTION
NO.	BY		

DESIGNED BY	CHECKED BY	DRAWN BY	PROJECT ENGINEER
RECOMMENDED BY			

DATE	SCALE
NO. 43-H49	
SHEET 1	OF 1

**SANTA CLARITA VALLEY
GROUNDWATER CONTOURS**

FOR
FALL 1986

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

